



FORUM **AEROSPACE** INNOVATION

➤ APRIL 25 AND 26, 2016

**COLLABORATE
GLOBALLY
TO DEVELOP
AEROSPACE
INNOVATION**



IN COLLABORATION WITH:



ORGANIZED BY:



Québec's Aerospace Cluster

Manufacturing Megatrends



1. Global, Tailored, Connected
2. Digitally Enabled, Systems-Engineered & Brilliant
3. Hyper-Connected Internet of Things
4. Open and Customer-Centric
5. Anticipatory/Transparent Supply Chain Management
6. Modular, Flexible, Reconfigurable, Virtual
7. Mass-Customized, with Affordable Lower Volume Runs
8. Green, Sustainable
9. Skilled & Diverse Workforce
10. Collaboration and Cross-Sectoral Partnerships



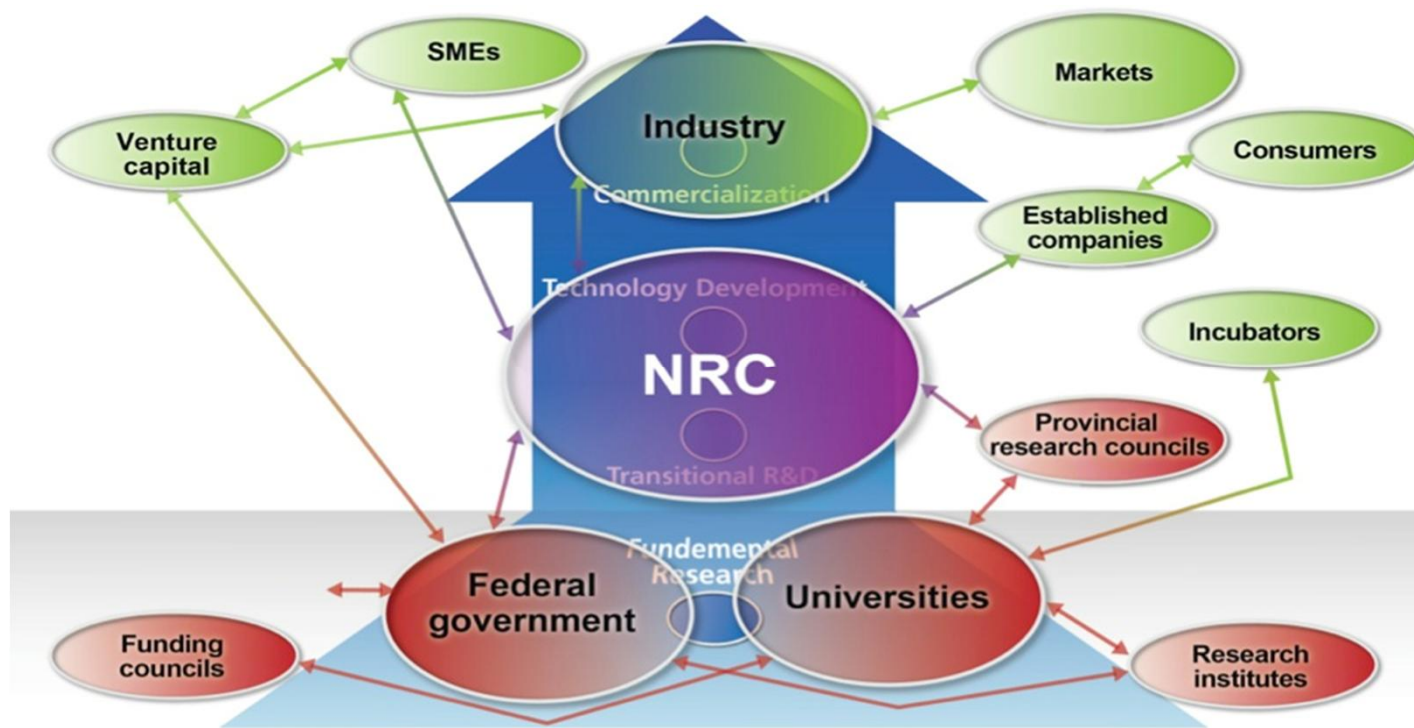
Examples of National Focus



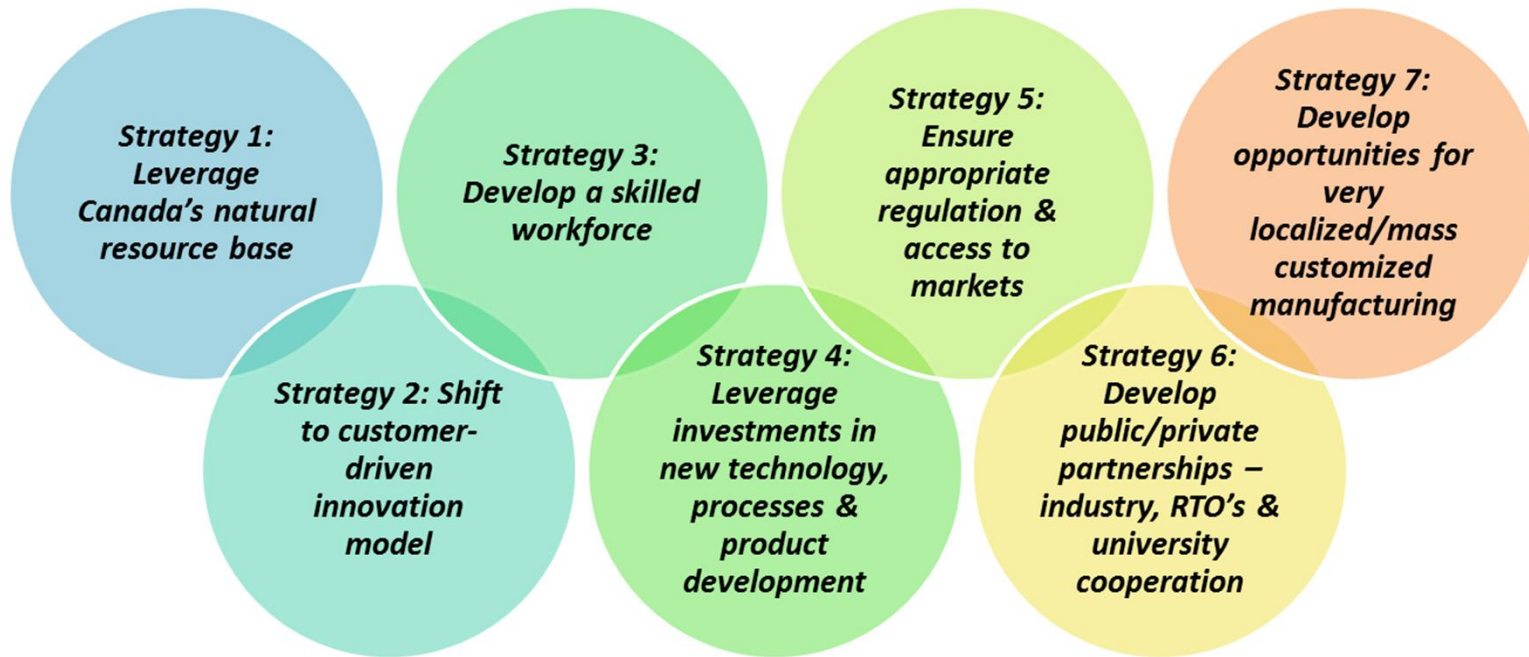
Focus	Location
Clusters, multi-player, multi-disciplinary networks	US (NNMI) Korea (Daejeon clusters)
Public Private Partnerships	US (NNMI), UK (Catapult Centres), Germany (Fraunhofer et al), Australia (CSIRO Future Manufacturing Flagship)
Strategic sectors	Korea – electronics India – aerospace (Karnataka) US – auto industry
Strategic and/or platform tech	China – “new energy” automotive Korea – advanced materials Germany – materials, automation US – 3D printing, robotics, digital Australia – titanium tech
SME assistance & direct subsidies	Germany & US: SME programs Exception: Australia poised to opt out of auto subsidies
Indirect (e.g., R&D tax) incentives, monetary policy, trade deals	All, with varying degrees of intervention and slightly different mix of instruments
Commercialization phase	All, but especially in industrialized nations



The innovation “ecosystem”



Collaborative strategies: the path forward



Thank You

Michael Kilfoil

Flagship Program Leader

NRC Factory of the Future

Tel: +1 613-949-4657

michael.kilfoil@nrc-cnrc.gc.ca

www.nrc-cnrc.gc.ca

