

# SCALE AI

**Supporting business scale-up – Pre-read  
TIP conference, 4 April 2018, Toronto**



**AI POWERED SUPPLY CHAINS SUPERCLUSTER**

# The innovation superclusters initiative

A banner with the text "SUPER CLUSTERS" in a bold, sans-serif font. "SUPER" is in yellow and "CLUSTERS" is in white. To the right of the text is a background image of a network of glowing blue and yellow nodes connected by lines, resembling a molecular or data network.

## SUPER CLUSTERS

First-of-its-kind initiative in  
Canada

Support 5 business-led  
innovation superclusters

With the greatest potential  
to energize the economy

Fostering new forms of  
collaboration between industry  
players and researchers

Total government funding  
up to \$950M

To be at least matched by the  
private sector

Expectation to create more  
than 50,000 jobs over ten years

Sustainably  
grow Canada's GDP

Develop  
our workforce

# SCALE AI one of 5 superclusters

Only supercluster focused on AI



Supercluster title	Key sectors
1 Digital Technology Supercluster	Telecom, ICT
2 Protein Innovations	Agri-food
3 Next Generation Manufacturing	Manufacturing
4 SCALE AI AI-powered Supply Chains Supercluster	Retail, Manufacturing, Transport, AI
5 Ocean Supercluster	Fisheries, Oil & Gas, Energy

**SCALE AI is an initiative created by IVADO and U. of Waterloo, bringing together industrial partners and AI researchers to power supply chains with cutting edge AI expertise**

# SCALE AI's strategy

Bring our successes in AI  
from the lab to the field

Empower Canada as a  
global hub for intelligent  
supply chains

- Drive productivity and competitiveness of Canadian firms across sectors
  - Better position Canada as a trading nation by dovetailing the future global supply chains
  - Grow the world's best applied AI services providers
  - Boost the skills & diversity of our talent pool
- Create over \$16.5 billion GDP impact and 16,000 jobs by 2028
  - Help build \$B companies in Canada
  - Train thousands of students (masters and PhDs) and employees in AI and intelligent supply chains

# Partnership to date: 118 members incl. ~80 industrial

Half of which are SMEs



## Verticals in focus

<p><b>Consumer goods &amp; retail</b></p>	<p><b>Industrial goods &amp; manufacturing</b></p>	<p><b>Infrastructure &amp; construction</b></p>
<p><b>Hospital logistics</b></p>		

## Horizontals

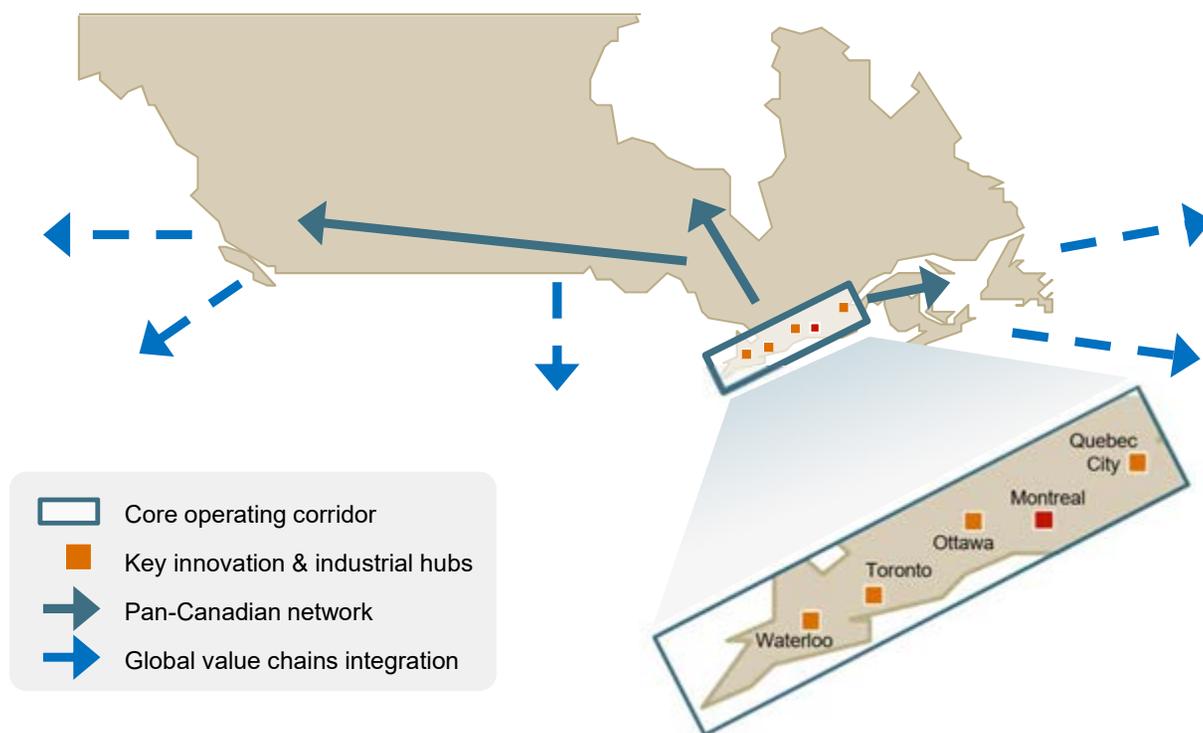
<p>Transport, logistics and SC specialists</p>										
<p>Digital and AI</p>										

## Academia

## Enablers

<p>Incubators</p>	<p>Funds</p>	<p>Professional associations</p>	<p>Public authorities</p>	<p>Federal org.</p>	<p>Global partners</p>
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# Footprint: From local to global



- HQ in **Montreal**
- Core innovation cluster in the **Waterloo-Quebec City corridor**
- **Pan-Canadian** network of AI / tech capabilities
- **Pan-Canadian & global** supply chain operations
- Stronger integration in **global value chains**

# Technology roadmap: Two key axes

1

**Drive adoption of AI-powered solutions to supply chains challenges**

- ✓ Demand forecasting
- ✓ Inventory / replenishment optimization
- ✓ Automated sourcing & procurement
- ✓ Automated logistics
- ✓ Real-time integration & visibility



- Adapt & adopt AI
- Generalized vertical point solutions
- Test & learn
- Drive collaboration

2

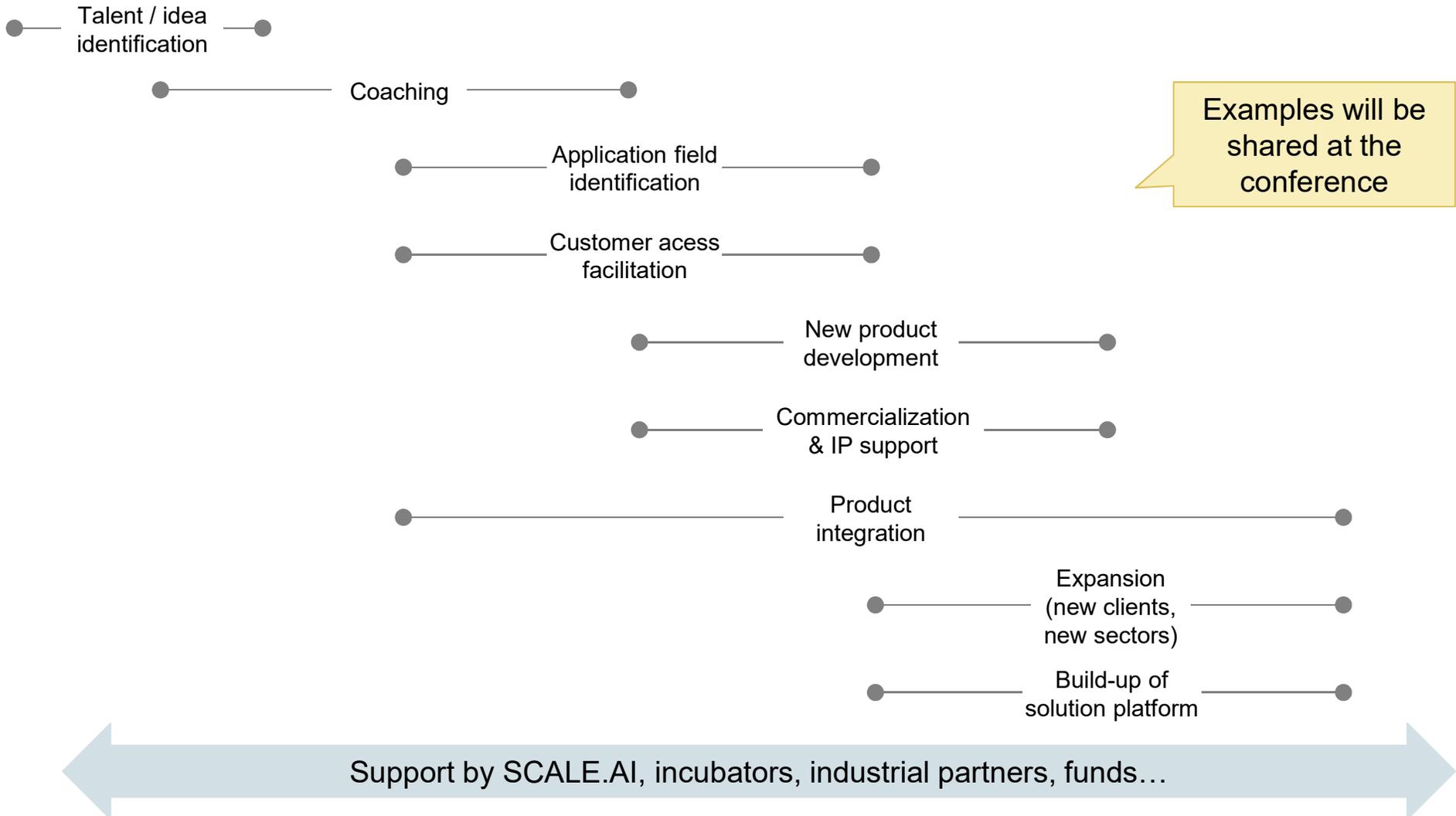
**Develop foundational intelligent supply chains building blocks**

- ✓ Data
- ✓ AI engines
- ✓ Operations & orchestration
- ✓ Device mgmt. & Infrastructure
- ✓ Security & resiliency



- Transformative moves
- Maximize synergies
- Create plug & play platforms
- Interoperable components

# Our scale-up plan: End-to-end support to build \$B companies



Examples will be shared at the conference

## *Roundtable: Questions for discussion*

- 1** What lessons learned can inform SCALE AI's approach? Roadblocks, success factors
  - In Canada
  - Globally
  
- 2** Given these, what should we consider changing in the “what & how” we plan to do?

**Thank you**



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