

Factors preventing / slowing down industrial adoption of artificial intelligence

1st Canada-Italy Business Forum on Artificial Intelligence
Spotlight on Emilia Romagna
September 17th, 2019 – Montréal, Canada

Serge Marchand, Ph.D.
VP Scientific Affairs



Génome Québec in brief

- Launch in 2000
- Our expertise: genomic strategic development, large-scale projects scientific and financial management
- Unique technology platform management
- Investment in genomic activities since 2001: over a billion dollars
- Large-scale projects funded: 160
- Researchers funded: about 800
- Budget 2018-2019: \$67.4M
- Strategic sectors:



Health



Agrifood



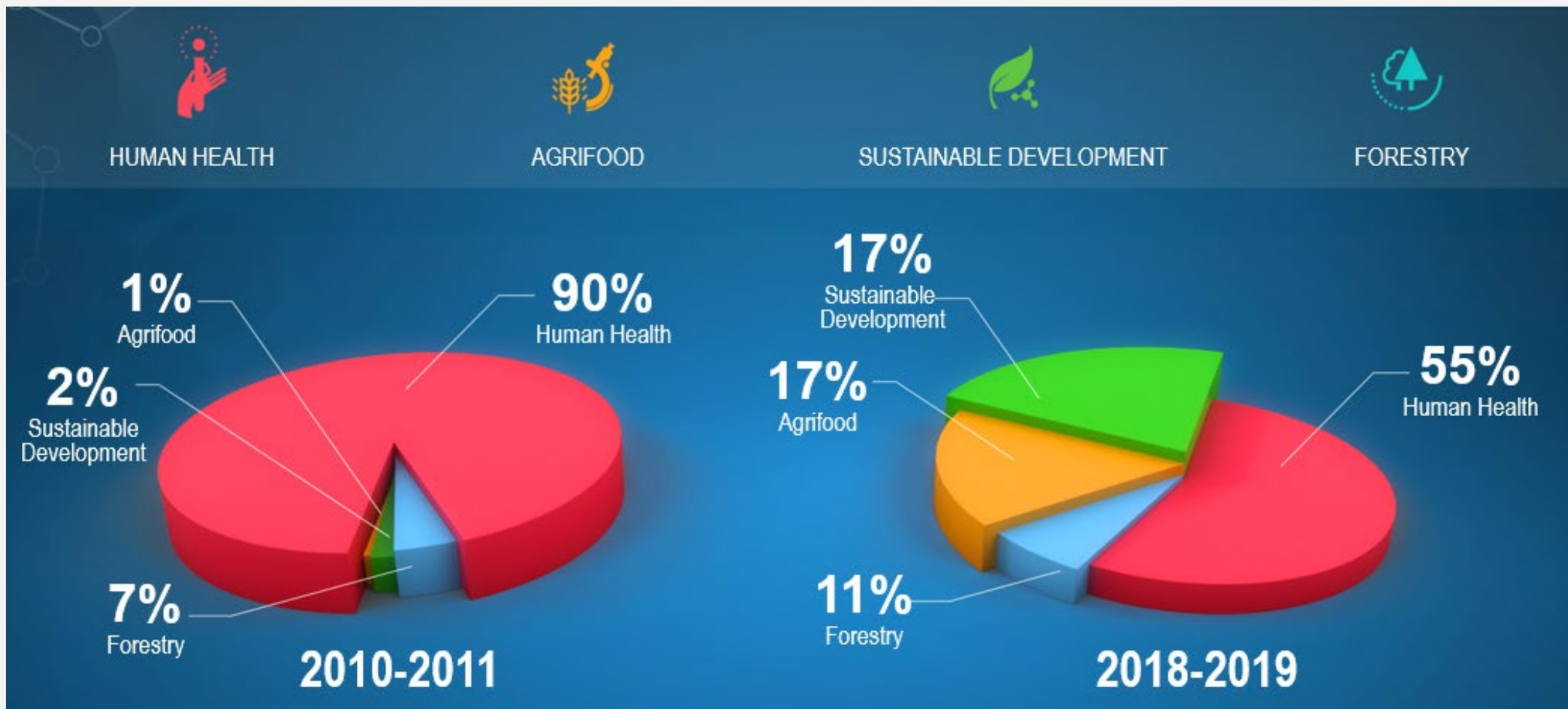
Forestry



Environment



Where there is life, there is DNA



The Genomics Enterprise

- Launch in 2000
- **6** regional centres
- **7** key economic sectors
 - Health
 - Environment
 - Forestry
 - Agriculture
 - Fisheries and aquaculture
 - Energy
 - Mines
- Accessible centralized technology platforms



Omics technologies disrupt all life science sectors of activity

2001
Basic
research

2019
Explosion of clinical and
industrial applications

Technological
advancements

Precision
medicine

Forestry



Laboratory

Environment



Research



Sustainable
development



Agrifood

Life sciences in Québec

What if the solution lay in the convergence of genomics and artificial intelligence?



Technology platforms and resources

Cutting edge infrastructures and highly qualified personnel



**McGill University and Génome Québec
INNOVATION CENTRE**



Saguenay

**Génome Québec and
CHAUR BIOBANK**



Montréal

**Population cohort
(43,000 participants)**



**CHU Sainte-Justine and Génome Québec
INTEGRATED CLINICAL GENOMIC CENTRE
IN PEDIATRICS**

**Genizon BIOBANK
Clinical cohort
26 diseases
(45,000 participants)**



Thank You !

