

# Our Transformation Journey

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**#TCDigital** 

**#TCFutureReady** 

Canada



Transport Transports Canada Canada

# **Canada's transportation system\***

## Economic footprint: 900,000 jobs @ \$79 billion / \$1.1 trillion of goods moved



- 550 port facilities
- 18 Canadian Port Authorities (CPAs)

AGILE

- 335 million tonnes of goods handled by CPAs
- \$218 billion in international trade handled across all modes

SMART

- Over 70 rail companies,
- 40 federally-regulated, holding a Certificate of Fitness from the Canada Transportation Agency
- 4 class 1 railways

TRUSTED

- 41,711 kilometres of railway track
- Rail freight just over 313 million tonnes

- 26 national airports
- 296 other certified, landbased airports
- 6.4 million aircraft movements
- Over 152 million air passengers per year

- Over 23 million road motor vehicles
- 1.13 million kilometres of two-lane-equivalent public roads
- 295 billion tonnekilometres in for-hire trucking traffic

### Safe. Secure. Efficient. Green. Innovative.

\*As of March 2020

# Change is happening fast

We need to keep pace or risk falling behind



One day your taxi will fly... and there won't be a driver.

#### TC must consider:

- What today's passengers, manufacturers, owners and operators expect
- $\checkmark$  Who the new industry players are
- Impacts to transportation safety and security, the environment and economy
- $\checkmark$  Emerging risks and how to manage them
- How to work with our partners to enable innovation
- ✓ The best rules and tools to monitor and ensure compliance

TC must **change how we work** to meet challenges, prepare for the future, and better serve the transportation system.

# A new vision for how we work at Transport Canada



### AGILE

We are proactive. We anticipate. We respond to changing needs. Our legislation, regulations, tools, and people adjust to support innovation, growth and sustainability.

### **SMART**

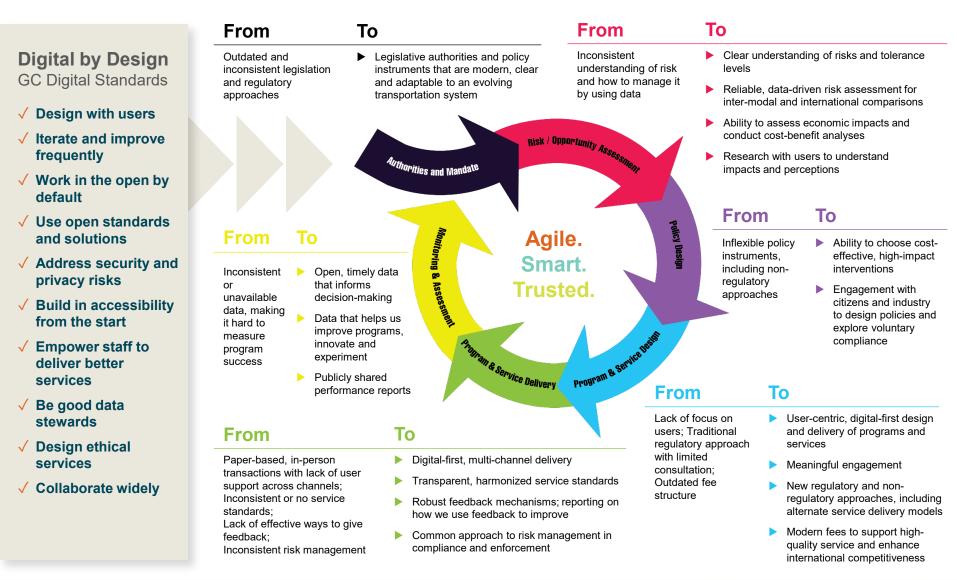
We seek out and are informed by data. We have a skilled workforce. Our services are digital by design and user-centered. We make risk-informed decisions.

# TRUSTED

We earn our credibility. We are open, transparent and accountable. We approach our work with integrity to ensure a safe and high-performing transportation system.

# How do we adapt to these changing times?

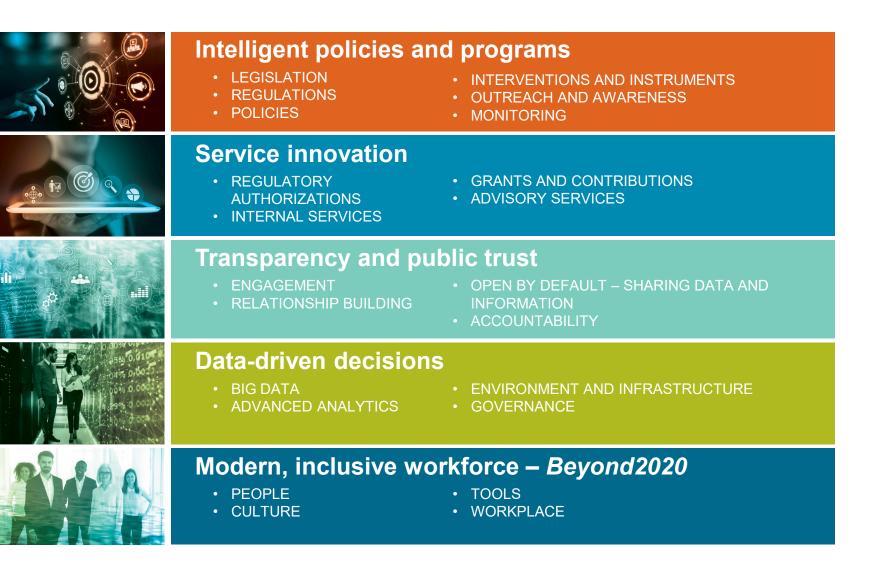
We rethink how we design and deliver our programs



#### AGILE SMART

#### TRUSTED

# **Our Transformation Plan**





# Intelligent policies and programs

- LEGISLATION
- REGULATIONS

POLICIES

- INTERVENTIONS AND INSTRUMENTS
- OUTREACH AND AWARENESS
- MONITORING

#### BUILDING A FOUNDATION FOR TRANSFORMATION

- Modernize legislation, regulations and policies to be agile, responsive and risk-based
- Adopt common, digital first oversight (compliance and enforcement) processes
- Develop a public risk management framework
- Build an outcomes measurement system to monitor non-regulatory and regulatory activities
- Engage industry and users on environmental considerations, technology use cases and implementing policy/regulatory tools enabling sector innovation

#### TRANSFORMATION IN ACTION!



#### Annual Regulatory Modernization Bill

Modern authorities for electronic administration and enforcement, and power to grant exemptions for innovation.

#### Mobile inspectorate

All inspectors equipped with tablets - mobility through Wi-Fi, SIM cards and offline access to regulatory reference docs. Port State and Flag State marine inspections are now digital.





#### Al pilot for pre-load air cargo targeting

Automated risk analysis of air cargo shipment data, increasing security 15-fold and saving thousands of work hours.

#### Automated and connected vehicles

Vehicle of the Future Advisory Group to inform a wholeof-government approach on connected and automated vehicles; regulatory experimentation to "get it right" before deployment of autonomous technology.





### **Service innovation**

- REGULATORY AUTHORIZATIONS
- INTERNAL SERVICES

- GRANTS AND CONTRIBUTIONS
- ADVISORY SERVICES

#### BUILDING A FOUNDATION FOR TRANSFORMATION

- Promote digital-first service delivery across the department
- Build *myTC* Account, a new online service platform for TC aligned to OneGC
- Launch the Service Innovation Hub and build capacity in user experience (UX) research and service design
- Establish TC's service inventory with a service management platform
- Establish modern fee structures to recover costs for services
- Implement harmonized service standards
- Report performance against service standards and client satisfaction

#### TRANSFORMATION IN ACTION!



#### New regulatory framework for drones

User-tested online portal – 48,806 drone registrations and over 85,927 exams taken.

Online payments are now available for 80+ regulatory services.





Automating Finance and HR processes Saving up to 19,000 hours of work and freeing employees to do more value-added work by having BOTs do select finance and HR processes.

Applying online for grants and contributions \$2-billion National Trade Corridor Fund for infrastructure projects now has an online application platform.



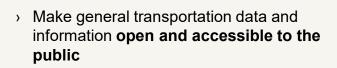


### **Transparency and public trust**

- ENGAGEMENT
- RELATIONSHIP BUILDING
- OPEN BY DEFAULT SHARING DATA AND INFORMATION
- ACCOUNTABILITY

#### BUILDING A FOUNDATION FOR TRANSFORMATION

 Build a modern framework to engage citizens and stakeholders – participatory government, active engagement, culture of transparency



- Make oversight information and compliance findings public
- Adopt the TC Scientific Integrity Policy to support the publication of TC research and encourage open discussion of the findings and possible interpretations

#### TRANSFORMATION IN ACTION!



**Canadian Centre for Transportation Data (CCTD)** Formed in partnership with Statistics Canada to increase access to transportation data.

#### **Ministerial Transition e-Binder**

Digital and open by design! This paperless, user-friendly transition binder was first used by TC's Minister. It is publicly accessible and works on any device.







#### **Common Project Search (CPS) Registry**

Allows Canadians to easily find information for current and proposed works on Canadian navigable waterways.

**Engagement in open government** Publishing 74 new data sets through the Open Government Portal.





## **Data-driven decisions**

- BIG DATA
- ADVANCED ANALYTICS
- ENVIRONMENT AND INFRASTRUCTURE
- GOVERNANCE

#### BUILDING A FOUNDATION FOR TRANSFORMATION

- Data as an asset: Foster data collection, storage and access capacity for datainformed decision-making
- Data Literacy: Build capacity in data science – identifying competencies, developing learning and recruitment strategies
- Environment and Digital Infrastructure: Provide the right tools for monitoring, analyzing and reporting on data and explore big data and new disruptive technologies (AI, machine learning and robotics)
- Governance: Strengthen departmental data governance to improve returns on key data assets

#### **TRANSFORMATION IN ACTION!**

#### **Executive-Level Data Governance Committee**

Establish clear data governance including data stewardship and aligning data resources with departmental priorities.





#### Data-literate workforce

Developing a framework of data and digital competencies for TC employees.

#### Specialized capacity in data science

Artificial intelligence, machine learning, earth observation, business intelligence, and GIS projects to inform decision-making.





#### Data signature projects

Improving supply chain efficiency and transportation system performance; assessing transportation capacity, vulnerabilities, and safety and environmental risks.

Aligning with the GC Data Strategy



## Modern, inclusive workforce – Beyond2020

- PEOPLE
- CULTURE

- TOOLS
- WORKPLACE

#### BUILDING A FOUNDATION FOR TRANSFORMATION

- > Modernize our workplace and tools
  - Provide mobile work devices to employees and enhance Wi-Fi
  - Provide tools and guidance to managers to enable virtual work
  - Go paperless (digital signatures and processes, fewer printers)
- > Develop new skills and behaviours
  - > Hire for skillsets of the future
  - > Grow digital literacy
  - > Encourage experimentation
- > Adapt our culture and processes
  - > Embrace a service culture
  - Adopt open, inclusive and user-centric approaches
  - Shift from analogue to digital ways of working

#### TRANSFORMATION IN ACTION!



**Workplace of the future** Open, collaborative, wireless offices across Canada.

#### Innovative hiring practices

Leveraging talent to respond to a gig economy – 30 TC Free Agents, Talent Cloud hires, Code for Canada.





#### Tools for a digital workforce

Wi-Fi and bandwidth upgrades, tablets, smartphones, the Cloud, GC Secret Infrastructure, SMART Boards.

#### COVID-19 readiness

96% of TC employees are working remotely, keeping staff safe and continuing operations without having to invoke any business continuity plans.



# **Making transformation stick**



# Want to know more? Follow the story!



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