



C A R I C

CONSORTIUM FOR  
AEROSPACE RESEARCH AND  
INNOVATION IN CANADA

CONSORTIUM EN AÉROSPATIALE  
POUR LA RECHERCHE ET  
L'INNOVATION AU CANADA

# 2017-2018 ANNUAL REPORT

WEB VERSION

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Partenaire financier



Innovation, Science and  
Economic Development Canada

Innovation, Sciences et  
Développement économique Canada

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# 1 Introduction

This document is submitted to Innovation, Science and Economic Development Canada (ISED) in accordance with the requirements of the 2014-2019 Contribution Agreement between ISED and the Consortium for Aerospace Research and Innovation in Canada (CARIC), signed in August 2014. It includes the following elements for the year ending March 31st, 2018:

- Achievements with respect to CARIC objectives;
- Program update on research projects;
- Performance report;
- Audited financial statements.

The Financial Statements and this Annual Report were approved unanimously by the Board of Directors on xxx.

## 1.1 Context

### **(Excerpt from CARIC's 2017-2018 Corporate Plan)**

CARIC is in its third year of operation. It has achieved all its targets as described in the previous three Corporate Plans. Given the added value and relevance of CARIC's programming in the aerospace innovation ecosystem, it has seen tremendous uptake which translated in over-subscription. Consequently, as it stands, CARIC has engaged all its resources available to support collaborative R&D projects for its first five-year mandate.

As a result, CARIC, with the support of the AIAC, is seeking to replenish its funding until the end of its mandate. This would enable CARIC to keep its momentum and to continue the full pursuit of its mission. Additionally, CARIC will seek to seize the opportunities that may present themselves in the roll-out of the Innovation Agenda so as to expand, where feasible, its mandate and programming. As well, as laid out in the AIAC Aerospace Innovation think piece, it is suggested to explore how to merge CARIC with the Green Aviation Research & Development Network (GARDN) to build an effective and streamlined Green R&D Aerospace Consortium that would contribute both to the implementation of the Innovation Agenda and its clean technology development priorities.



Hence, there are three scenarios possible for CARIC's fourth year of operations.

1. No further funding is available for projects until 2019. In this case, efforts will be limited to monitoring the progress of the projects within the current portfolio. Network-building efforts will be maintained, but their impact will be limited, because of the inability to support new projects, resulting in a loss of momentum.
2. CARIC funding levels are replenished. In this case, efforts are pursued within the current or modified Contribution Agreement framework.
3. Efforts in exploring opportunities in the roll-out of the Innovation Agenda are generating positive outcomes and enable CARIC to enhance its programming and renew its governance.

This document outlines CARIC's plan for its fourth year of operations. It is based on scenario 2 with provisions for work under scenario 3. In other words, efforts will be focused on effectively executing CARIC operations and either implementing or preparing the advent of an extended CARIC mandate.

## 1.2 CARIC's fourth year of effort

Of the three scenarios which could unfold, it is scenario 1 that materialized. Hence, our ability to start new projects has been severely limited except for some using our private sector funds and partner funding. However, our network-building efforts has continued unabated. CARIC also prepared, in collaboration with GARDN, to define the parameters of a renewed, joint CARIC/GARDN network.

CARIC's network is continuing to expand. On March 2018, 177 research and industry organizations participating to CARIC projects across Canada are members or are in the process of becoming members. In addition, there are 15 organizations that collaborate as Associate member. There are also 20 international partners associated with CARIC projects. Hence, overall, there are 212 organisations formally associated with our activities.



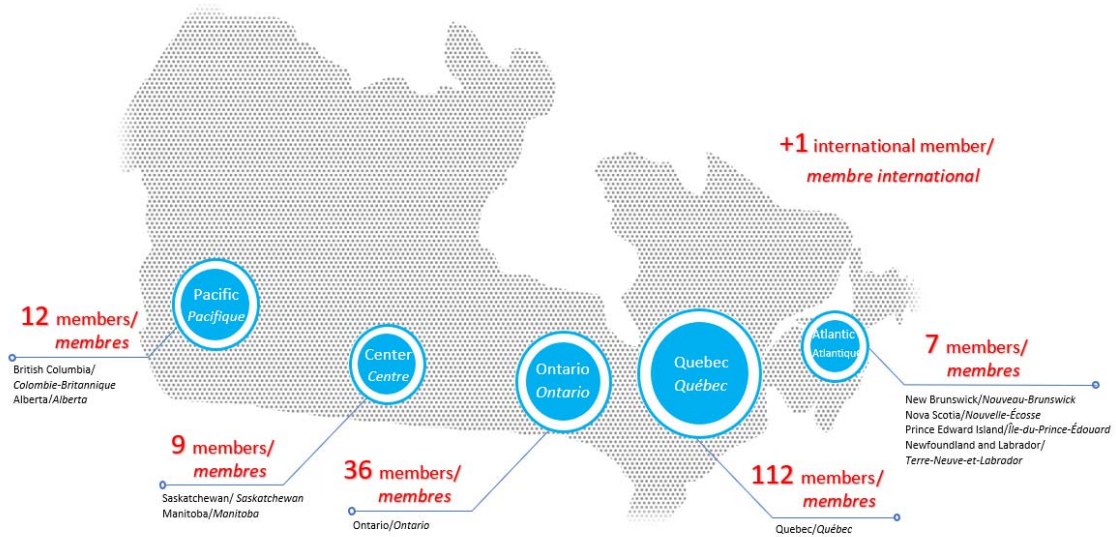


Figure 1 : Research and industry organization members or about to become members across Canada, as of March 31st, 2018

The first three years of operations for CARIC have provided us with a strong start and a strong footing. CARIC now supports or has supported 46 industry-driven projects (including two projects on hold) including 3 international projects from the Canada-EU Coordinated Call for Projects in Aeronautics (Horizon 2020 Program). There are two other international projects outside the CANNAPE framework in our portfolio.

In close collaboration with regional offices, CARIC continues to expand its portfolio of industry driven projects, strongly engages academic institutions for an active participation and fosters collaboration across Canada. In addition to the regular CARIC projects, 13 Aero-Connect projects were approved to date.

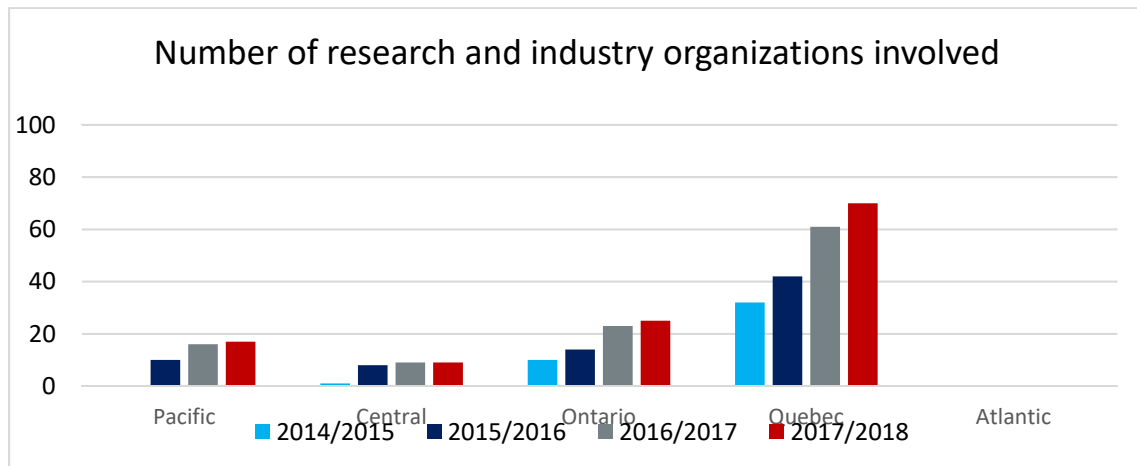


Figure 2 : Research and industry organizations involved in CARIC projects across Canada, as of March 31, 2018



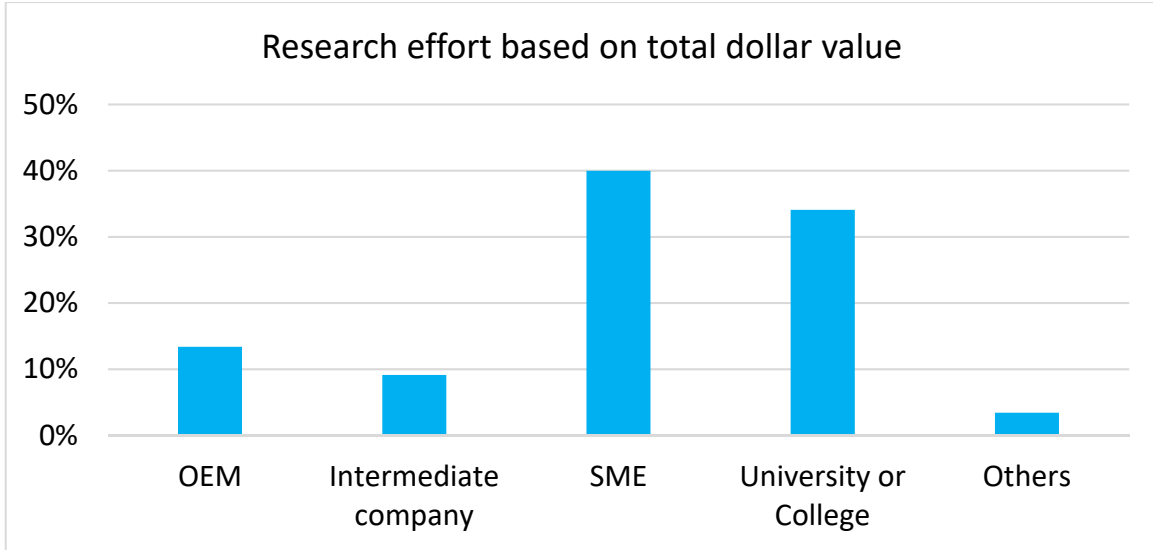


Figure 3 : Type of organisations conducting CARIC research, as of March 31, 2018

For the 44 projects approved, in progress or completed, CARIC leverages funding from industry and other sources such as Green Aviation Research and Development Network (GARDN), the Consortium for the Research and Innovation in Aerospace in Québec (CRIAQ), MITACS, Prompt, the Natural Sciences and Engineering Research Council of Canada (NSERC), IRAP, etc. Investments by international partners are not included in CARIC leveraging. All CARIC’s funds were allocated to projects as of March 31st, 2018. Two of these projects were approved conditionally to CARIC’s renewed funding or new sources of funding.

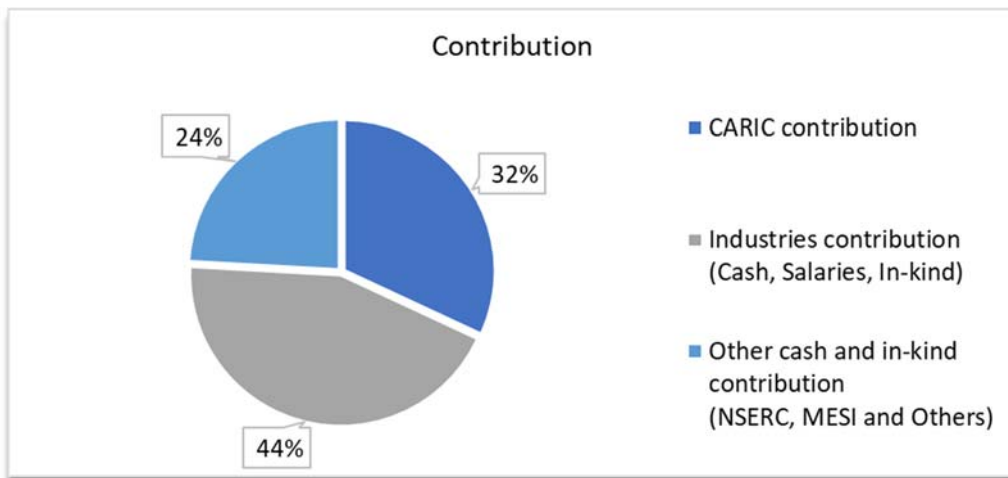


Figure 4 : Contribution for project funding across the CARIC portfolio, as of March 31, 2018



With the involvement of its Board of Directors, CARIC has revisited its long-term strategy including fixing long-term goals, developing a strategy for SME engagement and specific initiatives towards Defense & Security sector.

To generate and foster dialogue and collaboration between stakeholders in the aerospace industry, CARIC is an active player within the AIAC Technology Innovation Committee and is a member of GARDN board of directors. To secure a long-term partnership with ISED, CARIC and GARDN also joined their forces to elaborate a joint renewal strategy. CARIC is also working in partnership with the AIAC to ensure the alignment of its activities and objectives with relevant federal government departments and agencies.

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*CARIC's mission*

*Generate and foster dialogue and collaboration between players in the aerospace industry.*

*Provide financial support to launch R&D projects in partnership with these players.*

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## 2 Objectives

The CARIC objectives as listed in the Contribution Agreement are:

1. Strengthen the competitiveness of Canada's aerospace industry.
2. Accelerate the pace of technology development.
3. Benefit from International Collaboration.
4. Increase private sector investment in R&TD.
5. Develop the pool of highly qualified personnel in Canada.
6. Provide students with industry-relevant skills and expertise.





## 2.1 Results vs planned activities

Table 1 lists the activities planned in our annual Corporate Plan and the results achieved. As mentioned before, those items marked with an asterisk are the ones difficult to achieve under the aforementioned scenario 1.

**TABLE 1 : Results vs planned activities**

<b>Planned Activities</b>	<b>Anticipated Results</b>	<b>Results (on March 31st, 2018)</b>
Hold Committees of the Board meetings	2 Board of Directors meetings 4 Executive Committee meetings 1 General Assembly meeting	Governance meetings were held, with minutes of meetings documented and signed:  2 Board of Directors meetings 3 Executive Committee meetings 1 General Assembly meeting
Hold regional workshops, network meetings and events	15 Regional workshops and events	At least one regional workshop or network meeting was held in each region, including, but not limited to: <ul style="list-style-type: none"> <li>• Head Office with the collaboration of the Pacific Office: Vancouver «CARIC National Forum 2017»</li> <li>• Central, Winnipeg: «2Q Manitoba Aerospace R&amp;T», «Manitoba/Saskatchewan R&amp;D Forum», «3Q Manitoba Aerospace R&amp;T»</li> </ul>



Planned Activities	Anticipated Results	Results (on March 31st, 2018)
		<ul style="list-style-type: none"> <li>• Ontario, Toronto: in partnership with OAC 3rd Annual «Beyond the Barriers R&amp;T Event»</li> <li>• Québec, Montréal: «Co-Design Aérospatiale numérique» and 3 RDV Network</li> </ul> <p>Atlantic, Halifax: «Thales Research and Technology connectors», CARIC Connector @ DEFSEC</p> <p>More than 10 regional network meetings were held.</p> <p>In addition, CARIC staff took part in many activities and events where they promoted CARIC.</p> <p>Most of these activities are listed in Appendix VIII.</p>
Participate in outreach events	<p>Main targeted events:</p> <p>National CARIC Forum, CANSEC, AIAC Summit, ADSE, Le Bourget, DEFSEC, Best Defence.</p>	<p>CARIC staff took part in many national and international activities and events where they promoted CARIC.</p> <p>Most of these activities are listed in Appendix VIII.</p>
CARIC National Forum	<p>Hold CARIC National Forum, prior to ADSE and CBAA in Vancouver (August 2017)</p>	<p>CARIC 3<sup>rd</sup> National Research Forum in Vancouver was held in August 8 and 9, 2017 with 350 attendees. The main highlights were:</p> <ul style="list-style-type: none"> <li>• Federal Senior Executive Panel Presentations on the Aerospace Sector in light of the Innovation</li> </ul>



Planned Activities	Anticipated Results	Results (on March 31st, 2018)
		<p>Agenda and New Perspectives (super-clusters)</p> <ul style="list-style-type: none"> <li>• Aerospace positioning Roundtables</li> <li>• Technical Sessions: Understanding Today and Building Tomorrow. The Main themes were:               <ul style="list-style-type: none"> <li>✓ MRO;</li> <li>✓ UAV;</li> <li>✓ Space;</li> <li>✓ Energy.</li> </ul> </li> </ul>
Select and launch CARIC National projects*	10 Approved regional projects	<p>Achieved but hampered by lack of project funding. Results achieved with private funding and partner funding:</p> <p>7 AeroConnect projects approved (Ontario and Atlantic)</p> <p>5 research projects approved:</p> <ul style="list-style-type: none"> <li>• 3 Low TRL projects</li> <li>• 2 Mid-TRL projects (partner funding)</li> </ul>
International Projects*	<p>Sign at least one new project with an international partner</p> <p>Discuss collaboration with at least one partner in the USA</p>	<p>Not achieved because of a lack of project funding.</p> <p>Discussions with</p> <ul style="list-style-type: none"> <li>• Parker Aerospace, Textron, Penn state University (ENV-605)</li> <li>• Insitu (ENV-1656)</li> <li>• Meeting with Retlif Testing Laboratories</li> </ul>



Planned Activities	Anticipated Results	Results (on March 31st, 2018)
Brokering Services*	Approve at least one project under a program different than the CARIC Program	Hampered by lack of funding. Result achieved using partner funding:  ENV-1656 (project on hold) has been redirected, with CARIC's support, to Mitacs for a phase 1 funding.
Intersectoral opportunities*	Approve at least one project co-funded with a consortium in another field than aerospace	Not achieved because of a lack of project funding.
Defence market and procurement	Sign at least one new project linked to the defence market	Not achieved because of a lack of project funding.  Defence program IDEAS has been promoted among our members.
Recruit members from industry and academia	12 targeted new members	26 new members total, including: ✓ 20 new industries ✓ 6 new academia and research centers
Performance indicators	<ul style="list-style-type: none"> <li>• Implement the current measurement system</li> <li>• Document CARIC success stories, by showcasing 2 or 3 projects</li> </ul>	Current metrics used described in Section 6  Project AUT-703 Mobilizing project: Medium-sized VTOL UAV led by Laflamme aero and ENV-1601 Next Generation Combustor for Small Gas Turbine Engines (joint project with GARDN) showcased at Joint CRIAQ CARIC Forum in April 2018



Planned Activities	Anticipated Results	Results (on March 31st, 2018)
Identify new sources of funding	<ul style="list-style-type: none"> <li>• Launch discussions with other national organizations to promote partnerships with other provinces</li>   <li>• Sign at least 1 agreement with a new funding partner</li>   <li>• Approve at least 1 project supported with a new partner</li> </ul>	<p>Discussion initiated with:</p> <ul style="list-style-type: none"> <li>• Next-Gen Manufacturing Canada supercluster</li> <li>• Scale AI supercluster</li> <li>• Canada’s digital technology supercluster</li> </ul> <p>Not achieved because of a lack of project funding. Discussions held and on-going with the EU for joint projects.</p> <p>Not achieved because of a lack of project funding.</p>
CARIC’s National S&T Strategy	<ul style="list-style-type: none"> <li>• Launch a national exercise to map key S&amp;T priorities</li> <li>• Deliver an interim report on the subject by the end of the fiscal year 2017-2018</li> </ul>	<p>CARIC Board of Directors decided to postpone that exercise because of uncertainty in future funding. However, CRIAQ conducted the exercise and the results are available to CARIC if and when required</p>
CARIC/CASI collaboration	<ul style="list-style-type: none"> <li>• Define the terms of the collaboration</li> </ul>	<ul style="list-style-type: none"> <li>• A memorandum of understanding was signed on May 2017 between CARIC and CASI.</li> </ul>



<b>Planned Activities</b>	<b>Anticipated Results</b>	<b>Results (on March 31st, 2018)</b>
	<ul style="list-style-type: none"><li>• Participate in the 2017 CASI Conference</li></ul>	<ul style="list-style-type: none"><li>• CARIC participated to CASI AERO 2016: 63rd Aeronautics Conference</li></ul>
Communications Plan	<ul style="list-style-type: none"><li>• Deploy 90% of the 2017-2018 communications plan</li><li>• Review and produce new promotional material for CARIC</li></ul>	<ul style="list-style-type: none"><li>• Objectives are achieved, the communications plan generated additional visibility (medias and event)</li><li>• Promotional material has been updated.</li></ul>



## 2.2 Planned activities in light of an extended CARIC program (Scenario 3)

Provided an extended CARIC programming is possible, the following priority activities may take place. If Extended CARIC (scenario 3 (Point 1.1, page 1)) is not confirmed, work on these items will take place to prepare approval.

OBJECTIVES	ANTICIPATED RESULTS	Results (on March 31st, 2018)
Contribution Agreement	Negotiate and sign the new Corporate Agreement with ISED	Not done since CARIC was not renewed
Blue-Sky Program	<ul style="list-style-type: none"> <li>• Define the parameters of the program</li> <li>• Determine the way to generate and evaluate projects</li> <li>• Discuss with NSERC how to leverage respective engagements</li> <li>• Approve at least one project</li> </ul>	Preliminary work has been done by CARIC, GARDN and AIAC to prepare for a renewal under SIF Stream 4. A document, modelled on the Stream 4 call for bio-sciences has been prepared, but not made public for proprietary reasons.
Mini-TDP Program	<ul style="list-style-type: none"> <li>• Define the parameters of the program</li> <li>• Determine the way to generate and evaluate projects</li> <li>• Approve at least one project</li> </ul>	
Green Aviation Program	<ul style="list-style-type: none"> <li>• Define, in conjunction with GARDN, the parameters of a Green Aviation Program</li> </ul>	
Governance	<ul style="list-style-type: none"> <li>• Determine how to best join GARDN and CARIC together</li> <li>• Define the new CARIC governance</li> <li>• Implement the new CARIC governance</li> </ul>	
Federal Government Innovation Agenda	<ul style="list-style-type: none"> <li>• Participate in the development of at least one initiative resulting from the Innovation Agenda</li> </ul>	Participated in the development of the MOST21 proposal.



## 2.3 Risk assessment and mitigation strategies

The following table presents identified risks and corresponding mitigation strategies.

**TABLE 2 : Risk Assessment and mitigation strategies**

<b>Risks Assessment</b>	<b>Mitigation Strategies</b>	<b>Comments (on March 31st, 2018)</b>
Atlantic - Dispersed efforts lead to difficulties of mobilization and lack of project emergence	This risk remains high. Execute a focused regional engagement plan for decision makers with industry, government, regional associations and academia, and careful nurturing of emerging projects.	<ul style="list-style-type: none"> <li>• Discussions and collaboration initiated with Atlantic Canada Aerospace and Defence Association (ACADA) and Atlantic Canada Opportunities Agency (ACOA) will help mobilization.</li> <li>• New academic members have joined CARIC.</li> </ul>
Quebec - Decrease of the provincial financial support	Very low. The Quebec government has increased CRIAQ's budget.	<ul style="list-style-type: none"> <li>• This risk has not materialised.</li> </ul>
Ontario - Lack of projects led by the Ontarian community, in comparison to Ontario's participation in CARIC program	Medium risk. Our new regional director is using a more proactive approach to raise projects. Close work is planned with OAC R&T Committee leaders.	<ul style="list-style-type: none"> <li>• OAC R&amp;T Committee well established. Tangibly exercising leadership in promoting CARIC projects and network.</li> <li>• New regional director has joined the CARIC team and has made very good progress toward helping define CARIC projects and attract new members.</li> </ul>





<b>Risks Assessment</b>	<b>Mitigation Strategies</b>	<b>Comments (on March 31st, 2018)</b>
Central - Lack of identification of technological development opportunities with new partners	Medium risk. The number of partners within the high-tech community involved in aerospace is relatively small. Organize events aiming to stimulate new connections and opportunities to exploit the available talent and assets to the greatest extent possible.	<ul style="list-style-type: none"> <li>• The Manitoba Aerospace Technology Roadmap was developed.</li> <li>• CARIC was present and took part in discussions with the oil and gas industry sector representatives at Convergenx</li> </ul>
Pacific - Lack of engagement of Alberta-based stakeholders, industry and academia	High risk. Connect with leaders from Alberta and develop a project-based approach to build aerospace R&D new possibilities. Attempts have led to limited success. CARIC will participate in ConvergenX in Alberta in February so as to assess opportunities to expand CARIC's footprint.	<ul style="list-style-type: none"> <li>• CARIC has a new member from Alberta involved in a project.</li> <li>• Strong mobilization of various stakeholders at UBC Okanagan Campus.</li> </ul>
Lack of connections between scientific and technological organizations in other sectors (ICT, Electrical Power, etc.) and aerospace industry users to support intersectoral projects	Medium risk. Engage partner entities, proactively, to identify key leaders in communities of interest and jointly develop connecting activities.	<ul style="list-style-type: none"> <li>• Collaboration and co-funding project with Prompt, a consortium which supports the development and financing of collaborative R&amp;D on numerical technologies in Quebec.</li> <li>• Progress on this has been hampered by lack of funding.</li> </ul>
Misalignment of regions with the Canadian Aerospace Technology Roadmap and priorities	Low risk. Ensure strong links and liaison between Ottawa office with AIAC Technology Committee and CARIC head office and Regional Directors	<ul style="list-style-type: none"> <li>• This risk did not materialised.</li> </ul>



<b>Risks Assessment</b>	<b>Mitigation Strategies</b>	<b>Comments (on March 31st, 2018)</b>
Resources constraints for standing up of the Extended CARIC (if approved) in addition to running the current program	Medium risk. The strategic importance of this being high, priority will be assigned to this topic. Time freed from this year's strategic planning should suffice to perform these tasks.	<ul style="list-style-type: none"> <li>Resources devoted to defining the key characteristics of an Extended CARIC, in collaboration with GARDN.</li> </ul>
Revisal of governance due to the new CARIC-GARDN proximity	Low risk. The two networks will establish ways to effectively join forces, with the advent of Extended CARIC.	
Ramp-up of the new programs under Extended CARIC (if approved)	Medium risk. If Extended CARIC is approved as requested, there is a risk that the Blue-Sky and mini-TDP programs do not spend their full allocation in the first year. The parameters for these programs are being defined; the team is well aware of their intent and should be ready to solicit proposals as soon as approval is granted.	<ul style="list-style-type: none"> <li>Extended CARIC did not materialised</li> </ul>



### 3 Projects

During CARIC forums and workshops, industry members are invited to suggest collaborative research projects based on their technological and business needs, as well as on the challenges they face. Technology providers (academia and research centres) then propose projects that address these needs. Forums and workshops focus exclusively on project idea generation and follow an open innovation approach. In 2017-2018, 14 regional forums and workshops were held.

After each forum or workshop, research teams are formed and the project formulation process (funding application, supporting documentation, agreement signature, etc.) begins.

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*Projects are selected according to a specific framework. Hence, the CARIC Program is based on programmatic guidelines, assessment criteria guidelines and financial guidelines. Project evaluation is under the responsibility of the CARIC Scientific Committee (Appendix III lists its members).*

*Certain projects may be considered as being outside of CARIC's framework. The Scientific Committee may then decide to recommend these projects to the Board, which makes a final decision. When projects involve other sources of funding, they may have to undergo evaluation by respective organizations. The CARIC Program Framework along with optimized funding scenarios are explained in Appendix X*

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CARIC supports R&TD projects that are in the early to mid- phases of the innovation cycle. Projects can be grouped into four broad categories:

#### **Understanding Technology**

Understanding Technology refers to applied pre-competitive research at technology readiness levels of 2 or 3. They are mostly university-delivered and are considered Low-TRL Projects.



## Maturing Technology

Maturing Technology consists in technology demonstrations at TRLs ranging from 4 to 6. These projects are referred to as Mid-TRL Projects.

## International projects

A coordinate call for projects with the European Union was launched during 2014- 2015. In 2015- 2016, three international projects were selected and signed before March 31, 2016. These projects are also known as CANNAPE or international projects. There are four other international projects outside CANNAPE framework in our portfolio.

## Aero-Connect

Aero-Connect is meant to develop and support first collaborations between academia and industries in aerospace research. The AeroConnect program allows CARIC members to benefit from additional funding (10k\$) when an NSERC Engage grant (25 k\$) is awarded. The Aero-Connect Program lasts a maximum of six months and focuses on technologies ranging between TRLs 1 to 4. The Aero- Connect program is supported with the membership fees.

The following tables list projects approved. Project sheets containing detailed information are provided in Appendix XI.

All CARIC's funds were allocated to projects and on March 31, 2018, 2 projects were approved with the condition to renew CARIC's funding or find new sources of funding.

**TABLE 3 : Summary – Projects approved during fiscal year 2017-2018**

	Number of Approved projects	Total project value	CARIC contribution	Industries contribution (Cash, Salaries, In-kind)	Other cash contribution (NSERC, Quebec and Others)	CARIC's Leverage
Low-TRL projects	3	\$4,885,109.15	\$79,171.00	\$1,723,741.00	\$2,167,889.00	1:61.7
Mid-TRL projects	2	\$7,876,771.50	\$0.00	\$5,198,171.00	\$2,462,305.00	N/A
<b>Total</b>	<b>5</b>	<b>\$12,761,880.65</b>	<b>\$79,171.00</b>	<b>\$6,921,912.00</b>	<b>\$4,630,194.00</b>	<b>N/A</b>

Includes 2 Mid-TRL projects approved during the year that are CRIAQ projects in which CARIC members are involved (no CARIC contribution)



TABLE 4 : Projects approved since CARIC'S creation, on March 31, 2018

	Number of Approved projects	Total project value	CARIC contribution	Industries contribution (Cash, Salaries, In-kind)	Other cash contribution (NSERC, Quebec and Others)	CARIC's Leverage	Other In-Kind contribution
Low-TRL projects	12	\$12,272,023	\$527,764	\$4,413,516	\$5,419,901	01:23.3	\$1,910,842
Mid-TRL projects (2 on hold)	29	\$57,975,099	\$21,857,099	\$27,803,984	\$6,375,479	01:02.6	\$1,938,537
International projects (Canadian's Part)	5	\$7,629,446	\$2,476,419	\$2,020,699	\$2,056,760	01:03.1	\$1,075,568
- Other International projects	2	\$2,956,834	\$751,939	\$771,911	\$1,012,310	01:03.9	\$420,674
- CANNAPE	3	\$4,672,612	\$1,724,480	\$1,248,788	\$1,044,450	01:02.7	\$654,894
<b>Total</b>	<b>46</b>	<b>\$77,876,568</b>	<b>\$24,861,282</b>	<b>\$34,238,199</b>	<b>\$13,852,140</b>	<b>01:03.1</b>	<b>\$4,924,947</b>
<b>Total (projects on hold excluded)</b>	<b>44</b>	<b>\$68,208,813</b>	<b>\$20,629,852</b>	<b>\$29,826,769</b>	<b>\$13,074,806</b>	<b>01:03.3</b>	<b>\$4,677,386</b>

Includes 2 Mid-TRL projects approved during the year that are CRIAQ projects in which CARIC members are involved (no CARIC contribution)



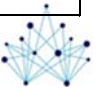
TABLE 5 : Approved Low-TRL projects since CARIC'S creation

Project Number	Project Title	Project Status	Duration	Total project value	CARIC contribution	Industries contribution (Cash, Salaries, In-kind)	Other cash contribution	Other In-Kind Contribution	Approval Date (CSc/EC)	Agreement Signature date
AVIO-707	Technologies for Reconfigurable antennas used in Satellite and Terrestrial Links (TRUST)	In progress	3	\$862,476	\$60,000	\$300,000	\$389,979	\$112,497	2015-02-27	2016-01-11
ENV-1605	Cabin Noise Modeling	In progress	3	\$1,097,100	\$19,520	\$360,000	\$574,480	\$143,100	2017-06-05	2018-02-19
ENV-702	Low Power De-icing Systems for Light Weight Helicopters	In progress	3	\$1,122,978	\$73,650	\$424,125	\$478,728	\$146,475	2014-11-28	2016-01-13
ENV-708	Optimisation of Fireproof, Pressurized Acoustic Sandwich Structures	In progress	3	\$954,181	\$58,680	\$350,000	\$388,020	\$157,481	2014-11-28	2016-02-03
ENV-709	Magneto-Rheological Fluid (MRF) Characterization, Optimization and Condition Monitoring for Aircraft Flight Control Actuators	In progress	4	\$1,150,230	\$80,080	\$400,000	\$520,120	\$150,030	2014-11-28	2015-09-09
ENV-715	Development and Evaluation of Noise Measurement Techniques in Low- and High-Speed Wind Tunnel	In progress	3	\$353,645	\$28,087	\$138,650	\$140,780	\$46,128	2014-11-28	2015-10-05
MANU-1615	Additive manufacturing assemblies comparison	In progress	3	\$775,675	\$0	\$299,500	\$375,000	\$101,175	2016-11-14	2018-01-22
MANU-1625	Surface finish, tolerances and design of metallic AM components	In progress	3	\$574,172	\$39,600	\$200,000	\$259,680	\$74,892	2017-02-16	2018-01-23
MANU-1708	Additive Manufacturing of Aerospace Components – II	In preparation	3	\$1,466,486	\$20,675	\$550,030	\$704,500	\$191,281	2017-09-18	
MANU-711	Advanced thermal protection coatings	In progress	3	\$603,664	\$38,970	\$232,500	\$253,455	\$78,739	2014-11-28	2015-12-11
MDO-710	Next-Generation of Massively Parallel High-Fidelity Computational Fluid Dynamics	In progress	3	\$989,892	\$69,526	\$345,000	\$446,250	\$129,116	2014-11-28	2016-01-27
OPR-1618	Evaluate and Improve Student Trainee Performance Using Biometrics	In progress	3	\$2,321,523	\$38,976	\$813,711	\$888,909	\$579,927	2017-04-27	2018-03-08
<b>Total</b>	<b>Low-TRL projects</b>			<b>\$ 12,272,023</b>	<b>\$ 527,764</b>	<b>\$ 4,413,516</b>	<b>\$ 5,419,901</b>	<b>\$ 1,910,842</b>		



TABLE 6 : Approved Mid-TRL Projects since CARIC'S creation

Project Number	Project Title	Project Status	Duration	Total project value	CARIC contribution	Industries contribution (Cash, Salaries, In-kind)	Other cash contribution	Other In-Kind contribution	Approval Date (CSc/EC)	Agreement Signature date
AUT-1629_TRL4+	HUMANIT3D / SwarmNet : An advanced mobile situational awareness ecosystem with UAV integration for austere environments	In progress	2	\$3,216,050	\$1,393,728	\$1,440,648	\$286,000	\$95,674	2016-09-08	2017-03-31
AUT-703_TRL4+	MOBILIZING PROJET : Medium-sized VTOL UAV	Completed	2	\$2,317,675	\$1,105,922	\$1,105,922	\$84,000	\$21,831	2015-02-27	2015-06-12
AVIO-1503_TRL4+	Active haptic trim actuators for rotorcraft applications	In progress	2	\$3,304,100	\$1,602,000	\$1,665,500	\$0	\$36,600	2015-12-04	2016-03-21
AVIO-1601_TRL4+	Degraded Visual Environment Navigation Support (DVENS)	In progress	2	\$749,798	\$328,484	\$328,486	\$0	\$92,828	2016-09-08	2017-03-31
AVIO-1603_TRL4+	Cosmic radiation In-flight Measurement and real-time analysis for Electronic Systems and passenger protection (CIMES)	In progress	2	\$758,538	\$328,556	\$328,556	\$85,175	\$16,251	2016-11-14	2017-03-31
AVIO-718_TRL4+	Active haptic sidestick for aircraft applications	Completed	1	\$255,570	\$126,575	\$126,575	\$0	\$2,420	2015-02-27	2015-09-08
COMP-1601_TRL4+	Complex composite structure multifunction for aerospace	In progress	2.5	\$1,802,735	\$665,967	\$665,967	\$390,234	\$80,567	2016-06-08	2016-07-27
COMP-1602_TRL4+	Natural Laminar Flow Nacelle Lip in Composite	In progress	3	\$3,824,275	\$1,696,795	\$1,696,795	\$319,155	\$111,530	2016-10-06	2017-03-31
COMP-709_TRL4+	CCM10: Design and Technology Development of Optimized Composite Aircraft Structures Using Knowledge Based Iterations	In progress	2.2	\$2,626,499	\$1,020,000	\$1,070,580	\$188,623	\$347,296	2015-06-05	2016-03-03
DPHM-702_TRL4+	Diagnostic and Prognostic system for aircraft systems	Closed	2	\$1,835,402	\$910,320	\$910,320	\$0	\$14,762	2015-02-17	2015-03-26
DPHM-711_TRL4+	Evaluation of Advanced Fusion Welding Technologies in the Structural Repair of Aluminium and Magnesium Alloys	In progress	2	\$1,472,978	\$687,322	\$757,071	\$0	\$28,585	2015-12-04	2016-03-29
ENV-1601_TRL4+	Next Generation Combustor for Small Gas Turbine Engines	In progress	2	\$1,425,800	\$702,760	\$715,240	\$0	\$7,800	2016-04-07	2017-03-27
ENV-1656_TRL4+	Hydrogen Storage and Fuel Cell for UAV integration	ON HOLD	2	\$6,059,817	\$2,620,900	\$2,800,900	\$454,667	\$183,350	2017-02-16	
LEAN-702_TRL4+	Machined Part Multifactorial Estimation Demonstrator	In progress	3	\$1,402,046	\$639,212	\$639,212	\$58,667	\$64,955	2015-02-27	2016-03-11
MANU-1613_TRL4+	Manufacturing of A205 components	In progress	3	\$2,012,362	\$863,675	\$863,673	\$203,526	\$81,488	2016-11-14	2017-03-31
MANU-1622_TRL4+	Robotic Liquid Polymer Transformation	In progress	1.5	\$951,784	\$312,610	\$404,289	\$189,607	\$45,278	2016-11-14	2017-03-02



Project Number	Project Title	Project Status	Duration	Total project value	CARIC contribution	Industries contribution (Cash, Salaries, In-kind)	Other cash contribution	Other In-Kind contribution	Approval Date (CSc/EC)	Agreement Signature date
MANU-1707_TRL4+	Creation of demonstrating strategies of hybrid conception and manufacturing for aerospace tooling	In preparation	3	\$1,260,367	\$0	\$442,781	\$742,305	\$75,281	2017-12-14	
MANU-1712_TRL4+	Automated Visual Inspection, Sentencing & Dressing for Aerospace Components	In progress	3	\$6,616,405	\$0	\$4,755,390	\$1,720,000	\$141,015	2017-10-04	2018-03-31
MANU-706_TRL4+	Low CTE aluminum alloy for space HW material properties and processing	In progress	2	\$349,514	\$135,755	\$135,755	\$62,012	\$15,992	2015-06-05	2016-03-04
MANU-710_TRL4+	AAMI - Aerospace Additive Manufacturing Initiative	In progress	2	\$1,556,444	\$693,818	\$693,900	\$67,500	\$101,226	2015-02-27	2016-03-31
MANU-721_TRL4+	Thermal and surface treatments on parts Inconel 625® produced by Additive Manufacturing	Completed	2	\$780,851	\$377,623	\$377,624	\$0	\$25,604	2014-11-28	2015-03-31
MANU-724_TRL4+	Complex Integrated Composites Assemblies for Aero-Engine Shrouds	Completed	2	\$764,684	\$318,238	\$370,000	\$51,762	\$24,684	2015-09-10	2016-02-12
MDO-1601_TRL4+	Wingbox Multi-Disciplinary Optimization Platform	In progress	2.5	\$3,699,828	\$1,550,838	\$1,699,539	\$380,200	\$69,251	2016-04-07	2017-01-31
MDO-1649_TRL4+	Augmented reality immersive simulation for flight deck design and evaluation.	In progress	2	\$1,233,219	\$490,421	\$513,682	\$195,380	\$33,736	2016-11-14	2018-03-29
MDO-1650_TRL4+	Wide Area Monitoring System	In progress	1.5	\$1,442,346	\$610,381.01	\$620,382	\$176,000	\$35,583	2017-02-16	2017-08-16
MDO-1704_TRL4+	Advanced Earth Observation Imaging, Processing and Exploitation Technologies	ON HOLD	2.5	\$3,607,938	\$1,610,530	\$1,610,530	\$322,667	\$64,211	2017-02-16	
MDO-714_TRL4+	Application of Advanced Earth Observation Technologies	In progress	1.5	\$1,380,659	\$598,696	\$598,695	\$157,000	\$26,268	2015-10-06	2016-03-31
OPR-706_TRL4+	Measuring pilot fatigue to manage pilot performance	Closed	1.5	\$612,578	\$267,010	\$267,010	\$51,333	\$27,225	2015-06-05	2015-07-16
PLE-P-1652_TRL4+	Adapting Wearable Technology to Monitor Pilot Fatigue	In progress	1.5	\$654,840	\$198,963	\$198,962	\$189,666	\$67,249	2016-11-14	2017-03-01
<b>Total</b>	<b>Mid-TRL projects</b>			<b>\$ 57,975,099</b>	<b>\$ 21,857,099</b>	<b>\$ 27,803,984</b>	<b>\$ 6,375,479</b>	<b>\$ 1,938,537</b>		
<b>Total</b>	<b>Mid-TRL projects, projects on hold excluded</b>			<b>\$ 48,307,344</b>	<b>\$ 17,625,669</b>	<b>\$ 23,392,554</b>	<b>\$ 5,598,145</b>	<b>\$ 1,690,976</b>		

Nb: Includes 2 Mid-TRL projects approved during the year that are CRIAQ projects in which CARIC members are involved (no CARIC contribution)





TABLE 7 : Approved International Projects since CARIC'S creation

Project Number	Project Title	Project Status	Duration	Total project value	CARIC contribution	Industries contribution (Cash, Salaries, In-kind)	Other cash contribution	Other In-Kind contribution	Approval Date (CSc/EC)	Agreement Signature date
EUCA-AMOS	Additive Manufacturing Optimization and Simulation Platform for repairing and re-manufacturing of aerospace components – AMOS	In progress	4	\$1,463,950	\$481,000	\$472,000	\$320,000	\$190,950	2015-09-01	2016-03-31
EUCA-EPICEA	Electromagnetic Platform for lightweight Integration/Installation of electrical systems in Composite Electrical Aircraft	In progress	3	\$1,960,565	\$755,180	\$380,786	\$523,450	\$301,149	2015-09-01	2016-01-31
EUCA-PHOBIC2ICE	Super-IcePhobic Surfaces to Prevent Ice Formation on Aircraft (PHOBIC2ICE)	In progress	3	\$1,248,097	\$488,300	\$396,002	\$201,000	\$162,795	2015-09-01	2016-01-31
	<b>Sub-Total : CANNAPE projects</b>			<b>\$ 4,672,612</b>	<b>\$ 1,724,480</b>	<b>\$ 1,248,788</b>	<b>\$ 1,044,450</b>	<b>\$ 654,894</b>		
COMP-1633_INTL	Flame retardant FRP systems for aircraft interior applications	In progress	3	\$1,290,651	\$300,257	\$350,228	\$471,820	\$168,346	2016-11-14	2017-10-26
ENV-1648_INTL	New Acoustic Insulation Meta-Material Technology for Aerospace	In progress	3	\$1,666,183	\$451,682	\$421,683	\$540,490	\$252,328	2016-11-14	2018-01-22
	<b>Sub-Total : Other International projects</b>			<b>\$ 2,956,834</b>	<b>\$ 751,939</b>	<b>\$ 771,911</b>	<b>\$ 1,012,310</b>	<b>\$ 420,674</b>		
<b>Total</b>	<b>INTL projects</b>			<b>\$ 7,629,446</b>	<b>\$ 2,476,419</b>	<b>\$ 2,020,699</b>	<b>\$ 2,056,760</b>	<b>\$ 1,075,568</b>		



## 4 Governance & operations

CARIC's governance is based on its by-laws. Its governance is meant to ensure a strong presence of large and small industries, university and college academic partners, research centers, government and other aerospace organizations. Appendices II to V list CARIC's Committee members.

CARIC's Head Office is in Montreal where managerial, technical and administrative resources are contracted and shared with CRIAQ. With the help of existing provincial associations, regional offices are operating in Vancouver, Winnipeg, Toronto and Halifax. A national director is based in Ottawa. Appendix VII presents the Organizational Chart.

CARIC's President & CEO, Denis Faubert, combines his duties with his role as President and CEO of CRIAQ. The intent of this synergy is to achieve operational efficiency by sharing experienced staff and administrative systems. CRIAQ has a proven track record of sixteen years of operation and is repeatedly cited in Canada and abroad as an example of a successful collaborative R&TD consortium.

## 5 Financial statements

### 5.1 CARIC's audited financial statements

The financial statements for the fiscal year 2017- 2018 have been prepared by Ernst & Young and approved by the members of the Board of Directors at the meeting held on September 12, 2018. They are presented in Appendix XII and include:

- The independent Auditor's Report
- The Statement of Operations
- The Statement of Changes in Fund Balances
- Statement of Cash Flows
- Supplementary Information
- Note to Financial Statements



## 5.2 Statement of eligible expenditures

Expenditures for Operation and Administration totaled \$2,195,317. The portion allocated to Administration Expenditures is \$407,924.

Over the same period, operating and Administration expenditures, totaling \$229,280 (taxes paid, contingency fees and miscellaneous) and \$48,891 (Aero-Connect projects) are ineligible expenses. They are being covered by CARIC private funds.

The part of CARIC eligible contribution to research projects totaled \$3,299,209, this year, and \$15,801,851 since CARIC's creation in 2014. CARIC's commitments for future expenses for approved research projects is \$4,885,047. The total amount of the eligible CARIC contribution to research projects allocated so far is \$20,702,933. The excess over the 20M\$ allocated by ISED comes from savings in operations funds and private funds.

## 5.3 Statement of total funding

During fiscal year 2017 - 2018, revenue from membership fees totaled \$303,614 and \$754,071 since CARIC's creation in 2014.

## 5.4 Statement of remuneration

CARIC has no staff per se. Staff, administrative charges, supplies and equipment are contracted to well- established local organizations.

In accordance with the Services Agreement, Mr. Denis Faubert, CARIC's CEO, is the only person paid for a total remuneration exceeding \$100,000. CARIC's portion of the contract includes benefits and insurances for a total of \$141,137.



## 6 Performance measurement

The following table presents a list of indicators and results on March 31, 2018.

**TABLE 8 : Indicators**

Indicators	2017-2018	Note
Number of CARIC members - Industry	105	A
Number of CARIC members – Academia*	47	
Number of CARIC members - Associate	15	
Number of CARIC members - Atlantic Region	6	
Number of CARIC members - Quebec Region	107	
Number of CARIC members - Ontario Region	31	
Number of CARIC members - Central Region	10	
Number of CARIC members - Pacific Region	12	
Number of activities, conferences and workshops supported by CARIC	15	B
Overall attendance to CARIC activities	1120	
Number of proposals submitted for evaluation - Low-TRL projects	2	
Number of proposals submitted for evaluation - Mid-TRL projects	3	
Number of proposals submitted for evaluation - International projects	0	
Number of projects selected during the fiscal year- Low-TRL projects	3	
Number of projects selected during the fiscal year- Mid-TRL projects	2	C
Number of projects selected during the fiscal year- International projects	0	
Monetary value of projects selected - Low-TRL projects (CARIC's part) (for projects selected during the fiscal year)	\$79,771	
Monetary value of projects selected - Mid-TRL projects (CARIC's part) (for projects selected during the fiscal year)	\$0	
Monetary value of projects selected - International projects (CARIC's part) (for projects selected during the fiscal year)	\$0	
Monetary value of projects selected - Low-TRL projects (Industry's (Cash and in-kind contribution part) (for projects selected during the fiscal year)	\$1,723,741	
Monetary value of projects selected - Mid-TRL projects (Industry's (Cash and in-kind contribution part) (for projects selected during the fiscal year)	\$5,198,171	C
Monetary value of projects selected - International projects (Canadian Industry's part)	\$2,020,699	J
Leverages achieved of projects selected - Low-TRL projects (for projects selected during the fiscal year)	1 : 61.70	
Leverages achieved of projects selected - Mid-TRL projects (for projects selected during the fiscal year)	0 : 7.8M	C
Leverages achieved of projects selected - International projects (for projects selected during the fiscal year)	-	J



Indicators	2017-2018	Note
Number of Partners involved in projects selected (Industrial - Academia*) - Atlantic Region	0 - 0	
Number of Partners involved in projects selected (Industrial - Academia*) - Quebec Region	53 - 17	E,C
Number of Partners involved in projects selected (Industrial - Academia*) - Ontario Region	16 - 9	E, C
Number of Partners involved in projects selected (Industrial - Academia*) - Central Region	6 - 3	E, C
Number of Partners involved in projects selected (Industrial - Academia*) - Pacific Region	11 - 6	E, C
Amount of funding Academia* received or will received for the projects selected during the fiscal year	\$4,552,468	C, F, G
Number of the SME involved in projects selected during the fiscal year	11	C
Amount of funding SME received or will received for the projects selected during the fiscal year	\$424,246	C, F, G
Amount disbursed during FY for projects selected - Low-TRL projects (CARIC's part)	\$86,426	
Amount disbursed during FY for projects selected - Mid-TRL projects (CARIC's part)	\$2,931,180	
Amount disbursed during FY for projects selected - International projects (CARIC's part)	\$277,103	
Number and monetary value of projects leading to higher TRL activities	0	H
Number of students involved/trained (details next tab)	162	I
Number of patents applications filed or granted	5	I

\* ACADEMIA INCLUDES UNIVERSITIES, COLLEGES AND RESEARCH CENTRES

A INCLUDING ONE INTERNATIONAL MEMBERS

B ORGANIZED AND CO- ORGANIZED ACTIVITIES

C INCLUDES 2 MID-TRL PROJECTS APPROVED DURING THE YEAR THAT ARE CRIAQ PROJECTS IN WHICH CARIC MEMBERS ARE INVOLVED (NO CARIC CONTRIBUTION)

D 2 PROJECTS WERE APPROVED DURING 2016-2017 WITH THE CONDITION TO RENEW CARIC'S FUNDING OR FIND NEW SOURCES OF FUNDING ARE INCLUDED

E INCLUDING 17 PARTNERS IN TWO PROJECTS ON HOLD (7 INDUSTRIAL AND 10 ACADEMIA)

F INCLUDING AMOUNT RECEIVED FROM ALL PARTNERS

G NSERC AND OTHER FUNDING INCLUDED

H TOO EARLY IN THE INNOVATION PROCESS OR DATA NOT AVAILABLE ON MARCH 31, 2018

I ACCORDING TO THE 26 REPORTS RECEIVED AND COMPILED

J EXCLUDING EUROPEAN CONTRIBUTION



## APPENDIX I – CARIC MEMBERS

	Organization	Member since	From
OEMs	Bell Helicopter Textron Canada Limited	The beginning	CRIAQ
	Boeing	08-03-2016	CCMRD
	Bombardier Aerospace	The beginning	CRIAQ
	CAE inc.	The beginning	CRIAQ
	Pratt & Whitney Canada	The beginning	CRIAQ
INTERMEDIATE COMPANIES	3M Canada	The beginning	CRIAQ
	CMC Electronics inc.	The beginning	CRIAQ
	GE Aviation	The beginning	CRIAQ
	Héroux-Devtek Inc.	The beginning	CRIAQ
	L-3 MAS	The beginning	CRIAQ
	Magellan	03-03-2016	CCMRD
	MDA Space Missions	04-01-2015	CARIC
	Parker Hannifin Canada	01-25-2018	CARIC
	Rolls-Royce Canada Ltd.	10-17-2017	CRIAQ
	Siemens Canada Limited	01-21-2016	CARIC
	StandardAero	02-25-2016	CARIC
	Thales Canada inc.	The beginning	CRIAQ
	SMEs	3DSémantix	12-08-2015
3v Geomatics Inc.		04-07-2016	CARIC
Abipa Canada Inc.		10-22-2014	CRIAQ
Advanced Powders & Coatings		01-08-2015	CRIAQ
Aéroports de Montréal		The beginning	CRIAQ
Airvinci		10-17-2017	CARIC
Alta Precision Inc.		03-20-2018	CRIAQ
APN		10-22-2014	CRIAQ
ARA Robotique		04-01-2017	CRIAQ
ASCO Aerospace Canada Ltd		12-02-2014	CARIC
ATEM Canada		The beginning	CRIAQ
AV&R		09-19-2017	CRIAQ
Avcorp		03-03-2016	CCMRD
Avior Intergrated Products inc.		The beginning	CRIAQ
Buoyant Aircraft Systems International		04-18-2017	CARIC
Binarieslid LTD		12-13-2016	CRIAQ
Bubble Technology Industries		12-13-2016	CARIC
Composites VCI		10-17-2017	CRIAQ
Comtek Advanced Structures		01-28-2015	CARIC
Conair Group Inc		07-15-2015	CARIC
Conception Génik Inc.		12-08-2015	CRIAQ
Convergent		08-03-2016	CCMRD
Coriolis Composites Canada		The beginning	CRIAQ
Cray Canada Corporation		04-28-2015	CARIC
Creaform		The beginning	CRIAQ
CS Communication & Systems Canada Inc.		The beginning	CRIAQ
Delastek inc.		The beginning	CRIAQ
Dema Aeronautics inc.		The beginning	CRIAQ
EXO Tactik Air Support inc.		07-25-2017	CRIAQ
Edmit Industries Inc.		The beginning	CRIAQ
Elasto Proxy Inc.		12-02-2014	CRIAQ
ELECTRO-KUT		10-20-2015	CRIAQ
Elisen & associates		01-10-2017	CRIAQ
Equispheres		11-01-2017	CARIC
Exonetik Inc		05-05-2015	CRIAQ



	<b>Organization</b>	<b>Member since</b>	<b>From</b>
<b>SMEs</b>	Fusia impression 3D metal Inc.	05-20-2014	CRIAQ
	FZ ENGINEERING INC.	01-09-2018	CRIAQ
	GasTOPS Ltd	11-19-2014	CARIC
	GlobVision Inc.	02-10-2015	CRIAQ
	Humanitas Solutions	02-07-2017	CRIAQ
	Hutchinson	The beginning	CRIAQ
	Huys Industries	02-25-2016	CARIC
	Iders Incorporated	01-28-2015	CARIC
	ImStrat Corporation	04-07-2016	CARIC
	JMJ Aéronautique	The beginning	CRIAQ
	Kruger Biomaterials Inc.	10-17-2017	CRIAQ
	Laflamme Aero	The beginning	CRIAQ
	Latitude Technologies Corporation	07-15-2015	CARIC
	Les Instruments Optiques du Saint-Laurent	10-05-2016	CRIAQ
	Liburdi	05-01-2015	CARIC
	Mannarino Systems & Software	09-19-2017	CRIAQ
	Marinvent Corporation	The beginning	CRIAQ
	Marsh Brothers Aviation Inc.	06-06-2017	CARIC
	M D Precision	05-31-2016	CRIAQ
	MDS AERO	01-28-2015	CARIC
	Mecanum	10-17-2017	CRIAQ
	Meloche Group	The beginning	CRIAQ
	Mesotec inc.	12-02-2014	CRIAQ
	MESSIER-DOWTY Inc.	The beginning	CRIAQ
	NETUR	10-20-2015	CRIAQ
	NGC International Inc.	10-22-2014	CRIAQ
	NordiaSoft	09-19-2017	CRIAQ
	OPAL-RT Technologies inc.	The beginning	CRIAQ
	PCM Innovation	03-03-2016	CCMRD
	Plasmionique Inc.	03-17-2016	CRIAQ
	Presagis	11-29-2016	CRIAQ
	Pultrusion Technique Inc.	10-17-2017	CRIAQ
	Roy Aircraft & Avionic Simulation	The beginning	CRIAQ
	RTI CLARO, Inc.	05-05-2015	CRIAQ
	Safran Helicopter Engines Canada Inc	The beginning	CRIAQ
	Shimco North America inc.	02-07-2017	CARIC
	Sightline Innovation	06-06-2017	CARIC
	Sinters	The beginning	CRIAQ
	Stelia Aerospace North America	12-02-2016	CARIC
	MagChem	06-10-2014	CRIAQ
	Isonéo Solutions	05-20-2014	CRIAQ
	Sonaca NMF Canada inc.	The beginning	CRIAQ
	Star Navigation Systems Group LTD	12-13-2016	CRIAQ
	Stelia Aéronautique Canada Inc.	11-29-2016	CRIAQ
	Aerosystems International Inc (ASI)	The beginning	CRIAQ
	Techniprodec	05-05-2015	CRIAQ
	TEKNA Plasma Systems Inc.	10-22-2014	CRIAQ
Texonic	06-10-2014	CRIAQ	
Thermetco	01-09-2018	CRIAQ	
Transtronic inc.	The beginning	CRIAQ	
UrtheCast Corp.	04-07-2016	CARIC	
vigilant global	03-17-2016	CRIAQ	
<b>PROJECT MEMBER</b>	Air Canada	04-18-2017	CRIAQ



	<b>Organization</b>	<b>Member since</b>	<b>From</b>
<b>RESEARCH ORGANIZATIONS</b>	Canadian Centre for Product Validation	02-07-2017	CARIC
	Canadian Light Source Inc.	05-26-2015	CARIC
	Composites Innovation Centre Manitoba Inc.	03-03-2016	CCMRD
	CRIQ - Centre de recherche industrielle Québec	The beginning	CRIAQ
	Defence Research and Development Canada	11-29-2016	CARIC
	INO	The beginning	CRIAQ
	INRS	The beginning	CRIAQ
	National Research Council of Canada	05-26-2015	CARIC
<b>UNIVERSITIES AND COLLEGES</b>	Camosun college's applied research and innovation	07-15-2015	CARIC
	Carleton University	12-02-2014	CARIC
	Centennial College	06-06-2017	CARIC
	Centre de Métallurgie du Québec	The beginning	CRIAQ
	Centre de Robotique et de Vision Industrielles	12-08-2015	CRIAQ
	Centre technologique en aérospatiale	The beginning	CRIAQ
	Composites Development Centre of Quebec	The beginning	CRIAQ
	Concordia University	The beginning	CRIAQ
	Dalhousie University	11-29-2016	CARIC
	École de Technologie Supérieure	The beginning	CRIAQ
	École Polytechnique de Montréal	The beginning	CRIAQ
	Groupe CTT Textiles	05-20-2014	CRIAQ
	HEC Montreal	The beginning	CRIAQ
	Innovative Institute Vehicule	09-19-2017	CRIAQ
	McGill University	The beginning	CRIAQ
	Memorial University of Newfoundland	04-18-2017	CARIC
	Novika Solutions	03-17-2016	CRIAQ
	Optech	The beginning	CRIAQ
	Queen's University	06-21-2016	CARIC
	Red River College	03-03-2016	CCMRD
	Royal Military College of Canada	04-18-2017	CARIC
	Ryerson University	06-21-2016	CARIC
	Université de Montréal	The beginning	CRIAQ
	Université de Sherbrooke	The beginning	CRIAQ
	Université du Québec à Chicoutimi	The beginning	CRIAQ
	Université du Québec à Montréal	The beginning	CRIAQ
	Université du Québec à Trois-Rivières	The beginning	CRIAQ
	Université Laval	The beginning	CRIAQ
	University of Alberta	06-06-2017	CARIC
	University of British Columbia	04-07-2016	CARIC
	University of Manitoba	02-25-2016	CARIC
	University of New Brunswick	04-07-2016	CARIC
	University of Ontario Institute of Technology	11-25-2015	CARIC
	University of Ottawa	12-02-2014	CARIC
University of Prince Edward Island	04-01-2017	CARIC	
University of Victoria	04-07-2016	CARIC	
University of Waterloo	01-10-2017	CARIC	
University of Windsor	01-28-2015	CARIC	





## APPENDIX II - CARIC BOARD OF DIRECTORS (INCL. EXECUTIVE COMMITTEE MEMBERS)

On September 14, 2017

	Name	Organization	Executive Committee	Representative
1	Baril, Claude	Stelia Aerospace North America		Regional-East Co
2	Bertrand, François	Polytechnique Montréal		General-Academic
3	Christie, Iain	AIAC		Permanent-AIAC
4	Collver, Brent	Comtek Advanced Structures		Regional-ON Co
5	Cordeau, François	NRC		Permanent-NRC
6	Crocker, Sandra	Carleton University	E.C.	Regional-ON-Uni
7	Cutler, Jeffrey	Canadian Light Source	E.C.	General-Research Org
8	Despins, Charles	École de technologie supérieure	E.C.	General-Academic
9	Di Bartolomeo, Walter	Pratt & Whitney Canada	E.C.	General-Large Co
10	Dixon, Walter	University of Alberta		Regional-West Uni
11	Donato, Marc	MDA Corporation	E.C.	General-Intermediate Co
12	Dyer, Steve	Bell Helicopter Textron Canada	E.C.	General-Large Co
13	Guy, Christophe	Concordia University	E.C.	General Academic
14	Kafyeke, Fassi	Bombardier	E.C.	General-Large Co
15	MaGee, David	University of New Brunswick		Regional-East Uni
16	McCardle, Adrien	3V Geomatics		Regional-West Co
17	Muir, Dave	Gastops Ltd.	E.C.	General-2 Small Co
18	Nicell, Jim	McGill University		Regional-QC Uni
19	Roussel, Jean	L-3	E.C.	General-Intermediate Co
20	St-Hilaire, Marc	CAE	E.C.	General-Large Co
21	Talbot, Marc-André	Thales Canada	E.C.	Regional-QC Co
22	Walzak, Tim	Camosun College		General-Academic
23	Yoshiki-Gravelsins, Karen	Magellan Aerospace		General-Intermediate Co
1	Faubert, Denis	CARIC	Observer ex-officio	Permanent-Network
2	Langevin, Denis	ISED Canada	Observer	
3	Blais, Marc-André	ISED Canada	Observer	



## APPENDIX III - CARIC-CRIAQ SCIENTIFIC COMMITTEE MEMBERS

On September 14, 2017

	Organization	Member
<b>Industries</b>	Bombardier Aéronautique	Enguerran Michel
	Pratt & Whitney Canada	Joël Larose
	Thales	Fabien Castang
	MDA	Véronique Nell
	Bell Helicopter Textron Canada Ltd.	Michel Dion
	Marinvent Corporation	Puthy Soupín
	TBC	TBC
	GasTops	Pooja Suresh
	Standard Aero	Melanie Mulder
<b>Universities, Colleges, Research centers</b>	École Polytechnique de Montréal	Augustin Brais
	Concordia	Ali Dolatabadi
	Centre technologique en aérospatiale (CTA)	Robin Dubé (interim)
	NRC	Min Liao
	University New Brunswick	Natalia Stakhanova
	Carleton	Xiao Huang
	Camosun college	Imtehaze Heerah
<b>Other (non-voting)</b>	CARIC/CRIAQ	Denis Faubert
	CARIC/CRIAQ	Cédric Prince
	Industry Canada/ Canadian Government	Marc-André Blais
	MEIE	Philippe Sabat



## APPENDIX IV - CARIC FINANCE COMMITTEE MEMBERS

On September 14, 2017

Member	Organization	Position
Talbot, Marc-André	Thales Canada	Director of Research and Development
Baril, Calude	Stelia Aerospace North America	Managing Director
Christie, Iain	AIAC	Vice President, Policy & Competitiveness
Crocker, Sandra	Carleton University	Associate Vice President
Faubert, Denis	CARIC (ex-officio)	President & CEO, CARIC
Galleyrand, Marie-Laure	CARIC (ex-officio)	Head of finance, CARIC



## APPENDIX V - CARIC ETHICS COMMITTEE MEMBERS

On September 14, 2017

Member	Organization	Position
St-Hilaire, Marc	CAE Inc.	Vice President, Technology & Innovation
Di Bartolomeo, Walter	Pratt & Whitney Canada	Vice President, Engineering
Cutler, Jeffrey	Canadian Light Source	Chief Strategic Relations Officer
Faubert, Denis	CARIC (ex-officio)	President & CEO, CARIC
Aubertin, Alain	CARIC (ex-officio)	Vice President, Business Development, Network and Innovation Processes



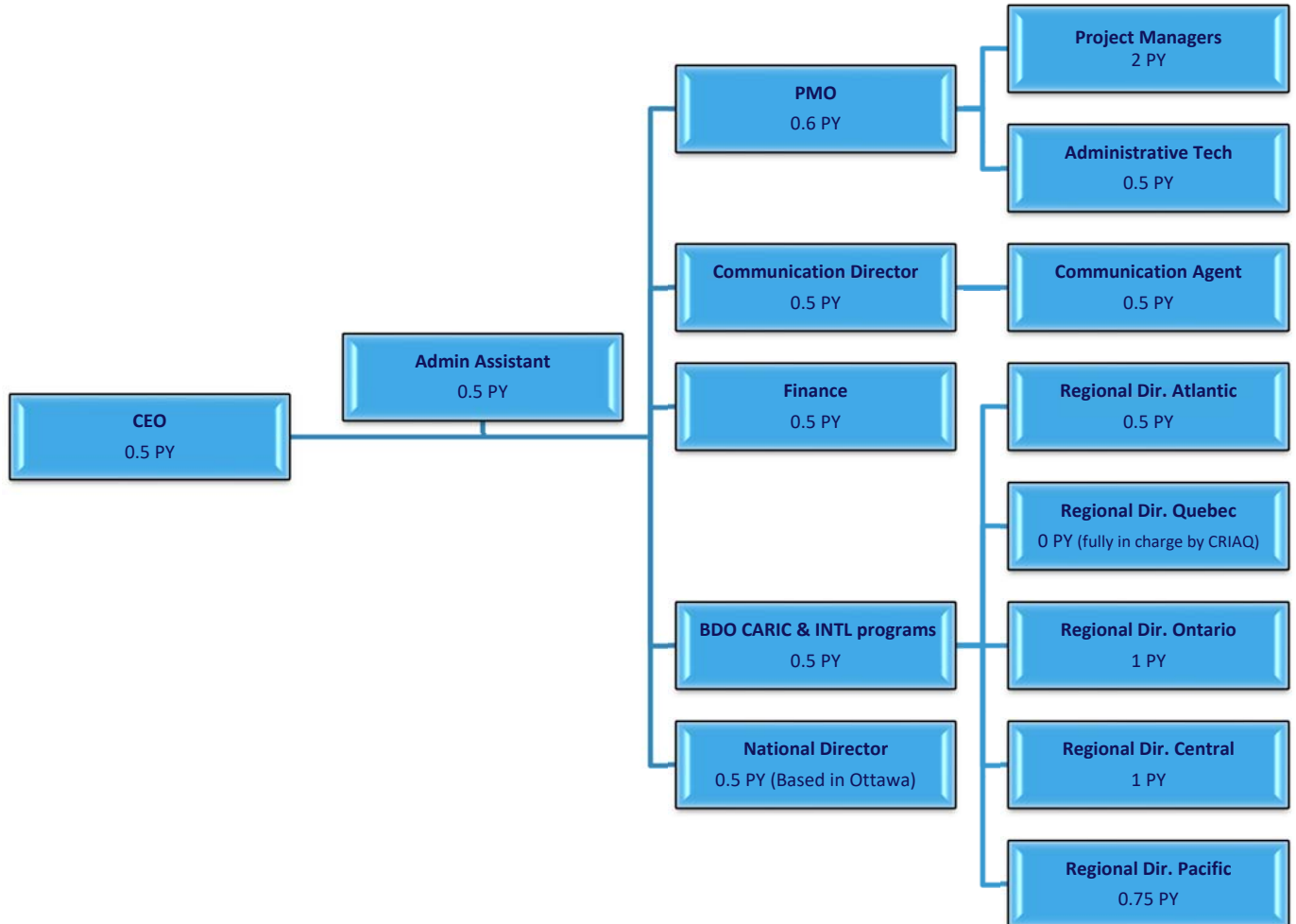
## APPENDIX VI - RESOLUTIONS ADOPTED

Date	Resolution
2017-05-25	BE IT RESOLVED that the Executive Committee appoints Mr. Jeffrey Cutler on the CARIC/CRIAQ Ethics Committee. Proposed by Mr. Di Bartolomeo, seconded by Mr. Olson, the resolution is adopted unanimously.
2017-05-25	As a member of the CARIC Executive Committee, I hereby, agree that the amount of \$ 615,382 be used to finance the MDO-1650 RL4+ project entitled "Wide Area Monitoring System" as described in the project sheet attached to this resolution. Under the recommendation of the EC members attending the meeting today, May 25, 2017, Mr. Prince is asked to forward an e-mail resolution to all Executive Committee Members for the approval of the MDO-650- Funding will take effect once all members have signed.
2017-09-14	BE IT RESOLVED that the Board of Directors approves that the inter fund amount of \$ 102,907 derived from the Research funds (Membership Revenues) be transferred to the General Funds. Proposed by Mr. Jim Nicell, seconded by Mr. Tim Walzak, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that, as recommended by the Finance Committee, the Board of Directors approves the 2016-2017 financial statements presented today by Mr. Nicholas Voyer. Proposed by Mr. Marc-André Talbot, seconded by Ms. Sandra Crocker, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the Board of Directors approves the payment of \$ 9,500 for the 2016-2017 fiscal year audit by Ernst & Young. Proposed by Mr. Marc-André Talbot, seconded by Mr. Dave Muir, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the Board of Directors recommend that the General Assembly approve Ernst & Young as external auditors for the year 2017-2018 Proposed by Mr. Marc-André Talbot, seconded by Mr. Fassi Kafyeke, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the Board of Directors approves the 2016-2017 annual report, as presented today. Proposed by Mr. Walter Di Bartolomeo, seconded by Mr. Tim Walzak, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the Board of Directors approves the change to By-Laws Section 21, as presented. « Twenty per cent (20%) of all voting members of the Corporation constitutes a quorum for any meeting of the members. The quorum shall be maintained for the duration of the meeting. » Proposed by Mr. Walter Di Bartolomeo, seconded by Mr. Jim Nicell, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the Board of Directors approves the nomination of the Officers and Members of the CARIC Executive and Finance Committees, the CARIC/CRIAQ Scientific and Ethics Committees, as presented today. Proposed by Mr. Steve Dyer, seconded by Mr. Jim Nicell, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that given the uncertainty arising from the renewal of the CARIC mandate and the possible advent of the MOST21 Supercluster, the Board approves the extension of the service contract between CARIC and Innovitech until 31 March 2019 with conditions to be negotiated in good faith between the two organisations. Proposed by Mr. Walter Di Bartolomeo, seconded by Ms. Sandra Crocker, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the following 4 proposals previously presented be approved: Closure of the savings account, enrolment in the «Flexi Depot» program, addition of a 5th signatory (for administrative invoices under 10k) and gradual implementation of online supplier payments. Proposed by Mr. Marc-André Talbot, seconded by Mr. Ian Christie, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that Mr. Denis Faubert (CEO), Mr. Marc-André Talbot (Treasurer), Mr. Marc St-Hilaire (Secretary), Mr. Jim Nicell (Administrator) and Ms. Marie-Laure Galleyrand (CARIC Head of Finance) be appointed as authorized banking signatories. Proposed by Mr. Ian Christie, seconded by Mr. Tim Walzak, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that Board of Directors recommend that the 2016-2017 financial statements are received by the General Assembly today. Proposed by Ms. Sandra Crocker, seconded by Mr. Marc Donato, the resolution is adopted unanimously.
2017-09-14	BE IT RESOLVED that the General Assembly approve the nomination of the CARIC Board of Directors for the year 2017-2018, as presented today. Proposed by Mr. Pierre Dumouchel, seconded by Mr. Tom Scrouchy, the resolution is adopted unanimously.
2017-11-30	BE IT RESOLVED that the granting of CARIC's budget allocation of \$ 490,421 to the MDO-1649_TRL4+ project is subject to the approval the revised statement of work and budget submitted to the Scientific Committee. Proposed by Mr. Steve Dyer, seconded by Mr. Jean Roussel, the resolution is approved by unanimous consent.
2018-01-25	BE IT RESOLVED that the Board of Directors approves the 2018-2019 CARIC Corporate Plan as Presented today. Proposed by Mr. Jeffrey Cutler, seconded by Ms. Sandra Crocker, the resolution is adopted unanimously.
2018-01-25	BE IT RESOLVED that the Board of Directors approves the 2018-2019 CARIC Budget as presented today. Proposed by Mr. Claude Baril, seconded by Mr. Iain Christie, the resolution is adopted unanimously.
2018-03-01	BE IT RESOLVED that the Executive Committee approves the amended 2017-2018 budget presented today. This new version shows an increase of the ISED contribution by \$700,000 in revenues and an equal expenditure in the research funds. Proposed by Mr. Walter Di Bartolomeo, seconded by Marc-André Talbot, the resolution is adopted by unanimous consent.
2018-03-01	BE IT RESOLVED that under the recommendation of the Finance Committee, the Executive Committee approves the offer submitted by Innovitech amounting to \$ 823,581 as part of the contract extension for the year 2018-2019. Proposed by Mr. Jean Roussel, seconded by Mr. Charles Despains, the resolution is adopted by unanimous consent.



# APPENDIX VII - CARIC ORGANIZATIONAL CHART

On September 14, 2017



PY: Person Year supported by CARIC



## APPENDIX VIII - ACTIVITIES AND OTHER EVENTS

Date : mm/dd/yyyy	Conducted by	Category	Title / Name	Role : Attendee, presenter, organizer	Location	Nb of participants
April 3, 2017	Québec	Conference	Starburst Accelerator conference	Attendee	Montréal	
April 5, 2017	Québec	Workshop	UK Lecture, Innovation	Attendee	Montréal	
April 12, 2017	Atlantic	Conference	Springboard Network meeting	Attendee	Fredericton	
April 12, 2017	Ontario	Workshop	Toronto Eco Dev & DAIR	Presenter	Toronto	
April 12, 2017	Québec	Conference	Forum INNOVATION ADRIQ	Attendee	Montréal	
April 20, 2017	Atlantic	Conference	Green energy in PEI	Attendee	Charlottetown	
April 26, 2017	Atlantic	Workshop	Maritime Launch Systems Innovation Connector	Attendee	Antigonish	
April 28, 2017	Head Office	Workshop	Student UAS competition 2017 - UAS Canada	Sponsor	Alma	
May 2, 2017	Central	Regional Event	2Q Manitoba Aerospace R&T	Organizer	Winnipeg	15 participants
May 5, 2017	Québec	Workshop	Co-Design Aérospatiale numérique	Organizer	Montréal	30 participants
May 5, 2017	Head Office	Workshop	Space Advisory Board	Attendee	Montréal	
May 8, 2017	Atlantic	Conference	Defense Trends symposium	Presenter	Halifax	90 participants
May 9, 2017	Central	Conference	MIM Materials Conference UofM	Attendee	Winnipeg	
May 10, 2017	Québec	Workshop	Workshop Airbus Tech. Licensing	Organizer	Montréal	15 participants
May 11, 2017	Ontario	Workshop	Nano Ontario event	Presenter	Kitchener	
May 16, 2017	Québec	Workshop	Czech Republic delegation	Attendee	Montréal	
May 16, 2017	Head Office	Conference	CASI AERO 2016: 63rd Aeronautics Conference	Attendee	Toronto	

Date : mm/dd/yyyy	Conducted by	Category	Title / Name	Role : Attendee, presenter, organizer	Location	Nb of participants
May 24, 2017	Atlantic	Conference	Official announcement UNB Additive dept	Attendee	Fredericton	
May 31, 2017	Head Office	International event	CANSEC 2017	Attendee	Ottawa	
June 5, 2017	Pacific	Workshop	AIAC(P) Seminar Supercluster	Attendee	Vancouver	
June 6, 2017	Central	Regional Event	Manitoba/Saskatchewan R&D Forum	Organizer	Manitoba	85 participants
June 8, 2017	Québec	Regional Event	CRIAQ RDV Network #1	Organizer	Montréal	50 participants
June 13, 2017	Head Office	International event	MOVIN'ON 2017	Attendee	Montréal	
June 13, 2017	Central	Workshop	NRC Advanced Manufacturing workshop	Attendee	Winnipeg	
June 13, 2017	Atlantic	Workshop	Thales Research and Technology connectors	Organizer	Halifax	35 participants
June 14, 2017	Québec	Regional Event	CRIAQ's General Member Assembly	Attendee	Montréal	
June 19, 2017	Head office	International event	Paris Le Bourget airshow 2017	Attendee	Paris, France	
June 21, 2017	Pacific	Workshop	Central Okanagan Economic Development	Attendee	Kelowna	
July 5, 2017	Central	Workshop	MOST21 Info Session Manitoba	Organizer	Winnipeg	15 participants
July 5, 2017	Pacific	International event	WESTDEF	Attendee	Calgary	
August 8, 2017	Head Office	International event	CARIC National Forum 2017	Organizer	Vancouver	350 participants
August 8, 2017	Pacific	International event	CARIC National Forum 2017	Co-Organizer	Vancouver	
August 11, 2017	Pacific	International event	ADSE Abbotsford airshow	Attendee	Abbotsford	
August 31, 2017	Québec	Workshop	Creativity is Great - UK	Attendee	Montréal	
September 5, 2017	Atlantic	Regional Event	CARIC Connector @ DEFSEC	Organizer	Halifax	100 participants
September 6, 2017	Québec	Workshop	Japan delegation	Attendee	Montréal	
September 13, 2017	Québec	Conference	Conference 3d printing	Attendee	Bécancour	





<b>Date : mm/dd/yyyy</b>	<b>Conducted by</b>	<b>Category</b>	<b>Title / Name</b>	<b>Role : Attendee, presenter, organizer</b>	<b>Location</b>	<b>Nb of participants</b>
September 14, 2017	Head office	Annual assembly	CARIC's General Member Assembly	Organizer	Montréal	70 participants
September 21, 2017	Québec	Regional Event	CRIAQ RDV Network #2	Organizer	Montréal	50 participants
September 26, 2017	Central	Regional Event	3Q Manitoba Aerospace R&T	Organizer	Winnipeg	15 participants
September 29, 2017	Head office	Workshop	GARDN Annual Assembly	Attendee	Montréal	
October 5, 2017	Head Office	Workshop	MOST21 Mobilization Day	Organizer	Ottawa	150 participants
October 5, 2017	Head Office	Conference	Montreal Space Symposium	Presenter	Montréal	
October 10, 2017	Ontario	Workshop	SAFRAN Global Luncheon	Attendee	Pickering	
October 12, 2017	Québec	Conference	Colloque Aérotechnique ENA/CTA	Attendee	St-Hubert	
October 24, 2017	Atlantic	Workshop	Springboard Network meeting	Attendee	Charlottetown	
October 30, 2017	Atlantic	Workshop	Newfoundland and Labrador planning meetings	Attendee	St-John's	
November 1, 2017	Ontario	International event	Best Defence Conference 2017	Attendee	London	
November 2, 2017	Atlantic	Conference	MAAS 2017	Attendee	St-John's	
November 7, 2017	Head Office	International event	AIAC Aerospace Summit	Attendee	Ottawa	
November 9, 2017	Ontario	Workshop	CCAA National Organization	Attendee	Ottawa	
November 24, 2017	Québec	Workshop	GARDN Conference	Attendee	Montréal	
November 28, 2017	Ontario	Conference	OAC Assembly 2017	Attendee	Toronto	
December 5, 2017	Québec	Conference	Forum Développement Économique Longueuil	Attendee	Longueuil	
December 7, 2017	Head Office	Workshop	Canada-UK workshop on 4.0	Attendee	Montréal	
February 7, 2018	Head Office	Workshop	OAC Show me the money seminar	Presenter	Toronto	
February 19, 2018	Québec	International event	ILA Berlin 2018	Attendee	Berlin	
February 22, 2018	Québec	Workshop	Journée Innovation-Aluminium	Attendee	Drummondville	
March 7, 2018	Ontario	Regional Event	OAC 3rd R&T Event	Co-Organizer	Toronto	
March 8, 2018	Québec	Regional Event	CRIAQ RDV Network #3	Organizer	Mirabel	50 participants



## APPENDIX IX - LIST OF PRESS RELEASES AND ARTICLES

Date	Title	Media Source	Author	Format
06-11-2017	Background on Canada-Ukraine defence agreement: A 'rich, mutually beneficial' arms trade	Tonyseed.wordpress.com	Tony Seed	Brief
06-14-2017	Trois jeunes québécoises parmi les géants de l'industrie du drone	Lesaffaires.com	Martin Jolicoeur	Article
08-01-2017	A new area: manufacturing innovation spurs aerospace growth	Shop metal tech	SMT	Article
08-08-2017	The Canadian government wants your ideas about a mission to mars	Cantech letter	Jayson MacLean	Article
08-14-2017	Aviation and aerospace join forces in Abbotsford	Skies Mag	Lisa Gordon	Article
09-01-2017	A quoi ressemblera l'avion du futur ?	Le Devoir	Pauline Gravel	Article
09-02-2017	A quoi ressemblera l'avion du futur ?	Coachit11.wordpress.com	Pauline Gravel	Article
10-02-2017	STEM SIGHTS: The Concordian who ice-proofs airplanes	Concordia.ca	Kenneth Gibson	Article
10-04-2017	Les bons élèves de l'innovation canadienne	Lesaffaires.com	Adil Boukind	Article
10-10-2017	AIAC Applauds Shortlisting of Aerospace Supercluster	Spaceref.com	AIAC	Press release
10-10-2017	The project MOST21 selected on the superclusters shortlist	Newswire.ca	Julien Caudroit	Press release
10-10-2017	Le projet MOST21 sélectionné pour la 2e étape des supergrappes	Newswire.ca	Julien Caudroit	Press release
10-11-2017	The project MOST21 selected on the superclusters shortlist	Canadianinsider.ca	Julien Caudroit	Press release
10-16-2017	The Latest Runway for Aerospace Technology from Around the World - Advanced Manufacturing	Advancedmanufacturing.org	Brett Brune	Article



10-31-2017	Concordia's Christophe Guy wins Prix du Quebec	Concordia.ca	Renée Dunk	Citation
11-22-2017	Des chercheurs de la relève honorés lors de la 7e édition annuelle des prix Mitacs pour des découvertes révolutionnaires English	Newswire.ca	Mitacs	Press release
11-22-2017	Up-and-coming researchers honoured for breakthrough discoveries at 7th annual Mitacs Awards	Terristeffes.com	Mitacs	Press release
11-23-2017	Au carrefour de la mobilité du futur	Lapresse.ca	Didier Bert	Article
11-24-2017	Les brèves technos	Lesaffaires.ca	Denis Lalonde	Brief
11-27-2017	No worries : aerospace industry not fazed by melding of Harper-era R&D program into general innovation fund	The Hills Times	Jolson Lim	Article
07-12-2017	Trois jeunes québécoises parmi les géants de l'industrie du drone	Lesaffaires.ca	Martin Jolicoeur	Brief
01-05-2018	AIAC chair focused on innovation and diversity	Skiesmag.com	Chris Thatcher	Citation
02-02-2018	Development of Bell's HYDRA moving forward	Verticalmag.com	Chris Thatcher	Citation
03-16-2018	Pilot shortage tackled	Aerotime.aero	Zivile Zalagenaité	Citation



## NEWSLETTERS FROM CARIC

Date	Title
04-07-2017	Save the Date for the CARIC National Research Forum!   Réservez la date pour le Forum national de la recherche du CARIC!
05-18-2017	Caric national forum - registration is now open
05-23-2017	New member fees policy
06-08-2017	The aerospace meeting on super clusters
06-16-2017	The aerospace meeting on super clusters
06-22-2017	Aerospace supercluster webinar
06-28-2017	Video of the aerospace supercluster webinar
06-30-2017	The aerospace meeting on Superclusters - Meet Ellie Wood from Boeing
07-06-2017	Meet J.C Piedboeuf from CSA at THE aerospace meeting on Superclusters
07-11-2017	THE aerospace meeting on Superclusters: Meet our speakers from Urthecast and Absolute Combustion International !
07-13-2017	Begin with the UBC showcase, continue at the CARIC Forum
07-13-2017	CARIC FORUM: Early bird rates ends tomorrow !
07-20-2017	Promocode inside - Begin with the UBC showcase, continue at the CARIC Forum
07-26-2017	Meet the Federal senior executive panel at THE aerospace meeting on Superclusters !
08-01-2017	CARIC Forum : Last call !
08-17-2017	Thank you for attending the CARIC National Research Forum
08-31-2017	CARIC AGM
09-08-2017	Reminder : registration at CARIC AGM   Rappel : inscriptions à l'AGA du CARIC
09-26-2017	Our members make the news   Nos membres font l'actualité
10-10-2017	Project MOST21 selected on the superclusters shortlist
10-23-2017	New members, AIAC Summit, etc.
12-15-2017	European collaboration opportunities, national & international calls for projects for SME etc.
12-22-2017	Happy holidays ! Joyeuses fêtes
02-28-2018	European collaboration opportunities, CRIAQ's RDV Forum, aerospace international week, kick-off program etc.



## APPENDIX X - PROJECT TYPES AND GUIDELINES

### LOW- TRL – UNDERSTANDING TECHNOLOGY PROJECTS

<b>Partnership</b>	<ul style="list-style-type: none"> <li>• Industry- led project</li> <li>• Universities, colleges and research centers delivered</li> <li>• A minimum of 2 industrial partners + 2 academic partners</li> </ul>
<b>Funding</b>	<ul style="list-style-type: none"> <li>• Maximum public funding: 75%of eligible project expenditures</li> <li>• Maximum NSERC leverage applied on industry cash and in- kind contribution</li> <li>• CARIC contribution: 10%of eligible project expenditures</li> <li>• Funding from other programs used when available</li> <li>• Funding recipients: universities or colleges</li> </ul>
<b>Intellectual property</b>	<ul style="list-style-type: none"> <li>• CARIC generic Project Agreement (mandatory)</li> </ul>

### MID- TRL – MATURING TECHNOLOGY PROJECTS

<b>Partnership</b>	<ul style="list-style-type: none"> <li>• Industry- led projects</li> <li>• Industry delivered</li> <li>• A minimum of 2 industrial partners + 2 academic partners</li> <li>• Strongly recommended to include an SME (evaluation criteria)</li> </ul>
<b>Funding</b>	<ul style="list-style-type: none"> <li>• Industry contribution: 50%of eligible project expenditures</li> <li>• CARIC contribution (non- refundable): 50%of eligible project expenditures</li> <li>• Funding from other programs used when available</li> <li>• Funding recipients: industries</li> </ul>
<b>Intellectual property</b>	<ul style="list-style-type: none"> <li>• High level IP guidelines provided</li> <li>• A specific Project Agreement (generic template provided by CARIC)</li> </ul>



### LOW TRL - CANNAPE PROJECTS

<b>Partnership</b>	<ul style="list-style-type: none"> <li>• Industry- led projects</li> <li>• Universities, colleges and industry delivered</li> <li>• A minimum of 2 industrial partners + 2 academic partners in Canada</li> <li>• A minimum of 3 independent organizations from 3 different EU member states</li> <li>• Joint proposal among Canadian and European partners</li> </ul>
<b>Funding (Separate budget for Canadian side)</b>	<ul style="list-style-type: none"> <li>• Industry contribution of 25% of eligible project expenditures</li> <li>• NSERC contribution of 25% of eligible project expenditures</li> <li>• CARIC contribution of 50% (non- refundable) of eligible project expenditures</li> <li>• Funding recipients: universities, colleges and industries</li> </ul>
<b>Intellectual property</b>	<ul style="list-style-type: none"> <li>• A negotiated international Project Agreement</li> </ul>

### AERO- CONNECT PROJECTS

<b>Partnership</b>	<ul style="list-style-type: none"> <li>• Industry- led projects</li> <li>• Universities, colleges and industry delivered</li> <li>• A minimum of 1 industrial partner + 1 academic partner in Canada</li> <li>• Research centers can also participate as a third research</li> <li>• No present or former connection between the researcher who submits a grant application and the company with the need that must be examined during the project</li> </ul>
<b>Funding</b>	<ul style="list-style-type: none"> <li>• Total public funding is typically supplied by CARIC (up to \$10,000) for its members and by the NSERC (up to \$25,000)</li> <li>• Industry partners must make a minimum direct contribution (in- kind).</li> <li>• CARIC contribution of 50%(non- refundable) of eligible project expenditures</li> <li>• Funding recipients: industrial companies, universities, colleges and/ or research centres</li> <li>• Paid with membership fees until availability of funds</li> </ul>