

enabling new business

 **SWITZERLAND  
GLOBAL  
ENTERPRISE**



## **EXPORTING MEDTECH AND DIGITAL HEALTH SOLUTIONS TO CANADA HOW TO MAKE IT WORK?**

Webinar - Wednesday 21 February 2024

# Welcome – Moderation

---

## Etienne Gamache

---

Senior trade advisor

Swiss Business Hub Canada

Mail: [etienne.gamache@eda.admin.ch](mailto:etienne.gamache@eda.admin.ch)

**ABOUT S-GE**



## Switzerland Global Enterprise



### The official Swiss consultancy, promotion and platform organization for export and investment promotion

Together with our partners at home and abroad, we support Swiss SMEs in their international business and help innovative foreign companies with potential that are interested in settling in Switzerland. In this way, we create added value for our clients and prosperity for Switzerland.

## At a glance



Non-profit organization with over 2,000 members



**Export promotion:** On behalf of the Confederation (SECO) since 1927



**Investment promotion:** On behalf of SECO and all canton since 2008



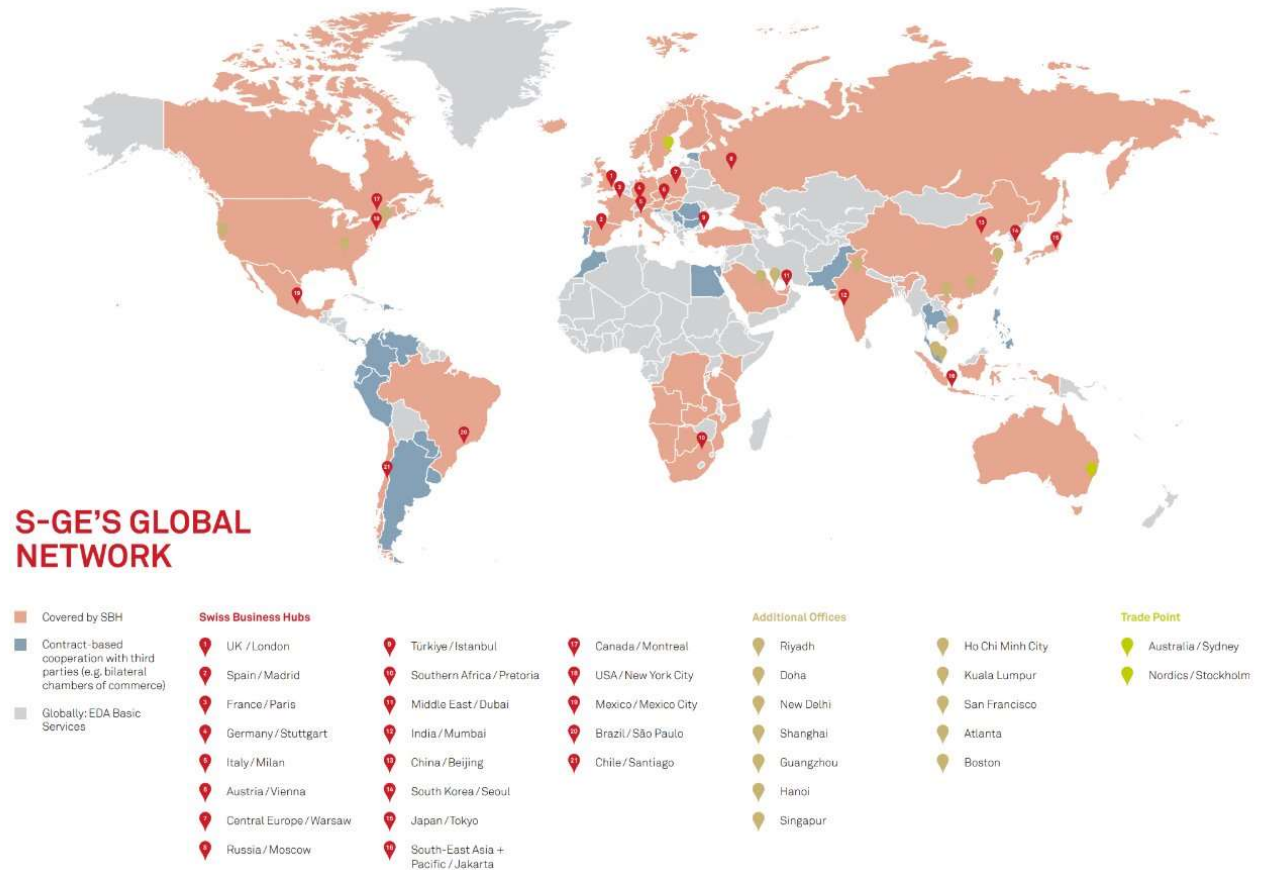
Swiss presence: Head office in Zurich, branch offices in Renens and Lugano



Global presence: 26 shared global offices with the DFA, other markets via partner networks

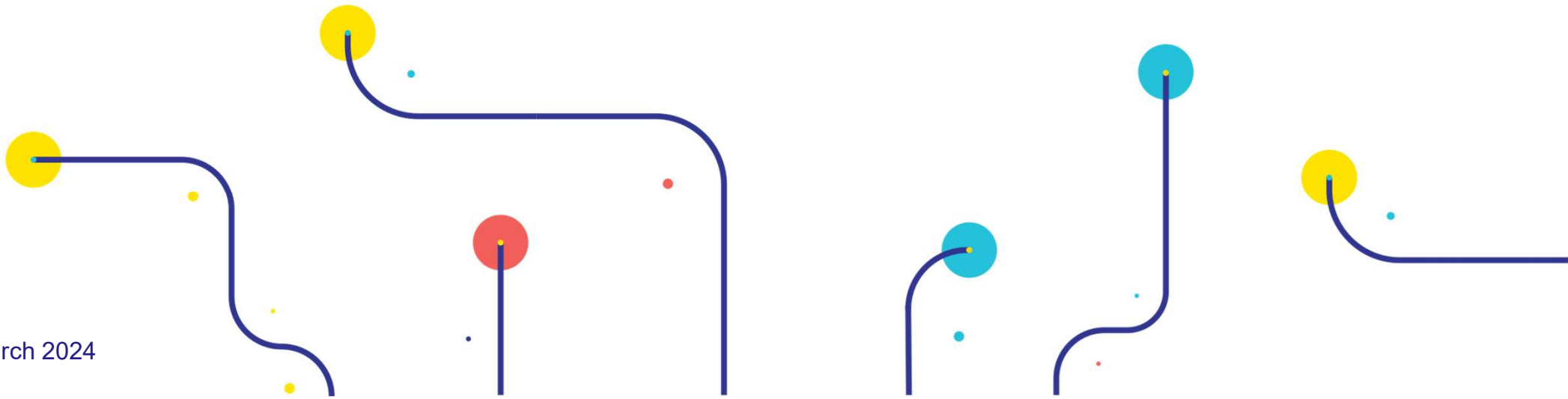
# There for customers worldwide - our global presence

Together with the Federal Department of Foreign Affairs (FDFA), we currently operate offices in 31 countries. 22 Swiss Business Hubs are located in important markets and regions. We also operate four Trade Points, smaller offices in further markets.



# Swiss Healthcare Startups

March 2024



## Contact details

Diana Hardie

CEO

Swiss Healthcare Startups

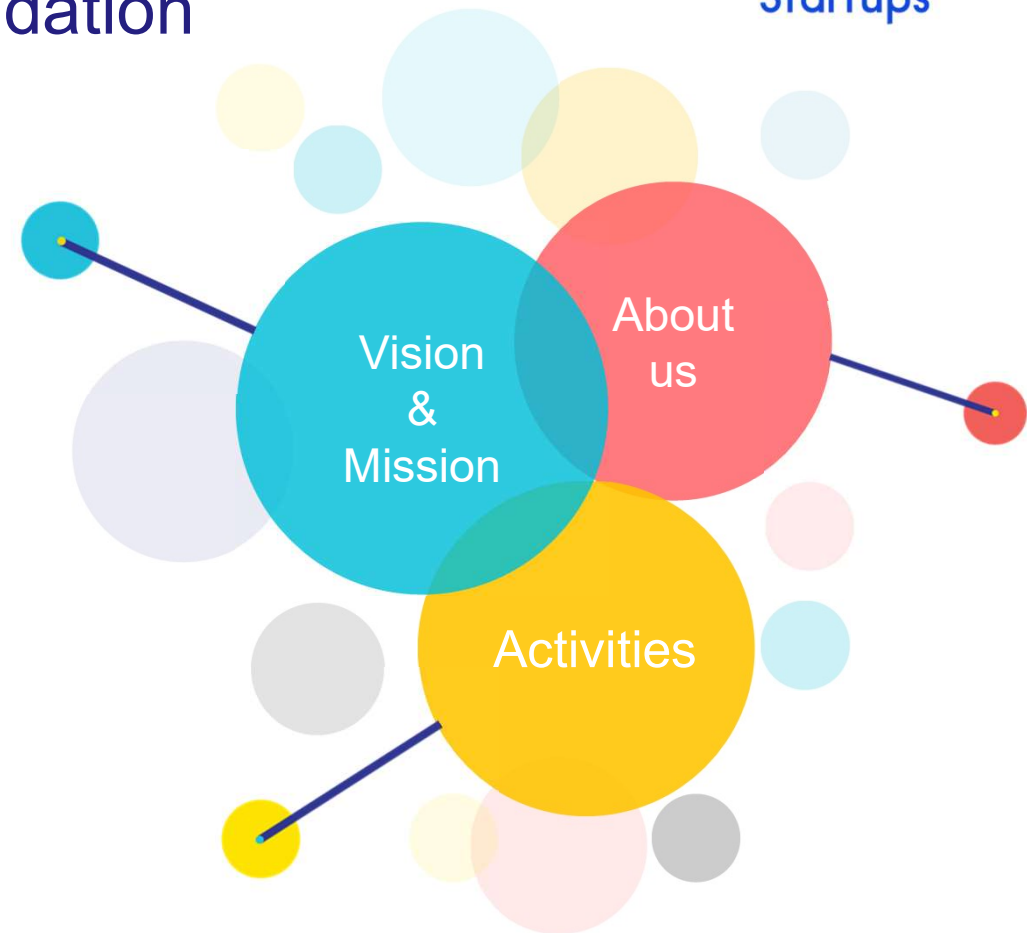
[Diana@swisshealthcarestartups.com](mailto:Diana@swisshealthcarestartups.com)

[www.linkedin.com/in/diana-hardie](https://www.linkedin.com/in/diana-hardie)



# Swiss Healthcare Startups - Foundation

- non-profit organization
- founded in 2016
- by successful **entrepreneurs, managers, and influencers**
- **mission: supporting innovative healthcare startups** that aim to add value to the Swiss healthcare ecosystem & supporting health organizations in **driving open innovation**





# SHS, a **nonprofit** organization supporting innovative Start-ups and corporates in the Swiss healthcare ecosystem



Thought leader in Healthcare



Matchmaking / Networking



Education



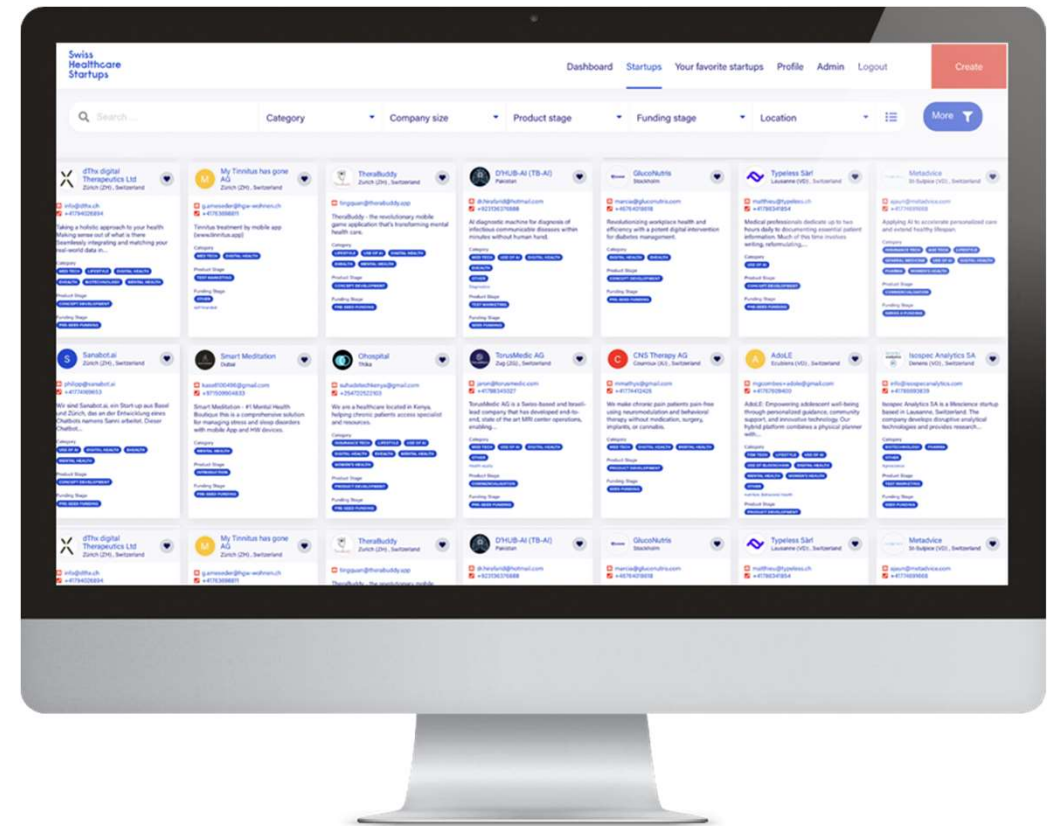
Driving open innovation



Bridging the gap

# Cortex – The SHS Database

- ★ **>680** Startup Members
- ★ **>100** new startup members during 2023 (screening & onboarding process)
- ★ **~ 85%** Swiss startups
- ★ **28** countries, **5** continents
- ★ **Early startups to mature** scale-ups
- ★ Digital Health, MedTech, Age Tech, AI for Health, Use of Blockchain, BioTechnologies, Pharma, Mental Health, Insurance Tech, Women's Health...



# *Path to Regulatory Approval for Medtech in Canada*



**Me Louis-Paul Marin, eng., LL.B., LL.M.**

President

February 21<sup>st</sup>, 2024

YOUR PATH TO COMPLIANCE



**LOK**  
Amérique du Nord



## Louis-Paul Marin

President + Founder  
LOK North America Inc.

YOUR PATH TO COMPLIANCE



# Roadmap

## Answering the 5 “Whats”

- What type of health product?
- What are the S&E Requirements?
- What is the classification?
- What is the applicable regulatory process, if any?
- What is the required QMS certification, if any?



# *Path to Regulatory Approval in Canada?*



YOUR PATH TO COMPLIANCE



# What Type of Health Product?

First step... must be assessed from the get go...

- Legal definitions lead to different interpretations
- Marketing claims must be aligned with regulatory claims

*Common sense often does not prevail...*



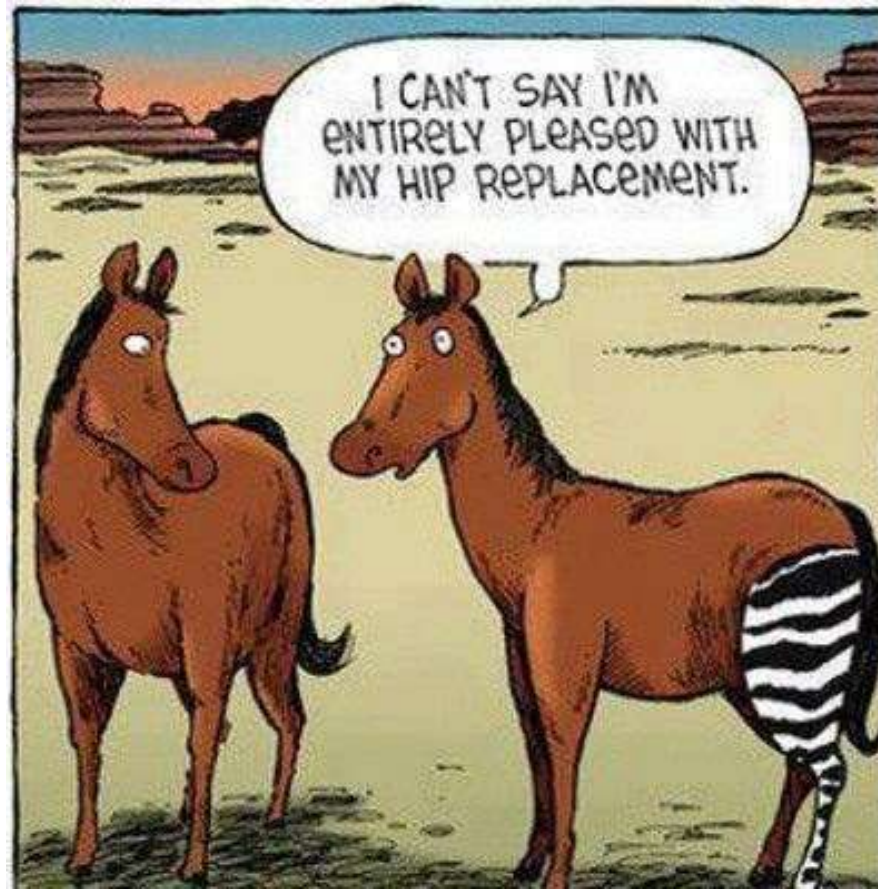
# Drug or Device?

*...it does not include such an instrument, apparatus, contrivance or article, or a component, part or accessory of any of them, that does any of the actions referred to in paragraphs (a) to (e) solely **by pharmacological, immunological or metabolic means** or solely **by chemical means** in or on the body of a human being or animal.*

Extract from the *Food and Drug Act*



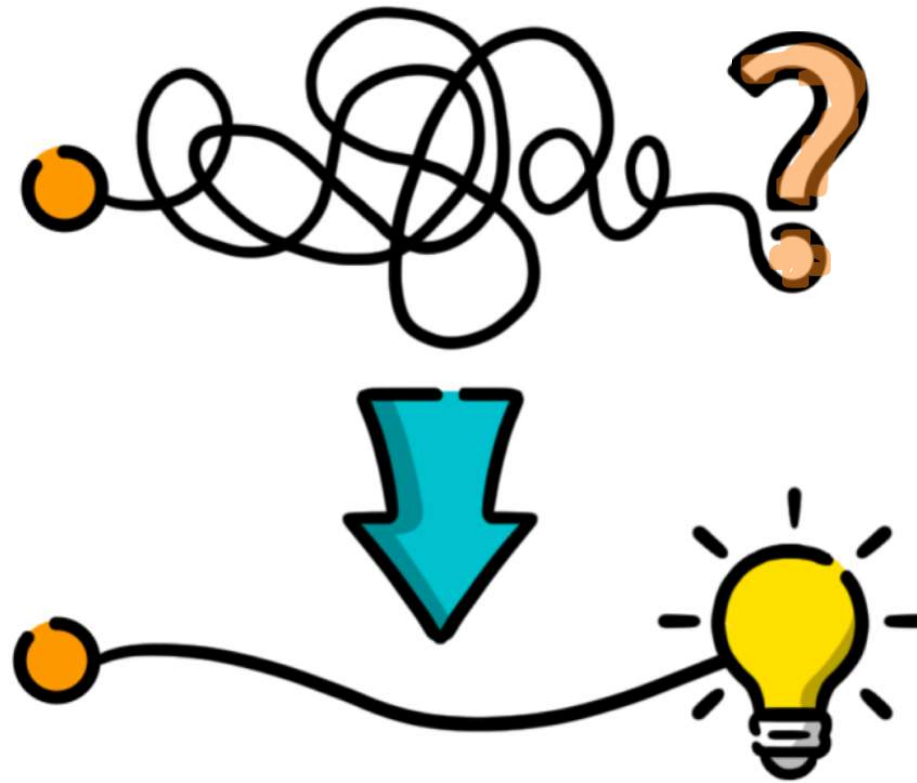
## Vet market...



YOUR PATH TO COMPLIANCE

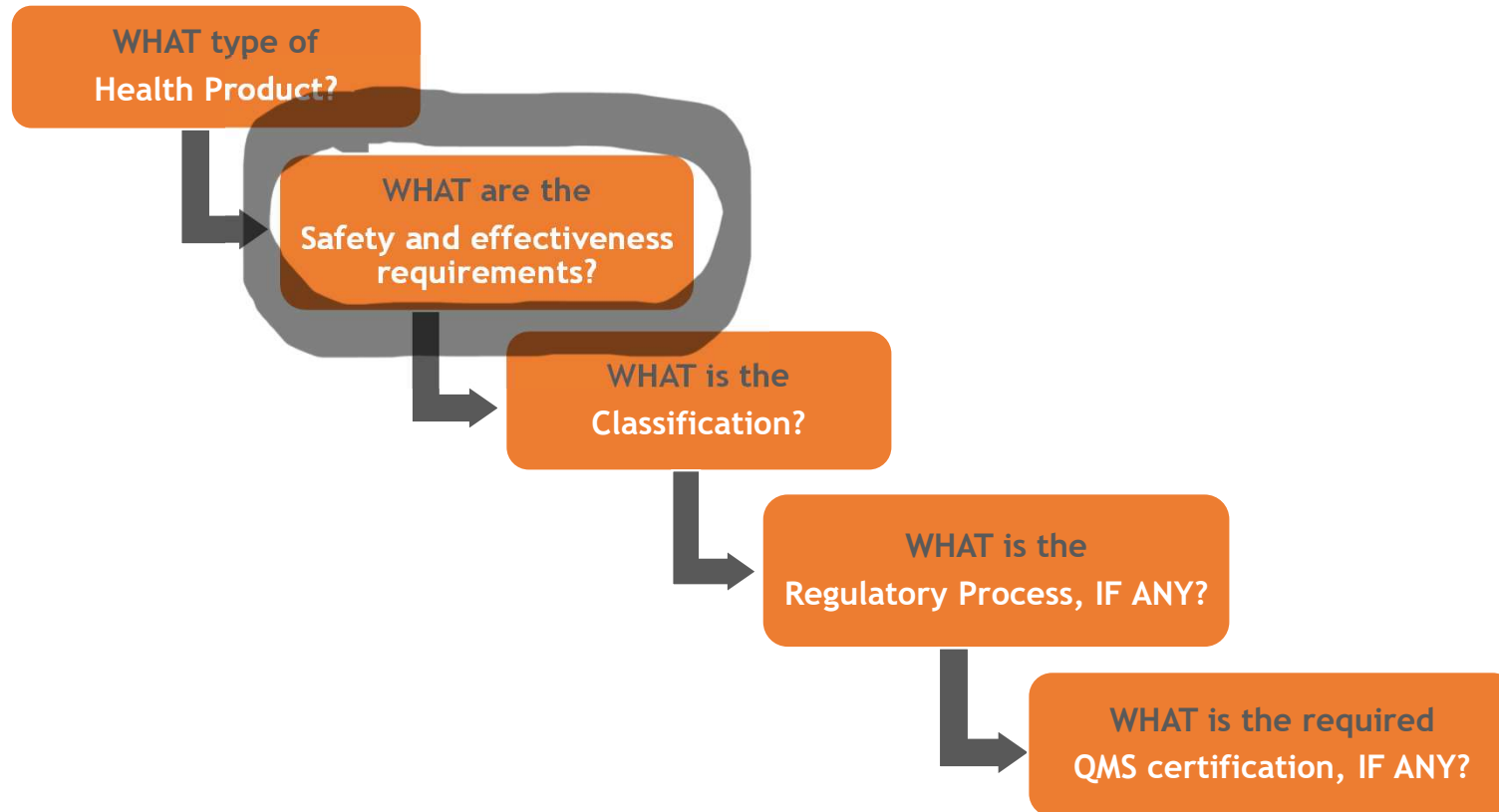


# Safety and Effectiveness



# Regulatory Path

## Answering the 5 “Whats”



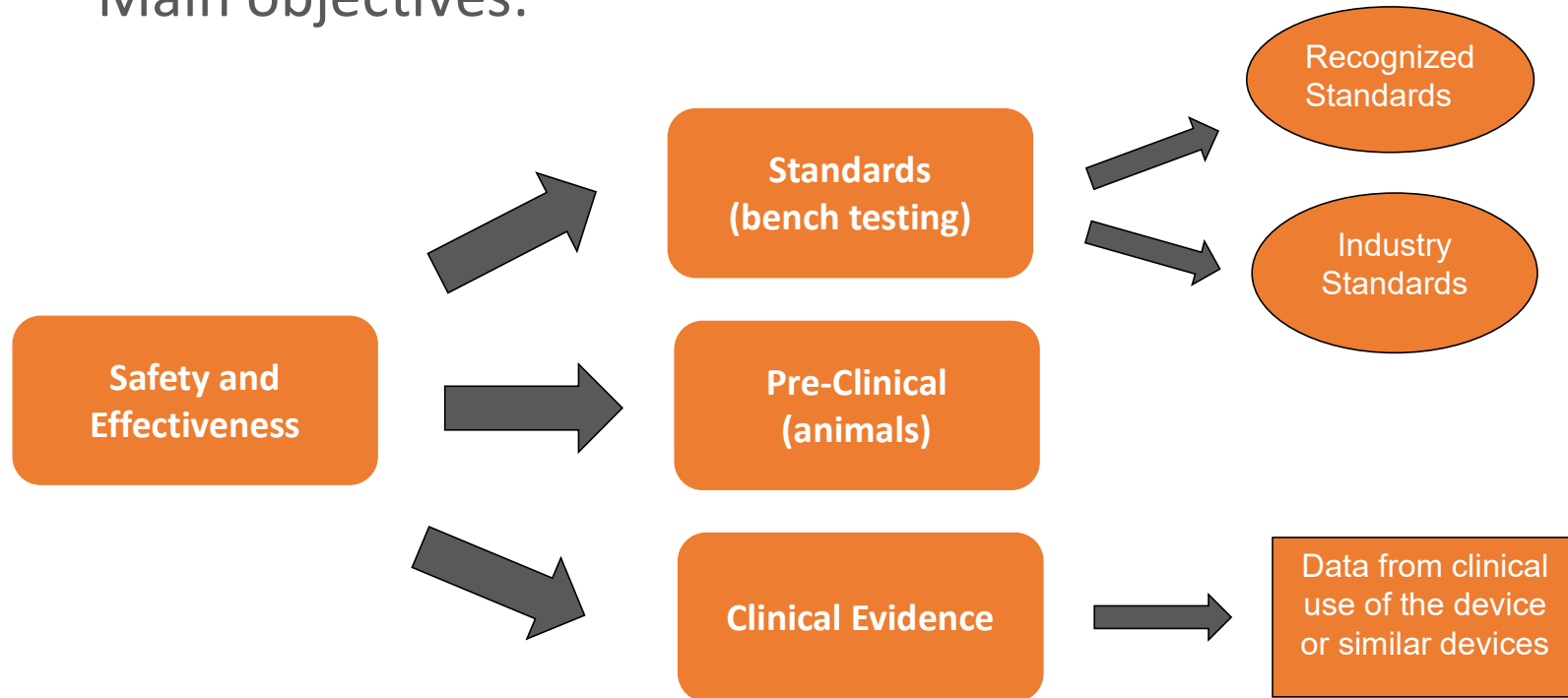
## Class II, III and IV: What must be typically demonstrated?



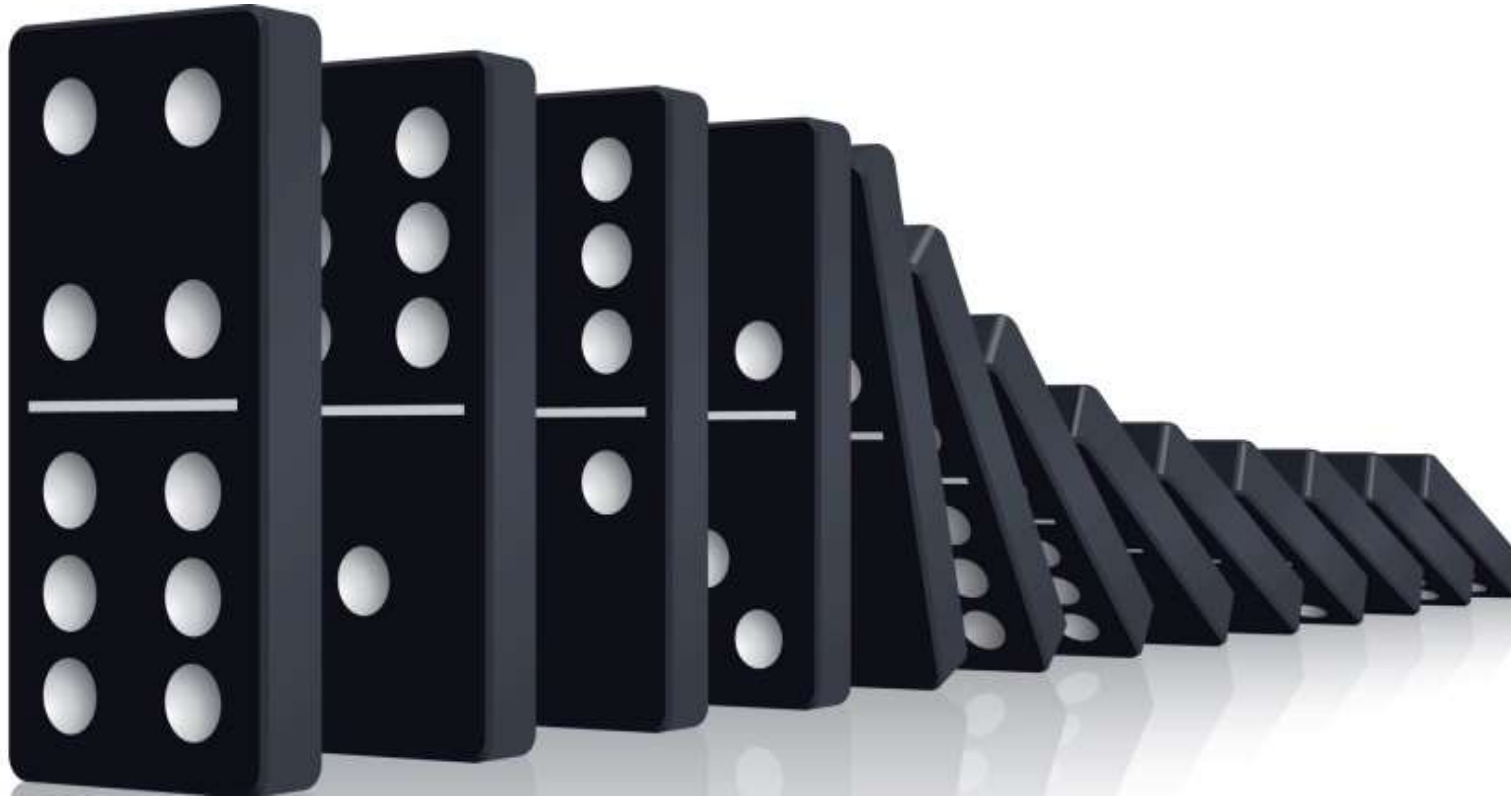
**Medical Device Licence**  
Review to evaluate the safety and  
effectiveness of all devices

# Fundamental Requirements

Main objectives:



# Risk Management



YOUR PATH TO **COMPLIANCE**



# Risk Classification

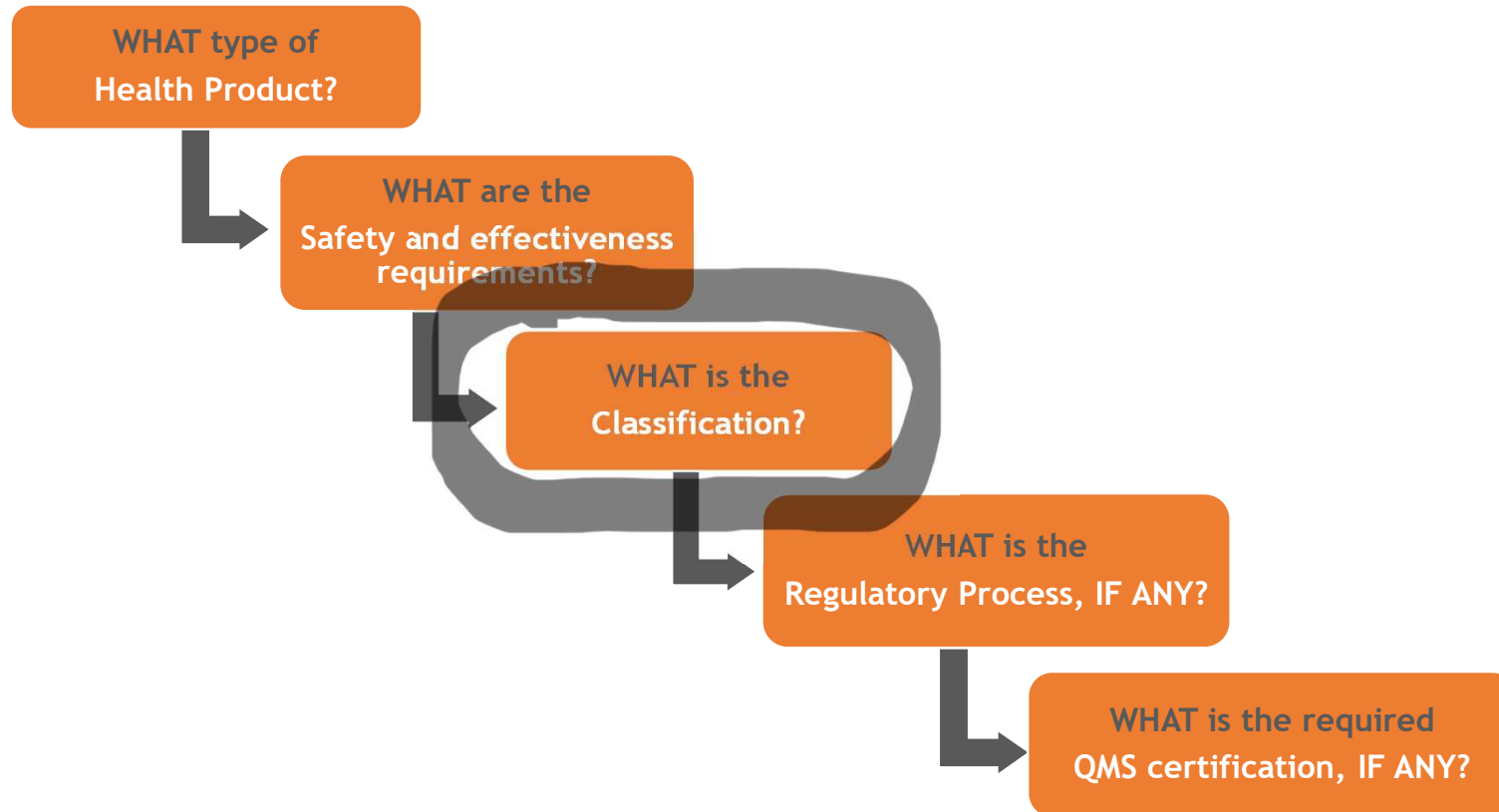


YOUR PATH TO COMPLIANCE



# Regulatory Path

## Answering the 5 “Whats”





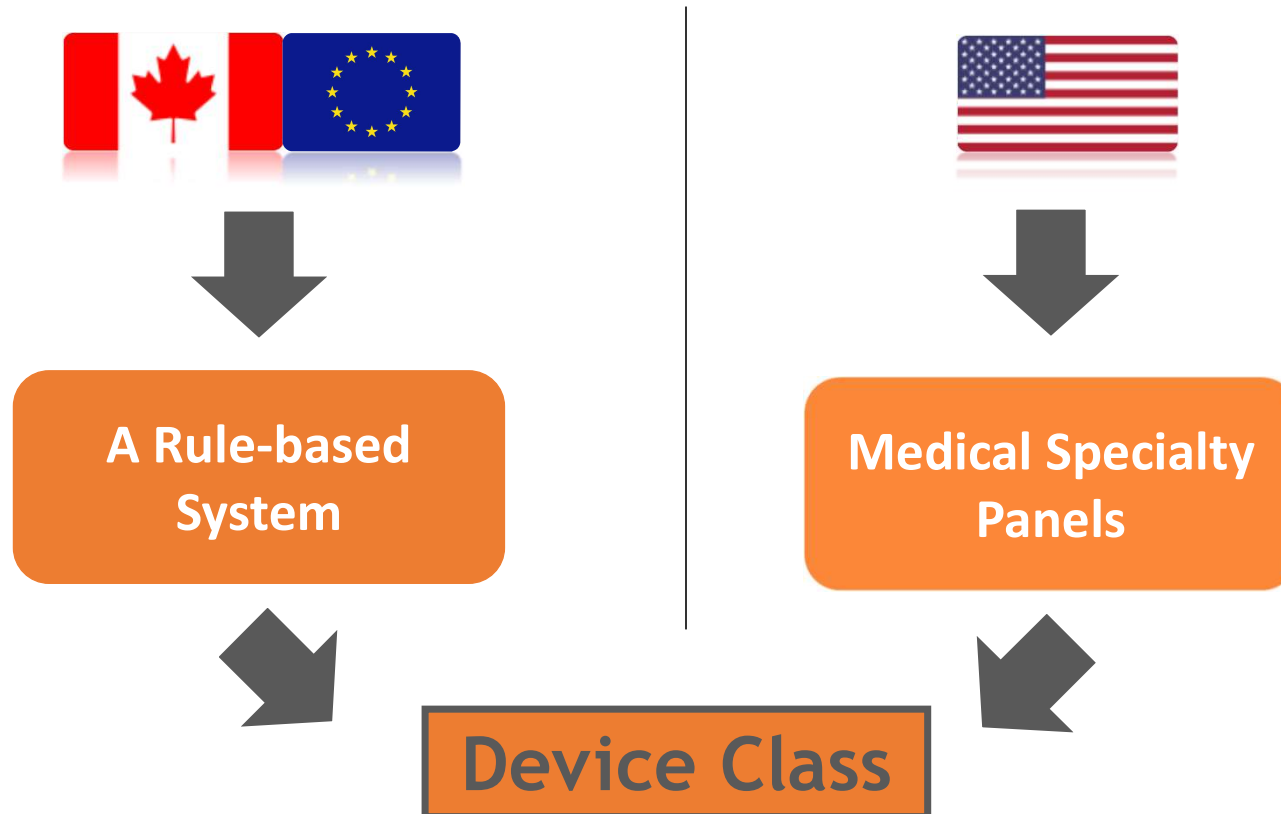
# Risk Classification

The classification system is based on a series of factors, notably:

- how long the device is intended to be in continuous use;
- the duration of contact in or on the affected body part;
- whether or not the device is invasive or requires surgical intervention;
- whether the device is an active or non-active implantable.

# Device Classification

## Determining Device Class



# Risk Classification

Rule 10(1):

- active diagnostic devices
- that supply energy for the purpose of imaging or monitoring physiological processes...

→ as Class II



# Risk Classification

Rule 10 (2): if erroneous readings could result in immediate danger...



➔ as Class III

# Risk Classification



CLASS IV

CLASS III

CLASS II

CLASS I



CLASS III

CLASS IIb

CLASS IIa

CLASS I



CLASS III

CLASS II

CLASS I



# Risk Classification

## CLASS I

- ✓ Force-measuring platform
- ✓ Manual, adjustable hospital bed
- ✓ Mechanical wheelchair
- ✓ Hand Splint

## CLASS II

- ✓ Digital dental imaging system
- ✓ Powered toothbrush
- ✓ Long term, portable ECG recorder
- ✓ Laryngoscope

# Risk Classification

## CLASS III

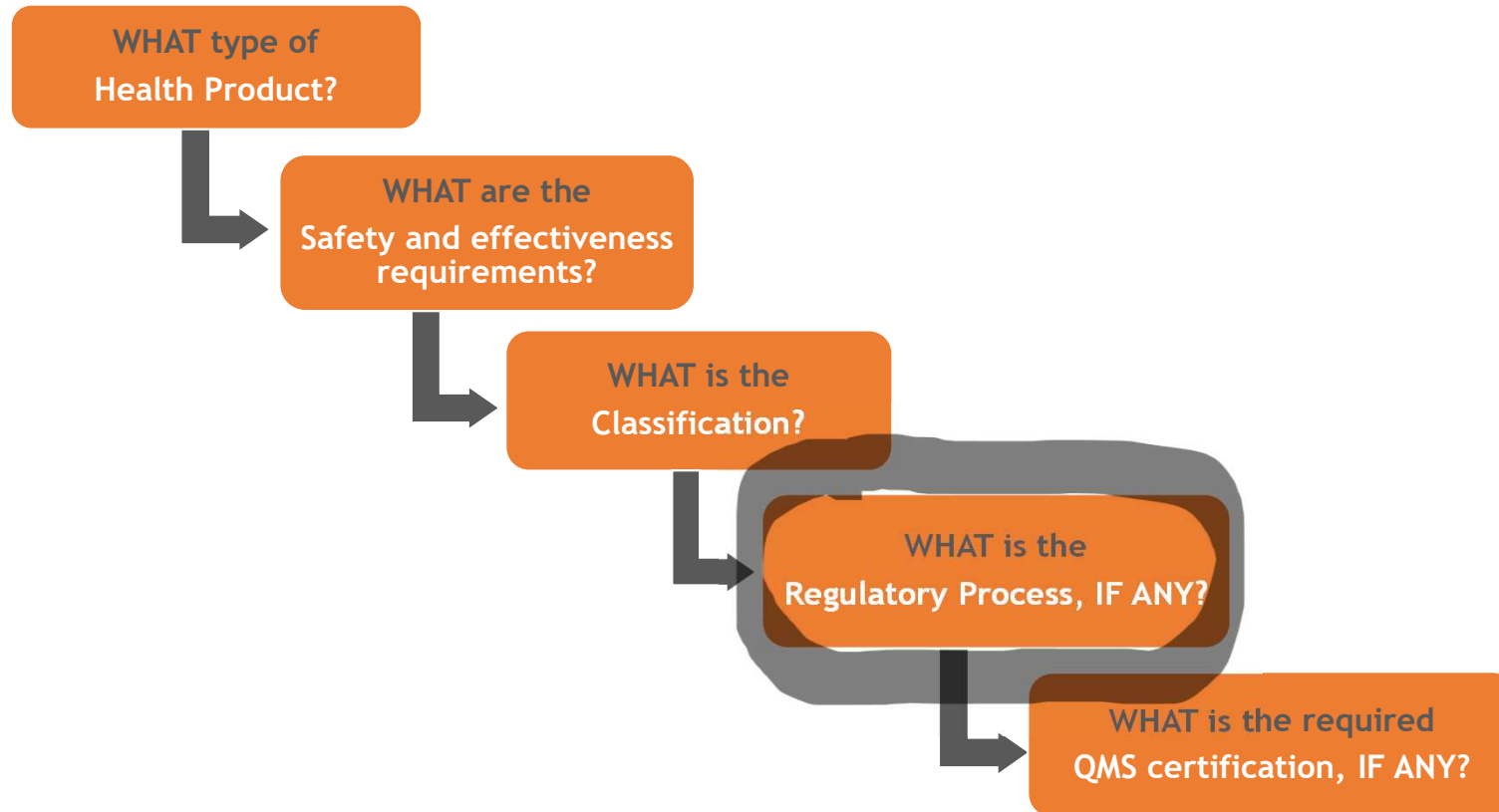
- ✓ Dental Implants
- ✓ Glucometers
- ✓ Neonatal Incubators
- ✓ Hyperbaric chambers

## CLASS IV

- ✓ Intracranial pressure monitoring
- ✓ Artificial heart
- ✓ Intra-aortic valvuloplasty balloon catheter
- ✓ Bone graft

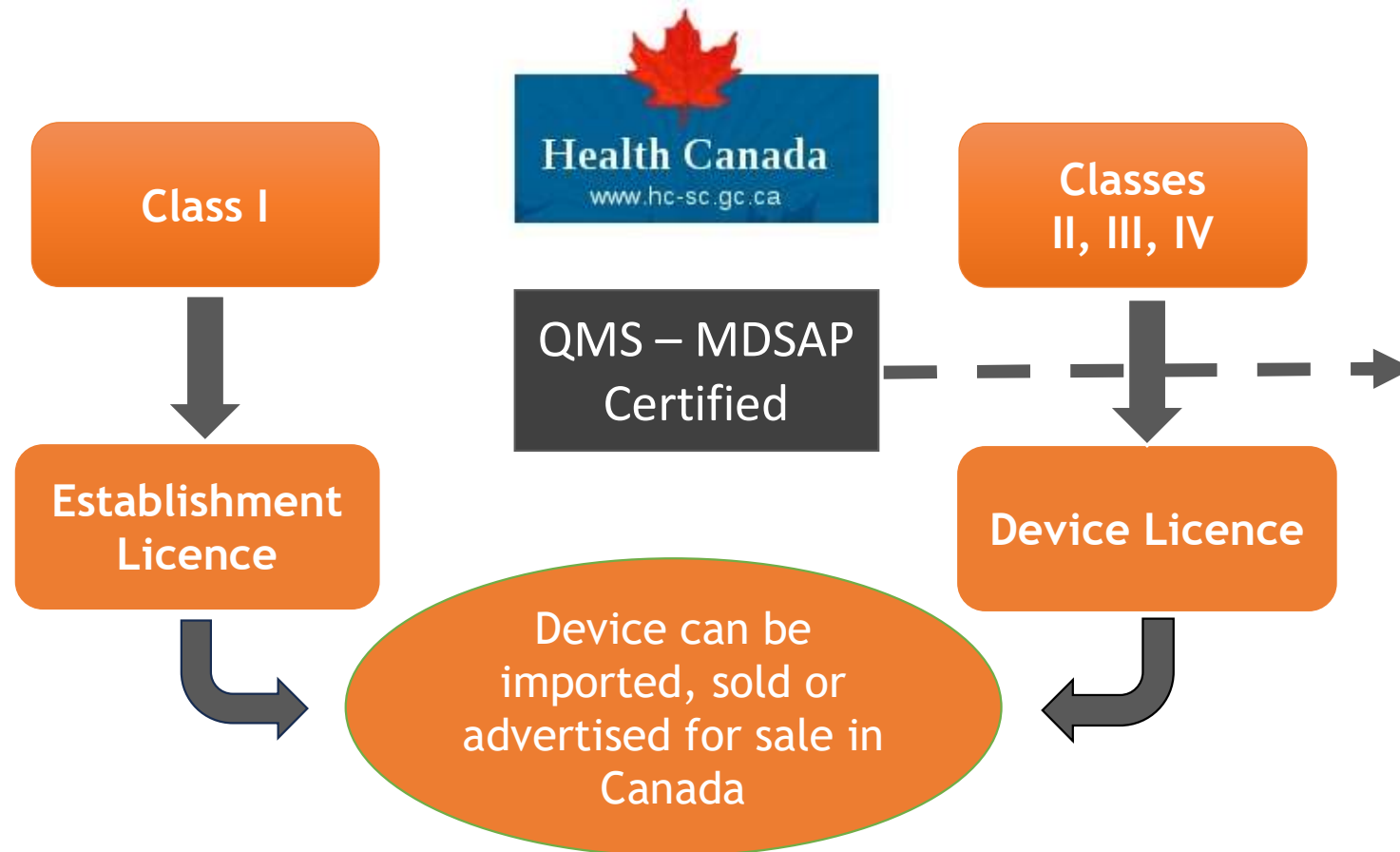
# Regulatory Path

## Answering the 5 “Whats”

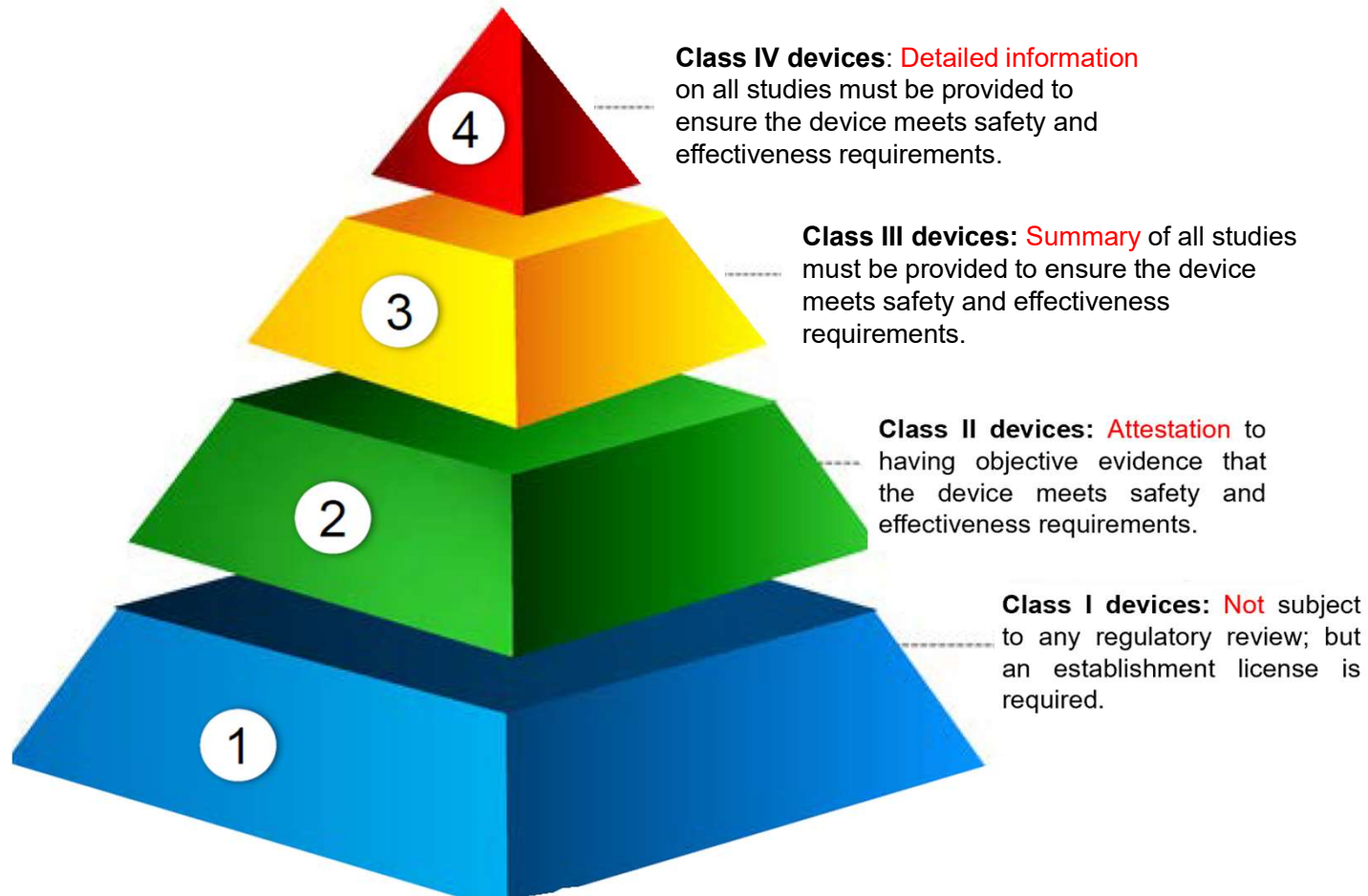




# Regulatory Process



# Risk Classification

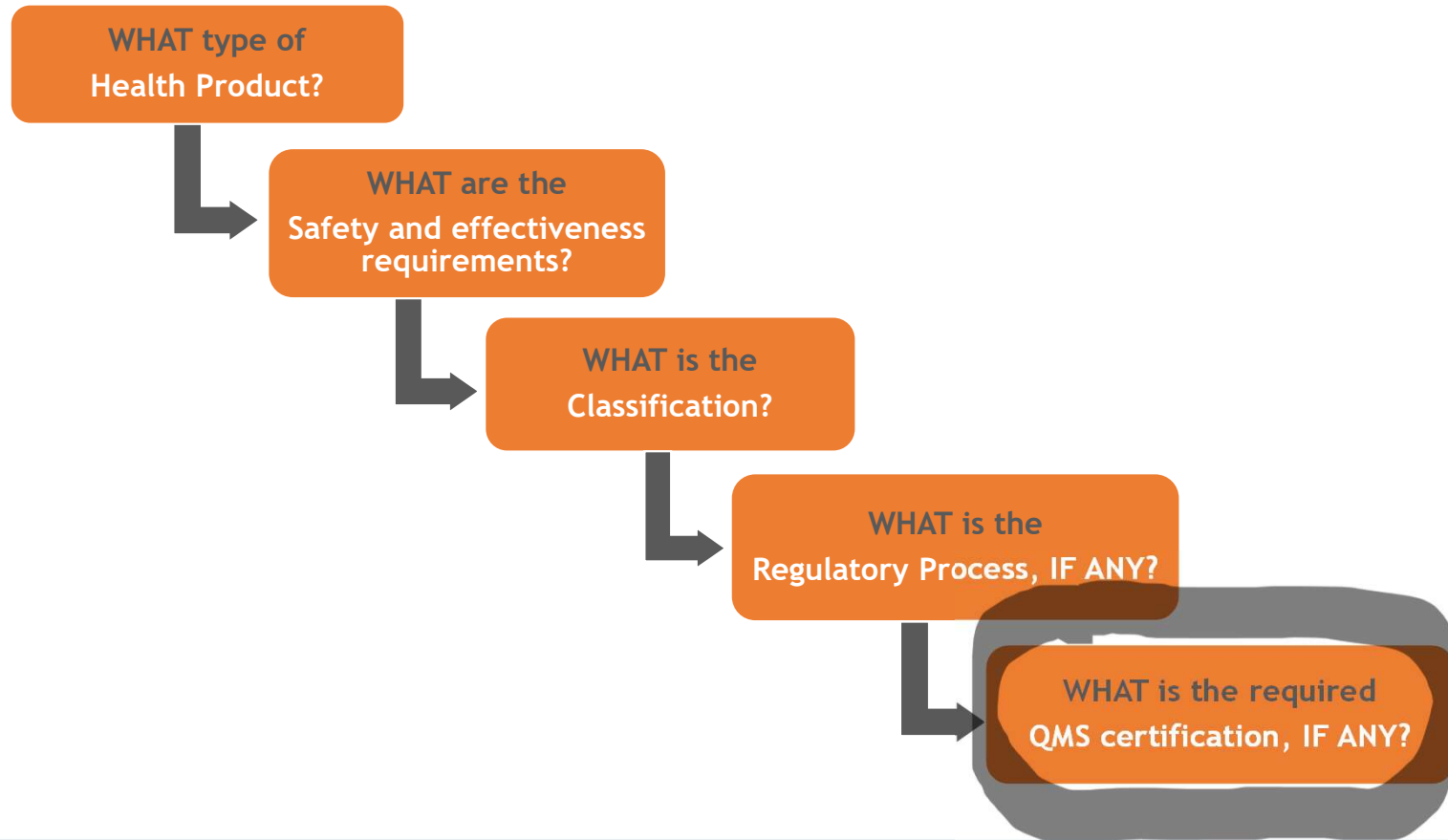


# Regulatory Process

- Access through other processes:
  - **Investigational testing** involving human subjects may be performed in Canada. Requirements for devices used for investigational testing on human subjects are set out in **Part III**.
  - **For emergency use** or if conventional therapies have failed, are unavailable or are unsuitable, Health Canada may authorize a health care professional's access to the device through its Special Access Program. Requirements for devices that are custom-made or imported or sold for special access are set out in **Part II**.

# Regulatory Path

## Answering the 5 “Whats”



# ISO 13485:2016 vs MDR?



# Medical Device Single Audit Program (MDSAP)



YOUR PATH TO COMPLIANCE



# MDSAP

- MDSAP eliminates the need for four separate regulatory audits :
  - Better use of human and financial resources
  - Reduced time required for regulatory audits
- MDSAP allows the usage of authorized third parties:
  - More flexibility and better planning for the audits
  - To build relationships with auditing organizations.
- MDSAP uses One Audit Model:
  - Uniformity of the requirements
  - Better predictability of the audits' outcomes.

# MDSAP

In addition to Canada, the participating countries are:

- Australia (TGA);
- Brazil (ANVISA);
- Japan (MHLW); and
- USA (FDA).



# Take Away of Take Away Messages!

- Regulatory claims must be **carefully worded**
- Establishing the **fundamental requirements is key...**
- **Risk Assessment** is key - even at the very early stage of development
- Investigational testing is **not always required** for approval
- QA management: **MDSAP Certification** is mandatory in Canada for class II-IV medical devices (**ways to work around...**)
- **Can't** avoid the regulatory affairs folks...

# Regulatory Yours!

Me Louis-Paul Marin, Eng., LL.B., LL.M.

President

514.928.5546

[marin.lp@lok-northamerica.com](mailto:marin.lp@lok-northamerica.com)

LOK North America • Head Office  
2025, Michelin Street, Laval, (Québec), Canada

[www.lok-northamerica.com](http://www.lok-northamerica.com)

Tel.: 450.781.1578

YOUR PATH TO COMPLIANCE



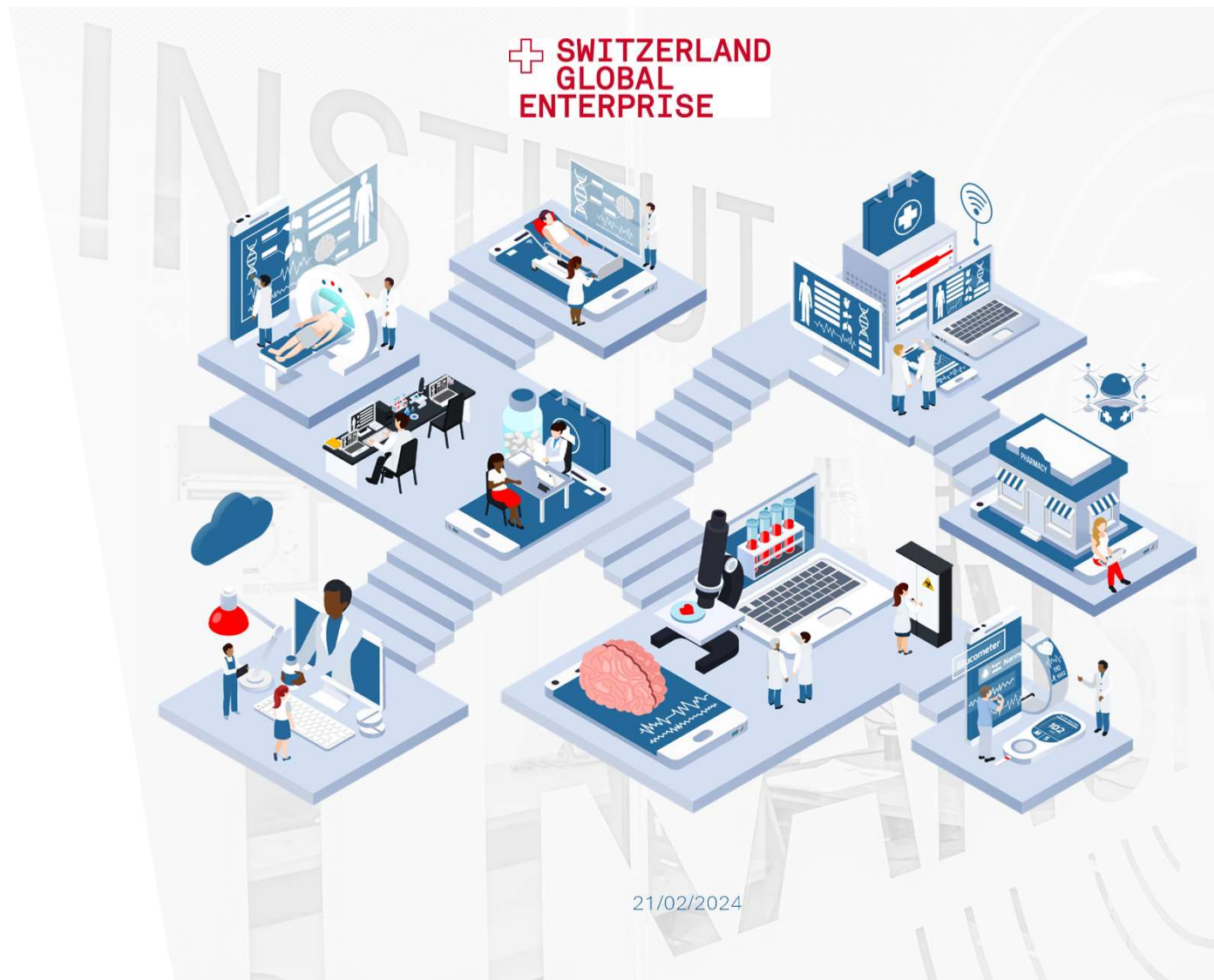


Exporting MedTech and Digital Health Solutions to Canada.

How to make it work?

Dr. Marie-Pierre FAURE  
Director Innovation & Living Lab, TransMedTech

Malick Deme, Senior Manager, Deloitte



21/02/2024



# Why Canada?



**\$7.8B** Market value



**8th** Medtech market worldwide



**+2K** Medtech companies



**35K** Employees in medtech

# Québec, a territory dedicated to MedTech



**+150** Research centers



**180** Multinational subsidiaries

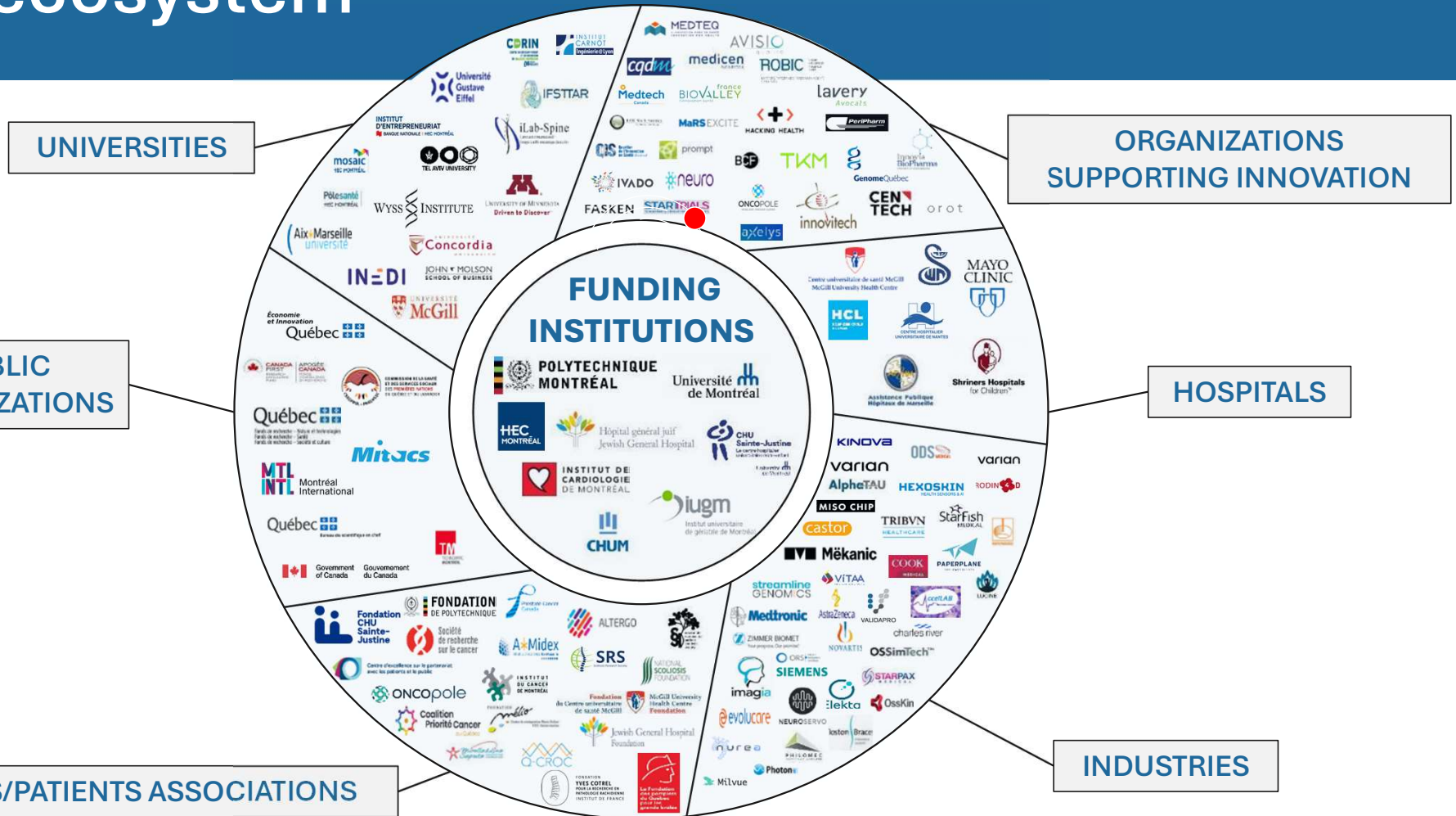


**650** Organizations



**30K** Students

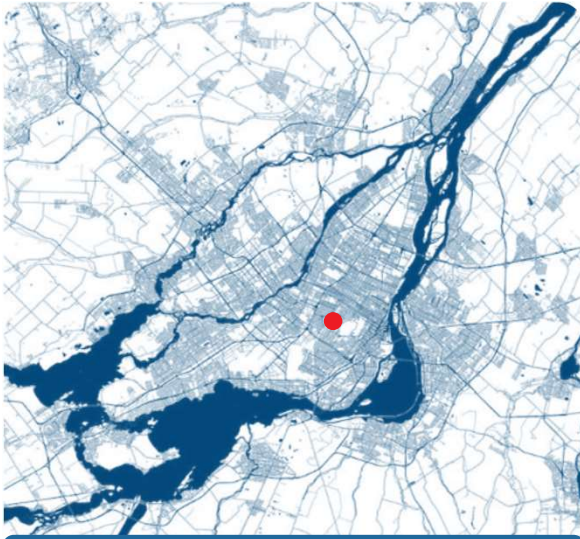
# Our ecosystem



© TransMedTech Institute, February 2024



# At the centre of the action



Montréal



CHU Sainte-Justine  
Mother and child hospital



TransMedTech Institute



# TransMedTech Institute

## Vision



To be a **hub of impactful medical technology innovation** and **added value** for **population health** and **socio-economic development**.

## Mission



**Support innovation in health technologies** that meet the needs of the community, in order **to facilitate** and **catalyze their development and implementation**



**Train the next generation of medical technology leaders** and **support the industry** and innovation community



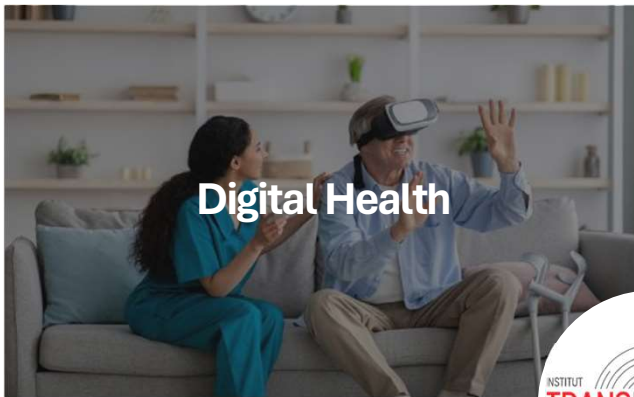
**Mobilize knowledge** and **lead a vibrant and dynamic environment** that promotes innovation and the adoption of solutions





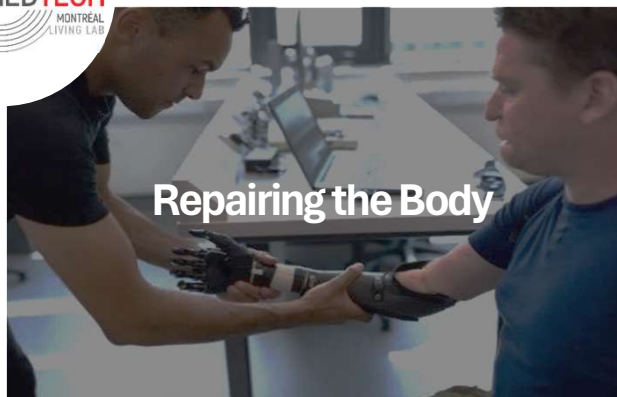
# Priority Innovation Sectors

Digital health  
Telehealth  
Hospital-at-home  
Telerehabilitation  
Virtual Reality



Robotics and Minimally Invasive Surgery  
Interventional Imaging  
Simulation  
Targeted Therapies

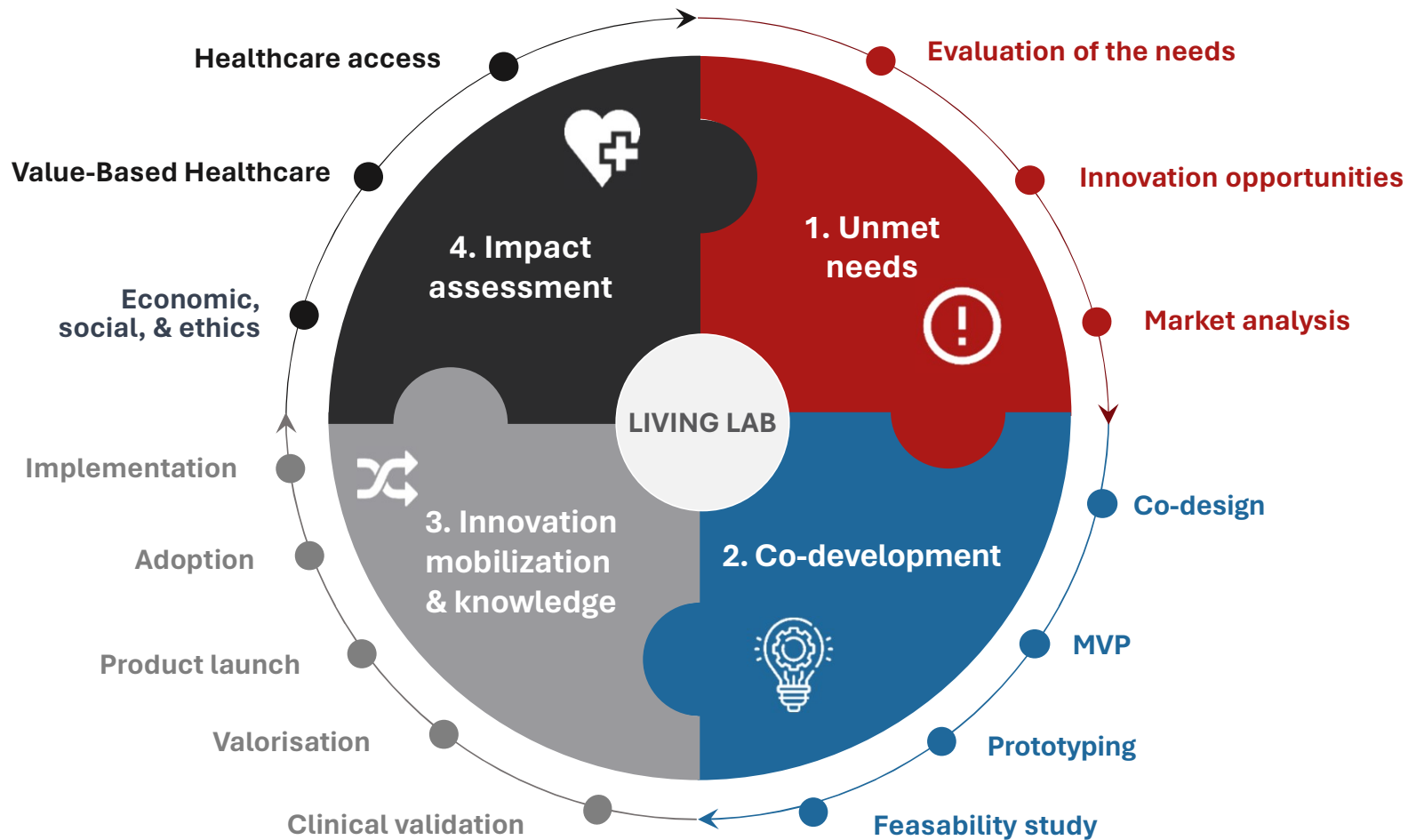
Decision Support and Therapeutic Follow-up  
Diagnostic Tools and Imaging Biomarkers  
Digital Pathology



Artificial Organs, Regenerative Medicine, 3D Bioprinting  
Implants and Biomaterials  
Neuroprosthetics, Intelligent Orthotics  
Sports Medicine Technologies



# TransMedTech Method™



**Intertek**

**ISO 13485**

Quality Management  
Systems  
Medical devices  
Requirements for  
regulatory purposes



# The Medtech Innovation Lab program

**Integrated innovation management program in healthcare providing high-value services** including support and coordination for the development and commercialization of medtech innovations along with the community and innovators in real-world settings.

**The program aims to optimize the innovation and commercialization cycles** of companies with the support of key actors of the ecosystem based on a living lab approach.

Main high value services offered:

- **Capacity building and access to specialized resources/expertise** (e.g., key opinion leaders, infrastructures and technological platforms, highly qualified personnel);
- **Project management and coordination** in real-world settings (e.g., process alignment, referencing and support for scientific validation and technical & commercial maturation, monitoring, networking with key actors of the healthcare sector, project monitoring)
- **Strategic planning** (e.g., scientific and economic benchmark and comprehensive analysis of the environment, design of innovative business models, distinctive value propositions and financing strategies, regulatory guidance)
- **Professional development** (e.g., training programs for managers and leaders in the healthcare technology sector, coaching and mentoring activities)

# Supporting companies setting up in Québec





Thank you!  
Any questions?

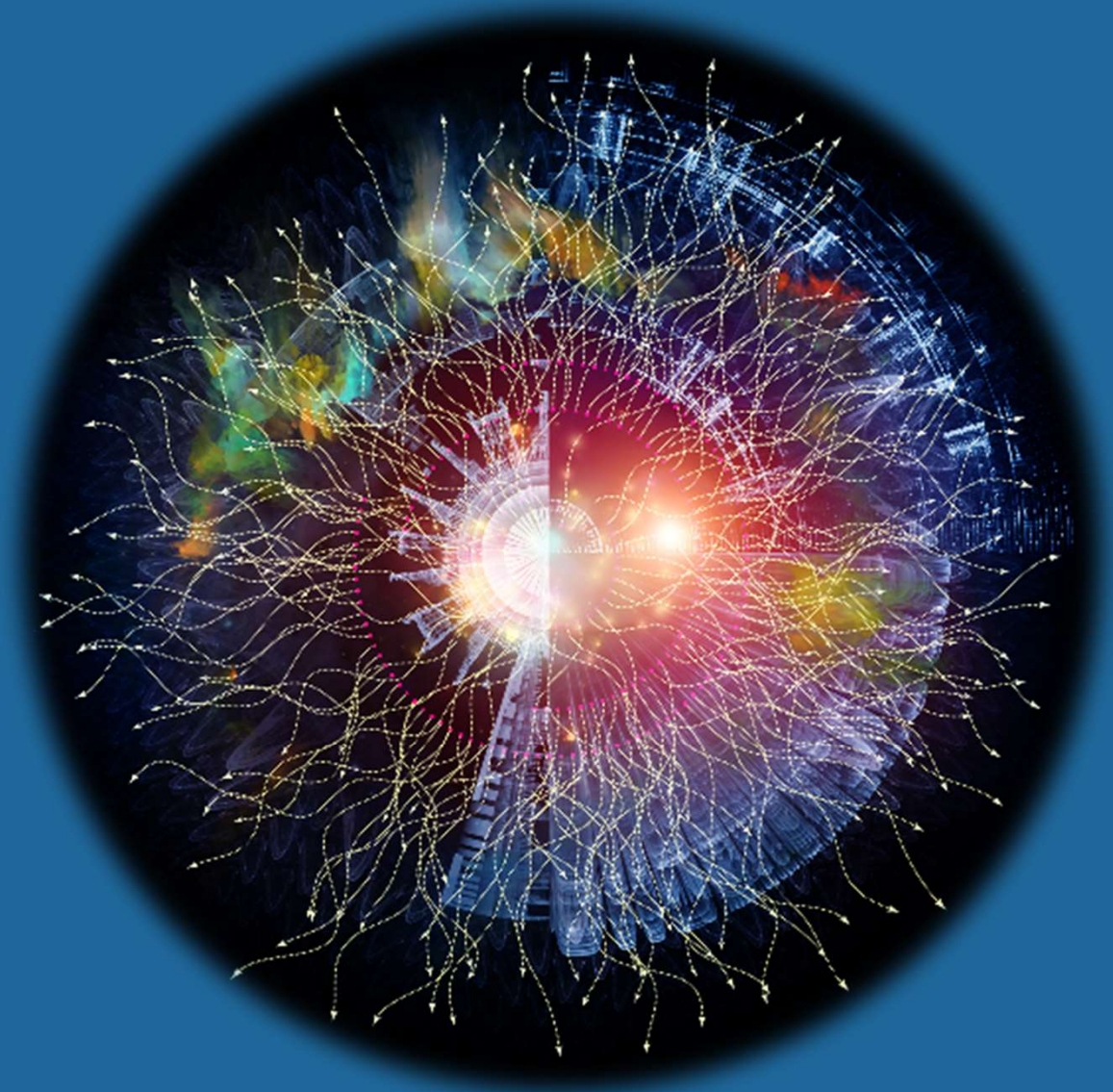
Marie-Pierre Faure, PhD   
Director Innovation & Living Lab  
[Marie-pierre.faure@polymtl.ca](mailto:Marie-pierre.faure@polymtl.ca)



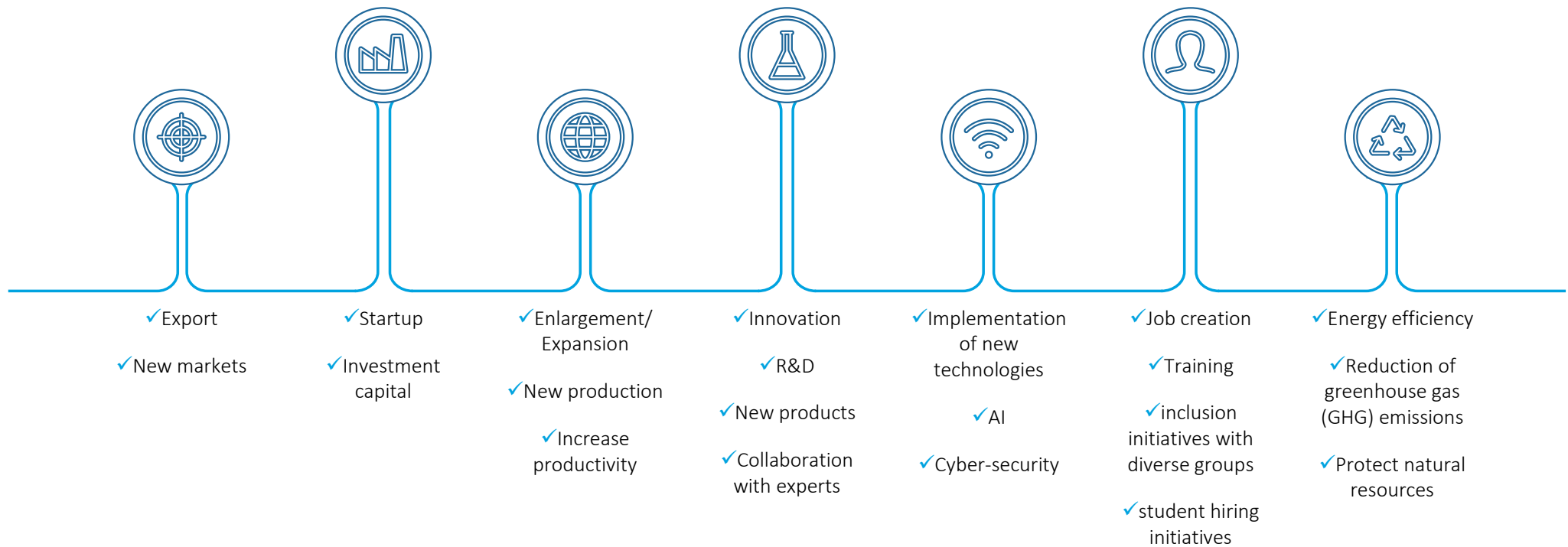


**Deloitte**

Government  
Incentives  
available in  
Quebec & Canada

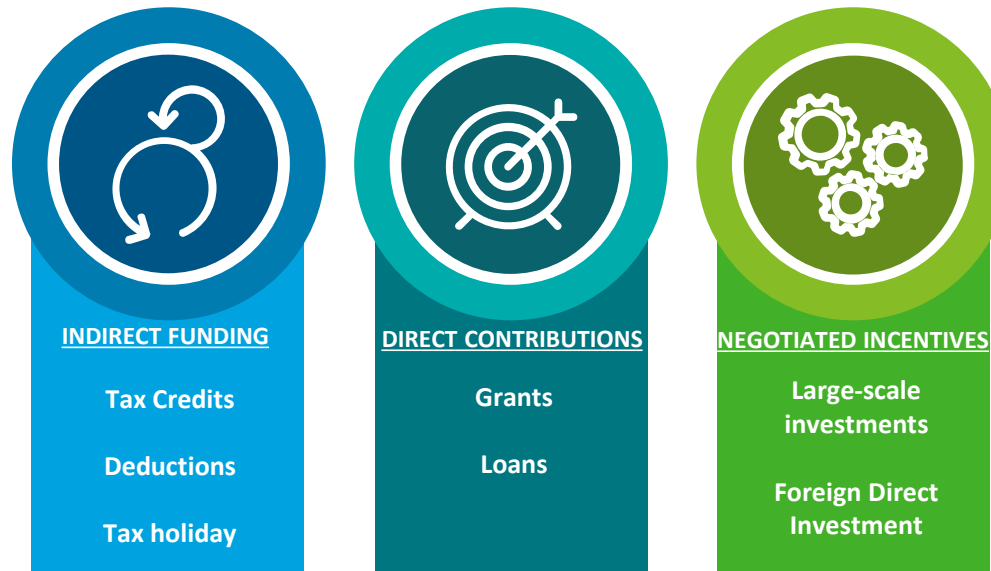


# Main Triggers for government funding



# Tax Incentives and Grants

- Dynamic calls for projects
- Dependent on federal and provincial budgets
- More than \$6 billion in government financial assistance available to Canadian organizations



Possible interaction between these three types of incentives

Stacking government assistance rules to observe

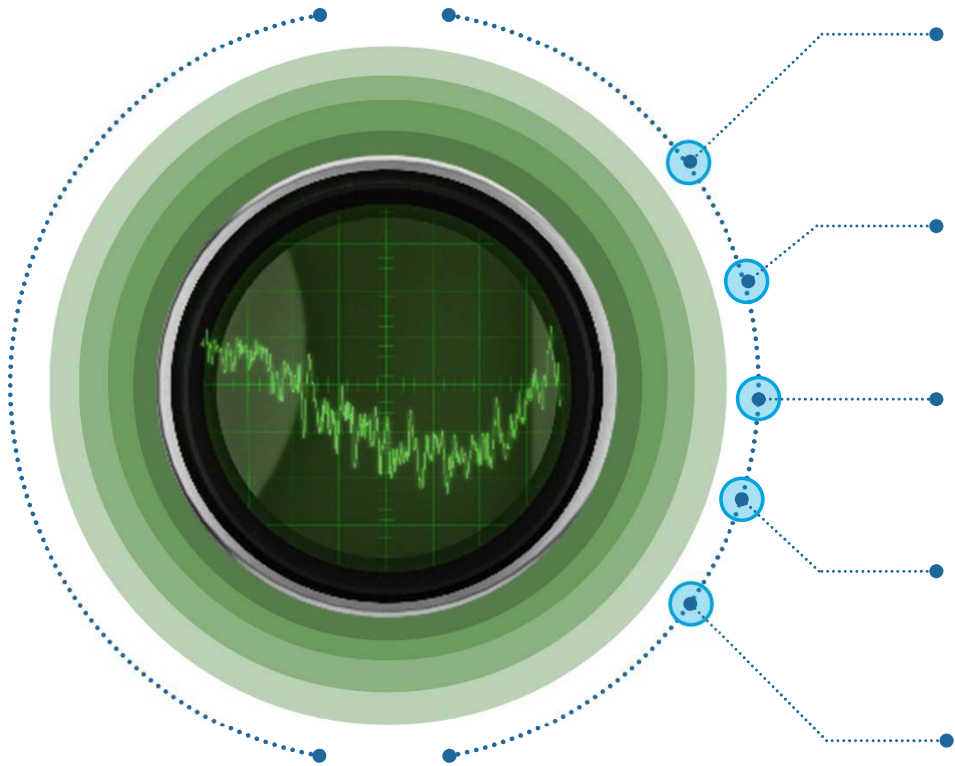




## Scientific Research & Experimental Development (SR&ED)



# Scientific Research & Experimental Development (SR&ED)



## SR&ED

Systematic investigation or research of a scientific or technological nature, carried out by means of experimentation or analysis.



## Pure Research

Work undertaken for the advancement of science with no practical application in sight.



## Applied research

Work undertaken for the advancement of science with a practical application in sight.



## Experimental development

Work undertaken in the interest of technological progress for the creation of new materials, devices, products or processes or for the improvement, however slight, of existing ones.



## Oriented work

The field of engineering, design, operations research, mathematical analysis, computer programming, data collection, testing, and psychological research.

# Scientific Research & Experimental Development (SR&ED)

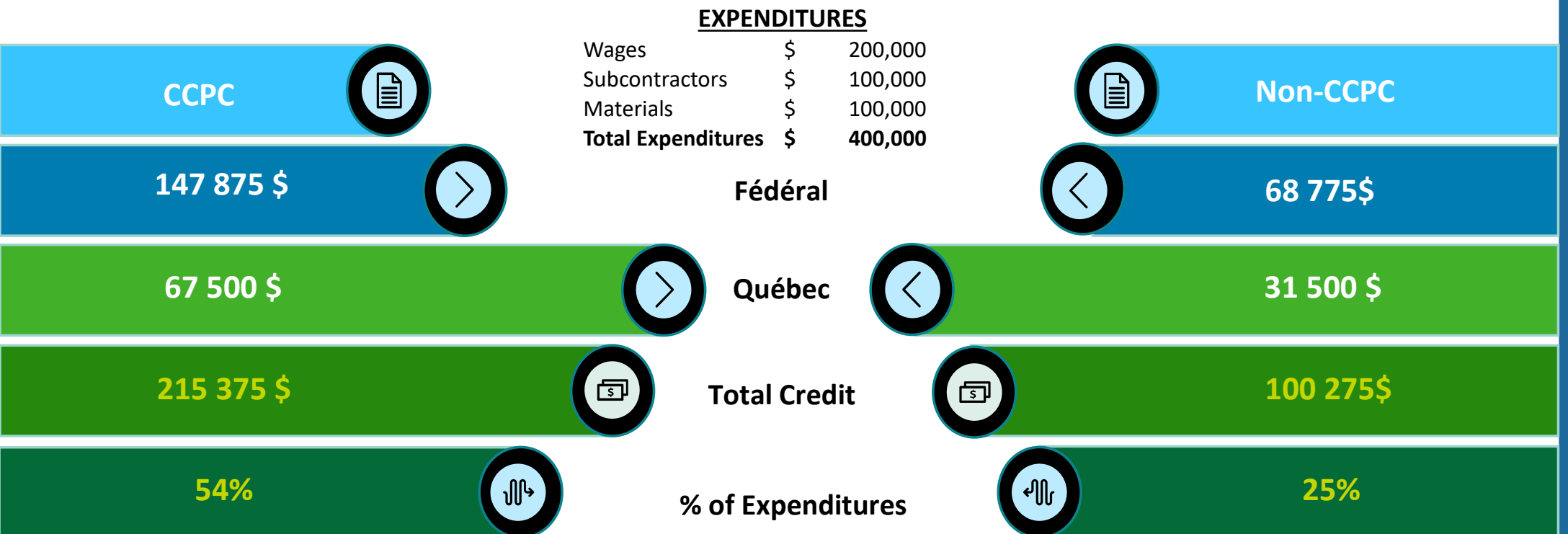
## Calculation of the SR&ED tax credit

Fédéral		
Eligible	Tax credit rate	Eligible Expenses
CCPC	35% on the first eligible expenses of \$3M	Wages - 100%
	15% of surplus	Subcontractor- 80%
		Overhead (proxy method) - 55%
Others	15%	Materials - 100%
Québec		
Eligible	Tax credit rate	Eligible Expenses
CCPC	30% on the first eligible expenses of \$3M	Wages - 100%
	14% of surplus	Subcontractor - 50% *
Others	14%	Overhead- NA
		Materials - NA

\* In order for subcontractors to be eligible in Quebec, they must be contractors who have an establishment in Quebec.  
 \*\* For Quebec, there is an exclusion threshold on the first \$50,000 on eligible expenses if the corporations' assets are less than \$50 million.  
 \*\*\* The exclusion threshold increases to \$225,000 if the corporation's assets exceed \$75 million.

# Scientific Research & Experimental Development (SR&ED)

## SR&ED tax credit comparison CCPC vs. Non-CCPC



\*The calculated percentage is for this specific scenario and may vary depending on the expenses incurred.

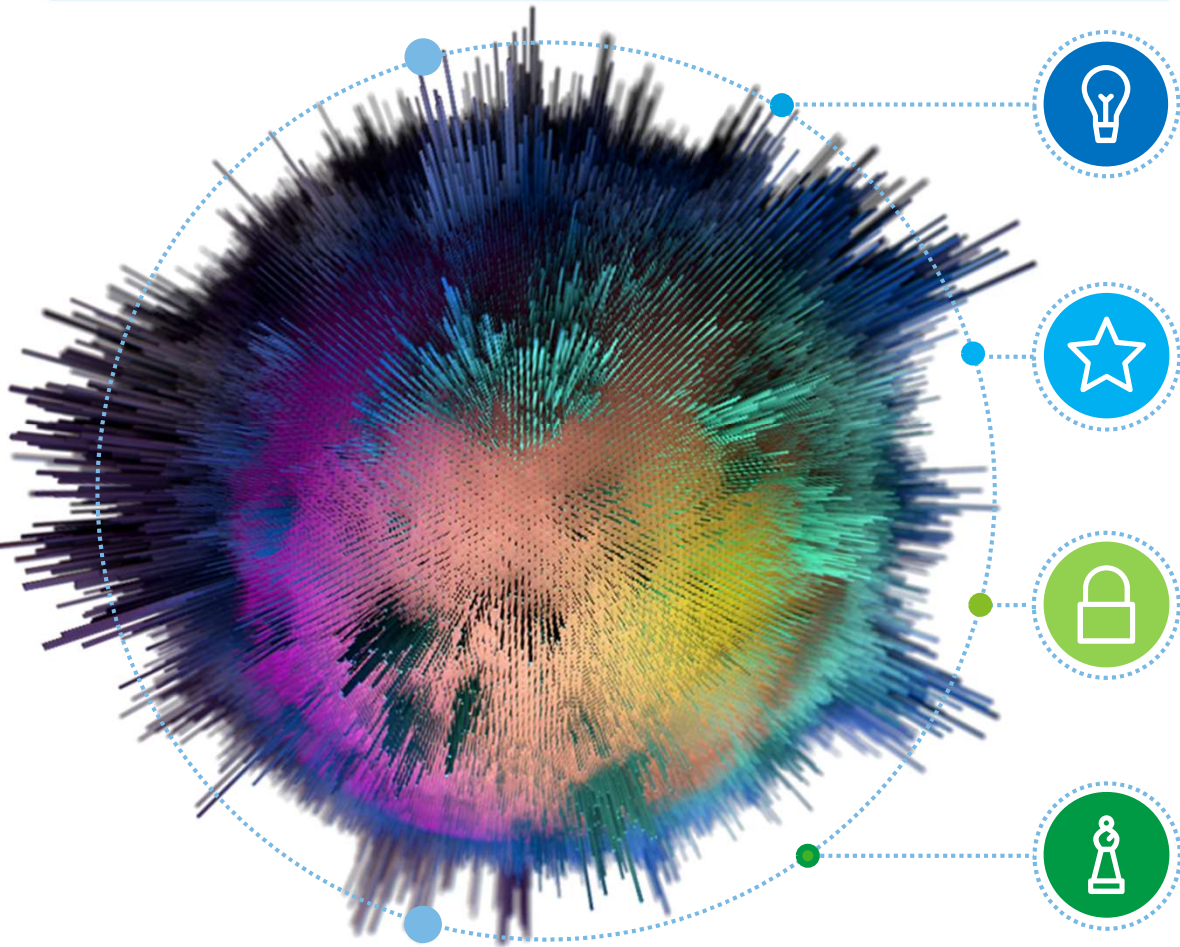




**NON TAX  
INCENTIVES  
&  
GRANTS**



# Non-Tax Incentives and Grants



## Dynamic environment

Periodically, government agencies announce programs/calls for projects that open and close quickly.



## Based on government priorities

Program trends and priorities depend on federal and provincial budgets.



## With processes in place

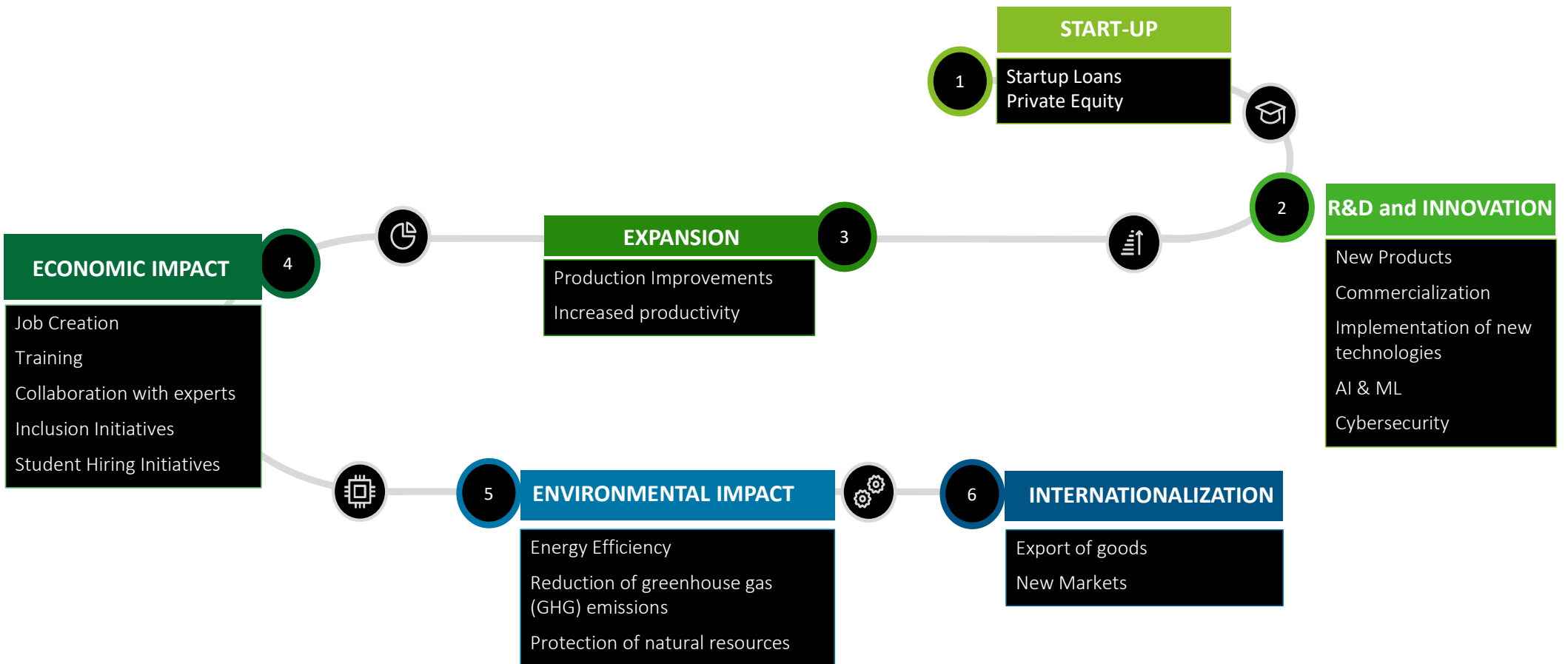
The grant must be complementary to your funding model and must include a minimum amount of funding that has already been secured.



## Targets specific investments

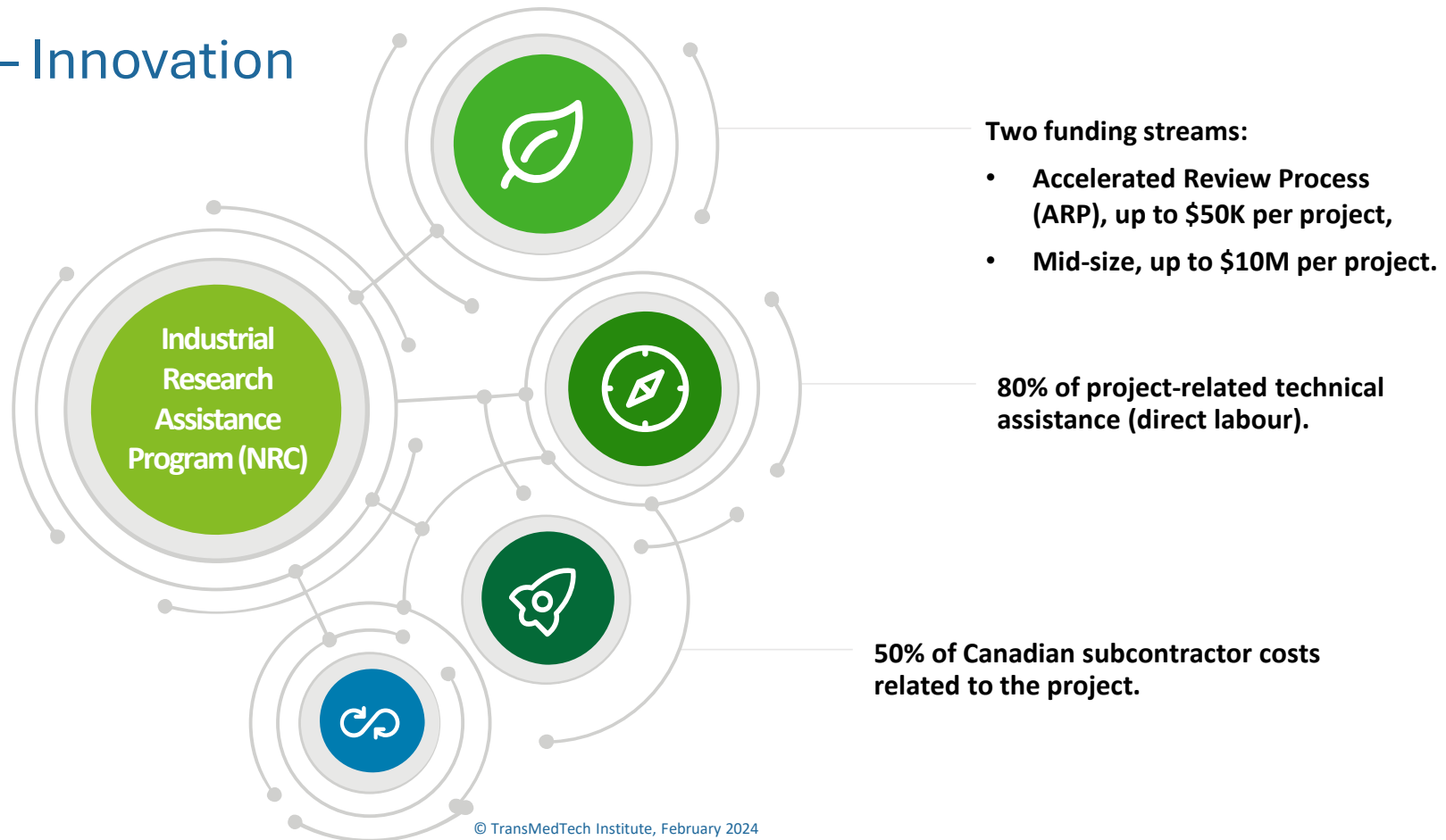
Government financial assistance is generally available for specific types of investments.

# Non-Tax Incentives and Grants



# Non-Tax Incentives and Grants

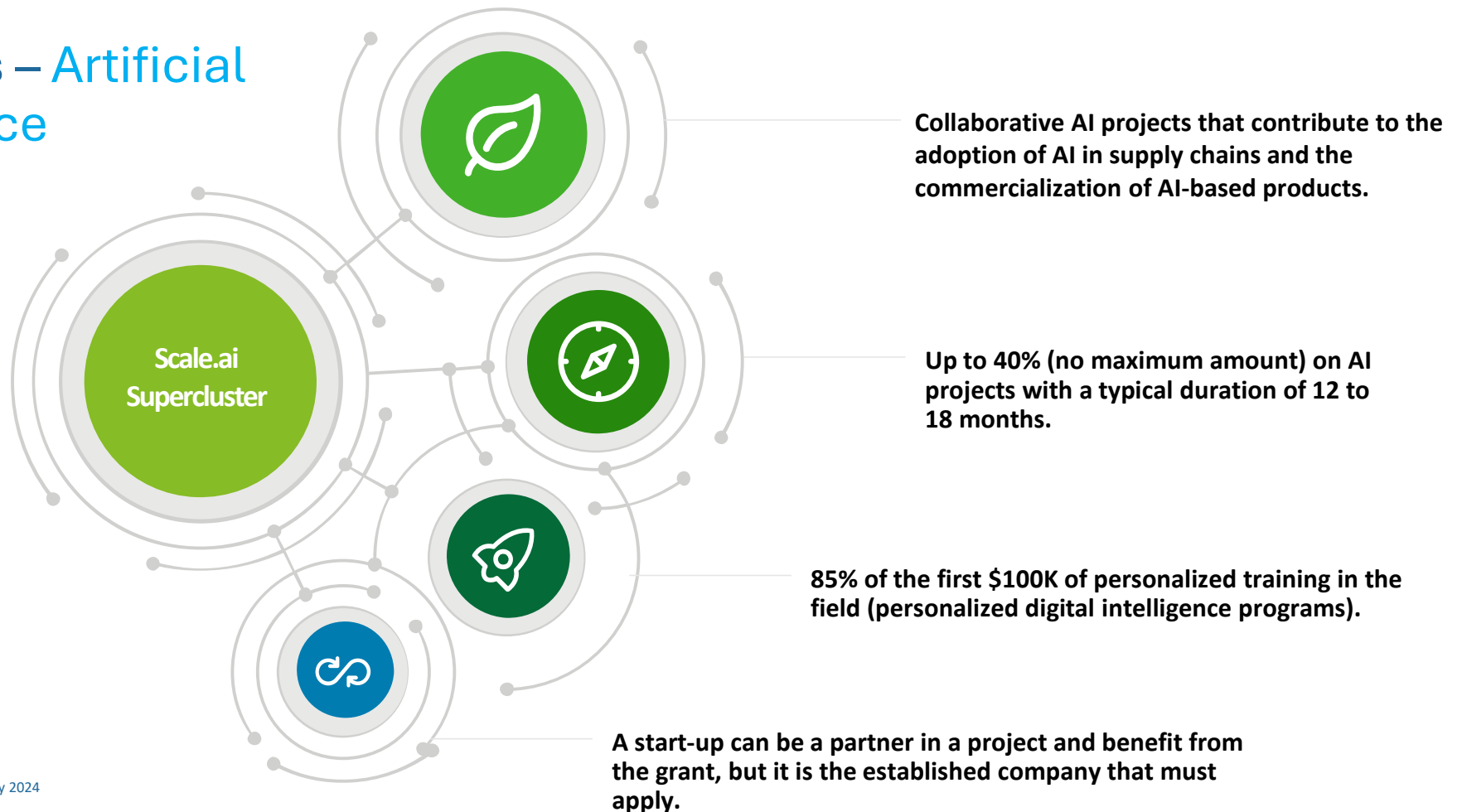
## Exemples – Innovation





# Non-Tax Incentives and Grants

## Examples – Artificial Intelligence



# Non-Tax Incentives and Grants

## Examples – Expansion & Export



### CanExport – Innovation Stream

50% of eligible expenses, up to a maximum of \$50K per project.

Maximum budget of 100,000.

Max stack: 75%.



### Marketing and Export Support Program (PSCE) Stream 1

50% of eligible expenses, up to a maximum of 250K per company.

Max stack: 85%.



### Capital Synergy

Tax measure to promote business networking and synergy between Québec companies.

An eligible investor will benefit from a 30% non-refundable tax credit, not exceeding \$750,000.



### SME Impulse

Financing in the form of convertible loans.

Impulsion PME's investment may not exceed 50% of the total financial package, the rest must be financed by the investors.

The minimum investment amount will be \$250,000, and the maximum amount will be \$750,000.

# Deloitte capabilities and experience

Deloitte  
Insights



FEATURE

## A new view on market access and reimbursement

Launching innovative biopharma in China

David Xie and Xiaofeng Li

## Market Access Strategy

- Global pricing research
- Analysis of reimbursement schemes
- Market strategy assessment

## Cost-Effectiveness Studies

- Cost-Utility Analysis
- Cost-Benefit Analysis
- Cost-Consequence Analysis

Deloitte  
Access Economics



Cost effectiveness of continuous positive airway pressure for obstructive sleep apnoea  
Sleep Health Foundation  
October 2018

Deloitte.



Valuing the impact of genomics on healthcare in Australia  
Industry Genomics Network Alliance (InGeNA)  
December 2021

Deloitte  
Access Economics

## Value Assessment of Health Technologies

- Therapeutic value
- Economic value
- Impact on healthcare system and society

## Burden of disease studies

- Economic impact of treatment strategies
- Health resource utilization

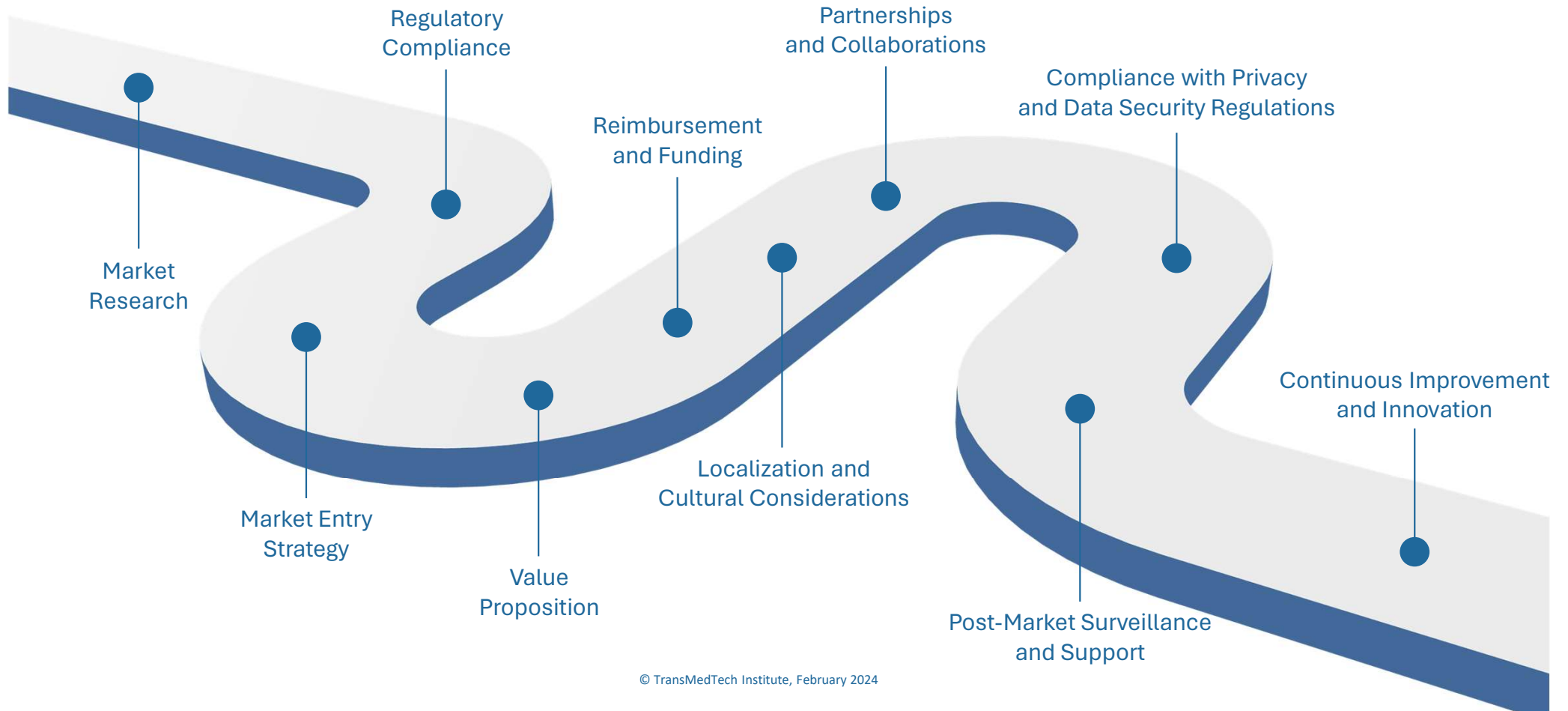
Deloitte.



Changing the chronic kidney disease landscape: The economic benefits of early detection and treatment  
Kidney Health Australia  
February 2023

Deloitte  
Access Economics

# Soft landing, a typical trajectory



# To join us



Dr Marie Pierre Faure  
Director Innovation & Living lab  
[Marie-pierre.faure@polymtl.ca](mailto:Marie-pierre.faure@polymtl.ca)  
[Transmedtech.org](http://Transmedtech.org)



Malick Deme  
Global Investment and  
Innovation Incentives ( Gi<sup>3</sup>)  
[mademe@deloitte.ca](mailto:mademe@deloitte.ca)  
[Deloitte.com](http://Deloitte.com)

