MEDTEQ
L'INNOVATION POUR LA SANTÉ
INNOVATION FOR HEALTH

MEDTEQ ACTIVITY REPORT
2016 / 2017 EDITION

TECHNOLOGIES OF THE FUTURE HEALTH OF TOMORROW

MEDTEQ
The Quebec Consortium for Industrial Research an Innovation in Medical Technology.

MEDTEQ
L'INNOVATION POUR LA SANTÉ
INNOVATION FOR HEALTH

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Économie, Science et Innovation Québec

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Mission

MEDTEQ is the Quebec Consortium for Industrial Research and Innovation in Medical Technology. Its mission is to accelerate the development of innovative technologies to improve patients' health and quality for life. MEDTEQ supports their validation and integration in the healthcare system and their impact, both locally and globally, by bringing together the complementary skills of industrial and academic parteners with those of healthcare providers.

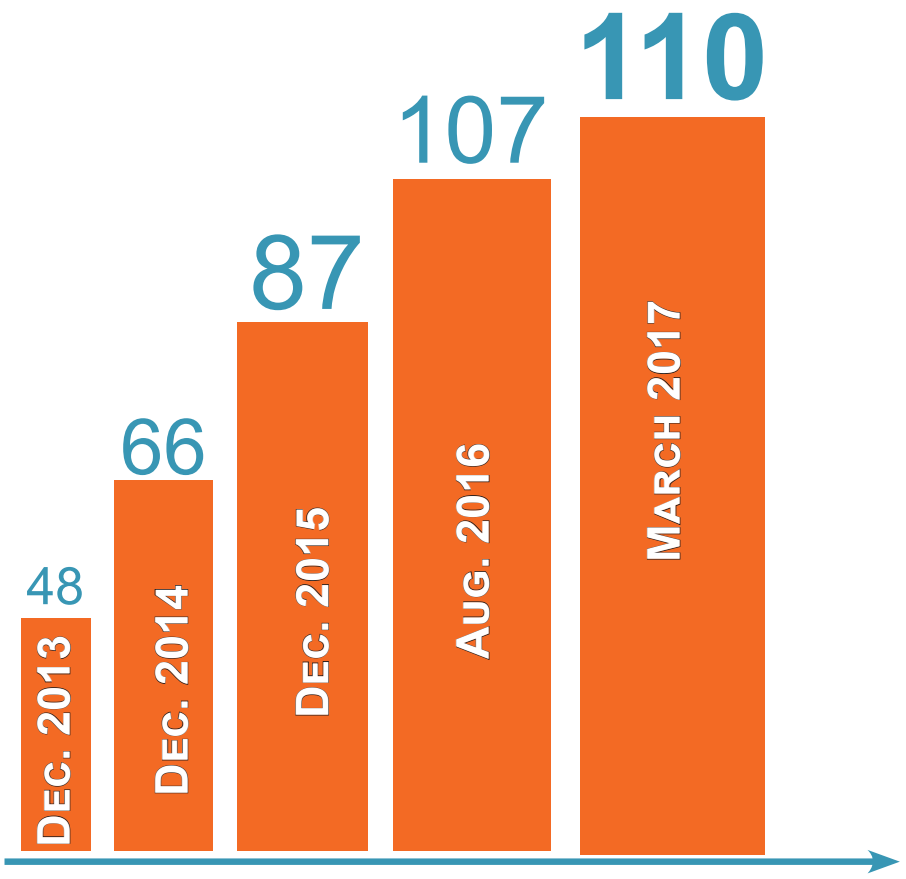
During the last year, MEDTEQ members were particularly active and the consortium knew a great growth. We are from now one at one time hinge: the Quebec MEDTECH sector took its take-off, its community of practice is being well supported by the Strategy life sciences and by the Quebec Strategy of research and innovation. It's our turn to play!

Jacques Milette

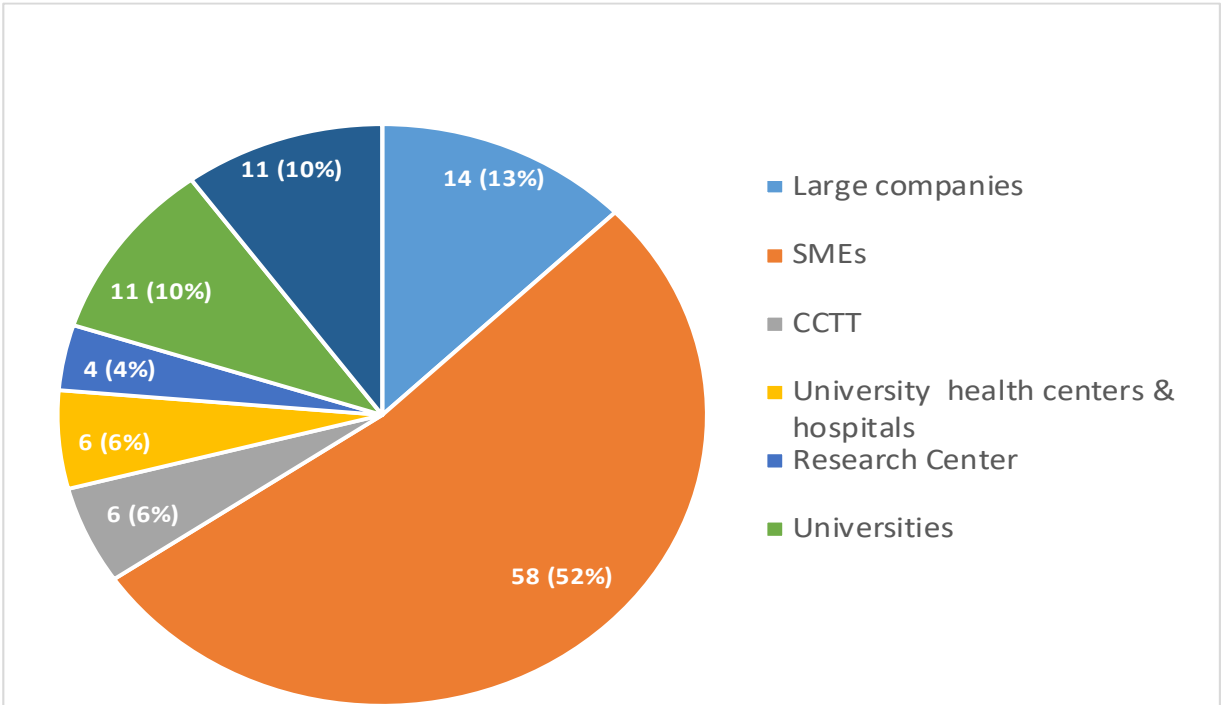
« THE LAST YEAR MADE IT POSSIBLE TO THE MEMBERS TO CONSOLIDATE THEIR COMMUNITY OF PRACTICE AND TO MULTIPLY THEIR COLLABORATIONS, BY MAXIMIZING THEM REPERCUSSIONS FOR THEM AND FOR QUEBEC. ADDITIONNAL RESSOURCES ARE JOINED TO THE CONSORTIUM TO IMPROVE THE ACCOMPANIMENT AND THE FINANCING OF THE PROJECTS. MEDTEQ IS BECOMING AN IMPORTANT POLE OF COMPETITIVENESS BECAUSE OF THE INTERNATIONAL GAUGE OF ITS MEMBERS AND THEIR INNOVATIONS. »

DIANE CÔTÉ

Membership Growth



Distribution of the Membership



Localisation of MEDTEQ members and partners

Nearly 90% of the Consortium members *

implied themselves in the assembly of a project and/or are already part of a collaborative research project of innovation of MEDTEQ.

*EXCLUDING PARTNERS MEMBERS

ANNUAL FORUM OF THE CONSORTIUM MEDTEQ

JANUARY 31st 2017, CHU SAINTE-JUSTINE

On January 31st, more than 250 people of the medical technologies mobilized themselves to take part of the 5th Edition of the MEDTEQ annual Forum in the new installations of CHU Sainte-Justine. The event allowed the participants to chat, talk about the possible collaboratives projects and to know more on the Consortium especially on topics supporting the medtech future industry, of which the imagery, the human performance and the artificial intelligence. It was the 5th meeting of the Consortium members.

Several members and partners of the Consortium contributed to the success of the day: CHU Sainte-Justine, MEDEC, AGE-WELL, the NSERC, Siemens Healthineers, Alsace BioValley, Medicen Paris Région, Innovitech and the Ministry of the Economy, Science and the Innovation.

CHU Sainte-Justine offered an ideal environment for this gathering by his very new amphitheatre and atrium of natural light. Moreover, the participants of the Forum have been offered a visit of the new research centre by the participation of the Sainte-Justine team.

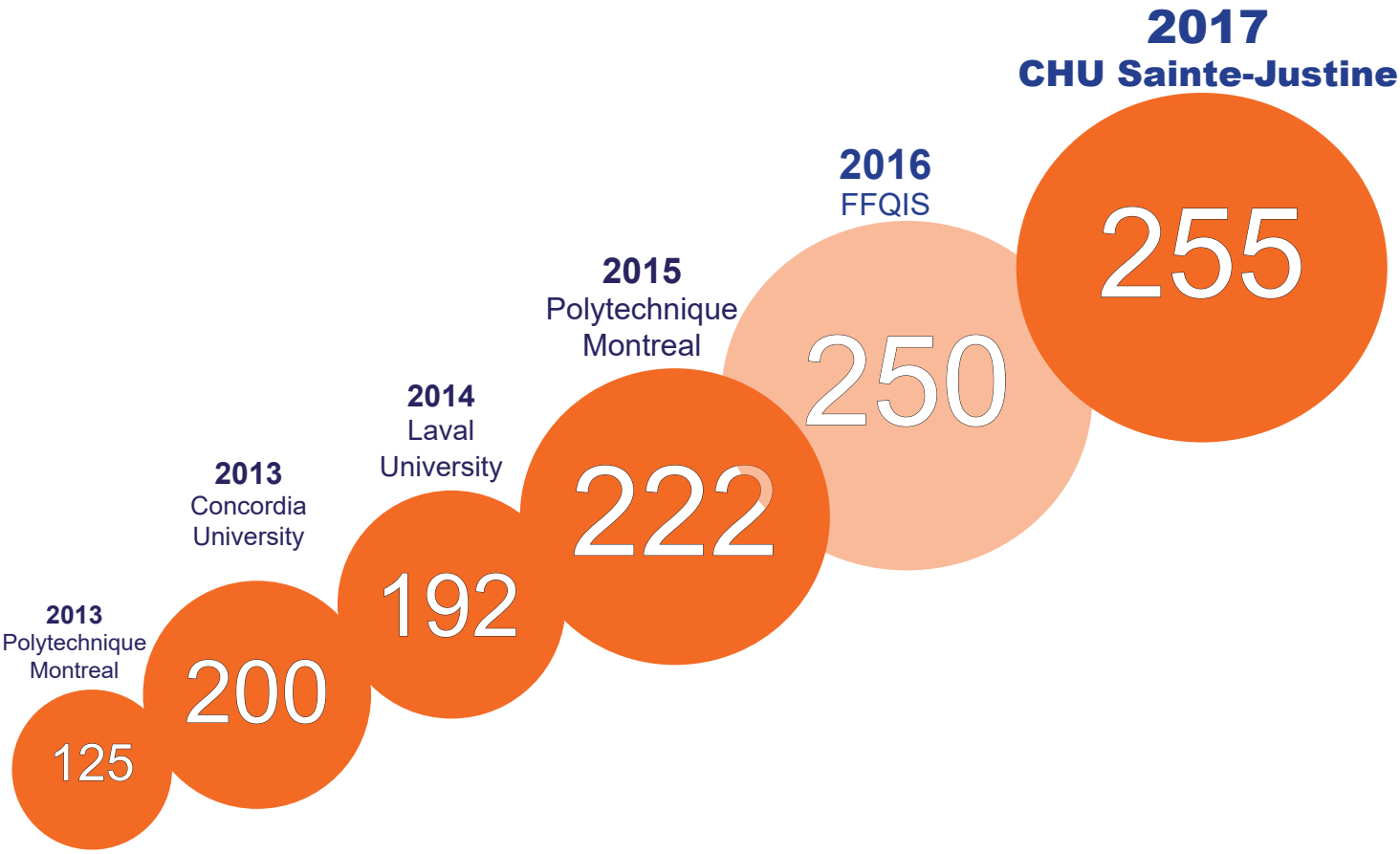
The Forum offered lots of informative scientific and industrials sessions. The participation of the representative of initiatives supported by the ``Apogée program`` allowed to show the vitality of Montreal and the leadership of the Quebec universities. The “Minutes of members”, Which are now a tradition in MEDTEQ events, once again were very appreciated and allowed rewarding meetings.

This large gathering of the Quebec medical technologies community is a good example of its effervescence, current and upcoming collaborations which reinforce it and succes which already stand it out to the international scene.

Indeed, theMEDTEQ forum also had the privilege to accommodate Alsace BioValley and Medicen Paris Région as well as the delegation of French SME. The poles Alsace BioValley and Medicen have benefitted from the occasion to announce inernational collaborations with Quebec, a jointed call of project and an agreement with MEDTEQ Consortium.

Distribution de la participation au Forum annuel, 31 janvier 2017, CHU Sainte-Justine

Croissance de la participation au Forum annuel du Consortium



PROJECTS UPDATE

23 Autorized → 32 Autorized

10 In progress (aug 2016) → 20 In progress (march 2017)

2 Completed

10 Preparing for launch

12 L.RGE COMPA-

23 institutions

80 researchers

132 students

Potencial of 110 publications

EXAMPLE OF A COMPLETED PROJECT:

Multi-channel mobile teleconsultation system for homecare assistance

INSTITUT INTERDISCIPLINAIRE D'INNOVATION TECHNOLOGIQUE (3IT)

VIGILENT TELESYSTEMS

UNIVERSITÉ DE SHERBROOKE

Centre de santé et de services sociaux – Institut universitaire de gériatrie de Sherbrooke

PhysiAtlas

Centre de recherche sur le vieillissement

« MEDTEQ is an essential link to bring together the expertise present in our universities, the clinical needs of patients and commercialization of innovations for the healthcare sector. »

François Michaud, Professor, University of Sherbrooke

Design and the development of automated tools to characterize, modelize and quantify the morphology of the ostéo-articular systems using several radiographic sights

EOS www.eos-imaging.com

ÉTS Le génie pour l'industrie

Global imaging ON LINE Global answers to your specific needs

Our collaborative research projects in progress

Virtual stent grafts planning: Digital simulation of endovascu-laire repair of aneurisms of the abdominal aorta (AAA)

CAE Santé
SIEMENS
ÉTS Le génie pour l'industrie
CHUM Centre hospitalier de l'Université de Montréal
McGill

Improved detection of cancer using the latest advances in artificial intelligence technologies

ApSTAT Technologies
Global imaging
imagia
CHUM Centre hospitalier de l'Université de Montréal

Use of reality increased to improve the formation on the simu-lators of health care

CAE Santé
CIMMI Centre en imagerie numérique et médias interactifs

Decision support tools for the planning and delivery of homecare asistance

AlayaCare

ApSTAT TECHNOLOGIES

POLYTECHNIQUE MONTRÉAL

New vitality index gathered with the Hexoskin vest for patients suffering from angina pectoris and subjected to coronary re-vascularization or other medical treatments. (NOVA-SKIN study)

CARRÉ TECHNOLOGIES

60 ANS INSTITUT DE CARDIOLOGIE DE MONTRÉAL

Détection spectroscopique en temps réel de la marge tumorale intra-opératoire chez les patients atteints de cancer de la prostate

ODS MEDICAL

INTUITIVE SURGICAL®

CHUM CENTRE HOSPITALIER DE L'UNIVERSITÉ DE MONTRÉAL

POLYTECHNIQUE MONTRÉAL

Validation of a new system of acquisition electrocardiograms without contact by comparison with an electrocardiogram derived from classical electrode.

SIG.NUM

HÔPITAL DU SACRÉ-CŒUR DE MONTRÉAL

HSCM *Doués pour la vie*

Activities : 2016 - 2017

September

October

- 1st French and Quebec Forum of the innovation in health (FFQIS) Polytechnique Montreal
- Economic mission of the Ministry of the Economy, Science and the Innovation with ADVAMED, Mineapolis
- Conference Wear it Smart, Hydro-Quebec Agora
- Annual conference AGE-WELL, Bonnaventure Place, Montreal

November

- ``Entretiens Jacques Cartier``, virtual reality, the digital one and serious games: Applications in readjustment and social integration, Lyon, France

Décember

2017

January

Launching of the 8th Call for projects
- Annual forum MEDTEQ in CHU Sainte-Justine

- MEDTEQ visits the new Research centre of CHU Sainte-Justine

February

- Annual general meeting of the members

March

- Economic mission of world Business, government of Canada, in China

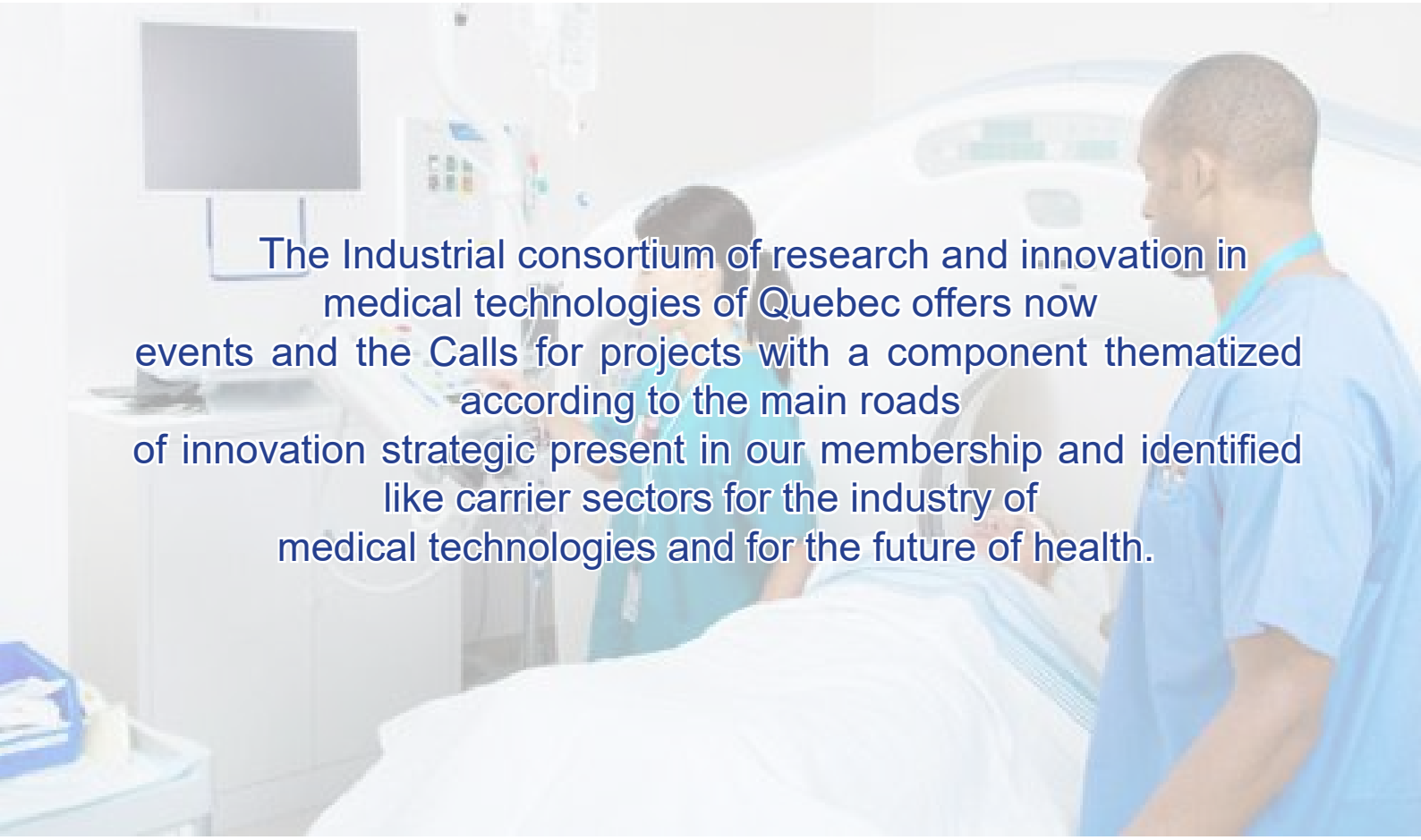
The last October 11th and 12th, 250 actors of the medical technologies sector were mobilized to take part of the 1st Franco-Quebecois Forum of Innovation in Health, in Polytechnique Montreal. The event permited all to exchange and learn some more on the three topics of the Forum: the imagery, the biomaterials/biomechanics, as well as E-health.

It is about the first international go between France and Quebec in the medical technologies field and the event showed a beautiful complicity between the nations.

The event was indeed coordinated by the close collaboration of the Quebec partners organizers: Polytechnique Montreal, the GRSTB and MEDTEQ and of the French: INSERM, Aviesan, MEDICEN and Alsace BioValley.

There was a beautiful complicity as much in the organizers than the speakers and the students who took part of the `Concours intenational d'affiches étudiants``.

Strategic axes of innovation



The Industrial consortium of research and innovation in medical technologies of Quebec offers now events and the Calls for projects with a component thematized according to the main roads of innovation strategic present in our membership and identified like carrier sectors for the industry of medical technologies and for the future of health.

- Connected health
- Human Performance
- Imagery and simulation
- Perdonalized Health
- Materials and technologies entitLING

Santé connectée

TIC
- Autonomie patient et soins à domicile
- Applications mobiles
  - Mieux-être
- Logistique des soins
  - Dossier médical électronique
  - Optimisation des opérations

Télésanté
- Télémédecine
- Monitoring à distance
- Formation à distance

Méga données (Big data)
- Aide au diagnostic
- Individualisation des traitements
  - Profil génétique
- Analyse prédictive
- Internet des objets

Performance humaine

Prévention

Médecine sportive
- Prévention des blessures
- Amélioration de la performance

Réadaptation
- Prothèses
- Physiothérapie
- Adaptation à l'environnement
- Récupération
- Biomécanique

Technologies habilitantes

Textiles | BioMEMS | Biomatériaux | Plastiques/Polymères | Nanotechnologies

Imagerie et Simulation

Visualisation
- Soutien au diagnostic

Applications chirurgicales
- Planification
- Navigation
- Robots chirurgicaux

Formation médicale
- Personnel de la santé
- Formation spécialisée

Santé personnalisée

Diagnosis
- Biomarqueurs
- Au chevet

Solutions sur mesure
- Implants
- Traitement ciblé

Neurosciences

Cardiologie

Orthopédie

Governance

Committed Governance

IN 7 MONTHS

7 Board
4 SC
8 EC
1 AGM

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innovation - vision - technologie

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HEC MONTRÉAL

iiLm
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60 ANS INSTITUT DE CARDIOLOGIE DE MONTRÉAL

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IRDPQ
INSTITUT UNIVERSITAIRE DE RÉADAPTATION

McGill

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3M

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Averna

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Helping all people live healthy lives

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EMcision

emd technologie

EMOVI

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LUMED

MEDTEQ COMMUNITY

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« MEDTEQ is the ideal platform helping companies of all sizes and groups of research to transform the innovating ideas into business success with economic consequences while respecting the regulation and the complex challenges of the healthcare systems. »

Pierre Bérubé
President, Solutions Greybox

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