2019

ANNUAL INFORMATION FORM

(Fiscal Year Ended March 31, 2019)

June 13, 2019

CORPORATE OFFICE
8585 Chemin Côte-de-Liesse
Saint-Laurent, Québec
Canada H4T 1G6
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Unless otherwise noted, all dollar references in this Annual Information Form are expressed in Canadian dollars.

References to fiscal 2019 refer to the period from April 1, 2018 to March 31, 2019, references to fiscal 2018 refer to the period from April 1, 2017 to March 31, 2018, and references to fiscal 2017 refer to the period from April 1, 2016 to March 31, 2017.

CAUTION REGARDING FORWARD-LOOKING STATEMENTS

This AIF includes forward-looking statements about our activities, events and developments that we expect to or anticipate may occur in the future including, for example, statements about our vision, strategies, market trends and outlook, future revenues, capital spending, expansions and new initiatives, financial obligations and expected sales. Forward-looking statements normally contain words like believe, expect, anticipate, plan, intend, continue, estimate, may, will, should, strategy, future and similar expressions. By their nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties associated with our business which may cause actual results in future periods to differ materially from results indicated in forward-looking statements. While these statements are based on management's expectations and assumptions regarding historical trends, current conditions and expected future developments, as well as other factors that we believe are reasonable and appropriate in the circumstances, readers are cautioned not to place undue reliance on these forward-looking statements as there is a risk that they may not be accurate.

Important risks that could cause such differences include, but are not limited to, risks relating to the industry such as competition, level and timing of defence spending, government-funded defence and security programs, constraints within the civil aviation industry, regulatory matters, risks relating to CAE such as evolving standards and technologies, R&D activities, fixed-price and long-term supply contracts, strategic partnerships and long-term contracts, procurement and original equipment manufacturer (OEM) leverage, product integration and program management, protection of our intellectual property, third-party intellectual property, loss of key personnel, labour relations, environmental matters, liability risks that may not be covered by indemnity or insurance, warranty or other product-related claims, integration of acquired businesses through mergers, acquisitions, joint ventures, strategic alliances or divestitures, our ability to penetrate new markets, U.S. foreign ownership, control or influence mitigation measures, length of sales cycle, seasonality, continued returns to shareholders, information technology systems including cybersecurity risk, data privacy risk and our reliance on technology and third-party providers, and risks relating to the market such as foreign
exchange, availability of capital and credit risk, pension plan funding, doing business in foreign countries including political instability anti-corruption laws and taxation matters. Additionally, differences could arise because of events announced or completed after the date of this AIF. You will find more information in the Business risk and uncertainty section of the MD&A. We caution readers that the risks described above are not necessarily the only ones we face; additional risks and uncertainties that are presently unknown to us or that we may currently deem immaterial may adversely affect our business.

Except as required by law, we disclaim any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise. The forward-looking information and statements contained in this AIF are expressly qualified by this cautionary statement.

1. CORPORATE STRUCTURE OF CAE

1.1 Name, Address and Incorporation

On March 17, 1947 CAE Inc. (Company or CAE) was incorporated as Canadian Aviation Electronics Ltd. under the laws of Canada by letters patent. In 1965, the name of the Company was changed to CAE Industries Ltd. and in 1993 the Company changed its name to CAE Inc.

CAE was continued in 1977 under the Canada Business Corporations Act (CBCA). In 1979, CAE’s articles were amended to change its authorized share capital to an unlimited number of common shares, and again in 1981 to authorize an unlimited number of preferred shares, issuable in series, with such rights, privileges, restrictions and conditions as the Directors of CAE may determine.

On June 9, 1995, CAE’s articles were amended to authorize the Directors to appoint additional Directors in accordance with the provisions of the CBCA. On April 1, 2001, the Company amalgamated with CAE Electronics Ltd., our wholly-owned subsidiary.

CAE’s registered office is located at 8585 Côte-de-Liesse, Saint-Laurent, Québec, Canada H4T 1G6, telephone: (514) 341-6780, fax: (514) 340-5530.

1.2 Inter-corporate Relationships

The direct and indirect subsidiaries and other investments or ownership interests of CAE are set out in Schedule A hereto.

2. OVERVIEW OF CAE AND THE DEVELOPMENT OF ITS BUSINESS

2.1 Overview

CAE is a global leader in training for the civil aviation, defence and security, and healthcare markets. Backed by a record of more than 70 years of industry firsts, we continue to help define global training standards with our innovative virtual-to-live training solutions to make flying safer, maintain defence force readiness and enhance patient safety. We
have the broadest global presence in the industry, with over 10,000 employees, 160 sites and training locations in over 35 countries. Each year, we train more than 220,000 civil and defence crewmembers, including more than 135,000 pilots, and thousands of healthcare professionals worldwide.

Our training solutions comprise a combination of products and services, with approximately 60% of our business being derived from the provision of services.

Founded in 1947 and headquartered in Montreal, Canada, CAE has built an excellent reputation and long-standing customer relationships based on experience, strong technical capabilities, a highly trained workforce and global reach.

CAE’s common shares are listed on the Toronto and New York stock exchanges under the symbol CAE.

### 2.2 Geographic and Segment Revenues and Locations

CAE’s consolidated revenue in fiscal 2019 was $3.304 billion and in 2018, restated to reflect the accounting changes required by IFRS 15, was $2.824 billion and is broken down as follows:

<table>
<thead>
<tr>
<th>Revenue by Segment (%)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Aviation Training Solutions</td>
<td>57</td>
<td>58</td>
</tr>
<tr>
<td>Defence and Security</td>
<td>39</td>
<td>38</td>
</tr>
<tr>
<td>Healthcare</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geographic Distribution of Revenue (%)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>39</td>
<td>38</td>
</tr>
<tr>
<td>Other Asian countries</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Other European countries</td>
<td>11</td>
<td>9</td>
</tr>
<tr>
<td>Canada</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>China</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Other countries</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Germany</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Spain</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Netherlands</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Australia</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>
The following sets out, by business segment, the locations of CAE’s primary subsidiaries’ and divisions’ material sites:

<table>
<thead>
<tr>
<th>Location</th>
<th>Civil Aviation Training Solutions</th>
<th>Defence and Security</th>
<th>Healthcare</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Canada</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Montreal, Québec</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cold Lake, Alberta</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Halifax, Nova Scotia</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Moose Jaw, Saskatchewan</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Ottawa, Ontario</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Petawawa, Ontario</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Saint John’s, Newfoundland</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Toronto, Ontario</td>
<td></td>
<td>✓</td>
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<tr>
<td>Trenton, Ontario</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Vancouver, British Columbia</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td><strong>Europe</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amsterdam, Netherlands</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barcelona, Spain</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Benson, United Kingdom</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Bordeaux, France</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Brussels, Belgium</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Budapest, Hungary</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Burgess Hill, United Kingdom</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Copenhagen, Denmark</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Dublin, Ireland</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Frankfurt, Germany</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Gatwick, United Kingdom</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Madrid, Spain</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Mainz, Germany</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Manchester, United Kingdom</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Oslo, Norway</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Oxford, United Kingdom</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Paris, France</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Prague, Czech Republic</td>
<td></td>
<td>✓</td>
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<tr>
<td>Rome, Italy</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Sesto Calende, Italy</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Shannon, Ireland</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Stockholm, Sweden</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Stolberg, Germany</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Veszprem, Hungary</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

1 The list includes CAE’s main offices, operations, training centres, and primary military base locations where we provide training support services worldwide. It does not include sites with a limited number of employees or sites where we perform higher-level security programs.
<table>
<thead>
<tr>
<th>Location</th>
<th>Civil Aviation Training Solutions</th>
<th>Defence and Security</th>
<th>Healthcare</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Altus, Oklahoma</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Charlotte, North Carolina</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corpus Christi, Texas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dallas/Fort Worth, Texas</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dothan, Alabama</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Little Rock, Arkansas</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Miami, Florida</td>
<td>✓</td>
<td></td>
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<tr>
<td>Minneapolis, Minnesota</td>
<td>✓</td>
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<tr>
<td>Morristown, New Jersey</td>
<td>✓</td>
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<tr>
<td>Orlando, Florida</td>
<td>✓</td>
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<tr>
<td>Pensacola, Florida</td>
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<td>✓</td>
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<tr>
<td>Phoenix, Arizona</td>
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<tr>
<td>San Francisco, California</td>
<td>✓</td>
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<tr>
<td>Sarasota, Florida</td>
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<td>✓</td>
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<tr>
<td>Tampa, Florida</td>
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<tr>
<td>Washington, D.C.</td>
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<td>✓</td>
</tr>
<tr>
<td>Williamsburg, Virginia</td>
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<td>✓</td>
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<tr>
<td>Central and South America</td>
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<tr>
<td>Bogota, Colombia</td>
<td>✓</td>
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<tr>
<td>Lima, Peru</td>
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<tr>
<td>Santiago, Chile</td>
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<tr>
<td>Sao Paulo, Brazil</td>
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<tr>
<td>Toluca, Mexico</td>
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<tr>
<td>Middle-East and Africa</td>
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<tr>
<td>Abu Dhabi, United Arab Emirates</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Dubai, United Arab Emirates</td>
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<tr>
<td>Johannesburg, South Africa</td>
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</tbody>
</table>
### Location

<table>
<thead>
<tr>
<th>Location</th>
<th>Civil Aviation Training Solutions</th>
<th>Defence and Security</th>
<th>Healthcare</th>
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<tbody>
<tr>
<td><strong>Asia-Pacific</strong></td>
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<tr>
<td>Amberley, Australia</td>
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<td>✓</td>
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<tr>
<td>Auckland, New Zealand</td>
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<tr>
<td>Beijing, China</td>
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<tr>
<td>Bengaluru, India</td>
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<td>Brunei, Darussalam</td>
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<td>Gondia, India</td>
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<td>Guangzhou, China</td>
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<td>Ho Chi Minh, Vietnam</td>
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<td>Kuala Lumpur, Malaysia</td>
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<td>Manila/Clark, Philippines</td>
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<tr>
<td>Melbourne, Australia</td>
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<td>New Delhi, India</td>
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<td>Nowra, Australia</td>
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<tr>
<td>Ohakea, New Zealand</td>
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<tr>
<td>Perth, Australia</td>
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<tr>
<td>Richmond, Australia</td>
<td></td>
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<tr>
<td>Sale, Victoria, Australia</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Seoul, Korea</td>
<td></td>
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<tr>
<td>Shanghai, China</td>
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<td>✓</td>
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<tr>
<td>Singapore, Republic of Singapore</td>
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<td>✓</td>
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<td>Sydney, Australia</td>
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<td>Tamworth, Australia</td>
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<tr>
<td>Tokyo, Japan</td>
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<td>✓</td>
<td></td>
</tr>
<tr>
<td>Williamstown, Australia</td>
<td></td>
<td>✓</td>
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</tr>
</tbody>
</table>

### 2.3 CAE’s Mission

Through the training we provide, our mission is to make air travel safer, defence forces mission ready and medical personnel better able to save lives.

### 2.4 CAE’s Vision

Our vision is to be the recognized global training partner of choice to enhance safety, efficiency and readiness.
2.5  Our Strategy and Operations

Our Strategy

We address safety, efficiency and readiness for customers in three core markets: civil aviation, defence and security, and healthcare.

We are a unique, pure-play training company with a proven record, of more than 70 years, of commitment to our customers’ long-term training needs.

We offer the most innovative and broadest range of comprehensive training solutions across a global network by incorporating a combination of live training on actual platforms, virtual training in simulators and extended reality applications, and constructive training using computer-generated simulations. Our key strategic priorities in order to be the worldwide training partner of choice focus on bolstering talent, delighting the customer, driving innovation and creating value.

Six Pillars of Strength

We believe there are six fundamental strengths that underpin our strategy and position us well for sustainable long-term growth:

- High degree of recurring business;
- Strong competitive moat;
- Headroom in large markets;
- Underlying secular tailwinds;
- Potential for superior returns;
- Culture of innovation.

High Degree of Recurring Business

We operate in highly regulated industries with mandatory and recurring training requirements for maintaining professional certifications. Approximately 60% of our business is derived from the provision of services, which is an important source of recurring business, and largely involves long-term agreements with many airlines, business aircraft operators and defence forces.

Strong Competitive Moat

Our global training network, unique end-to-end cadet to captain training solutions, digitally-enabled training systems, training systems integrator expertise, unrivaled customer intimacy and strong, recognizable brand further strengthen our competitive moat.

Headroom in Large Markets

We provide innovative training solutions to customers in large addressable markets in civil aviation, defence and security and healthcare. Significant untapped market opportunities exist in these three core businesses, with substantial headroom to grow our market share over the long-term.
**Underlying Secular Tailwinds**

The civil aviation and defence sectors are enjoying strong tailwinds. Air passenger traffic and defence budgets are expected to continue to increase globally over the next 10 years.

**Potential for Superior Returns**

In each of our businesses, we anticipate growing at a rate superior to our underlying markets. Our rising proportion of revenue from training services provides potential for lower amplitude cyclical as training is largely driven by the training requirements of the installed fleet. In addition, we leverage our leading market position to deepen and expand our customer relationships. We see opportunity to further utilize our training network and generate more revenue from existing assets and to deploy new assets with accretive returns.

**Culture of Innovation**

We derive significant competitive advantage as an innovative leader in simulation products and training solutions. In collaboration with our customers, we design and deliver the industry's most sophisticated training systems, employing the latest in simulation, extended reality and digital technologies, which are shaping the future of training.

**Our Operations**

We provide integrated training solutions to three markets globally:

- The civil aviation market includes major commercial airlines, regional airlines, business aircraft operators, civil helicopter operators, aircraft manufacturers, third-party training centres, flight training organizations, maintenance repair and overhaul organizations (MROs) and aircraft finance leasing companies;

- The defence and security market includes defence forces, OEMs, government agencies and public safety organizations worldwide;

- The healthcare market includes hospital and university simulation centres, medical and nursing schools, paramedic organizations, defence forces, medical societies and OEMs.

**2.6 Industry Overview and Trends**

The civil, defence and security and healthcare markets that CAE serves are driven by factors particular to each market.

CAE believes the civil market is most affected by the world gross domestic product, which in turn drives air travel, measured in revenue passenger kilometers (RPK). This positive RPK generation needs to be satisfied by aircraft deliveries in addition to the existing fleet, and then corrected for attrition. Other factors influencing CAE include the nature, size and composition of aircraft fleets, aircraft delivery schedules, pilot demographics, certification requirements, market demand for commercial and business air travel and helicopter transport; the latter two in particular are also influenced by corporate profits and activity in the oil and gas sector.

CAE believes the defence and security market is mostly influenced by a combination of defence spending and the nature of military activity. Demand for CAE’s Defence products and services are also influenced by the degree to which governments globally lean towards the outsourcing of functions to the private sector. As well, CAE’s Defence and
Security (Defence) business is affected by the extent to which synthetic training and mission rehearsal solutions gain market acceptance as a complement or alternative to live training such as flying an actual aircraft.

CAE believes the healthcare market is influenced by an increased focus on healthcare systems as well as hospitals being increasingly compensated, accredited on patient safety, medical errors and outcomes. We believe these developments in North America and quality focus in international markets bode well for the need for training solutions. We are also seeing that the regulatory environment is moving towards increased acceptance of simulation-based training approaches vs. the present system of on-the-job learning assisted by seasoned clinicians. As well, CAE believes the introduction of disruptive medical technology will have a bearing on the rate of adoption for simulation-based training solutions. New medical devices and advanced procedures, such as percutaneous heart valves, pacemakers, complex spinal procedures, cardiac assist devices and mechanical ventilation enhancements, require advanced training solutions, such as simulation, for internal product development and customer training.

2.7 Research and Development

CAE’s competitive strategy is based on technology leadership of its products and services. This strategy is underpinned by a strong innovation culture and a long-standing commitment to performing R&D. Also, CAE’s competitive strategy is based on training leadership. Launched in April 2015, CAE’s Flight Instructor Initiative (FIIN) continues to be a flagship initiative which focuses on recruiting, developing and retaining the best instructors to make them part of our differentiators. This initiative leverages CAE’s ongoing development of instructor support infrastructures and tools as well as basic research and experimentation with disruptive technologies related to biometrics and virtual reality. CAE has led the industry in introducing disruptive sustainable innovations to meet the highest safety standards required by governments, regulatory authorities and airlines. In 2018, CAE announced the launch of its newest pilot training innovation, the CAE Real-time Insights and Standardized Evaluations (CAE Rise™) training system, with its longstanding partner AirAsia. CAE Rise™ promises to take pilot training standardization and evaluations to a whole new level. Building on FIIN and its CAE Rise™ training system, arose CAE’s Digital Accelerator strategy where digital transformation teams are developing many capabilities, including taking a profound customer journey perspective, adopting a client lens in design, and improving agility and scalability of technology decisions.

CAE uses leading practices in its Global Engineering organization to ensure strategic alignment of the technology roadmap with the business strategy. Driving innovation at all levels within CAE’s products, services and processes throughout the operational execution continues to be a strategic priority. To this end, a company-wide “Innovation Challenge” process has been deployed to all employees and includes an internal social media platform to stimulate creativity. Our employees are proud to contribute to the innovation journey leading to new products and services. Additionally, CAE’s R&D partnerships with universities and research centers also help ensure a constant flow of the best talent and leverage the latest technologies and expert knowledge to improve CAE’s products, processes, and services.

Furthermore, CAE’s digital simulation products ecosystem and footprint has amplified in the last year with the launch of CAE’s Digital Accelerator strategy and the development of data collection and analytics which enable operational efficiencies, evidence-based evaluation, as well as the enhancement of training systems powered by advanced algorithms and artificial intelligence. The CAE 7000XR™ continues to be a benchmark in the industry, enhanced by
new innovations and by further enablement developed from CAE’s digital ecosystem capabilities. This simulator has defined the customer experience standards for pilots, for instructors, for maintenance technicians, and for training centre operators. The CAE 7000XR™ next generation instructor environment has been a significant achievement. The CAE 7000XR™ also provides a novel computing infrastructure that leverages cloud-based big data technologies to allow for a superior level of operational efficiency. Embedded training capabilities such as upset recovery training systems, as mandated by new regulations, remain critical for a comprehensive and immersive training experience.

Additionally, in fiscal 2018, CAE launched the CAE 600XR Series Flight Training Devices (FTD), the latest addition to CAE’s innovative XR Series training equipment suite.

In April 2018 CAE announced at the World Aviation Training Symposium (WATS) the qualification of its first CAE 7000XR Series Airbus A320 full-flight simulator (FFS) to FAA Part 60 Change 2 requirements, covering Extended Envelope and Adverse Weather Training. This key achievement was made possible following an industry collaboration held earlier this year at CAE with Airbus, the Federal Aviation Administration (FAA) and several US airline customers. Also, the FAA has qualified the first CAE 7000XR Series Airbus A330 FFS for Extended Envelope and Adverse Weather Training. The qualification was obtained in October 2018 and CAE had also completed similar qualifications for Boeing 737NG, 777 and 787 platforms, in compliance with FAA regulations.

The adoption of the CDB (formerly known as the Common Database and originally developed by CAE) in FY2016 as an Open Geospatial Consortium (OGC) standard brought the geospatial intelligence, modelling, and simulation industries together to establish greater interoperability of geospatial data. In FY2018, the OGC CDB was also approved for the US Department of Defense (DoD) Information Technology Standards and Profile Registry (DISR). The DISR is the single, unifying DoD registry for approved information technology (IT) and national security systems standards and standards profiles that is managed by the Defense Information Systems Agency (DISA). The DISR Baseline lists IT Standards that are mandated for use in the DoD Acquisition process. The application of the CDB standard to future simulation architectures will significantly reduce development, update, and configuration management timelines for the creation of synthetic environment databases.

CAE has continued to advance its leadership position in simulation synthetic environments with its CAE Medallion-6000XR image generator which is now fully compliant to the OGC CDB, and features new state-of-the-art sea environments and 3D immersive models. At the Farnborough International Airshow, in fiscal year 2019, CAE announced the launch of the CAE 700MR Series flight training device (FTD), a next-generation FTD designed specifically for military helicopter flight and mission training which provides realistic and immersive training environments. It also incorporates the latest generation Medallion MR e-series Visual system, a complete and turnkey visual solution designed specifically for military fighter and fast-jet training.

In November 2018, at the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC), the world’s largest military training and simulation event, CAE announced the launch of CAE Rise™ for the defense market. CAE Rise™ is a data-driven training system designed to enable defense and security organizations to deliver standardized training and give instructors a new approach to objectively assess pilot competencies using live data during training sessions.
In fiscal 2019, we announced a plan to invest $1 billion in research and development innovation over the next five years, including Project Digital Intelligence (PDI). The goal of PDI is to develop the next generation training solutions for aviation, defence and security and healthcare to leverage digital technologies. The Governments of Canada and Québec have agreed to participate in PDI through partially repayable investments of $150.0 million and $47.5 million, respectively.

Specifically, for the defence and security market segment, CAE continues to actively conduct research and development initiatives related to distributed mission operations, integrated live-virtual-constructive (iLVC) training, closed-loop training, high-fidelity remotely piloted aircraft training systems, cybersecurity, mid-fidelity flight training devices, and more realistic synthetic environments. These initiatives are designed to support the desire of defence forces to conduct more integrated and networked virtual training and mission rehearsal exercises, as well as optimize the overall efficiency through the lifecycle of a training system. Key advancements include, the continued development of technologies related to enduring platforms as well as positioning to provide key technologies and capabilities to new platforms addressing the need for immersive, integrated and interoperable training environments. CAE is actively teaming with other industry partners, as evidenced by our November 2017 announcements of a collaborative agreement to develop iLVC training that is easier to set-up, secure, and interoperable. In FY2018 the LVC capabilities have been successfully demonstrated across live platforms and competitors’ products. In FY2019 we continued developing these capabilities with additional state-of-the-art demonstrations and the development related to joint multinational simulation centres.

In fiscal 2019, CAE filed 82 patent applications covering the latest innovations in its products, processes and services. In addition, CAE will develop technologies and training solutions geared towards joint and networked operations in order to be a training systems integrator in the air, naval and land domains.

CAE’s Healthcare R&D teams continue to innovate and introduce novel products. We are a leader in patient simulators which are based on advanced models of human physiology that realistically mimic human responses to clinical interventions. To address the growing demand, we have invested in the development of mid-fidelity products, such as CAE Juno, a clinical skills manikin; CAE Ares, an emergency care manikin; and CAE Luna, a neonatal simulator. We were the first to bring a commercial Microsoft HoloLens mixed reality application to the medical simulation market. We continue to integrate augmented and virtual reality into our software and ground-breaking products.

Through our Healthcare Academy, we deliver peer-to-peer training at customer sites as well as in our training centres in Canada, Germany, the U.K. and U.S. Our Healthcare Academy includes more than 50 adjunct faculties consisting of nurses, physicians, paramedics and sonographers who, in collaboration with leading healthcare institutions, have developed more than 500 Simulated Clinical Experience courseware packages. We offer turnkey solutions, project management and professional services for healthcare simulation programs. We also collaborate with medical device companies and scientific societies to develop innovative and custom training solutions. In collaboration with the American Society of Anesthesiologists (ASA), we have released the first three modules for Anesthesia SimSTAT, a virtual healthcare training environment for practicing physicians. This new platform provides continuing medical education for Maintenance of Certification in Anesthesiology (MOCA) and has allowed us to expand access to simulation-based clinical training among the anesthesia community. Furthermore, through industry partnerships with medical device companies, we have developed a specialized interventional simulator to train physicians to implant a
new generation of pacemakers as well as a modular, portable catheterization laboratory interventional simulator, CAE CathLabVR.

2.8 Production and Services

Production

CAE’s manufacturing and assembly facilities are located in Montreal, Canada; Tampa, U.S.; Sarasota, U.S.; and Stolberg, Germany.

Most of our manufacturing and integration activities for Civil and Defence simulation systems are conducted at CAE’s facilities in Montreal, with some integration and update related work also being conducted at the Tampa and Stolberg sites. The Tampa facility conducts military systems integration and testing activities for simulation equipment destined for U.S. military-related contracts.

The manufacturing process for a FFS is complex, involving the coordination of more than 20,000 parts and millions of lines of software code. The manufacture of a simulator includes six major stages: design, manufacture and assembly, integration and testing, shipping, site installation and final qualification on site. Defence simulators, by virtue of their tactical environments, are more complex and unique than Civil simulators and therefore may take more time to design, manufacture and test.

Manufacturing is organized into ten manufacturing cells comprised of the following three major disciplines: electronics (printed circuit board assembly), electrical (cables, cabinets, aircraft instruments and avionics), and mechanical (sheet metal and machine shop, precision assembly and hydraulics, structural assembly and final assembly). Each cell has its own planning, methodizing and set of specific products to deliver, which establishes clear accountability for manufacturing performance.

Services

CAE’s training and service facilities are based around the world. While our head office is located in Montreal, Canada, CAE has over 65 training centres globally.

These locations include Type Rating Training Organizations offering pilot, maintenance and cabin crew training to business and commercial aircraft operators; ab-initio training centres which provide commercial pilot license training to aspiring pilots; Defence training centres offering academic, simulator and live flying training to produce qualified military aircrews; and several locations from which CAE offers technical support services to aviation training centres.

CAE provides a range of technical support services to Civil and Defence simulator operators, including parts replacement and repairs, installations, relocations, upgrades and technical training. Customers use CAE’s technical services to answer questions, troubleshoot and receive advice. This extends to service visits by CAE’s engineers to assist in customer maintenance and repair activities. Defence and Civil upgrade services are not restricted to CAE products; CAE can upgrade most other manufacturers’ simulators. CAE services are offered either in conjunction with a sale of a simulator, through maintenance contracts or individual purchase orders. CAE believes that our service
business provides opportunities to influence the upgrade of installed FFS while providing valuable insights into customer training needs.

In Defence, CAE provides a range of training support services such as contractor logistics support, maintenance services, classroom instruction and simulator training at over 100 sites around the world.

CAE also provides analytical and engineering services that leverage modeling and simulation and other advanced technologies to develop innovative solutions to our clients’ most complex challenges. CAE offers clients a range of services and subject matter expertise, including human factors and human system integration, capability-based planning, advanced synthetic environments, system and software engineering for Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance and electronic warfare systems, training systems and services, integrated information environments, and in-service support for fleet operations and maintenance.

2.9 Specialized Skills and Knowledge

CAE employs predominantly graduates in engineering and software development, as well as pilots, instructors and other flight training experts. As an industry leader, CAE is able to train our staff in the technology and software required for simulation software and equipment. Flight trainers are typically recruited from the ranks of former airline or military pilots. Recognizing that engineering talent is critical to CAE innovation capability, CAE has an engineering career framework to develop the talent pipeline within the CAE engineering community.

Flight instructors are CAE’s second largest employee group after engineers and the Company's face in front of customers. They’re also key to ensuring we become the industry’s gold standard in training. We’ve implemented a number of initiatives to improve our instructor capability under our new training organization. The Global Leader in Training Strategy enhances our value proposition in aviation training and engages instructors in achieving our vision. Strategy was developed to recruit, develop and retain the best instructors. This strategy includes identifying the attributes of best-in-class instructors and setting the industry standard for instructor performance management to enhance our competitive edge. It will serve to elevate the profile of our instructors both internally and externally. This initiative will also help us build the right HR infrastructure around instructors and give them the tools they need to excel.

To optimize training leadership, CAE is investing in three areas:
- Enhance instructor performance - As a result, CAE is strengthening the instructor support infrastructure, including new functions, processes and technical support tools;
- Enhance course offering by investing in courseware development and training delivery support tools; and
- Training service innovation - CAE is continuing to invest in R&D to innovate the training service offering and is leveraging on its engineering organization and capabilities to support strategic training solutions.

2.10 Competition

We sell our simulation products and training services in highly competitive international markets. Section 4.1.1 of this AIF contains more information regarding competition as a risk factor for CAE.
2.11 Components

CAE deals with a variety of goods and services suppliers across our business segments. Although we are not overly dependent on any single supplier for any key manufacturing components or services, our products contain sophisticated software and computer systems that are supplied to us by third parties. These may not always be available to us.

Our production of simulators often depends on receiving confidential or proprietary data on the functions, design and performance of a product or system that our simulators are intended to simulate. We may not be able to obtain access to these multiple data sets on reasonable terms, or at all. Original manufacturers of these products and systems could object to the simulation by CAE of components of, or the totality of their products or systems, or could request high license fees that could negatively impact CAE’s profit margins.

Most of the raw materials used in manufacturing (such as sheet metal, wires, cables and electronic components) are available off the shelf from multiple commercial sources. The unique parts are the aircraft parts. These are usually available from aircraft manufacturers, the resale market, decommissioned or surplus aircrafts as well as through simulated part manufacturers.

The availability of most parts in a timely manner facilitates a relatively smooth production flow. Aircraft parts, in some instances, may be an exception, especially on new/prototype aircraft types or those out of production. The timely delivery of these parts is often the responsibility of CAE’s customers. CAE’s contracts normally link these aircraft parts delivery dates to the simulator delivery schedules. In cases where such aircraft parts cannot be made available, CAE’s customers rely on CAE’s ability to make simulated parts.

2.12 Protection of Our Intellectual Property and Brand

We rely, in part, on trade secrets, copyrights and contractual restrictions, such as confidentiality agreements, patents and licences to establish and protect our proprietary rights. In some cases, these may have limited effectiveness in preventing a misuse of our intellectual property or in deterring others from developing similar intellectual property. We may be limited in our ability to acquire or enforce our intellectual property rights in some countries. Litigation related to our intellectual property rights could be lengthy and costly and could negatively affect our operations or financial results, whether or not we are successful in defending a claim.

As the training partner of choice to enhance safety, efficiency and readiness, our brand is a significant asset. From time to time, we may authorize the use of our brand, under third party license agreements. We control and manage the use of our brand and ensure that our partners and suppliers meet rigorous standards to ensure that our brand value is preserved. Adverse publicity related to incidents or litigation involving us, our partners or suppliers may impact the value of our brand.

2.13 Intellectual Property

Our products contain sophisticated software and computer systems that are supplied to us by third parties. These may not always be available to us. Our production of simulators often depends on receiving confidential or proprietary data on the functions, design and performance of a product or system that our simulators are intended to simulate. Our
training systems may also involve the collection and analysis of customer performance data in connection with the use of our training systems. We may not be able to obtain access to these multiple data sets on reasonable terms, or at all.

Infringement claims could be brought against us or against our customers. We may not be successful in defending these claims and we may not be able to develop processes that do not infringe on the rights of third parties, or obtain licences on terms that are commercially acceptable, if at all.

The markets in which we operate are subject to extensive patenting by third parties. Our ability to modify existing products or to develop new products and services may be constrained by third-party patents such that we incur incremental costs to licence the use of the patent or design around the claims made therein.

CAE owns certain patents and has filed applications in respect of additional patents. CAE enters into agreements containing non-disclosure and confidentiality clauses with third parties and has similar provisions in place with our employees to protect our proprietary information and trade secrets. CAE also has internal policies concerning both ethics and intellectual property which guide our employees in their dealings with CAE’s intellectual property and that of third parties.

CAE believes that certain intellectual property is adequately protected by either maintaining it as a trade secret or selectively disclosing enough of it to forestall anyone else from subsequently claiming it as their own original innovation.

CAE’s agreements with Innovation, Science and Economic Development Canada (ISED) and Investissement Québec (IQ) restrict, in some cases, CAE’s ability to license (other than to customers) or transfer ownership of intellectual property developed with the program’s support until all funding has been repaid or consent has been obtained.

Given CAE’s many decades of success in the field of aviation simulation and training, CAE believes that the CAE brand and some of our trademarked products and services have value in the markets we address.

2.14 Cycles

In the Defence and Security segment, order levels may vary significantly from quarter to quarter because of the irregular timing of government orders and procurement processes.

The Civil Aviation Training Solutions (Civil) segment’s equipment sales to airlines are affected by the cycles of expansion and contraction of the entire commercial airline industry, as well as the availability of credit and general economic conditions. Demand for training services is to a lesser extent, also affected by the longer wave cycles of the commercial airline industry. The Civil segment also experiences a significant degree of seasonality; in times of peak travel (holiday periods, etc.) airline and business jet pilots are often too busy flying aircraft to attend training sessions.

Healthcare is subject to the irregular timing of orders by hospitals, universities, government entities and defence forces.
2.15 Environmental Matters

We use, generate, store, handle and dispose of hazardous materials at our operations, and used to at some of our discontinued or sold operations. Past operators at some of our sites also carried out these activities.

New laws and regulations, stricter enforcement of existing laws and regulations, the discovery of previously unknown contamination, new clean-up requirements or claims on environmental indemnities we committed to may result in us having to incur substantial costs. This could have a materially negative effect on our financial condition and results of operations.

Additionally, the potential impacts of continued climate change are unpredictable. The occurrence of one or more natural disasters or weather-related events could result in a disruption of operations, property damage and adverse effects to the cost or availability of materials and resources. We cannot be certain that our insurance coverage will be sufficient to cover one or more substantial claims, though to date, our insurance coverage has been adequate to meet claims.

CAE believes our current operations are in compliance in all material respects with environmental laws and regulations. Environmental protection requirements do not have material financial or operational effects on CAE’s capital expenditures, earnings or competitive position.

2.16 Employees

CAE strives to have practices in place that drive employee development and engagement through employee communications, processes such as its Annual Leadership Development Process. The Company invests in its employees through technical and leadership training, as well as developmental career moves.

CAE employs over 10,000 employees; of these, approximately 2,600 are unionized and covered by 59 different collective agreements as of March 31, 2019. These differing collective bargaining agreements have various expiration dates. The Company maintains constructive relationships with its unions and strives to achieve mutually beneficial relationships while maintaining cost competitiveness.

2.17 Foreign Exchange

Our operations are global with approximately 90% of our revenue generated from worldwide exports and international activities generally denominated in foreign currencies, mainly the U.S. dollar, the Euro and the British pound. Our revenue is generated approximately one-third in each of the U.S, Europe and the rest of the world. Section 4.3.1-Foreign Exchange of this AIF contains more information regarding Foreign Exchange as a risk factor for CAE.
3. DESCRIPTION OF THE BUSINESS SEGMENTS

3.1 Civil Aviation Training Solutions

*We provide comprehensive training solutions for flight, cabin, maintenance and ground personnel in commercial, business and helicopter aviation, a complete range of flight simulation training devices, as well as ab initio pilot training and crew sourcing services.*

We have the unique capability and global scale to address the total lifecycle needs of the professional pilot, from cadet to captain, with our comprehensive aviation training solutions. We are the world’s largest provider of civil aviation training services. Our deep industry experience and thought leadership, large installed base, strong relationships and reputation as a trusted partner, enable us to access a broader share of the market than any other company in our industry. We provide aviation training services in more than 35 countries and through our broad global network of more than 50 training centres, we serve all sectors of civil aviation including airlines and other commercial, business and helicopter aviation operators.

Among our thousands of customers, we have long-term training centre operations and training services agreements and joint ventures with approximately 40 major airlines and aircraft operators around the world. Our range of training solutions includes products and services offerings for pilot, cabin crew and aircraft maintenance technician training, training centre operations, curriculum development, courseware solutions and consulting services. We currently operate 286 FFSs, including those operating in our joint ventures. We offer industry-leading technology, and we are shaping the future of training through innovations such as our next generation training systems, including CAE Real-time Insights and Standardized Evaluations (CAE Rise™), which improves training quality, objectivity and efficiency through the integration of untapped flight and simulator data-driven insights into training. In the formation of new pilots, CAE operates the largest ab initio flight training network in the world. In resource management, CAE is the global market leader in the provision of flight crew and technical personnel to airlines, aircraft leasing companies, manufacturers and MRO companies worldwide.

Quality, fidelity, reliability and innovation are hallmarks of the CAE brand in flight simulation and we are the world leader in the development of civil flight simulators. We continuously innovate our processes and lead the market in the design, manufacture and integration of civil FFSs for major and regional commercial airlines, business aircraft operators, third-party training centres and OEMs. We have established a wealth of experience in developing first-to-market simulators for more than 35 types of aircraft models. Our flight simulation equipment, including FFSs, are designed to meet the rigorous demands of their long and active service lives, often spanning several decades of continuous use. Our global reach enables us to provide best-in-class support services such as real-time, remote monitoring and also enables us to leverage our extensive worldwide network of spare parts and service teams.

**Fiscal 2019 Orders**

In fiscal 2019, the total order intake of Civil Aviation Training Solutions was $2,769.9 million, with 78 FFSs sold to customers in all regions.

Notable FFS contract awards for the year included sales to JetBlue Airways, Air Baltic, Shanghai Eastern Flight Training Company, Qatar Airways, Turkish Airlines, Southwest Airlines, Nippon Cargo Airlines, Aeromexico, and Lufthansa
Aviation Training.

Notable contract awards for fiscal 2019 included:
- An exclusive 15-year pilot training contract with Avianca;
- A 10-year pilot training contract with easyJet;
- An exclusive 8-year pilot training contract with CityJet;
- An exclusive long-term pilot training contract with Endeavor;
- A new 5-year MPL cadet training program with Air Asia;
- An exclusive 5-year long-term training contract with Volaris;
- A new 5-year CAE Rise™ pilot training contract with AirAsia X.

New Programs and Products

- We launched, together with Aeromexico Formacion, the first-of-its-kind new cadet pilot creation program in Mexico;
- We announced, together with the Abu Dhabi Aviation Training Centre, the capability to conduct FAA-approved training, testing and certification for type-ratings on a new Embraer ERJ 145 FFS platform;
- We launched a cadet pilot training program in partnership with Vueling;
- We announced the creation of the CAE Women in Flight scholarship program in collaboration with leading global airlines including Aeromexico, AirAsia, CityJet, easyJet and American Airlines;
- We announced the qualification of the first FAA-approved Airbus A330 FFS for Extended Envelope and Adverse Weather Training. With these latest qualifications, flight crews will be able to train for full stalls, UPRT, icing conditions, gusting crosswind landings and bounced landing on CAE’s 7000XR Series Airbus A330.

Expansions

- We concluded the establishment of the new joint venture, Singapore CAE Flight Training Pte. Ltd., with Singapore Airlines which began operations in the second quarter of fiscal 2019;
- We announced the expansion of our training capacity in Europe with the inauguration of a Boeing 787 FFS and a new Airbus A350 FFS in Madrid, Spain and the launch of a new Bombardier Global 5000/6000 FFS in Burgess Hill, UK;
- We announced, together with Japan Airlines, the expansion of our training capacity in Asia with the inauguration of a new Airbus A320 FFS at the JAL CAE Flight Training Centre joint venture in Tokyo, Japan;
- We announced the expansion of our training capacity in the Americas including new state-of-the-art A320 NEO FFSs in Montreal, Canada, Toluca, Mexico, Santiago, Chile, and Bogota, Colombia, an E170 FFS in Phoenix, U.S., and a B787 FFS in Bogota, Colombia.

Acquisitions

- On January 30, 2019, we acquired Avianca’s 50% participation in the recently formed training joint venture, including Avianca’s training assets, as part of an exclusive 15-year training outsourcing agreement;
- On March 7, 2019, we acquired the shares of Logitude Oy, a designer and developer of software solutions related to flight and cabin crew training management and training records management, including evidence-based training programs;
- On March 13, 2019 we acquired Bombardier's Business Aircraft Training Business to expand our position in business aviation training;
- On March 27, 2019, we acquired the remaining 50% equity interest in the CAE Flight Training (India) Private Limited joint venture and an additional 25% equity interest in the CAE Simulation Training Private Limited Indian joint venture.

3.2 Civil Market Trends and Outlook

Market Trends and Outlook

Demand for training solutions in the civil aviation market is driven by the following:
- Pilot training and certification regulations;
- Safety and efficiency imperatives of commercial airlines and business aircraft operators;
- Expected long-term global growth in air travel;
- Growing active fleet of commercial and business aircraft;
- Demand for trained aviation professionals.

Pilot Training and Certification Regulations

Civil aviation training is a largely recurring business driven by a highly-regulated environment through global and domestic standards for pilot licensing and certification, amongst other regulatory requirements. These recurring training requirements are mandatory and are regulated by national and international aviation regulatory authorities such as the International Civil Aviation Organization, European Aviation Safety Agency (EASA), and the FAA.

In recent years, pilot certification processes and regulatory requirements have become increasingly stringent. Simulation-based pilot certification training is taking on a greater role internationally with the Multi-Crew Pilot License (MPL), with the Airline Transport Pilot certification requirements in the U.S. and with Upset Prevention and Recovery Training (UPRT) requirements mandated by both EASA and the FAA.

Safety and Efficiency Imperatives of Commercial Airline and Business Aircraft Operators

The commercial airline industry is competitive, requiring operators to continuously pursue operational excellence and efficiency initiatives to achieve satisfactory returns while continuing to maintain the highest safety standards and the confidence of air travelers. Airlines are finding it increasingly more effective to seek expertise in training from trusted partners such as CAE to address growing efficiency gaps, pilot capability gaps, evolving regulatory and training environments, and on-going aircraft programs. Partnering with a training provider like CAE gives airlines immediate access to a world-wide fleet of simulators, courses, programs and instruction capabilities, and allows them flexibility in pursuing aircraft fleet options that suit their business.
Our newest innovation in pilot training systems, CAE Rise™, is well positioned to elevate the pilot training experience. Backed by industry-leading technology, this system enables instructors to deliver training in accordance with airlines’ Standard Operating Procedures and enables instructors to objectively assess pilot competencies using live data during training sessions. Furthermore, CAE Rise™ augments instructors’ capability to identify pilot proficiency gaps and evolve airline training programs to the most advanced aviation safety standards, including Advanced Qualification Program and Evidence Based Training methodologies.

**Expected Long-Term Global Growth in Air Travel**

The secular growth in air travel is resulting in higher demand for flight, cabin, maintenance and ground personnel, which in turn drives demand for training solutions.

In commercial aviation, the aerospace industry’s widely held expectation is that long-term average growth for air travel will continue at 3.6% annually over the next decade. For calendar 2018, passenger traffic increased by 6.5% compared to calendar 2017. For the first three months of calendar 2019, passenger traffic increased by 4.8% compared to the first three months of calendar 2018. Passenger traffic in Europe grew by 6.4%, while Asia Pacific, Latin America and North America increased by 5.4%, 5.3% and 4.7% respectively.

In business aviation, training demand is closely aligned to business jet travel and supporting the in-service fleet. According to the FAA, the total number of business jet flights, which includes all domestic and international flights, was up moderately with 0.3% growth over the past 12 months. Similarly, according to Eurocontrol, the European Organisation for the Safety of Air Navigation, the total number of business aviation flights in Europe remained stable.

In helicopter aviation, demand is driven mainly by the level of offshore activity in the oil and gas sector, as helicopter operators catering to this sector make up the majority of a relatively small training segment.

**Growing Active Fleet of Commercial and Business Aircraft**

As an integrated training solutions provider, our long-term growth is closely tied to the active commercial and business aircraft fleet.

The global active commercial aircraft fleet is widely expected to continue to grow at an approximate average rate of 3.5% annually over the next two decades because of increasing emerging markets, low-cost carrier demand and fleet replacement in established markets. From March 2018 to March 2019, the global commercial aircraft fleet increased by 4.9%, growing by 7.7% in Asia Pacific, 4.5% in Europe, the Middle East and Africa (EMEA) and 3.1% in the Americas.

Major business jet OEMs continue to introduce new aircraft models. Bombardier recently started delivery of the Global 7500, and will begin deliveries of the Global 5500 and Global 6500 by the end of 2019. Other OEMs are continuing with plans to introduce a variety of new aircraft models in the upcoming years including Cessna’s Citation Longitude, Dassault’s Falcon 6X and Gulfstream’s 600.
Our business aviation training network, comprehensive suite of training programs, key long-term OEM partnerships and ongoing network investments, position us well to effectively address the training demand arising from the entry-into-service of these new aircraft programs.

Our strong competitive moat in the aviation market, as defined by our extensive global training network, best-in-class instructors, comprehensive training programs and strength in training partnerships with airlines and business aircraft operators, allows us to effectively address training needs that arise from a growing active fleet of aircraft.

We are well positioned to leverage our technology leadership and expertise, including CAE 7000XR Series FFSs, CAE 400XR, 500XR, 550XR and 600XR Series Flight Training Devices (FTD) and CAE Simfinity™ ground school solutions, in delivering training equipment solutions that address the growing training needs of airlines, business jet operators, and helicopter operators.

**Demand for Trained Aviation Professionals**

We have large headroom in the training services market driven by a sustained secular demand for trained aviation professionals. Demand for trained aviation professionals is driven by air traffic growth, pilot retirements and by the number of aircraft deliveries. The expansion of global economies and airline fleets have resulted in a shortage of qualified personnel needed to fulfill this growing capacity.

Last October, we released our 2018 Airline and Business Jet Pilot Demand Outlook, an update to our previous year’s report, which now also provides a business jet pilot demand forecast. The update to the pilot demand outlook identifies a global requirement for 270,000 new pilots over the next 10 years to sustain and grow the commercial air transport industry. The report also identifies a global requirement for 50,000 new business jet pilots by 2028. Of this amount, 10,000 new business jet pilots will be required to sustain growth and 40,000 new business jet pilots will be needed to support retirements. These figures mean that over 50% of the pilots who will fly the world’s commercial and business aircraft in 10 years have not yet started to train. To support this growth in demand, the aviation industry will require innovative solutions to match the learning requirements of a new generation of trained aviation professionals, leading to an increase in demand for simulation-based training services and products.

### 3.3 Defence and Security

*We are a training systems integrator for defence forces across the air, land and naval domains, and for government organizations responsible for public safety.*

We are a global leader in the development and delivery of integrated live, virtual and constructive (iLVC) training solutions for defence forces. Most militaries use a combination of live training on actual platforms, virtual training in simulators, and constructive training using computer-generated simulations. We are skilled and experienced as a training systems integrator capable of helping defence forces achieve an optimal balance of iLVC training to achieve mission readiness. Our expertise in training spans a broad variety of aircraft, including fighters, helicopters, trainer aircraft, maritime patrol, tanker/transport aircraft and remotely piloted aircraft, also called unmanned aerial systems. Increasingly, we are leveraging our training systems integration capabilities in the naval domain to provide naval training solutions, as evidenced by the program to provide the United Arab Emirates Navy with a comprehensive Naval Training
Centre. We offer training solutions for land forces, including a range of driver, gunnery and maintenance trainers for tanks and armoured fighting vehicles as well as constructive simulation for command and staff training. We also offer training solutions to government organizations for emergency and disaster management. In fiscal 2019, we acquired and integrated Alpha-Omega Change Engineering Inc. (AOCE) with CAE USA Mission Solutions Inc., a subsidiary of CAE USA Inc. eligible to pursue and execute higher-level security programs.

Defence forces seek to increasingly leverage virtual training and balance their training approach between live, virtual and constructive domains to achieve maximum readiness and efficiency. We pursue programs requiring the integration of live, virtual and constructive training which tend to be larger in size than programs involving only one of the three training domains. We are a first-tier training systems integrator and uniquely positioned to offer our customers a comprehensive range of innovative iLVC solutions, ranging from academic, virtual and live training to immersive, networked mission rehearsal in an integrated live and synthetic environment. Our solutions typically include a combination of training services, products and software tools designed to cost-effectively maintain and enhance safety, efficiency, mission readiness and decision-making capabilities. We have a wealth of experience delivering and operating outsourced training solutions with facilities that are government-owned government-operated; government-owned contractor-operated; or contractor-owned contractor-operated. We offer training needs analysis, training media analysis, courseware, instructional systems design, facilities, tactical control centres, synthetic environments, virtual training devices, live assets, digital media classrooms, distributed training, scenario development, instructors, training centre operations, and a continuous training improvement process leveraging big data analytics.

We have delivered simulation products and training services to approximately 50 defence forces in over 40 countries. We provide training support services such as contractor logistics support, maintenance services, classroom instruction and simulator training at over 100 sites around the world, including our joint venture operations. We also support live flying training, such as the live training delivered as part of the North Atlantic Treaty Organization (NATO) Flying Training in Canada and the U.S. Army Fixed-Wing Flight Training programs, as we help our customers achieve an optimal balance across their training enterprise.

**Fiscal 2019 Orders**

In Fiscal 2019, Defence and Security was awarded a total of $1,079.9 million in orders, including notable contract awards from:

- Undisclosed U.S. government customers to provide training and services on higher-level security programs through CAE USA Mission Solutions Inc., which includes the newly acquired AOCE;
- The USAF to continue providing KC-135 aircrew training services as well as perform a range of simulator upgrades and modifications on KC-135 training devices;
- The New Zealand Defence Force to provide the Royal New Zealand Air Force with a CAE 700MR Series NH90 FTD as well as long-term maintenance and support services;
- The U.S. Navy to provide classroom and simulator instructors at five Naval Air Stations to support primary, intermediate and advanced pilot training;
- The USAF to provide comprehensive C-130H aircrew training services;
- The U.S. Navy under a foreign military sale program to perform a range of upgrades, updates and services on the Royal Australian Navy’s MH-60R training systems;
- The Eurofighter industry consortium to upgrade Eurofighter integration devices and to provide updates on German Eurofighter simulators;
- Lockheed Martin to support upgrades/updates to C-130J full-mission simulators for the USAF;
- Boeing to provide an additional P-8 simulator for the Royal Air Force;
- General Atomics Aeronautical Systems to develop a comprehensive synthetic training system for the United Kingdom’s Protector remotely piloted aircraft program.

New Programs and Products

- We formed SkyAlyne Canada Inc., a joint venture with KF Aerospace, that will focus on developing world-class military pilot and aircrew training in Canada;
- We launched the CAE 700MR Series FTD, a next-generation FTD designed specifically for military helicopter flight and mission training;
- We signed an agreement to support the H-47 Chinook helicopter being offered for the German Air Force’s Schwerer Transporthubschrauber heavy-lift helicopter competition;
- We launched the CAE Medallion MR e-Series Visual System, a fully-integrated visual solution designed specifically for military fighter and fast-jet training;
- We introduced CAE Rise™ to the defence market as a data-driven training system designed to enable defence and security organizations to deliver standardized training and give instructors a new approach to objectively assess pilot competencies using live data during training sessions.

Acquisitions

- On July 31, 2018, we acquired the shares of AOCE, a provider of aircrew training services, operational test and evaluation, and engineering support services to the U.S. Department of Defense and U.S. intelligence service.

3.4 Defence Market Trends and Outlook
Demand for training solutions in the defence and security markets is driven by the following:
- Growing defence budgets;
- Installed base of enduring defence platforms and new customers;
- Attractiveness of outsourcing training and maintenance services;
- Pilot and aircrew recruitment, training and retention challenges faced by militaries globally;
- Desire to integrate training systems to achieve efficiencies and enhanced preparedness;
- Need for synthetic training to conduct integrated, networked mission training, including joint and coalition forces training;
- Explicit desire of governments and defence forces to increase the use of synthetic training;
- Relationships with OEMs for simulation and training.

Growing Defence Budgets
In August 2018, the U.S. Congress approved the fiscal 2019 National Defense Authorization Act (NDAA) that was signed into law. The NDAA authorized a U.S. Department of Defense budget for fiscal 2019 of US$717 billion and the U.S. budget request for fiscal 2020 continues the growth in spending on U.S. national security. In addition, the majority
of the 29 members of NATO have now put plans in place to increase defence spending to two percent of their Gross Domestic Product. Canada expects to grow annual defence spending from approximately $19 billion to $33 billion by 2027. NATO and allied nations continue to confront the immediate challenges posed by the war on terrorism and have been increasingly renewing and augmenting their strategic defences in view of emerging and resurgent geopolitical threats. Growing defence budgets in the U.S. and much of NATO, as well as other regions such as Asia and the Middle East, will create increased opportunities throughout the defence establishment. Training is fundamental for defence forces to achieve and maintain mission readiness and growth in defence spending is expected to result in corresponding opportunities for training systems and solutions.

**Installed Base of Enduring Defence Platforms and New Customers**

CAE generates a high degree of recurring business from its strong position on enduring platforms, including long-term services contracts. Most defence forces in mature markets are required to maximize use of their existing platforms. Upgrades, updates, and life extension programs allow defence forces to leverage existing assets while creating a range of opportunities for simulator upgrades and training support services. Given our extensive installed base of simulators worldwide, our prime contractor position on programs such as the U.S. Air Force (USAF) KC-135 Aircrrew Training System and C-130H Aircrew Training System, and our experience on key enduring platforms, we are well-positioned for recurring product upgrades or updates as well as maintenance and support services. In addition, there is strong demand for enduring platforms such as the C-130, P-8, C295, MH-60R, NH90 and MQ-9 in global defence markets, thus creating opportunities to provide new training systems and services for platforms where CAE has significant experience.

**Attractiveness of Outsourcing Training and Maintenance Services**

Another driver for CAE’s expertise and capabilities is the efficiency gained by our customers from outsourcing training and support services. Defence forces and governments continue to find ways to reduce costs and increase readiness, while allowing active-duty personnel to focus on operational requirements. There has been a growing trend among defence forces to consider outsourcing a variety of training services and we expect this trend to continue, which aligns directly with our strategy to grow long-term, recurring services business. We believe governments will increasingly look to industry for training solutions to achieve faster delivery, lower capital investment requirements, and for training support required to meet the demand for producing aircrews and achieve desired readiness levels. For example, we are delivering fixed-wing flight training to the U.S. Army at the CAE Dothan Training Center in Dothan, Alabama. At this training centre, we offer comprehensive classroom, simulator and live-flying training and we believe this type of training service delivery program will become increasingly attractive to defence forces globally.

**Pilot and Aircrew Recruitment, Training and Retention Challenges Faced by Militaries Globally**

The expansion of global economies and airline fleets have resulted in a shortage of qualified personnel needed to fulfill this growing demand, as expressed in CAE’s Airline and Business Jet Pilot Demand Outlook. This demand from the civil and business aviation sector has a direct impact on the recruitment, training and retention of military pilots. The USAF alone estimates it has a shortfall of approximately 2,000 pilots, which represents 10% of the entire force. The
Challenge has led to militaries looking at numerous initiatives designed to address the pilot shortage, including in training. Militaries are considering further outsourcing as well as adopting new technologies that help make pilot training more streamlined and efficient. The military pilot and aircrew shortage and related training challenges will create opportunities for CAE’s products, services and solutions.

Desire to Integrate Training Systems to Achieve Efficiencies and Enhanced Preparedness

Increased operational tempo combined with limited personnel and budget pressures have prompted defence forces around the world to seek reliable partners who can help develop, manage and deliver the training systems required to support today’s complex platforms and operations. Increasingly, defence forces are considering a more integrated and holistic approach to training. To help manage the complexities and challenges, many training programs are calling for industry partners to help design and manage a total training system. Our approach has positioned us globally as a platform-independent training systems integrator. The overall intent for defence forces is to maximize commonality for increased efficiencies, cost savings, and most importantly, enhanced capability for mission preparedness. As a training systems integrator, we address the overall iLVC domain to deliver comprehensive training, from undergraduate individual training all the way through to operational, multi-service and joint mission training.

Need for Synthetic Training to Conduct Integrated, Networked Mission Training, Including Joint and Coalition Forces Training

There is a growing trend among defence forces to use synthetic training to meet more of their mission training requirements, and to integrate and network various training systems so military forces can train in a virtual world. Simulation-based technology solutions enable defence customers to plan sophisticated missions and carry out full-mission rehearsals in a synthetic environment as a complement to traditional live training for mission preparation. Allies are cooperating and creating joint and coalition forces, which are driving the demand for networked training and operations. Training devices that can be networked to train different crews and allow for networked training across a range of platforms are increasingly important as the desire to conduct mission rehearsal exercises in a synthetic environment increases. For example, the U.S., U.K., Australia and Canada and others all have plans and strategies to leverage iLVC domains within a networked common synthetic environment. We are strong proponents of open, standard simulation architectures, such as the Open Geospatial Consortium Common Database, to better enable integrated and networked mission training. In May 2018, we were contracted by a Gulf Cooperation Council country to develop a Joint Multinational Simulation Centre that will be used by commanders and operators from the Army, Air Force, Navy and Staff Colleges to conduct military training across all level of operations.

Explicit Desire of Governments and Defence Forces to Increase the Use of Synthetic Training

One of the underlying drivers for our expertise and capabilities is the increasing use of synthetic training throughout the defence community. More defence forces and governments are increasingly adopting synthetic training for a greater percentage of their overall approach because it improves training effectiveness, reduces operational demands on aircraft, lowers risk compared to operating actual platforms and significantly lowers costs. Synthetic training offers defence forces a cost-effective way to provide realistic training for a wide variety of scenarios while ensuring they maintain a high state of readiness. The higher cost of live training, the desire to save aircraft for operational use, and
the advanced simulation technologies delivering more realism are several factors prompting a greater adoption of synthetic training. The nature of mission-focused training demands at least some live training; however, the shift to more synthetic training is advancing. In fiscal 2019, we introduced new products that support the ability for defence forces to increase their use of synthetic training. The CAE 700MR flight training device provides a realistic and immersive helicopter mission training environment and is being acquired by the New Zealand Defence Force as part of a comprehensive NH90 training solution. The CAE Medallion MR e-Series visual system offers a fully-integrated solution for fighter and fast-jet training.

**Relationships with OEMs for Simulation and Training**

We are an important partner to OEMs because of our experience, global presence, and innovative technologies. We partner with manufacturers in the defence and security market to strengthen relationships and position for future opportunities. OEMs have introduced new platforms and continue to upgrade and extend the life of existing platforms, which drives worldwide demand for training systems. For example, Boeing has developed the P-8 maritime patrol aircraft and has subcontracted CAE to design and develop P-8 operational flight trainers for the U.S. Navy and other international customers. Boeing continues to market the P-8 internationally, which will create further opportunities for us. Other examples of our relationships with OEMs on specific platforms creating opportunities for training systems include Airbus Defence & Space on the C295, which was selected by the Canadian government for the Fixed-Wing Search and Rescue program; Leonardo on the M-346 lead-in fighter trainer; Lockheed Martin on the C-130J Super Hercules transport aircraft, which is being acquired by several branches of the USAF as well international militaries; and General Atomics on the Predator family of remotely piloted aircraft. We are also part of Team Seahawk in partnership with the U.S. Navy and companies such as Lockheed Martin/Sikorsky which is offering the MH-60R helicopter under the foreign military sales program to international customers.

### 3.5 Defence Contracts

The majority of CAE’s contract revenue in Defence result from contracts with militaries or government bodies performed under predominantly fixed-price contracts with only a small number of cost-plus contracts.

In most instances, under government regulations, certain costs, including certain financial costs, portions of R&D costs, representation expenses, certain types of legal expenses and certain marketing expenses related to the preparation of bids and proposals are not allowed for pricing purposes and calculation of contract reimbursement rates under flexibly-priced contracts. Governments also routinely regulate the methods under which costs are allocated to government contracts.

CAE is subject to a variety of audits performed by government agencies. These include pre-award audits that are performed at the submission of a proposal to the government. The purpose of the pre-award audit is to determine the basis of the bid and provide the information required for the relevant government to effectively negotiate the contract. During the performance of a contract the government has the right to request and to examine any labor charges, any material purchase, and any overhead changes to any contract that is active. Upon a contract's completion, the government may perform a post-award audit of all aspects of contract performance to ensure that CAE has performed in accordance with the terms of the contract.
Government contracts are generally, by their terms, subject to termination by the government either for convenience or default by the contractor. Fixed-price contracts provide for payment upon termination for items delivered to and accepted by the government and, if the termination is for convenience, for payment of fair compensation of work performed plus the costs of settling and paying claims by terminated subcontractors, other settlement expenses and a reasonable profit on the costs incurred. Cost-plus contracts generally provide that, upon termination, the contractor is entitled to reimbursement of its allowable costs and, if the termination is for convenience, a total fee proportionate to the percentage of the work completed under the contract. If a contract termination is for default, however, typically:

- The contractor may be paid an amount agreed upon for completed and partially completed products and services accepted by the government;
- The government may not be liable for the contractor’s costs with respect to unacceptable items, and may be entitled to repayment of advance payments and progress payments, if any, related to the termination portion of the contract; and
- The contractor may be liable for excess costs incurred by the government in procuring undelivered items from another source.

In addition to the right of the government to terminate, government contracts are occasionally conditioned upon the continuing availability of appropriations. Consequently, at the outset of a major program, such contracts are usually partially funded and additional monies are normally committed to the contract by the procuring agency only as appropriations are made for future fiscal years. Failure to obtain such appropriations normally results in termination of the contract and compensation to the contractor at less than the full value of the contract.

### 3.6 Healthcare

*We design and manufacture simulators, audiovisual and simulation centre management solutions, develop courseware and offer training solutions to medical, nursing and allied healthcare institutions as well as healthcare systems worldwide.*

Simulation-based training is one of the most effective ways to prepare healthcare practitioners to care for patients and respond to critical situations while reducing medical errors. We are leveraging our experience and best practices in simulation-based aviation training to deliver innovative solutions to improve the safety and efficiency in the delivery of patient care. The healthcare simulation market is expanding, with a shift in the U.S. from fee-for-service to value-based care in hospitals, and with simulation centres becoming increasingly more prevalent in nursing and medical schools.

We offer the broadest and most innovative portfolio of medical simulation products and services, including patient, ultrasound and interventional (surgical) simulators, audiovisual and simulation centre management solutions, and courseware for simulation-based healthcare education and training. We have sold simulators to customers in approximately 80 countries that are currently supported by our global network. We are a leader in patient simulators which are based on advanced models of human physiology that realistically mimic human responses to clinical interventions. For example, our high-fidelity childbirth simulator, Lucina, was designed to offer exceptional realism for simulated scenarios of both normal deliveries and rare maternal emergencies. In the last two years, we have invested in the development of new mid-fidelity products to address growing demand in the healthcare simulation market. Since then, we have launched the CAE Juno clinical skills manikin which enables nursing programs to adapt to the decreased access to live patients due to the complex conditions of hospital patients and the liability concerns in healthcare, the CAE Ares emergency care manikin which was designed for advanced life support and American Heart Association
(AHA) training and the CAE Luna neonatal simulator which is an innovative critical care simulation for newborns and infants. With these solutions, we are providing some of the industry’s most innovative learning tools to healthcare academic institutes, which represent the largest segment of the healthcare simulation market. We continue to push the boundaries of technology and we were the first to bring a commercial Microsoft HoloLens mixed reality application to the medical simulation market. We continue to integrate augmented and virtual reality into our advanced software platforms to deliver custom training solutions and ground-breaking products.

Through our Healthcare Academy, we deliver peer-to-peer training at customer sites as well as in our training centres in Canada, Germany, the U.K. and U.S. Our Healthcare Academy includes more than 50 adjunct faculties consisting of nurses, physicians, paramedics and sonographers who, in collaboration with leading healthcare institutions, have developed more than 500 Simulated Clinical Experience courseware packages for our customers.

We offer turnkey solutions, project management and professional services for healthcare simulation programs. We also collaborate with medical device companies and scientific societies to develop innovative and custom training solutions. Since September 2017, in collaboration with the American Society of Anesthesiologists (ASA), we have released the first three modules for Anesthesia SimSTAT, a virtual healthcare training environment for practicing physicians. This new platform provides continuing medical education for Maintenance of Certification in Anesthesiology (MOCA) and has allowed us to expand access to simulation-based clinical training among the anesthesia community. Furthermore, through industry partnerships with medical device companies, we have developed a specialized interventional simulator to train physicians to implant a new generation of pacemakers as well as a modular, portable catheterization laboratory interventional simulator, CAE CathLabVR, which was introduced to the cardiac simulation community in September 2018. In January 2018, we announced that in collaboration with the AHA, we will establish a network of International Training Sites to deliver lifesaving AHA courses in countries that are currently underserved.

**Fiscal 2019 Orders**

CAE Healthcare sales this fiscal year were driven by direct sales of patient and ultrasound simulators in North America and international sales through distributors.

**New Programs and Products**

- We launched the CAE Ares emergency care manikin designed to meet and exceed the life support training requirements of emergency care providers worldwide;
- We, together with ASA, launched the Anesthesia SimSTAT - Appendectomy and Robotic Surgery modules, new modules in a series of interactive screen-based anesthesia simulation modules, which has been approved by the American Board of Anesthesiology for MOCA credits;
- We launched a new modular and portable CAE CathLabVR interventional simulator for endovascular diagnostic and procedures for physician and resident training;
- We released CAE Vimedix 2.0 for ultrasound simulation, featuring new educational content and compatibility with new augmented reality add-on modules;
- We announced the release of CAE Luna, an innovative infant simulator designed to fulfill clinical training requirements for neonatal and infant care;
- We enhanced our CAE Maestro patient simulator operating system with the global iRIS collaborative scenario development platform allowing educators to create and export simulation scenarios aligned with professional guidelines and best practices.

Expansions

- We signed an agreement with McGill University and DePuy Synthes Products, a division of Johnson & Johnson, to develop a new virtual reality platform to train orthopedic and neurosurgeons in advanced spinal surgery techniques;
- We expanded our distributor contract with WorldPoint to sell CAE Ares manikins to simulation centres, which now gives us access to sell our entire mid-fidelity product line to WorldPoint's unique network of customers.

Innovation Awards

- Recognized for driving innovation that prepares society for the future, Anesthesia SimSTAT was awarded the Power of A Silver Award by the American Society of Association Executives.

3.7 Healthcare Market Trends and Outlook

Demand for our simulation products and services in the healthcare market is driven by the following:

- Limited access to live patients during training;
- Medical and mixed reality technology revolution;
- Broader adoption of simulation, with a demand for innovative and custom training approaches;
- Growing emphasis on patient safety and outcomes.

Limited Access to Live Patients During Training

Traditionally, medical education has been an apprenticeship model in which students care for patients under the supervision of more experienced staff. In this model, students have limited access to high-risk procedures, rare complications and critical decision-making skills. The use of simulation in professional training programs complements traditional learning and allows students to hone their clinical and critical thinking skills for high risk, low frequency events. In 2014, the U.S. National Council of State Boards of Nursing (NCSBN) released a ground-breaking study on the effectiveness of simulation training in pre-licensure nursing programs and published national simulation guidelines that are still in use today. Among the findings, nursing students who spent up to 50 percent of clinical hours in high-quality simulation were as well-prepared for professional practice as those whose experiences were drawn from traditional clinical practice. In the U.K., the Nursing and Midwifery Council announced in April 2018 that it has lifted the cap on the number of hours nursing students can spend in simulation-based training in place of clinical hours.

Simulation provides consistent, repeatable training and exposure to a broader range of patients and scenarios than one may experience in normal clinical practice. As an example, our Vimedix ultrasound simulator offers more than 200 patient pathologies for cardiac, emergency and obstetrics and gynaecology medicine. The training and education model is evolving, as evidenced by 22 NATO countries prohibiting the use of live animals in military medical training. CAE
Healthcare simulators provide a low-risk alternative for practicing life-saving procedures, inter-professional team training and major disaster response.

**Medical and Mixed Reality Technology Revolution**

Advancements in medical technology are driving the use of simulation. New medical devices and advanced procedures, such as intra-cardiac echocardiography, cardiac assist devices, and mechanical ventilation enhancements, require advanced training solutions, such as simulation, for internal product development and customer training. Regulatory and certification agencies are increasingly stringent in requesting that clinicians be trained before adopting new disruptive technologies, an undertaking for which simulation is well suited. As a training partner of choice with leading OEMs, we continue to collaborate to deliver innovative and custom training for the introduction of new interventional procedures. We were the first to bring a commercial Microsoft HoloLens mixed reality application to the medical simulation market with the release of the CAE VimedixAR ultrasound simulator. In January 2018, we launched a new mixed reality application, LucinaAR, the world's first childbirth simulator that integrates modeled physiology and augmented reality.

**Broader Adoption of Simulation, with a Demand for Innovative and Custom Training Approaches**

The majority of product and service sales in healthcare simulation involve healthcare education. We estimate the total healthcare simulation market at approximately US$1.1 billion. North America is the largest market for healthcare simulation, followed by Europe and Asia. Together with our global distribution network, we are reaching new and emerging markets and addressing the international demand potential for simulation-based training. CAE segments the healthcare simulation market by virtual, augmented and mixed reality simulators, high-fidelity patient simulators, interventional simulators, mid/low fidelity task trainers, ultrasound simulators, audiovisual and simulation centre management solutions, simulated clinical environments and training services. There is a growing body of evidence demonstrating that medical simulation improves clinical competency, patient outcomes and reduces medical errors, which can help mitigate the rate of increase in healthcare costs.

**Growing Emphasis on Patient Safety and Outcomes**

CAE expects increased adoption of simulation-based training and certification of healthcare professionals as a means to improve patient safety and outcomes. We believe this would result in a significantly larger addressable market than the current market which is primarily education-based. According to a study by patient-safety researchers published in the British Medical Journal in May 2016, medical errors are the third-leading cause of death in U.S. hospitals and the World Health Organization reported in 2018 that there is a 1 in 300 chance of being harmed during health care. Training using simulation can help clinicians gain confidence, knowledge and expertise for improving patient safety in a risk-free environment. As the Medicare and Medicaid reimbursement structure in U.S. hospitals shifts from being based solely on quantity of services to the quality of services (value-based care), including safety and patient outcomes, CAE expects more hospitals to implement simulation-based training to improve performance and reduce the risk of medical errors.
Simulation is a required or recommended element in a growing movement towards High Stakes Assessment and Certification. Examples in the U.S. include MOCA, Fundamentals of Laparoscopic Surgery and Advanced Trauma Life Support. Moreover, the Accreditation Council for Graduate Medical Education is evolving towards outcome-based assessment with specific benchmarks to measure and compare performance which favours the adoption of simulation products and training.

4. **RISK FACTORS**

We operate in several industry segments that have various risks and uncertainties. Management and the Board of Directors (the Board) discuss quarterly the principal risks facing our business, as well as annually during the strategic planning and budgeting processes. The risks and uncertainties described below are risks that could materially affect our business, financial condition and results of operation. These risks are categorized as industry-related risks, risks specific to CAE and risks related to the current market environment. These are not necessarily the only risks we face; additional risks and uncertainties that are presently unknown to us or that we may currently deem immaterial may adversely affect our business.

To mitigate the risks that may impact our future performance, management has established an enterprise risk management process to identify, assess and prioritize these risks. Management develops and deploys risk mitigation strategies that align with our strategic objectives and business processes. Management reviews the evolution of the principal risks facing our business on a regular basis and the Board oversees the risk management process and validates it through procedures performed by our internal auditors when it deems necessary. One should carefully consider the following risk factors, in addition to the other information contained herein, before deciding to purchase CAE securities.

4.1 **Risks Relating to the Industry**

4.1.1 *Competition*

We sell our simulation products and training services in highly competitive international markets. New participants have emerged in recent years and the competitive environment is intense, with aerospace and defence companies positioning themselves to try to take greater market share by consolidating through mergers and acquisitions and vertical integration strategies and by developing their own internal capabilities. Most of our competitors in the simulation and training markets are also involved in other major segments of the aerospace and defence industry beyond simulation and training. As such, some of them are larger than we are, and may have greater financial, technical, marketing, manufacturing and distribution resources and market share which could adversely affect CAE’s ability to compete successfully. In addition, our main competitors are either aircraft manufacturers, or have well-established relationships with aircraft manufacturers, airlines and governments, which may give them an advantage when competing for projects.

OEMs have certain advantages in competing with independent training service providers. An OEM controls the pricing for the data, parts and equipment packages that are often required to manufacture a simulator specific to that OEM’s aircraft, which in turn, is a critical capital cost for any simulation-based training service provider. OEMs may be in a position to demand licence fees or royalties to permit the manufacturing of simulators based on the OEM’s aircraft,
and/or to permit any training on such simulators. We also have some advantages, including being an independent training provider and simulator manufacturer, having the ability to replicate certain aircraft without data, parts and equipment packages from an OEM, our global reach and owning a diversified training network that includes joint ventures with large airline operators which are aircraft customers for OEMs. In addition, we work with some OEMs on business opportunities related to equipment and training services.

We obtain most of our contracts through competitive bidding processes that subject us to the risk of spending a substantial amount of time and effort on proposals for contracts that may not be awarded to us. A significant portion of our revenue is dependent on obtaining new orders and continuously replenishing our backlog. We cannot be certain that we will continue to win contracts through competitive bidding processes at the same rate as we have in the past. The presence of new market participants as noted above, and their efforts to gain market share, creates heightened competition in bidding which may negatively impact pricing and margins. We intend to continue to grow market share by leveraging a high level of customer satisfaction and operational and organizational productivity.

Economic growth underlies the demand for all of our products and services. Periods of economic recession, constrained credit, government austerity and/or international commercial sanctions generally lead to heightened competition for each available order. This in turn, typically leads to a reduction in profit on sales won during such a period. Should such conditions occur, we could experience price and margin erosion.

4.1.2 Level and Timing of Defence Spending

A significant portion of our revenues is generated by sales to defence and security customers around the world. We provide products and services for numerous programs to U.S., Canadian, European, Australian, and other foreign governments as both the prime and/or subcontractor. As defence spending comes from public funds and is always competing with other public interests for funding, there is a risk associated with the level of spending a particular country may devote to defence as well as the timing of defence contract awards, which can be very difficult to predict and may be impacted by numerous factors such as the political environment, foreign policy, macroeconomic conditions and nature of the international threat environment. Significant reductions to defence spending by mature markets such as in the U.S., Canada, Europe and Australia or a significant delay in the timing of defence procurement could have a material negative impact on our future revenue, earnings and operations. In order to mitigate the level and timing of defence procurements, we have established a diversified global business and a strong position on enduring platforms.

4.1.3 Government-Funded Defence and Security Programs

Like most companies that supply products and services to governments, government agencies routinely audit and investigate government contractors. These agencies may review our performance under our contracts, business processes, cost structure, and compliance with applicable laws, regulations and standards. Our incurred costs for each year are subject to audit by government agencies, which can result in payment demands related to costs they believe should be disallowed. We work with governments to assess the merits of claims and where appropriate reserve for amounts disputed. We could be required to provide repayments to governments and may have a negative effect on our results of operations. Contrary to cost-reimbursable contracts, some costs may not be reimbursed or allowed under fixed-price contracts, which may have a negative effect on our results of operations if we experience costs overruns.
4.1.4  Civil Aviation Industry

A significant portion of our revenue comes from supplying equipment and training services to the commercial and business airline industries. The civil aviation market is predominantly driven by long-term trends in airline passenger and cargo traffic. The principal factors underlying long-term traffic growth are sustained economic growth and political stability both in developed and emerging markets.

Demand for training solutions in the civil aviation market is further influenced by airline profitability, availability of aircraft financing, OEMs ability to supply aircraft, world trade policies, technological advances, government-to-government relations, price and other competitive factors, fuel prices and geopolitical environment. Historically, the airline industry has been cyclical and consistently strives for cost competitiveness. The biggest challenge to profitability for airlines are rising costs, including oil prices, jet fuel prices and labor costs. Potential impediments to steady growth in air travel include major disruptions such as regional political instability, acts of terrorism, pandemics, natural disasters, prolonged economic recessions, oil price volatility or other major world events.

Constraints in the credit market may reduce the ability of airlines and others to purchase new aircraft, negatively affecting the demand for our training equipment and services, and the purchase of our products. In addition, airline consolidations, fleet decisions or financial challenges involving any of our major commercial airline customers could impact our revenues and limit our opportunity to generate profits from those customers.

Demand for new pilots is expected to rise over the next two decades as a result of rapid fleet expansion and high pilot retirement rates resulting in rising cost of attracting and retaining pilots for our customers and higher competition in training services.

4.1.5  Regulatory Matters

Our businesses are heavily regulated. We deal with many government agencies and entities, and are subject to laws and regulations such as export controls, national security and aviation authority of each country. These regulations may change without notice, which could impact our sales and operations. Any changes imposed by a regulatory agency, including changes to safety standards imposed by aviation authorities such as the U.S. FAA, could mean that we have to make unplanned modifications to our products and services, causing delays or resulting in cancelled sales.

The sale or licence of many of our products is subject to regulatory approvals and requirements. These can prevent us from selling to certain countries, or to certain entities or people in or from a country, and require us to obtain from one or more governments an export licence or other approvals to sell certain technology such as defence and security simulators or other training equipment, including data or parts.

We cannot predict the impact that changing laws or regulations might have on our operations. Any changes could present opportunities or, to the contrary, have a materially negative effect on our results of operations or financial condition and we cannot be certain that we will be permitted to sell or licence certain products to customers, which could cause a potential loss of revenue for us.
If we fail to comply with government laws and regulations related to export controls and national security requirements, we could be fined and/or suspended or barred from government contracts or subcontracts for a period of time, which would negatively affect our revenue from operations and profitability, and could have a negative effect on our reputation and ability to procure other government contracts in the future.

4.2 Risks Relating to the Company

4.2.1 Evolving Standards and Technologies

The civil aviation and defence and security markets in which we operate are characterized by changes in customer requirements, new aircraft models and evolving industry standards. If we do not accurately predict the needs of our existing and prospective customers or develop product and service enhancements that address evolving standards and technologies, we may lose current customers and be unable to attract new customers. This could reduce our revenue and market share. The evolution of technology could also have a negative impact on the value of our fleet of FFSs or require significant investments to our fleet to update to the evolving technology.

4.2.2 Research and Development Activities

We carry out some of our R&D initiatives with the financial participation of governments, including the Government of Quebec through IQ and the SA²GE program, and the Government of Canada through its SADI and SIF. The level of government financial participation reflects government policy, fiscal policy and other political and economic factors. We may not, in the future, be able to replace these existing programs with programs of comparable benefit to us, which could have a negative impact on our financial performance and research and development activities.

We receive investment tax credits from federal and provincial governments in Canada and from the federal government in the U.S. on eligible R&D activities that we undertake. The credits we receive are based on legislation currently enacted. The investment tax credits available to us can be reduced by changes to the respective governments’ legislation which could have a negative impact on our financial performance and research and development activities.

4.2.3 Fixed-Price and Long-Term Supply Contracts

We provide our products and services mainly through fixed-price contracts that enable us, contrary to cost-reimbursable contracts, to benefit from performance improvements, cost reductions and efficiencies, but also require us to absorb cost overruns reducing profit margins or incurring losses if we are unable to achieve estimated costs and revenues. It can be difficult to estimate all of the costs associated with these contracts or to accurately project the level of sales we may ultimately achieve. In addition, a number of contracts to supply equipment and services to commercial airlines and defence organizations are long-term agreements that can run up to 25 years. While some of these contracts can be adjusted for increases in inflation and costs, the adjustments may not fully offset the increases, which could negatively affect the results of our operations. While we believe we have recorded adequate provisions for risks of losses on fixed-price contracts, it is possible that fixed-price and long-term supply contracts could subject us to additional losses that exceed obligations under the terms of the contracts.
4.2.4  Strategic Partnerships and Long-Term Contracts

We have long-term strategic partnerships and contracts with major airlines, aircraft operators and defence forces around the world, including Authorized Training Provider (ATP) agreements. These long-term contracts are included in our backlog at the awarded amount but could be subject to unexpected adjustments or cancellations and therefore do not represent a guarantee of our future revenues. We cannot be certain that these partnerships and contracts will be renewed on similar terms, or at all, when they expire, and our financial results could be adversely affected by our partners’ performance, contribution and indemnifications. We can make no assurance that customers will fulfill existing purchase commitments, exercise purchase options or purchase additional products or services from CAE.

4.2.5  Procurement and OEM Leverage

We secure data, parts, equipment and many other inputs from a wide variety of OEMs, subcontractors and other sources. We are not always able to find two or more sources for inputs that we require and, in the case of specific aircraft simulators and other training equipment, significant inputs can only be sole-sourced. We may therefore be vulnerable to delivery schedule delays, the financial condition of the sole-source suppliers and their willingness to deal with us. Within their corporate groups, some sole-source suppliers include businesses that compete with parts of our business. This could lead to onerous licencing terms, high licence fees or even refusal to licence to us the data, parts and equipment packages that are often required to manufacture and operate a simulator based on an OEM’s aircraft.

Where we use an internally produced simulation model for an aircraft, or develop courseware without using OEM-sourced and licenced data, parts and equipment, the OEM in question may attempt retaliatory or obstructive actions against us to block the provision of training services or manufacturing, sale and/or deployment for training of a simulator for such aircraft, claiming breach of its intellectual property rights or other legal basis. Such actions may cause us to incur material legal fees and/or may delay or prevent completion of the simulator development project or provision of training services, which may negatively impact our financial results.

Similarly, where we use open source software, freeware or commercial off-the-shelf software from a third party, the third party in question or other persons may attempt retaliatory or obstructive actions against us to block the use of such software or freeware, claiming breach of licence rights or other legal basis. Such actions may cause us to incur material legal fees and/or may delay or prevent completion of the simulator development project or provision of training services, which may negatively impact our financial results.

4.2.6  Product Integration and Program Management

Our business could be negatively affected if our products do not successfully integrate or operate with other sophisticated software, hardware, computing and communications systems that are also continually evolving. If we experience difficulties on a project or do not meet project milestones, we may have to devote more engineering and other resources than originally anticipated which may impact timing and profitability.
4.2.7 Protection of our Intellectual Property and Brand

We rely, in part, on trade secrets, copyrights and contractual restrictions, such as confidentiality agreements, patents and licences to establish and protect our proprietary rights. These may not be effective in preventing a misuse of our technology or in deterring others from developing similar technologies. We may be limited in our ability to acquire or enforce our intellectual property rights in some countries. Litigation related to our intellectual property rights could be lengthy and costly and could negatively affect our operations or financial results, whether or not we are successful in defending a claim.

As the training partner of choice to enhance safety, efficiency and readiness, our brand is a significant asset. From time to time, we may authorize the use of our brand, under third party license agreements. We control and manage the use of our brand and ensure that our partners and suppliers meet rigorous standards to ensure that our brand value is preserved. Adverse publicity related to incidents or litigation involving us, our partners or suppliers may impact the value of our brand.

4.2.8 Third-Party Intellectual Property

Our products contain sophisticated software and computer systems that are supplied to us by third parties. These may not always be available to us. Our production of simulators often depends on receiving confidential or proprietary data on the functions, design and performance of a product or system that our simulators are intended to simulate. Our training systems may also involve the collection and analysis of customer performance data in connection with the use of our training systems. We may not be able to obtain access to these multiple data sets on reasonable terms, or at all.

Infringement claims could be brought against us or against our customers. We may not be successful in defending these claims and we may not be able to develop processes that do not infringe on the rights of third parties, or obtain licences on terms that are commercially acceptable, if at all.

The markets in which we operate are subject to extensive patenting by third parties. Our ability to modify existing products or to develop new products and services may be constrained by third-party patents such that we incur incremental costs to licence the use of the patent or design around the claims made therein.

4.2.9 Key Personnel

Our continued success will depend in part on our ability to attract, recruit and retain key personnel and management with relevant skills, expertise and experience. Our compensation policy is designed to mitigate this risk. We also have succession plans in place to help identify and develop an internal pipeline of leadership talent pertaining to engineers, technical and pilot instructors and general management domains.

4.2.10 Labour Relations

Approximately 2,600 employees are represented by unions and are covered by 59 collective agreements as of March 31, 2019. These differing collective bargaining agreements have various expiration dates. While we maintain positive relationships with our respective unions, the re-negotiations of the collective bargaining agreements could result in work disruption including work stoppages or work slowdowns. Should a work stoppage occur, it could interrupt our
manufacturing or service operations at the impacted location which could adversely affect service to our customers and to our financial performance.

4.2.11 Environmental Matters

We use, generate, store, handle and dispose of hazardous materials at our operations, and used to at some of our discontinued or sold operations. Past operators at some of our sites also carried out these activities.

New laws and regulations, stricter enforcement of existing laws and regulations, the discovery of previously unknown contamination, new clean-up requirements or claims on environmental indemnities we committed to may result in us having to incur substantial costs. This could have a materially negative effect on our financial condition and results of operations.

Additionally, the potential impacts of continued climate change are unpredictable. The occurrence of one or more natural disasters or weather-related events could result in a disruption of operations, property damage and adverse effects to the cost or availability of materials and resources. We cannot be certain that our insurance coverage will be sufficient to cover one or more substantial claims, though to date, our insurance coverage has been adequate to meet claims.

4.2.12 Liability risks that may not be covered by indemnity or insurance

We are exposed to liabilities that are unique to the products and services we provide, as our business is complex, international and involves extensive coordination and integration with numerous suppliers, large numbers of highly-skilled employees and partners, advanced technologies and stringent regulatory requirements and performance and reliability standards.

Accordingly, we may be exposed to claims and litigation, including claims for personal injury, death, property damage or business interruption, arising from:

- Deficiencies in our simulation products and services that directly or indirectly cause damage and/or injury;
- Deficiencies in training programs or our training services delivery that directly or indirectly cause damage or injury;
- Incidents occurring during the use of equipment that we have manufactured or operate;
- Incidents involving products and services that we have provided, including claims for personal injuries or death;
- Deficiencies in our live flight training equipment, personnel or operations that directly or indirectly cause damage or injury.

Substantial costs could adversely impact our financial condition, cash flows, or operating results. In some but not all circumstances, we may be entitled to certain legal protections or indemnifications from our customers. Although we maintain insurance coverage from established insurance carriers to cover these risks, our insurance coverage may be inadequate to cover all claims and liabilities, the amount of such insurance coverage may not be sufficient and we may be forced to bear substantial costs. Any accident, failure of, or defect in our products or services, even if fully indemnified or insured, could result in significant investment and negatively affect our reputation with our customers and the public. It also could affect the cost and availability of adequate insurance in the future.
4.2.13 Warranty or Other Product-Related Claims

We manufacture simulators that are highly complex and sophisticated. Additionally, we may purchase simulators or obtain simulators via acquisitions. These simulators may contain defects that are difficult to detect and correct and if they fail to operate correctly, there could be warranty claims or we may incur significant additional costs to modify or retrofit these products. Correcting these defects could require significant additional costs. If a defective product is integrated into our customers’ equipment, we could face product liability claims based on damages to the customers’ equipment. Any claims, errors or failures could have a negative effect on our operating results and business. We may also be subject to product liability claims relating to equipment and services related to discontinued operations sold in the past.

4.2.14 Mergers, Acquisitions, Joint Ventures, Strategic Alliances or Divestitures

As part of our growth strategy, at times we engage in business acquisitions or form joint ventures and strategic alliances. The realization of anticipated benefits from these acquisitions and related activities depends, in part, upon our ability to integrate the acquired business, the realization of synergies both in terms of successfully marketing our broadened product and service portfolio, efficient consolidation of the operations of the acquired businesses into our existing operations, cost management to avoid duplication, information systems integration, staff reorganization, establishment of controls, procedures, and policies, performance of the management team and other personnel of the acquired operations as well as cultural alignment. There can be no assurance that we will realize anticipated synergies, or that we will meet any financial and performance targets provided. In addition, our inability to adequately integrate an acquired business in a timely manner might result in departures of qualified personnel or lost business opportunities which would negatively impact operations and financial results. There are also risks associated with the acquisition of a business where certain legacy liabilities could arise. We also may make strategic divestitures from time to time. These transactions may result in continued involvement in the divested businesses, such as through guarantees and transition services following the transaction.

4.2.15 Our Ability to Penetrate New Markets

We are leveraging our knowledge, experience and best practices in simulation-based aviation training and optimization to penetrate the simulation-based training market in healthcare.

As we operate in this market, unforeseen difficulties and expenditures could arise, which may have an adverse effect on our operations, profitability and reputation. Penetrating a new market is inherently more difficult than managing within our already established markets.

4.2.16 U.S. Foreign Ownership, Control or Influence Mitigation Measures

CAE and certain of our subsidiaries are parties to agreements with various departments and agencies of the U.S. government, including the U.S. Department of Defense, which require that these subsidiaries be issued facility security clearances under the U.S. Government National Industrial Security Program. This program requires that any corporation that maintains a facility security clearance be insulated from foreign ownership, control or influence (FOCI) via a mitigation agreement. As a Canadian company, we have entered into FOCI mitigation agreements with U.S.
Department of Defense that enable these U.S. subsidiaries to obtain and maintain the requisite facility security clearances to enter into and perform on classified contracts with the U.S. Government. Specifically, these mitigation agreements are a special security agreement for CAE USA Inc. and a proxy agreement (Proxy Agreement) for CAE USA Inc.’s wholly owned subsidiary, CAE USA Mission Solutions Inc. (Proxy Company). If we fail to maintain compliance with either of these FOCI mitigation agreements, the facility security clearances for each entity may be terminated. If this occurred, our U.S. subsidiaries would no longer be eligible to enter into new contracts requiring a facility security clearance and would lose the right to perform its existing contracts with the U.S. government to completion.

A separate board of directors has been established to oversee the management and operations of the Proxy Company. Under the Proxy Agreement, we, and our board of directors, are restricted in our oversight over the Proxy Company’s separate board of directors and its management. In addition, under U.S. Department of Defense rules and procedures, subject to a limited number of restricted matters (such as the sale or disposal of the Proxy Company’s assets; corporate mergers, consolidations, or reorganizations relating to the Proxy Company; pledges, mortgages or other encumbrances on the capital stock of the Proxy Company for purposes other than obtaining working capital; the dissolution of the Proxy Company; and the filing of a bankruptcy petition with respect to the Proxy Company) the Proxy Company board of directors acts independently and has sole authority to make all decisions regarding the management of the proxy company and its business. The actions taken or not taken by the management or the Proxy Company board of directors could have an impact on our growth, reputation and profitability.

4.2.17 Length of Sales Cycle

The sales cycle for our products and services can be long and unpredictable, ranging from 6 to 18 months for civil aviation applications and from 6 to 24 months or longer for defence and security applications. During the time when customers are evaluating our products and services, we may incur expenses and management time. Making these expenditures in a period that has no corresponding revenue will affect our operating results and could increase the volatility of our share price. We may pre-build certain products in anticipation of orders to come and to facilitate a faster delivery schedule to gain competitive advantage; if orders for those products do not materialize when expected, we have to carry the pre-built product in inventory for a period of time until a sale is realized.

Government procurement policies often allow unsuccessful bidders to protest a contract award. The protest of a contract awarded to CAE may result in the cancellation of our award, extend the period before which we can start recognizing revenue or cause us to incur material legal fees.

4.2.18 Seasonality

Our business, revenues and cash flows are affected by certain seasonal trends. In the Civil segment, the level of training delivered is driven by the availability of pilots to train, which tends to be lower in the second quarter as pilots are flying more and training less and thus resulting in lower revenues. In the Defence segment, revenue and cash collection tend to be higher in the second half of the year as contract awards and availability of funding are influenced by the federal government’s budget cycle, which in the U.S. is based on a September year-end. We expect these trends to continue in fiscal 2020.
4.2.19 Returns to Shareholders

Payment of dividends, the repurchase of shares under our NCIB and other cash or capital returns to our shareholders depend on various factors, including our operating cash flows, sources of capital, the satisfaction of solvency tests and other financial requirements, our operations and financial results, as well as our dividend and other policies which may be reviewed from time to time.

4.2.20 Information Technology Systems

An information technology system failure or non-availability, cyber-attack or breach of systems security could disrupt our operations, cause the loss of, corruption of, or unauthorized access to business information and data, compromise confidential or classified information belonging to CAE, our employees, or our business partners, including aircraft OEMs and Defence and Security customers, expose us to regulatory investigation, litigation or contractual penalties or cause reputational harm. We depend on information technology infrastructure and systems, hosted internally or outsourced, to process, transmit and store electronic data and financial information, to manage business operations and to comply with regulatory, legal, national security, contractual and tax requirements. These information technology networks and systems are essential to our ability to perform day-to-day operations and to the effective operation of our business. If the systems do not operate as expected or when expected, this may have a negative effect on our operations, reporting capabilities, profitability and reputation. A series of governance processes are in place to mitigate this risk.

We may, from time to time, replace or update our information technology networks and systems. The implementation of, and transition to, new networks and systems can temporarily disrupt our business activities and result in productivity disruptions.

4.2.21 Reliance on Third-Party Providers for Information Technology Systems and Infrastructure Management

We have outsourced certain information technology systems maintenance and support services and infrastructure management functions, to third-party service providers. If these service providers are disrupted or do not perform effectively, it may have a material adverse impact on our operations and/or we may not be able to achieve the expected cost savings and may have to incur additional costs to correct errors made by such service providers. Depending on the function involved, such errors may also lead to business disruption, processing inefficiencies and/or security vulnerability.

4.2.22 Cybersecurity

Like other industries worldwide, we are subject to risks in the form of data breaches, malware, unauthorized attempts to gain access to our sensitive information, hacking, phishing, identity theft, theft of intellectual property and confidential information, industrial spying and denial-of-service attacks aimed at causing network failures and services interruption.

We may experience cybersecurity threats to our information technology infrastructure and systems and unauthorized attempts to gain access to our proprietary or sensitive information, as may our customers, suppliers, subcontractors and joint venture partners. Our dependence on information technology infrastructure and systems and our business
relationships with aircraft OEMs and Defence and Security customers may increase the risk of such cybersecurity threats. We may experience similar security threats at customer sites that we operate or manage. We must rely on our own safeguards as well as the safeguards put in place by our partners to mitigate the threats. Our partners have varying levels of cybersecurity expertise and safeguards, and their relationships with government contractors, such as CAE, may increase the likelihood that they are targeted by the same cyber threats we face.

Our business requires the appropriate and secure utilization of sensitive and confidential information belonging to third parties such as aircraft OEMs, national defence forces and customers. Our customers or governmental authorities may question the adequacy of our threat mitigation and detection processes and procedures and this could have a negative impact on existing business or future opportunities. Furthermore, given the highly evolving nature of cyber or other security threats or disruptions and their increased frequency, the impact of any future incident cannot be easily predicted or mitigated, and the costs related to such threats or disruptions may not be fully insured or indemnified by other means.

To address the challenges of the evolving cyber threat landscape, we continuously review our security measures. We have implemented security controls, policy enforcement mechanisms, management oversight and monitoring systems in order to prevent, detect and address potential threats. However, we may find it necessary to make further investments to protect our data and infrastructure, as well as our customers data, against cyber-attacks as a result of the increasing persistence, volume and sophistication of cyber-attacks and the evolving nature of these security threats. The amount of cyber insurance coverage that we maintain may not be adequate nor sufficient to cover the claims or liabilities resulting from cyber-attacks.

4.2.23 Data Privacy

The management, use and protection of data, including sensitive data, are becoming increasingly important, particularly given the adoption of the General Data Protection Regulation by the European Union and its implementation in May 2018, and the expected proliferation of similar regulatory frameworks in other regions. Further, as our collaboration with third parties continues to grow, our potential exposure to regulatory compliance, operational and reputational risk increases.

If we fail to comply with applicable privacy laws, we could be subject to regulatory penalties, experience damage to our reputation or a loss of confidence in our products and services. We may also incur additional costs for remediation and modification or enhancement of our information systems to prevent future occurrences, all of which could adversely affect our business, operations or financial results.

Furthermore, the adoption of emerging technologies, such as cloud computing, artificial intelligence, process automatization and robotics could lead to both new and complex risks that require continued focus and investment to manage effectively. We identify, assess and manage the operational risk associated with the implementation of new technologies prior to their adoption.
4.3 Risks Relating to the Market

4.3.1 Foreign Exchange

Our operations are global with more than 90% of our revenue generated from worldwide exports and international activities generally denominated in foreign currencies, mainly the U.S. dollar, the Euro and the British pound. Our revenue is generated approximately one-third in each of the U.S, Europe and the rest of the world.

Three areas of our business are exposed to fluctuations of foreign exchange rates; our network of foreign training and services operations, our production operations outside of Canada (Australia, Germany, and U.S.) and our production operations in Canada. A significant portion of the revenue generated in Canada is in foreign currencies, while a large portion of our operating costs is in Canadian dollars. When the Canadian dollar increases in value, it negatively affects our foreign currency-denominated revenue and hence our financial results. We generally hedge the milestone payments of sales contracts denominated in foreign currencies to mitigate some of the foreign exchange exposure. We continue to hold a portfolio of currency hedging positions intended to mitigate the risk to a portion of future revenues presented by the volatility of the Canadian dollar versus foreign currencies. The hedges are intended to cover a portion of the revenue to allow the unhedged portion to match the foreign cost component of the contract. Since not all of our revenue is hedged, it is not possible to completely offset the effects of changing foreign currency values, which leaves some residual exposure that may impact our financial results. This residual exposure may be higher when currencies experience significant short-term volatility. When the Canadian dollar decreases in value, it negatively affects our foreign currency-denominated costs.

Business conducted through our foreign operations are substantially based in local currencies. A natural hedge exists by virtue of revenues and operating expenses being in like currencies. However, changes in the value of foreign currencies relative to the Canadian dollar creates unhedged currency translation exposure since results are consolidated in Canadian dollars for financial reporting purposes. Appreciation of foreign currencies against the Canadian dollar would have a positive translation impact and a devaluation of foreign currencies against the Canadian dollar would have the opposite effect.

4.3.2 Availability of Capital and Credit Risk

We may be unable to obtain debt to fund our operations and contractual needs and commitments at competitive rates, on commercially reasonable terms or in sufficient amounts. We depend, in part, upon our debt funding. We have various debt facilities with maturities ranging between April 2019 and April 2039, and we cannot provide assurance that these facilities will be refinanced at the same cost, for the same duration and on similar terms as were previously available. If we require additional debt funding, our market liquidity may not be sufficient considering multiple factors including a decline in our financial performance, outlook or our credit ratings, which may adversely affect our ability to fund our operations and contractual or financing commitments.

We are also exposed to credit risk on accounts receivable from our customers. We have adopted policies to ensure we are not significantly exposed to any individual customer. Our policies include analyzing the financial position of certain customers and regularly reviewing their credit quality. We also subscribe from time to time to credit insurance and, in some instances, require a bank letter of credit to secure our customers’ payments to us.
4.3.3 Pension Plans

Economic and capital market fluctuations can negatively affect the investment performance, funding and expense associated with our defined benefit pension plans. Pension funding for these plans is based on actuarial estimates and is subject to limitations under applicable regulations. Actuarial estimates prepared during the year were based on, amongst others, assumptions regarding the performance of financial markets, discount rates, inflation rates, future salary increases, estimated retirement ages and mortality rates. The actuarial funding valuation reports determine the amount of cash contributions that we are required to make into registered retirement plans. There can be no assurance that our pension expense and the funding of these plans will not increase in the future, negatively impacting our earnings, cash flow and shareholders’ equity. We seek to mitigate this risk by implementing policies and procedures designed to control investment risk and through ongoing monitoring of our funding position.

Additional cash contributions, if required, to fund our defined benefit and defined contribution pension plans may have a negative effect on our operations and financial results.

4.3.4 Doing Business in Foreign Countries

We have operations in over 35 countries including our joint venture operations. We also sell and deliver products and services to customers around the world. Sales to customers outside Canada made up more than 90% of revenue in fiscal 2019. We expect sales outside Canada to continue to represent a significant portion of revenue in the foreseeable future. As a result, we are subject to the risks of doing business internationally, including geopolitical instability.

These are the main risks we are facing attributable to international operations:
- Change in Canadian and foreign government policies, laws, regulations and regulatory requirements, or the interpretation, application, and/or enforcement thereof;
- Adoption of new, and the expansion of existing tariffs, embargoes, controls, sanctions trade and other restrictions;
- Recessions and other economic crises in other regions, or specific foreign economies and the impact on our cost of doing business in those countries;
- General changes in social, economic and geopolitical conditions;
- Complexity and corruption risks of using foreign representatives and consultants.

Also, changes to the regulatory environment in countries in which we do business may lead to higher custom tariffs, stricter trade policies, changes in the sanctions regime, export restrictions and other restrictions, that may have a negative impact on our sales, financial results and business model.

4.3.5 Political Instability

Global uncertainty has remained a risk throughout fiscal 2019 and, in some parts of the world, political instability has become more pronounced, protracted and unpredictable.

Rising geopolitical tensions or prolonged political instability in various countries where we have a presence could lead to delays or cancellation of orders, deliveries or projects, or the expropriation of assets, in which we have invested.
significant resources, particularly when the customers are state-owned or state-controlled entities. It is possible that in the markets we serve, unanticipated political instability could impact our operating results and financial position.

The social, political and economic impacts of the changing political landscape in Europe, which includes the final outcome of Brexit negotiations remains uncertain and may lead to increased complexity in terms of regulations.

### 4.3.6 Anti-corruption Laws

Sales to foreign customers are subject to Canadian and foreign laws and regulations, including, without limitation, the *Corruption of Foreign Public Officials Act* (Canada), the *Foreign Corrupt Practices Act* (United States) and other anti-corruption laws. While we have stringent policies in place to comply with such laws, failure by CAE, our employees, foreign representatives and consultants or others working on our behalf to comply with it could result in administrative, civil, or criminal liabilities, including suspension, debarment from bidding for or performing government contracts, which could have a material adverse effect on us. We frequently team with international subcontractors and suppliers who are also exposed to similar risks.

### 4.3.7 Taxation Matters

We collect and pay significant amounts of taxes to various tax authorities. As our operations are complex and the related tax interpretations, regulations, legislation and jurisprudence that pertain to our activities are subject to continual change and evolving interpretation, the final outcome of the taxation of many transactions is uncertain. Also, a substantial portion of our business is conducted in foreign countries and is thereby subject to numerous countries’ tax laws and fiscal policies. A change in applicable tax laws, treaties or regulations or their interpretation could result in a higher effective tax rate on our earnings which could significantly impact our financial results.

## 5. DIVIDENDS AND DISTRIBUTIONS

### 5.1 Dividends

We paid a dividend of $0.09 per share in the first quarter and $0.10 per share in the second, third and fourth quarter of fiscal 2019. These dividends were eligible under the Income Tax Act (*Canada*) and its provincial equivalents.

The Board has the discretion to set the amount and timing of any dividend. The Board reviews the dividend policy annually based on the cash requirements of our operating activities, liquidity requirements and projected financial position. We expect to declare dividends of approximately $106.2 million in fiscal 2020 based on our current dividend and the number of common shares outstanding as at March 31, 2019.

CAE’s Dividend Reinvestment Plan provides that Canadian and U.K. resident shareholders can elect to receive Common Share dividends in lieu of cash dividends. During fiscal 2017, 2018, and 2019 CAE issued 221,020, 173,964, and 146,914 common shares, respectively, as stock dividends.
5.2 Repurchase and Cancellation of Common Shares

On February 8, 2019, we announced the renewal of the NCIB to purchase up to 5,300,613 of our common shares. The NCIB began on February 25, 2019 and will end on February 24, 2020 or on such earlier date when we complete our purchases or elect to terminate the NCIB. These purchases will be made on the open market plus brokerage fees through the facilities of the TSX and/or alternative trading systems at the prevailing market price at the time of the transaction, in accordance with the TSX's applicable policies. All common shares purchased pursuant to the NCIB will be cancelled.

In fiscal 2019, we repurchased and cancelled a total of 3,671,900 common shares under the previous and current NCIB (2018 – 2,081,200), at a weighted average price of $25.70 per common share (2018 – $21.53), for a total consideration of $94.4 million (2018 – $44.8 million). An excess of $85.6 million (2018 – $39.9 million) of the shares’ repurchase value over their carrying amount was charged to retained earnings as share repurchase premiums.

6. DESCRIPTION OF CAPITAL STRUCTURE

Our authorized capital consists of an unlimited number of common shares without par value and an unlimited number of preferred shares without par value, issuable in series.

Each common share entitles the holder thereof to dividends if, as and when declared by our Directors, to one vote at all meetings of holders of common shares and to participate, pro rata, with the holders of common shares, in any distribution of our assets upon liquidation, dissolution or winding-up, subject to the prior rights of holders of shares ranking in priority to common shares.

As at the close of business on March 31, 2019 and May 31, 2019 respectively, 265,447,603 and 265,809,225 common shares were issued and outstanding. There are no preferred shares issued and outstanding.

7. MARKET FOR SECURITIES

The outstanding common shares of CAE are listed and posted for trading on The Toronto Stock Exchange and on the New York Stock Exchange under the symbol CAE.

7.1 Trading Price and Volume

<table>
<thead>
<tr>
<th>Month</th>
<th>Min.</th>
<th>Max.</th>
<th>Total Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>April-18</td>
<td>$23.78</td>
<td>$25.13</td>
<td>10,880,400</td>
</tr>
<tr>
<td>May-18</td>
<td>$22.50</td>
<td>$27.69</td>
<td>10,902,400</td>
</tr>
<tr>
<td>Month</td>
<td>Min.</td>
<td>Max.</td>
<td>Total Volume</td>
</tr>
<tr>
<td>------------</td>
<td>-------</td>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td>June-18</td>
<td>$26.52</td>
<td>$28.15</td>
<td>13,211,400</td>
</tr>
<tr>
<td>July-18</td>
<td>$26.37</td>
<td>$27.97</td>
<td>8,383,600</td>
</tr>
<tr>
<td>August-18</td>
<td>$25.10</td>
<td>$27.72</td>
<td>11,962,200</td>
</tr>
<tr>
<td>September-18</td>
<td>$25.52</td>
<td>$27.14</td>
<td>9,133,300</td>
</tr>
<tr>
<td>October-18</td>
<td>$22.10</td>
<td>$26.63</td>
<td>15,568,300</td>
</tr>
<tr>
<td>November-18</td>
<td>$23.17</td>
<td>$27.09</td>
<td>14,031,700</td>
</tr>
<tr>
<td>December-18</td>
<td>$24.55</td>
<td>$27.32</td>
<td>11,357,700</td>
</tr>
<tr>
<td>January-19</td>
<td>$24.64</td>
<td>$28.23</td>
<td>11,846,300</td>
</tr>
<tr>
<td>February-19</td>
<td>$27.12</td>
<td>$28.48</td>
<td>8,572,600</td>
</tr>
<tr>
<td>March-19</td>
<td>$27.74</td>
<td>$30.07</td>
<td>9,925,300</td>
</tr>
</tbody>
</table>
8. DIRECTORS AND OFFICERS

The Directors of CAE are elected at each annual meeting of shareholders and hold office until the next annual meeting of shareholders or until their successors are elected or appointed. The names and municipalities of residence of the Directors and Officers of CAE as of the date hereof, the positions and offices held by them in CAE, their respective principal occupations for the last five years, and the year in which they became a Director are set forth below.

More information concerning CAE’s Directors may be found in the Management Proxy Circular dated June 19, 2019, in connection with our Annual Meeting of Shareholders to be held on August 14, 2019.

In addition to fulfilling all statutory requirements, the Board oversees and reviews: (i) the strategic and operating plans and financial budgets and the performance against these objectives; (ii) the principal risks and the adequacy of the systems and procedures to manage these risks; (iii) the compensation and benefit policies; (iv) management development and succession planning; (v) business development initiatives; (vi) the communications policies and activities, including shareholder communications; (vii) the integrity of internal controls and management information systems; (viii) the monitoring of the corporate governance system; and (ix) the performance of the President and Chief Executive Officer.

The Committees of the Board are the Audit Committee, the Governance Committee and the Human Resources Committee.
### 8.1 Name and Occupation

#### DIRECTORS

<table>
<thead>
<tr>
<th>Name and Municipality of Residence and Year First Became a Director</th>
<th>Principal Occupation</th>
</tr>
</thead>
</table>
| MARGARET S. (PEG) BILLSON  
Albuquerque, New Mexico, USA  
(2015) | Ms. Billson is a veteran aviation business leader with over 30 years of experience leading technology rich companies, including serving as the President & CEO of BBA Aviation Aftermarket Services, a division of BBA Aviation plc., as President & General Manager of the Airplane Division of Eclipse Aviation and as the Vice-President & General Manager of Airframe Systems at Honeywell International Inc. Ms. Billson has a Master’s degree in Engineering-Aerospace and, in recognition of her industry accomplishments, has been inducted into Embry-Riddle Aeronautical University’s Hall of Fame. Ms. Billson is also an instrument-rated pilot.  

Ms. Billson is a member of the Governance and Human Resources Committees. |
| THE HONOURABLE MICHAEL M. FORTIER,  
P.C.  
Town of Mount Royal, Quebec, Canada  
(2010) | Mr. Fortier joined RBC Capital Markets (RBCCM) as a Vice-Chair in 2010. Prior to joining RBCCM, Mr. Fortier was a partner of Ogilvy Renault LLP (now Norton Rose Fulbright Canada LLP) and a Senior Advisor to Morgan Stanley in Canada.  

Between 2006 and 2008, Mr. Fortier held various positions in the Government of Canada, as Minister of Public Works and Government Services, Minister of International Trade and Minister responsible for Greater Montréal. Prior to that, Mr. Fortier was active in the investment banking industry, first as a Managing Director with Credit Suisse First Boston (1999 - 2004) and then as a Managing Director with TD Securities (2004 - 2006).  

Mr. Fortier also practiced law with Ogilvy Renault LLP (1985 - 1999) in the areas of corporate finance and mergers and acquisitions. He was based in London, England for several years during this period.  

Mr. Fortier is Chair of the Human Resources Committee. |
<table>
<thead>
<tr>
<th>Name and Municipality of Residence and Year First Became a Director</th>
<th>Principal Occupation</th>
</tr>
</thead>
</table>
| **ALAN N. MACGIBBON, CPA, CA**
Toronto, Ontario, Canada (2015) | Mr. MacGibbon is a Corporate Director. He was Managing Partner and Chief Executive of Deloitte LLP Canada (2004 – 2012) and served on the Executive and Global Board of Directors of Deloitte Touche Tohmatsu Limited during this term. Mr. MacGibbon served as Global Managing Director, Quality, Strategy and Communications of Deloitte Touche Tohmatsu Limited and as Senior Counsel to Deloitte LLP Canada from June 2012 to December 2013. Mr. MacGibbon holds an undergraduate degree in Business Administration and an honorary doctorate degree from the University of New Brunswick. Mr. MacGibbon is a Chartered Professional Accountant, a Chartered Accountant and a Fellow of the Chartered Professional Accountants of Ontario. Mr. MacGibbon is Chair of the Audit Committee and a member of the Human Resources Committee. |
| **THE HONOURABLE JOHN P. MANLEY, PC, OC**
Ottawa, Ontario, Canada (2008) | Mr. Manley was President and Chief Executive Officer of the Business Council of Canada (not-for-profit) from January 2010 until his retirement in 2018 and is currently Chair of Canadian Imperial Bank of Commerce. From 2004 to 2009, he served as Counsel to McCarthy Tétrault LLP, a national law firm. Prior to that, Mr. Manley had a 16-year career in politics, serving as Deputy Prime Minister of Canada and Minister in the portfolios of Industry, Foreign Affairs and Finance. Mr. Manley obtained a Bachelor of Arts from Carleton University and a Juris Doctorate from the University of Ottawa, is a certified Chartered Director from McMaster University and holds honorary doctorates from six Canadian universities. Mr. Manley is Chair of the Board. |
FRANÇOIS OLIVIER
Montreal, Quebec, Canada
(2017)

François Olivier has been President and Chief Executive Officer of Transcontinental Inc. since 2008. After joining the Printing Sector of TC Transcontinental in 1993, he rose through the ranks to ultimately take on the role of President of the Information Products Printing Sector, and then becoming Chief Operating Officer in 2007. Through the years, Mr. Olivier consolidated the Canadian printing industry and transformed the company by diversifying its assets into flexible packaging with strategic acquisitions. Under his leadership, TC Transcontinental has become Canada’s largest printer, a leader in flexible packaging in North America, and a Canadian leader in its specialty media segments. Prior to joining TC Transcontinental, François Olivier worked as General Manager of Canada Packers. Mr. Olivier also serves on the boards of directors of The Conference Board of Canada, the Flexible Packaging Association and the Montreal Heart Institute Foundation. He has a B.Sc. from McGill University and is a graduate of the Program for Management Development at Harvard Business School.

Mr. Olivier is a member of the Audit and Governance Committees.
<table>
<thead>
<tr>
<th>Name and Municipality of Residence and Year First Became a Director</th>
<th>Principal Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MARC PARENT</strong>&lt;br&gt;Montreal, Quebec, Canada (2008)</td>
<td>Mr. Parent has been the President and CEO of CAE Inc. since October 2009. He joined the Company in February 2005 as Group President, Simulation Products, was appointed Group President, Simulation Products and Military Training &amp; Services in May 2006, and then Executive Vice President and Chief Operating Officer in November 2008. Mr. Parent has over 30 years of experience in the aerospace industry. Before joining CAE, Mr. Parent held various positions with Canadair and within Bombardier Aerospace in Canada and the U.S. Mr. Parent is past Chair of the Board of Directors of the Aerospace Industries Association of Canada (AIAC) and of Aéro Montréal (Québec’s aerospace cluster). Mr. Parent graduated as an engineer from École Polytechnique, is a graduate of the Harvard Business School Advanced Management Program and holds an honourary doctorate from École Polytechnique. Mr. Parent is an active pilot holding a Transport Canada Airline Transport Pilot license.</td>
</tr>
<tr>
<td><strong>MICHAEL E. ROACH</strong>&lt;br&gt;Montréal, Québec, Canada (2017)</td>
<td>An experienced international and technology leader, Mr. Roach served a President and Chief Executive Officer (2006-2016) of CGI Group Inc. until his retirement. In addition to serving on the board of directors of CGI Group Inc. (since 2006), he is Chairman of the Board of Interac Corp., a private company (since 2018). Prior positions include President and Chief Operating Officer of CGI Group Inc. and President and Chief Executive Officer of Bell Sygma Inc., a Bell Canada technology subsidiary. Mr. Roach holds a Bachelor of Arts in Economics and Political Science, as well as an Honorary Doctorate in Business Administration from Laurentian University in Sudbury, Ontario. Mr. Roach is a member of the Audit Committee.</td>
</tr>
<tr>
<td>Name and Municipality of Residence and Year First Became a Director</td>
<td>Principal Occupation</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>GENERAL NORTON A. SCHWARTZ, USAF (RET.) McLean, Virginia, U.S. (2018)</td>
<td>General Schwartz is the President and Chief Executive Officer of Business Executives for National Security since 2013. General Schwartz is also a retired United States Air Force General who served as the Chief of Staff of the United States Air Force from 2008 until 2012. As a member of the Joint Chiefs of Staff, General Schwartz functioned as a military adviser to the Secretary of Defense, National Security Council and the President of the United States of America. During this time, General Schwartz served as the senior uniformed Air Force officer responsible for the organization, training and equipping of active duty, guard, and reserve forces and civilian workforce serving in the United States and overseas. He previously served as Commander, United States Transportation Command from September 2005 to August 2008 and Director for Operations and Director of the Joint Staff from 2002 to 2005. General Schwartz previously served on the board of directors of CAE, USA Inc. from 2014 to 2018. General Schwartz is a member of the Audit Committee.</td>
</tr>
<tr>
<td>Name and Municipality of Residence and Year First Became a Director</td>
<td>Principal Occupation</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>---------------------</td>
</tr>
</tbody>
</table>
| **ANDREW J. STEVENS**  
Cheltenham, Gloucestershire, UK (2013) | Mr. Stevens is a corporate Director based in the U.K who has operating experience globally in the aerospace and defence sector. Beginning with the Dowty Group, a leading British manufacturer of aircraft equipment (1976 - 1994), he joined Bowthorpe plc (1994 - 1996), Messier-Dowty as Managing Director then Chief Operating Officer (1996 - 2000), Rolls-Royce, where he served as Managing Director Defence Aerospace (2001 - 2003), and Cobham plc as a Board member where he served variously as Group Managing Director, Aerospace Systems, Chief Operating Officer and Chief Executive Officer (2003 - 2012).  
Mr. Stevens is a Chartered Engineer, with a 1st Class honour degree in Product Engineering from Aston University. He is a Fellow of the Royal Aeronautical Society, a Fellow of the Institution of Electrical Engineers and was awarded a honorary Doctor of Science in 2013.  
Mr. Stevens is Chair of the Governance Committee and a member of the Human Resources Committee. |
| **KATHARINE B. STEVENSON**  
Toronto, Ontario, Canada (2007) | Ms. Stevenson is a corporate Director who has served on a variety of corporate boards in Canada and the United States. She was formerly the global Treasurer of Nortel Networks Corporation (Nortel). Prior to joining Nortel, she held progressively senior finance roles in investment and corporate banking at J.P. Morgan and Company, Inc. Ms. Stevenson chairs the Audit Committee of Capital Power Corporation, serves on the Audit Committee of Open Text Corporation and chairs the Corporate Governance Committee of Canadian Imperial Bank of Commerce.  
Ms. Stevenson holds a Bachelor of Arts degree (Magna Cum Laude) from Harvard University and has the professional designation ICD.D granted by the Institute of Corporate Directors (ICD).  
Ms. Stevenson is a member of the Audit and Governance Committees. |
## OFFICERS

<table>
<thead>
<tr>
<th>Name and Municipality of Residence and Office Held with CAE</th>
<th>Principal Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NICK LEONTIDIS, Ile-Bizard, Quebec, Canada</td>
<td>Group President, Civil Aviation Training Solutions; previously Executive Vice-President, Strategy and Business Development (2009 to 2013), Executive Vice President Sales, Marketing and Business Development - Civil Training and Services (2005-2009).</td>
</tr>
<tr>
<td>GENNARO (GENE) A. COLABATISTTO, Washington, DC, USA</td>
<td>Group President, Defence and Security, with CAE since 2012; formerly Senior Vice President, Program Development for the Intelligence, Surveillance and Reconnaissance Group at Science Applications International Corporation (2008-2012) and before that President of Olive Group North America.</td>
</tr>
<tr>
<td>SONYA BRANCO, CPA, CA, Montreal, Quebec, Canada</td>
<td>Vice President, Finance and Chief Financial Officer since May 2016, with CAE since 2008; formerly Vice President, Finance and Corporate Controller, and Director Planning and Forecasting. Ms. Branco is a Chartered Professional Accountant.</td>
</tr>
<tr>
<td>MARK HOUNSELL, Town of Mount Royal, Quebec, Canada</td>
<td>General Counsel, Chief Compliance Officer and Corporate Secretary, with CAE since February 2016; formerly Chief Legal Officer and Corporate Secretary of Aimia Inc. (2006-2016).</td>
</tr>
<tr>
<td>CONSTANTINO MALATESTA, CPA, CA, Laval, Quebec, Canada</td>
<td>Vice President and Corporate Controller since May 2016, with CAE since 2006; formerly Director Finance, CAE Oxford Aviation Academy (2014-2016), and Director Finance and Assistant Corporate Controller (2011-2014). Mr. Malatesta is a Chartered Professional Accountant and U.S. Certified Public Accountant.</td>
</tr>
<tr>
<td>MARIO PIZZOLONGO, CPA, CA, Blainville, Quebec, Canada</td>
<td>Treasurer, with CAE since January 2016; formerly Vice President, Finance and Treasurer of Future Electronics Inc. (2010-2016). Mr. Pizzolongo is a Chartered Professional Accountant.</td>
</tr>
</tbody>
</table>

All Directors and officers as a group (16 persons) owned beneficially or exercised control or direction over 435,072 Common Shares representing 0.16% of the class as at June 13, 2019.
8.2 Cease Trade Orders, Bankruptcies, Penalties or Sanctions

None of the Directors of CAE is, or within ten years prior hereto has been, subject to a cease trade or similar order except as set out below.

Mr. Manley was a Director of Nortel Networks Corporation (Nortel) and Nortel Networks Limited (NNL) when Nortel and NNL were granted creditor protection under the Companies’ Creditors Arrangement Act (CCAA) on January 14, 2009, and under other similar bankruptcy legislation in the U.S. and other jurisdictions.

9. TRANSFER AGENT AND REGISTRAR

CAE only has common shares issued. CAE’s transfer agent and registrar is Computershare Trust Company of Canada located at 100 University Avenue, 8th Floor, Toronto, Ontario, M5J 2Y1.

10. AUDIT COMMITTEE

10.1 Charter

The charter of CAE’s Audit Committee is as set out in Schedule B hereto.

10.2 Membership

The members of CAE’s Audit Committee are:
- Mr. Alan N. MacGibbon (Chair)
- Mr. François Olivier
- Mr. Michael E. Roach
- Gen. Norton A. Schwartz, USAF (Ret.)
- Ms. Katharine B. Stevenson

Each of these members is independent and financially literate.

Mr. MacGibbon, Chair of the Audit Committee, brings a wealth of financial expertise to the committee. He was formerly the Managing Partner and Chief Executive of Deloitte LLP (Canada), a member of Deloitte’s Board of Directors, and a member of the Executive and Board of Directors of Deloitte Touche Tohmatsu Limited. Mr. MacGibbon is a Chartered Professional Accountant and a Fellow of the Ontario Institute of Chartered Professional Accountants.

Mr. Olivier has significant experience in driving profitable business growth through M&A and in managing large-scale manufacturing operations, in particular as President and Chief Executive Officer of publicly traded company Transcontinental Inc. Mr. Olivier holds a B.Sc. from McGill University and is a graduate of the Program for Management Development at Harvard Business School.

Mr. Roach served as President and Chief Executive Officer of CGI Group Inc. for 10 years and has extensive international leadership experience in consulting and technology-focused companies. Mr. Roach holds a Bachelor of
Arts in Economics and Political Science, as well as an Honorary Doctorate in Business Administration from Laurentian University in Sudbury, Ontario.

Gen. Schwartz is a seasoned executive with significant strategy and leadership experience with the United States Air Force, currently serving as President and Chief Executive Officer of Business Executives for National Security. Gen. Schwartz holds a Masters degree in Business Administration from Central Michigan University.

Ms. Stevenson has extensive financial and accounting experience, including from her services as Treasurer of Nortel Networks Corporation, as a finance executive with J.P. Morgan Chase & Co., and as former Chair of the Audit Committee of OSI Pharmaceuticals, Inc. She currently chairs the Audit Committee of Capital Power Corporation, serves on the Audit Committee of Open Text Corporation and chairs the Corporate Governance Committee of Canadian Imperial Bank of Commerce.

11. APPROVAL OF SERVICES

The Audit Committee is responsible for the appointment, compensation, retention and oversight of the work of CAE’s independent auditor. The Audit Committee must pre-approve any audit and non-audit services performed by PricewaterhouseCooper LLP (PwC), CAE’s auditor, or such services must be entered into pursuant to the policies and procedures established by the Committee. Pursuant to such policies the Audit Committee annually authorizes CAE and our affiliates to engage the auditor for specified permitted tax, financial advisory and other audit-related services up to specified fee levels. The Audit Committee has considered and concluded that the provision of these services by PwC is compatible with maintaining PwC’s independence. The Audit Committee’s policy also identifies prohibited services that PwC is not to provide to CAE.

PwC has advised that they are independent with respect to CAE within the meaning of the Code of Ethics of the “Ordre des comptables professionnels agréés du Québec”.

The following chart shows all fees paid to PwC by CAE and our subsidiaries in the most recent and prior fiscal year for the various categories of services (generic description only).

<table>
<thead>
<tr>
<th>FEE TYPE</th>
<th>2019 ($ MILLIONS)</th>
<th>2018 ($ MILLIONS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Audit services</td>
<td>4.6</td>
<td>4.6</td>
</tr>
<tr>
<td>2. Audit-related services</td>
<td>0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>3. Tax services</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5.3</strong></td>
<td><strong>5.4</strong></td>
</tr>
</tbody>
</table>

Audit fees are comprised of fees billed for professional services for the audit of CAE’s annual consolidated financial statements and services that are normally provided by PwC in connection with statutory and regulatory filings, including
the audit of the internal controls over financial reporting as required by the Sarbanes-Oxley legislation and the
equivalent rules adopted by the Canadian Securities Administrators.

Audit-related fees are comprised of fees relating to work performed in connection with CAE’s acquisitions, translation
and other miscellaneous accounting-related services.

Tax fees are mainly related to tax compliance, tax planning and tax advice.

12. ADDITIONAL INFORMATION

Additional information, including Directors’ and Officers’ remuneration and indebtedness, principal holders of CAE’s
securities, options to purchase securities and interests of insiders in material transactions, where applicable, is
contained in the Management Proxy Circular dated June 19, 2019, in connection with CAE’s Annual Meeting of
Shareholders to be held on August 14, 2019. Additional financial information, including comparative consolidated
audited financial statements and MD&A, are provided in CAE’s Annual Financial Report to the shareholders for the
financial year ended March 31, 2019. A copy of such documents may be obtained from the Vice President, Public
Affairs and Global Communications or the Corporate Secretary of CAE upon request, or are available online at
www.sedar.com, as well as CAE’s website at www.cae.com.

In addition, CAE will provide to any person or company, upon request to the Vice President, Public Affairs and Global
Communications or the Corporate Secretary of CAE, the documents specified below:

(a) When the securities of CAE are in the course of a distribution under a preliminary short form prospectus
or a short form prospectus:
(i) one copy of CAE’s annual information form together with one copy of any document, or the pertinent
pages of any document, incorporated by reference in such annual information form;
(ii) one copy of CAE’s comparative financial statements for our most recently completed financial year
together with the accompanying report of the auditors and one copy of CAE’s most recent interim financial
statements for any period after the end of our most recently completed financial year;
(iii) one copy of the information circular in respect of our most recent annual meeting of shareholders that
involved the election of Directors; and
(iv) one copy of any other documents which are incorporated by reference into the preliminary short form
prospectus or the short form prospectus and are not required to be provided under (i) to (iii) above; or

(b) At any other time, one copy of any other document referred to in clauses (i), (ii) and (iii) of paragraph (a)
above, provided that CAE may require the payment of a reasonable charge if the request is made by a person
or company who is not a security holder of CAE.
For the purposes of this Annual Information Form, the following terms have the meanings set out below:

“AHA” means American Heart Association

“AIF” means the Annual Information Form

“Annual Financial Report” means the Annual Report to Shareholders for the year ended March 31, 2019

“AOCE” means Alpha-Omega Change Engineering Inc.

“ASA” means American Society of Anesthesiologists

“ATP” means Authorized Training Provider

“Board” means the Board of Directors of CAE Inc.

“CAE” means CAE Inc.

“CAE Rise™” means CAE Real-time Insights and Standardized Evaluations

“CBCA” means the Canada Business Corporations Act

“CCAA” means the Companies’ Creditors Arrangement Act

“CDB” means CAE’s Common Environment/Common Data Base

“Civil” means Civil Aviation Training Solutions

“Company” means CAE Inc.

“Consolidated Financial Statements” means the Consolidated Financial Statements for the year ended March 31, 2019 and the notes thereto

“Defence” means Defence and Security

“DISA” Defense Information Systems Agency

“DISR” means US Department of Defense (DoD) Information Technology Standards and Profile Registry

“DoD” means US Department of Defense

“EASA” means European Aviation Safety Agency

“EMEA” means Middle East and Africa

“FAA” means the U.S. Federal Aviation Administration

“FFS” means full-flight simulators

“FIIN” means CAE’s Flight Instructor Initiative
“FOCI” means foreign ownership, control or influence

“FTD” means CAE 400XR, 500XR, 550XR and 600XR Series Flight Training Devices

“FY2016” means fiscal 2016

“FY2018” means fiscal 2018

“FY2019” means fiscal 2019

“IFRS” means international financial reporting standards

“ILVC” means integrated live-virtual-constructive

“I/ITSEC” means Interservice/Industry Training, Simulation, and Education Conference

“IQ” means Investissement Québec

“IT” means information technology

“MD&A” means CAE’s Management’s Discussion and Analysis of Financial Condition and Results of Operations

“MOCA” means Maintenance of Certification in Anesthesiology

“MPL” means Multi-crew Pilot License

“MROs” means maintenance repair and overhaul organizations

“NATO” means North Atlantic Treaty Organization

“NCSBN” means U.S. National Council of State Boards of Nursing

“NDAA” means National Defense Authorization Act

“OEM” means the original equipment manufacturer

“OGC” means the Open Geospatial Consortium

“PDI” means Project Digital Intelligence

“Proxy Agreement” means a proxy agreement for CAE USA Inc.’s wholly owned subsidiary, CAE USA Mission Solutions Inc.

“Proxy Company” means CAE USA Mission Solutions Inc.

“PwC” means PricewaterhouseCoopers LLP

“R&D” means research and development

“RPK” means revenue passenger kilometers

“SADI” means Strategic Aerospace and Defence Initiative

“SIF” means Strategic Innovation Fund
“UAE” means United Arab Emirates

“UPRT” means Upset Prevention and Recovery Training

“USAF” means U.S. Air Force

“WATS” means World Aviation Training Symposium
SCHEDULE A – SUBSIDIARIES AND OTHER INVESTMENTS

Set forth below are the names of the direct and indirect subsidiaries and other investments of CAE as at March 31, 2019. Please note that all entities are wholly owned, except as mentioned.

<table>
<thead>
<tr>
<th>Name of Subsidiary or other investment</th>
<th>Jurisdiction of Incorporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td></td>
</tr>
<tr>
<td>9595058 Canada Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Healthcare Canada Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE International Holdings Limited</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Machinery Ltd.</td>
<td>British Columbia</td>
</tr>
<tr>
<td>CAE Military Aviation Training Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Mining Equipment Canada Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Operational Training Services Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Railway Ltd.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Services (Canada) Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>CAE Simulator Services Inc.</td>
<td>Québec</td>
</tr>
<tr>
<td>CAE Wood Products G.P.¹</td>
<td>Québec</td>
</tr>
<tr>
<td>Flight Simulator-Capital L.P.²</td>
<td>Quebec</td>
</tr>
<tr>
<td>Pelesys Aviation Maintenance Training Inc. (29.25%)</td>
<td>British Columbia</td>
</tr>
<tr>
<td>Pelesys Learning Systems Inc. (45%)</td>
<td>British Columbia</td>
</tr>
<tr>
<td>Presagis Canada Inc.</td>
<td>Canada</td>
</tr>
<tr>
<td>SKYALYNE Canada Inc. (50%)</td>
<td>Canada</td>
</tr>
<tr>
<td>United States</td>
<td></td>
</tr>
<tr>
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<tr>
<td>CAE Civil Aviation Training Solutions Inc.</td>
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<td>CAE Delaware Buyco Inc.</td>
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<td>CAE Flight Solutions USA Inc.</td>
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<tr>
<td>CAE Healthcare, Inc.</td>
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<td>Jurisdiction of Incorporation</td>
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<tr>
<td>CAE North East Training Inc.</td>
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<td>CAE Oxford Aviation Academy Phoenix Inc.</td>
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<td>CAE SimuFlite Inc.</td>
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<td>CAE USA Mission Solutions Inc.</td>
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<tr>
<td>Engenuity Holdings (USA) Inc.</td>
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<tr>
<td>KVDB Flight Training Services, Inc. (49%)</td>
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<tr>
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<tr>
<td>Parc U.S. Inc.</td>
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<tr>
<td>Presagis USA Inc.</td>
<td>California</td>
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<tr>
<td>Rotorsim USA LLC. (50%)</td>
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**Europe**

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<tr>
<th>Name of Subsidiary or other investment</th>
<th>Jurisdiction of Incorporation</th>
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<tr>
<td>ARGE Rheinmetall Defence Electronics GmbH/CAE Elektronik GmbH (50%)</td>
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<tr>
<td>Aviation Personnel Support Services Limited</td>
<td>Ireland</td>
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<tr>
<td>Aviation Training Northeast Asia B.V. (50%)</td>
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<tr>
<td>CAE Academia de Aviación España, S.L.</td>
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<tr>
<td>CAE Aircrew Training Services plc (78%)</td>
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<tr>
<td>CAE Aviation Training B.V.</td>
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<tr>
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<td>CAE Center Brussels N.V.</td>
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<td>CAE CFT B.V.</td>
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<tr>
<td>CAE Centre Stockholm A.B.</td>
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<tr>
<td>CAE Elektronik GmbH</td>
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</tr>
<tr>
<td>CAE Engineering Kortlőtt Felelösségű Társaság</td>
<td>Hungary</td>
</tr>
<tr>
<td>Name of Subsidiary or other investment</td>
<td>Jurisdiction of Incorporation</td>
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<td>CAE Healthcare GmbH</td>
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<td>CAE Holdings Limited</td>
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<td>CAE Services Italia, S.r.l.</td>
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<td>CAE Training Aircraft B.V.</td>
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<td>CAE (UK) plc</td>
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<td>CVS Leasing Limited (13.39%)</td>
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<tr>
<td>Helicopter Training Media International GmbH (50%)</td>
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<td>HFTS Helicopter Flight Training Services GmbH (25%)</td>
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<tr>
<td>Logitude OY</td>
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<td>Oxford Aviation Academy (Oxford) Limited</td>
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<tr>
<td>Name of Subsidiary or other investment</td>
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<td>Oxford Aviation Academy Europe AB</td>
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<td>Parc Interim Limited</td>
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<td>Parc Selection Limited</td>
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<td>Presagis Europe S.A.</td>
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<td>RotorSim s.r.l. (50%)</td>
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<td>Servicios de Instrucción de Vuelo, S.L. (80%)</td>
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<td>Sim-Industries Production B.V. NN</td>
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<tr>
<td>Simubel N.V. (a CAE Aviation Training Company)</td>
<td>Belgium</td>
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<tr>
<td>SIV Ops Training, S.L. (80%)</td>
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**Central and South-America**

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<tr>
<th>Name of Subsidiary or other investment</th>
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<tr>
<td>Avianca-CAE Flight Training (ACFT) S.A.S.</td>
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<td>CAE Aviation Training Chile Limitada⁴</td>
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<td>CAE Aviation Training Peru S.A.</td>
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<td>CAE El Salvador Flight Training S.A. de C.V.</td>
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<td>CAE Flight Training Center Mexico, S.A. de C.V.</td>
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<tr>
<td>CAE South America Flight Training do Brasil Ltda</td>
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<tr>
<td>CAE-LIDER Training Do Brasil Ltda. (50%)</td>
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<tr>
<td>SIM-Industries Brasil Administração de Centros de Treinamento Ltda.</td>
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<td>Simulator Servicios Mexico, S.A. de C.V.</td>
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<td><strong>Middle-East and Africa</strong></td>
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<tr>
<td>CAE Aviation Training International Ltd.</td>
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<tr>
<td>CAE Maritime Middle East LLC (49%)</td>
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<td>CAE Middle East L.L.C. (49%)</td>
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<td>Emirates-CAE Flight Training (L.L.C.) (49%)</td>
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<td>Pegasus Uçus Eğitim Merkezi A.S. (49.9%)</td>
<td>Turkey</td>
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<tr>
<td>Sabena Flight Academy – Africa (34%)</td>
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<td>Asian Aviation Centre of Excellence (Singapore) Pte Ltd</td>
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<td>CAE Aviation Services Pte Ltd.</td>
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<td>CAE Kuala Lumpur Sdn. Bhd.</td>
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<td>CAE Melbourne Flight Training Pty Ltd. (50%)</td>
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<tr>
<td>Name of Subsidiary or other investment</td>
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<td>JAL CAE Flight Training Co., Ltd. (50%)</td>
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<td>Philippine Academy for Aviation Training, Inc. (40%)</td>
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</table>

Notes 1; 2; 3; 4 refer to a partnership.
SCHEDULE B – AUDIT COMMITTEE CHARTER

CAE INC.
MEMBERSHIP AND RESPONSIBILITIES OF
THE AUDIT COMMITTEE OF THE BOARD OF DIRECTORS

1. General Responsibilities

1.1 The Audit Committee (the “Committee”) shall be a committee of the Board of Directors.

1.2 The Committee shall consist of three to five directors (one of whom shall be the Chair of the Committee). All members of the Committee shall be independent directors, as determined by the Board taking into consideration applicable laws, regulations and other requirements and regulatory guidelines applicable to such determination. Each member shall annually certify to CAE Inc. (“CAE” or the “Company”) as to his or her independence, in form compliant with the standards of independence set out by regulatory authorities, stock exchanges and other applicable laws, regulations and requirements. Each member shall be able to read and understand financial statements (balance sheet, income statement, cash flow statement) that present a breadth and level of complexity of accounting issues that are generally comparable to the breadth and complexity of the issues that can reasonably be expected to be raised by CAE’s financial statements, or shall become able to do so within a reasonable period of time after joining the Committee. One member shall qualify as a “financial expert” (as defined by applicable regulation) and therefore have past employment in finance, accounting or any other comparable experience or background providing financial expertise. The Committee composition, including the qualifications of its members, shall comply with the requirements of regulatory authorities, stock exchanges and other applicable laws, regulations and requirements, as such requirements may be amended from time to time.

1.3 The Chair of the Committee and its members shall be elected annually by the Board of Directors following recommendation of the Governance Committee and the Chair of the Board. If the designated Chair of the Committee is unable to attend a Committee meeting, the other Committee members present shall elect a replacement Chair for that meeting.

1.4 A majority of members of the Committee shall constitute a quorum.

1.5 The Committee shall work closely and cooperatively with such officers and employees of CAE, its auditors, and/or other appropriate advisors and with access to such information as the Committee considers to be necessary or advisable in order to perform its duties and responsibilities, as assigned by the Board of Directors and described herein.

2. Review of Audited Financial Statements

2.1 Review the annual audited consolidated financial statements and make specific recommendations to the Board of Directors. As part of this process the Committee should:

   a) Review the appropriateness of the financial statements and any changes to the underlying accounting principles and practices;

   b) Review the appropriateness of estimates, judgments of choice and level of conservatism of accounting alternatives;
c) Review annually with management, external and internal auditors the identification, assessment and resulting mitigation strategy for financial risk, and the input of the integrated risk assessment into the annual audit planning cycle with subsequent quarterly updates by the Chief Financial Officer of any material changes with respect to financial risk assessment;

d) Oversee the review by internal audit of the existence and effectiveness of CAE’s Enterprise Risk Management Policy framework;

e) Approve the annual audited financial statements for the Supplementary Pension, Designated Executive Pension Plan, Employee Pension Plan, CAE MAT Inc. Employees and any other material Canadian pension plans;

f) Approve the annual audited financial statements for the U.S. 401(K) Retirement Savings Plans and other material U.S. pension plans of the Company and its subsidiaries; and

g) Receive the summary of annual actuarial reports for defined benefit pension plans for information purposes.

3. Engagement of External Auditors

3.1 Recommend to the Board of Directors the appointment of the external independent auditor, which shall be accountable to the Board and the Committee as representatives of the shareholders.

3.2 Review and approval of engagement letter. As part of this review the Committee reviews and recommends to the Board of Directors for their approval the auditors’ fees for the annual audit. The Committee shall:

a) Oversee the Company’s auditors’ work in connection with the issuance of the annual audit report and quarterly review reports;

b) Approve the engagement of the external auditors for the audit, any audit-related services, advice with respect to taxation matters and other permitted services and fees for such services, including approval processes for any such service that comply with the requirements of regulatory authorities, stock exchanges and other applicable laws, regulations and requirements, as amended from time to time. Determine envelope for the auditors pre-approved services as to the type of work and dollars threshold. Approve on an ad hoc basis services outside the scope of pre-approved services, if any;

c) Receive of a written statement at least annually from the external auditors describing all relationships between the auditors and CAE that may impact the objectivity and independence of the auditors;

d) Review annually with the Board of Directors the independence of the external auditors and either confirm to the Board of Directors that the external auditors are independent in accordance with applicable listing requirements, laws, regulations and other regulatory guidelines, or recommend that the Board of Directors take appropriate action to satisfy itself of their independence; and

e) Review and approve CAE’s hiring policies regarding partners, employees and former partners and employees of the present and former external auditors of CAE.
4. **Review and Discussion with External Auditors**

4.1 Review with the external auditors and management the annual external audit plans and agenda, including objectives, scope, risk assessments, timing, materiality level and fee estimate.

4.2 Request and review an annual report prepared by the external auditors of recommendations to improve internal controls over financial reporting and corresponding management responses.

4.3 Regarding the auditor’s internal quality-control procedures, review when applicable, material issues raised by the most recent internal quality-control review of the auditors, or by any inquiry or investigation by governmental or professional authorities, within the preceding 5 years, respecting one or more audits carried out by the auditors, and any steps taken to deal with any such issues.

4.4 Hold timely discussions with the external auditors regarding (i) critical accounting policies and practices, (ii) alternative treatments of financial information within generally accepted accounting principles related to material items discussed with management, ramifications thereof and treatment preferred by the external auditor, and (iii) other material written communication between the external auditors and management, including the management letter and schedule of unadjusted differences.

4.5 Meet to review and discuss with the external auditors the annual audited financial statements and quarterly financial statements, including disclosures in management discussion and analysis.

4.6 Meet separately, quarterly, with the external auditors (including the engagement partner).

4.7 Make specific and direct inquiry of the external auditors’ work relating to:

   a) Performance of management involved in the preparation of financial statements;

   b) Any restrictions on the scope of audit work;

   c) The level of cooperation received in the performance of the audit;

   d) The effectiveness of the work of internal audit;

   e) Any unresolved material differences of opinion or disputes between management and the external auditors, and be directly responsible for overseeing the resolution of disagreements between management and the external auditors regarding financial reporting;

   f) Any transactions or activities which may be illegal or unethical; and

   g) Independence of the external auditors, including the nature and fees of non-audit services performed by the external audit firm and its affiliates.

4.8 Provide evaluation and regular feedback to the external auditors.

4.9 Conduct an annual performance assessment of the external auditors.
5. **Review and Discussion with Internal Auditors**

5.1 Review the annual internal audit plan, including assessment of audit risk, planned activities, level and nature of reporting, audit organization and annual budget.

5.2 Periodically review the adequacy and effectiveness of the Company’s disclosure controls and procedures and the Company’s internal controls over financial reporting, including any significant deficiencies and significant changes in internal controls.

5.3 Set and communicate to the Director of Internal Audit high expectations and hold him/her and the department accountable for meeting them. Provide guidance on reported potential management lapses and evaluate the status and implementation of recommendations.

5.4 Meet separately, regularly, with the Director of Internal Audit.

5.5 Make specific and direct inquiry of the internal auditors’ work relating to:

5.6 Any significant recommendations to improve financial, operational and compliance internal controls and corresponding management responses;

5.7 The level of independence of internal audit; and

5.8 Any material disagreement with management or scope or restrictions encountered in the course of the function’s work.

5.9 Concurrent with the review of the annual Internal Audit Plan, discuss goals and evaluate the performance of the Director of Internal Audit.

5.10 Oversee at least once every five years an external review of the internal audit function.

6. **Review and Discussion with Management**

6.1 Review and assess the adequacy and quality of organization, staffing and succession planning for accounting and financial responsibilities (including internal audit).

6.2 Review analyses prepared by management setting forth significant financial reporting issues and judgements made in connection with the preparation of the financial statements, including analyses of the effect of alternative GAAP methods on the financial statements. Such revision should also include:

6.3 Review with management of the effect of regulatory and accounting initiatives, as well as off-balance-sheet structures, on the financial statements of the Company; and

6.4 Review and approve all related-party transactions.

6.5 Discuss with management the annual audited financial statements and quarterly financial statements and the independent auditor, including CAE’s disclosures under Management’s Discussion and Analysis of Financial Condition and Results of Operations (MD&A).
6.6 Review with management the annual performance of external and internal audit and respond to results thereof.

6.6 Review, and have specific oversight responsibility for, CAE’s:
   a) Enterprise risk management policy framework; and
   b) Global Insurance Coverage (including the Director & Officer Plan).

6.7 Review at least annually with management:
   a) IT and Cyber-Security risks and controls;
   b) Capital structure and Treasury appropriateness and efficiency; and
   c) Tax compliance.

7. Review and Discussion with the Human Resources Committee

7.1 On request, provide support to the Human Resources Committee of the Board (“HR Committee”) regarding management incentives and related topics (including compensation and appropriate use of corporate assets).

7.2 Support the HR Committee in its assessment of the incentive structure and whether it contributes to increased fraud or other risks.

8. Review of Public Disclosure Documents

8.1 Review all material public documents relating to CAE’s financial performance, financial position or analyses thereon, including financial statements, MD&A, annual and interim earnings press releases and the Annual Information Form (AIF), prior to their release.

8.2 Review and monitor practices and procedures adopted by the Company to assure compliance with applicable listing requirements, laws, regulations and other rules, and where appropriate, make recommendations or reports to the Board of Directors.

8.3 Discuss CAE’s financial information and earnings guidance provided to analysts and rating agencies.

8.4 Review major issues regarding accounting principles and financial report presentations, including any significant changes in the accounting principles to be observed in the preparation of the accounts of the Company and its subsidiaries, or in their application; major issues as to the Company’s internal controls; and any special audit steps adopted in light of material control deficiencies.

8.5 Prepare/review reports of the Committee as may be required by any applicable securities regulatory authority to be included in the Company’s management proxy circular or any other disclosure documents.

8.6 Review and approve the procedures in the Company’s Disclosure Policy and annually verify that adequate procedures exist for the review of the disclosure of financial information derived from financial statements.
9. Legal and Compliance

9.1 Review, with the Company’s general counsel, legal and compliance matters that could have a significant impact on the Company’s financial statements.

9.2 Review, and have specific oversight responsibility for, CAE’s compliance process in respect of laws of an export control/national security nature, and receive at least annually a report on such compliance from CAE’s general counsel.

10. Handling of Complaints

10.1 Maintain procedures for the receipt, retention and treatment of complaints received by the Company regarding accounting, internal accounting controls or auditing matters, and the confidential, anonymous submission by employees regarding questionable accounting or auditing matters.

11. Annual Review

11.1 Review and assess the adequacy of its mandate annually, report to the Board of Directors thereon and recommend to the Board of Directors (for approval) any proposed changes to its processes, procedures and agendas, as well as this charter.

11.2 Perform an annual evaluation of the performance of the Committee and report to the Chair of the Governance Committee of the CAE Board of Directors thereon.

12. Orientation and Continuing Education

12.1 Identify and participate where appropriate or necessary in continuing Committee education reading and/activities.

13. Other Responsibilities

13.1 The Board may refer from time to time such matters relating to the financial affairs and risk management of the Company as the Board may deem appropriate.

14. Meetings

14.1 The Committee shall meet at such times as deemed necessary by the Board or the Committee and shall report regularly to the Board.

15. Engagement of Professional Services

15.1 The Committee is authorized to engage independent counsel, and other advisers, as it determines necessary to carry out its duties. The Company shall provide for appropriate funding, as determined by the Committee, for such services.