

Life Sciences and Health Technologies Greater Montreal Ecosystem Overview

Sept 2019





MONTREAL INVIVO

- Non-for-profit Economic Development Organization
 - Industry driven
 - University fueled
 - Government funded (mostly)
- Business environment conducive to innovation & growth of the cluster's organizations
 - > 650 organisations
 - 150 research centers and groups
 - 7 Sub-sectors

Innovative
pharmaceuticals

Medical
Technologies

Biotechnologies

Digital Health
and AI

Contract
Research
Organizations

Contract
Manufacturing
Organisations

Natural Health
Products



MONTREAL INVIVO

MANDATE

- FOSTER ECONOMIC DEVELOPMENT OF THE LSHT SECTOR

STRATEGIC PRIORITIES

- CAPITALIZE ON RESEARCH AND INNOVATION
- DEVELOP A **WORLD-CLASS INDUSTRY**
- FOSTER THE **INTEGRATION OF INNOVATION**
- ALIGN FOR **TALENT POOL COMPETITIVENESS**
- SUPPORT **NICHES OF EXCELLENCE**

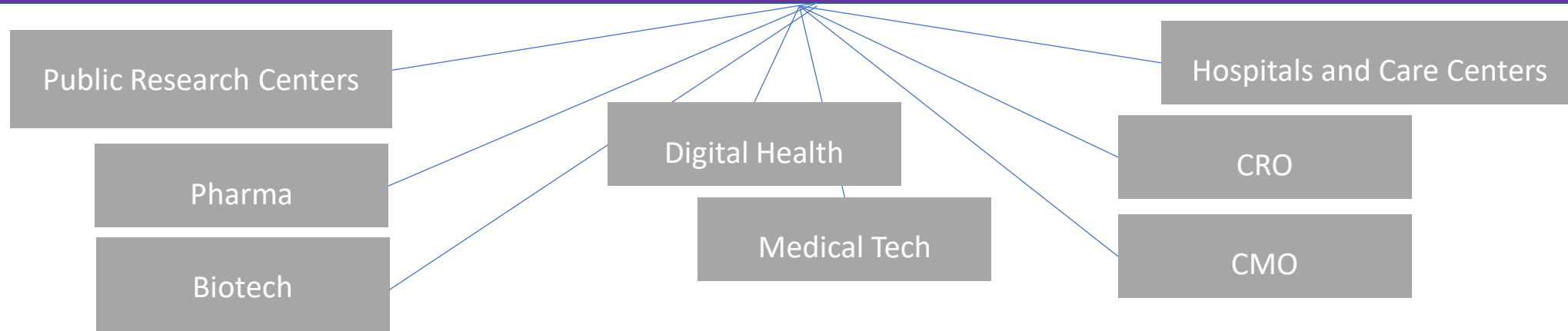
ACTIVITIES

- **STRATEGIC COMMITTEES**
- STUDIES/ANALYSES
- CENTRAL Point of Contact- **CONNECTING THE RIGHT STAKEHOLDERS**
- HIGH IMPACT PROJECTS
- NETWORKING EVENTS
- DIRECT SUPPORT TO SMEs

VALUE CHAIN IN HEALTH SCIENCES- AI'S POTENTIAL THROUGHOUT



ARTIFICIAL INTELLIGENCE

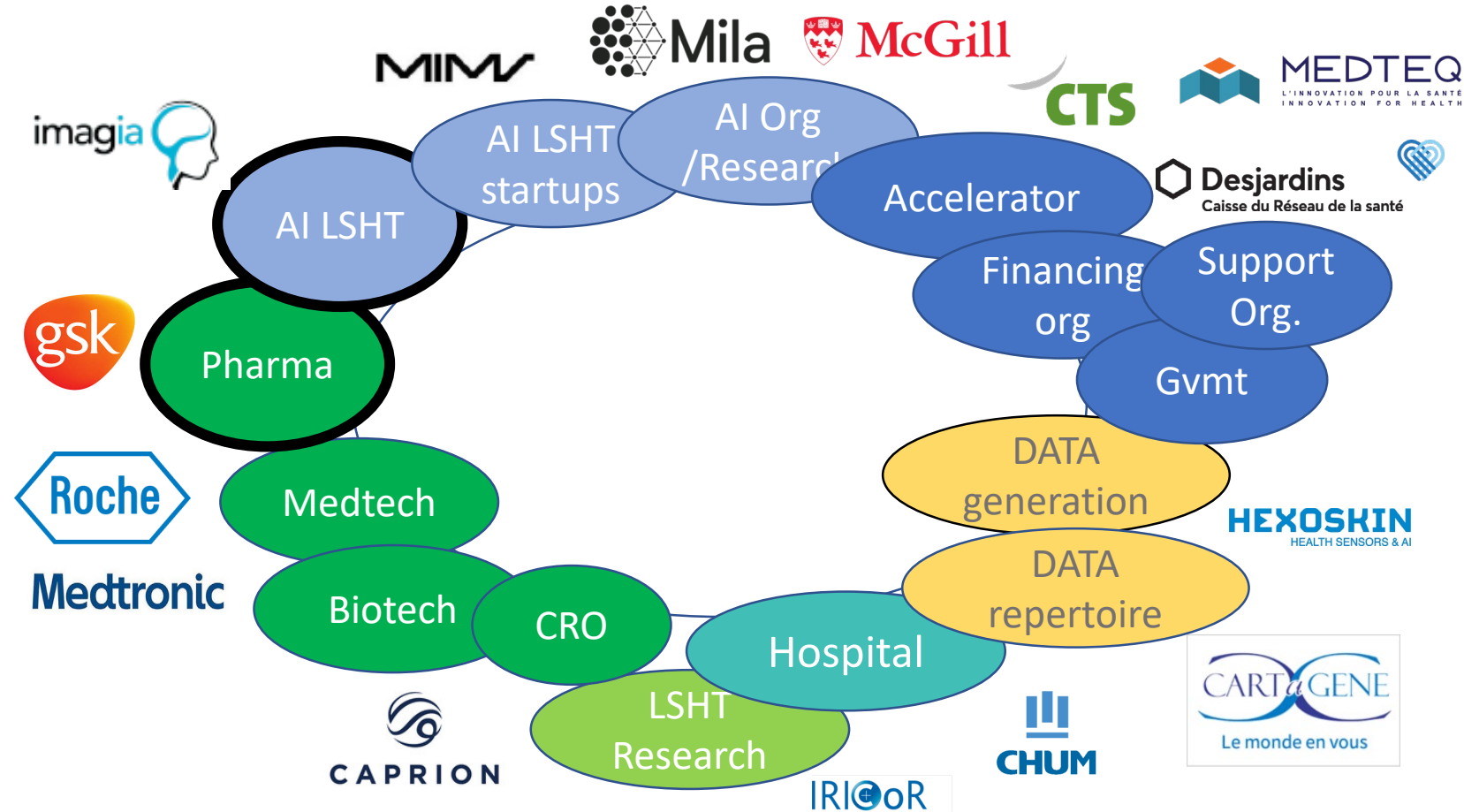


STRATEGIC COMMITTEE IN AI APPLIED TO LSHT

MISSION: FOSTER THE DEVELOPMENT OF AN **AI-PROPULSED LIFE SCIENCES AND TECHNOLOGIES HEALTH SECTOR**, FROM DIAGNOSIS TO THERAPY, AS WELL AS HEALTH PREVENTION AND ADMINISTRATION OF CARE.

Development and growth of :

- Organizations in AI in LSHT
- Organizations in LSHT with the use of AI





STRATEGIC COMMITTEE IN AI APPLIED TO LSHT

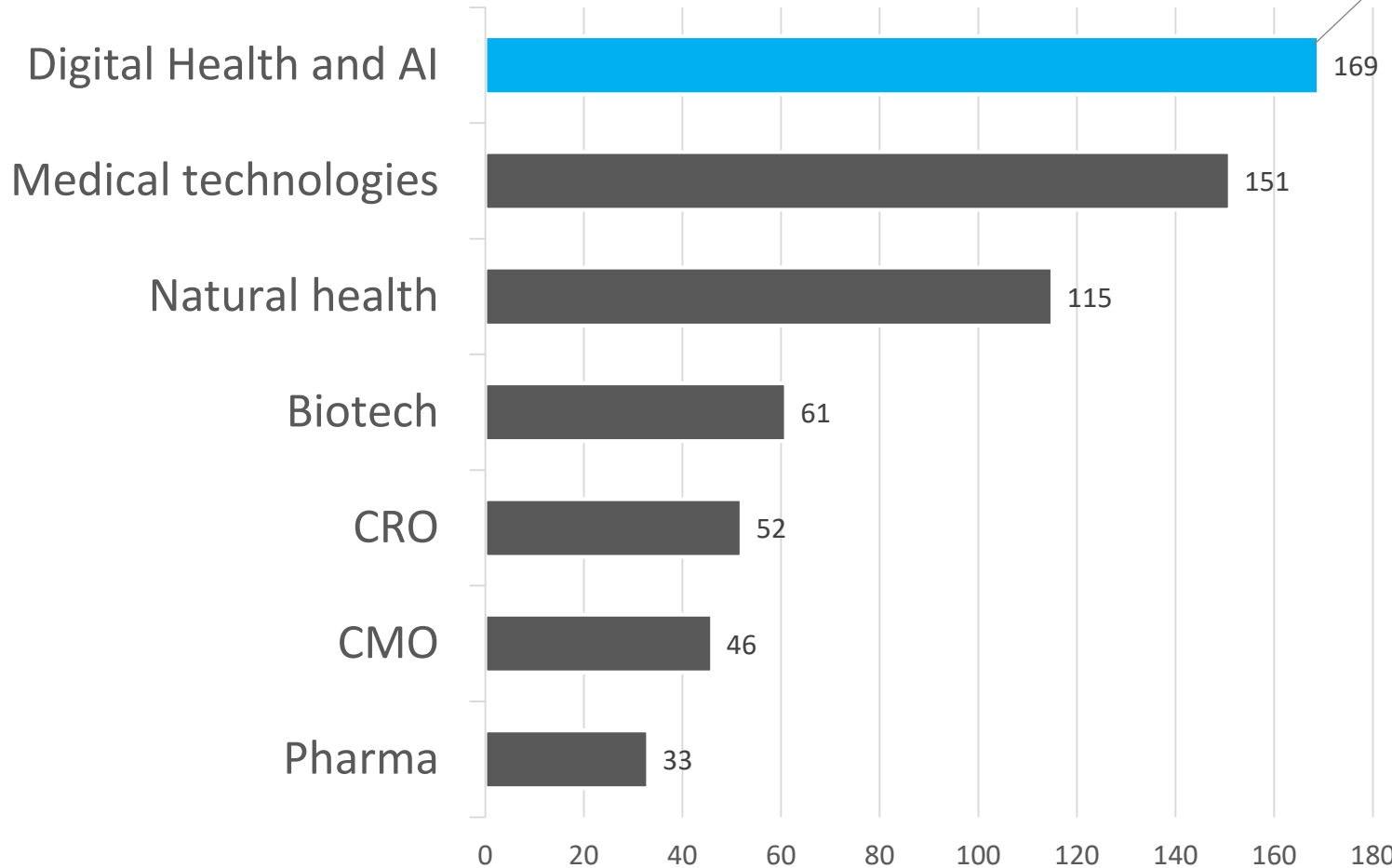
1. Develop a differentiated strategy to position Québec in AI LSHT
2. Faciliate a concerted collaboration between actors (from developpement to adoption)
3. Ensure a complete and adapted financing chain in AI SVTS



TOP-LINE INDUSTRY INFO

AN INDUSTRY WITH A STRONG PRESCENCE IN DIGITAL HEALTH AND AI

Distribution of companies by sector, 2016



Almost 1/3 of companies

In 2019, approx 50 companies have a strong AI-LSHT component

93%

< 200 employees

Examples of companies that have AI in healthcare in their core offering



IMAGIA: AI-Driven personalized care



Zilia: Innovative non-invasive oximetry technologies revolutionizing eye care



My Intelligent Machines: accelerating post genomic research by leveraging AI & bioinformatics



Arctic Fox AI: AI-Assisted radiology for AD and other neurological diseases



InVivo AI: developing novel deep learning algorithms for *de novo* drug design specifically adapted for use in low data environments.



Diagnos: early detection of critical health issues through the use of AI



Perceiv : AI-based healthcare company specializing in subject targeting, and prognosis in AD and CNS-related diseases



BIOS: developing neural interfaces to enable AI-based treatments on organs and nerve systems throughout the body



Hexoskin: Remote Patient Monitoring for cardiac, respiratory, activity, and sleep data integrated with AI-powered Hexoskin Connected Health Platform.



Myelin: AI-powered information and collaborative platforme for autism



Mr Young: AI-powered chatbot designed to help cope with anxiety



THANK YOU!



*Need more information on Who's Who in AI in LSHT
in the area ?*

Contact information:

Marie-Lise Dion, PhD, MBA

Director, Businesses and Strategic Initiatives

mldion@montreal-invivo.com