

Customs IS Strategy 2014-2017

Creating the climate to enable transformation



Introduction to the IS Strategy

The Customs IS Strategy provides a 4 year view for the priorities for ICT investment across the New Zealand Customs Service.

The strategy is delivered in three components:

Strategy

Customs IS The Customs IS Strategy addresses the organisational and external challenges facing Customs, and identifies the activities that Customs IS will undertake to support the transition of the agency to its long term vision.

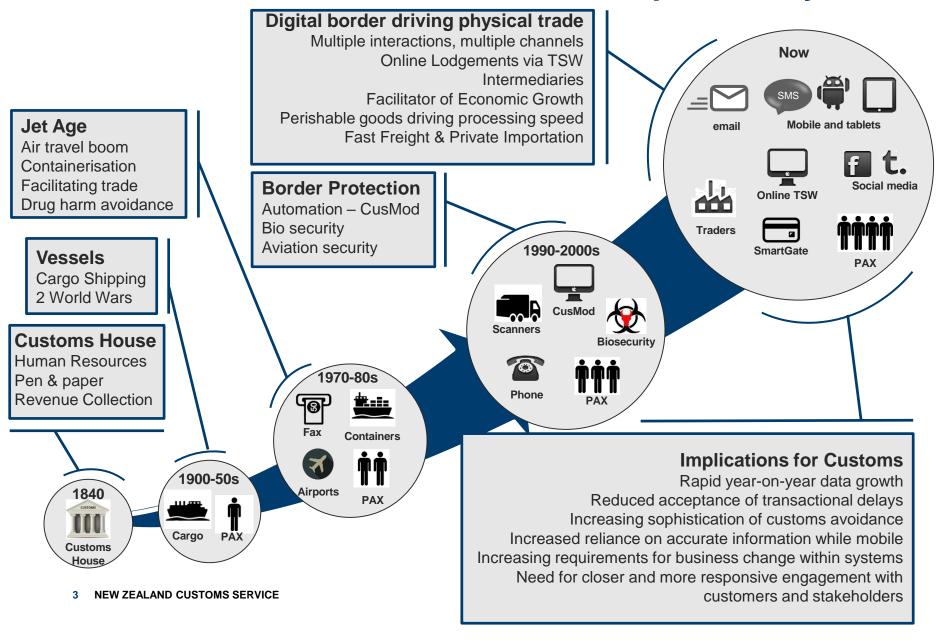
Customs IS Technology Roadmap

The Customs IS Technology Roadmap identifies a 4 year change vision across the critical ICT components that support Customs business, including the Border Management System, FMIS, information management, mobility, end user devices, operations management security, connectivity and infrastructure.

Technology Architecture

Customs IS The Customs IS Technology Architecture defines a more detailed technical vision for the delivery of technology services across Customs and the wider border sector. This document is primarily focused on providing technical direction to Information Services.

Customs focus has evolved, and interactions and channels available to customers have increased exponentially.



Long Term Vision for Managing the Border

To address volume growth in passenger and trade volumes, and an increasingly complex risk environment, the Customs Statement of Intent for 2014-2017 identifies a future-state operating model with implications for Customs IS

Increased reliance on automation

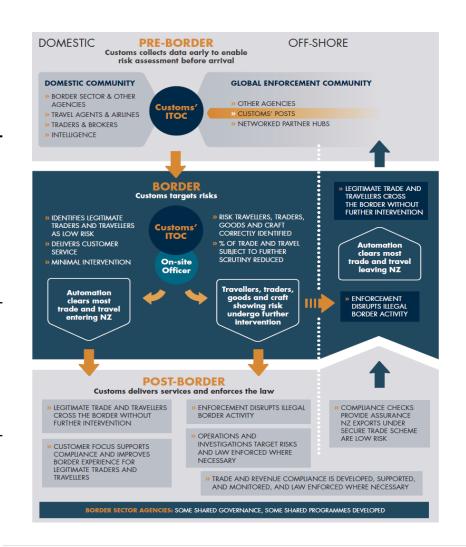
The long term vision sees an increasing reliance on automation to process passenger and trade crossing the border. Systems that support this automation will be critical

ITOC provides co-ordination

Customs ITOC takes a central role in co-ordinating pre-border and border control activities. Customs IS support of ITOC will be essential

is key

Connectedness For Customs to enable the long term vision, real-time connectivity to information and systems will be required



External Drivers for Change

Trade increasing year on year

- · 9.7 million import and export transactions
- Forecast increase of inbound and outbound travel of 25% increase between 2010 and 2018

Travel growth from non-traditional countries

- · Growth of non-English speaking travellers
- 509,000 Chinese tourists by 2020
- 10.7 million international arrivals and departures in 2013

Vessels

 Cruise market booming, 121 cruises bringing 200,000 passengers in 2013-14

Illicit traders increasing sophistication

- \$57 million worth of drug seizures in 2013
- A "technology arms race" is underway with those looking to bypass Customs controls

Intelligence led

Increasing trade and passenger volumes will require effective automated intelligence support systems

Efficiency

Customs systems must enable an efficient workforce, automating functions where appropriate, eliminating duplication and reducing processing delay

Cost effectiveness

Customs systems must enable a costeffective agency, supporting re-use and minimising costs across both border sector agencies and the external stakeholder community

Information management and collaboration

Customs will drive additional value from existing data sets, and make more intelligent use of both structured and unstructured information

Enabled workforce

Customs will enable a mobilised frontline workforce, providing the right information & functions in the right place at the right time

NEW ZEALAND CUSTOMS SERVICE

Government and Sector Drivers for Change

Result 7: Reduce the rates of total crime, violent crime and youth crime

Result 9: New Zealand businesses have a one stop online shop for all government advice and support they need to support and grow their business

Result 10: New Zealanders can complete their transactions with government easily in a digital environment

Support of NZ Open Data Standards

Common Capabilities will free up Customs resources to focus on Border Management Systems

Consume before Buy before Build

Automation of low value, routine tasks

Move resources from Run to Transform

Better Public Services

These drivers will improve public services once implemented



Further integration and collaboration with other sector agencies covering both service and information provision

Increasing requirement for high reliability integrated online systems to enable businesses to import and export quickly and efficiently.

Growing need for simple and reliable online systems for New Zealanders travelling for business or recreation which enable both traditional and innovative modes of access

GCIO

These drivers from the GCIO need to be accounted for



Transition away from Customs built or purchased solutions to common capabilities will require a change from highly customised solutions to a make-it-work approach and increased commercial acumen

Two speed ICT provision; with a strong team supporting a reliable business as usual environment, coupled with capacity flexible services supporting business transformation

Common services approach across sector

Increased demand for provision of systems to sector partners who are transforming their business

Sector

These sector-level drivers impact on the plan

Increasing need to work with sector partners to share information and provide systems and services



The future of Customs IS 2014-2017

- » Experts in Border Management Systems
- » Enabling an agile organisation
- » A trusted partner for the Customs business

» IS Focus

JBMS

Complete and embed the JBMS programme

Reduce

 Reduce the cost of ownership, support and maintenance of Customs Information Systems

Enable

Start to enable business transformation

IS Strategic Themes

To support the Customs Challenges, IS will deliver change through a series of Strategic Themes:



Intelligence Led

An Intelligence led, risk based approach will ensure Customs is positioned to combat illicit traders and organised crime more effectively and efficiently, and reduce harm to the community



- · Customs will offer sector wide alerting services to border agencies
- Real-time data sharing capabilities between operational functions across the agency
- · Passenger imaging and biometric passenger processing capabilities



Efficiency

Efficiency for Customs will ensure the best possible services are delivered within baseline



- · Integrated systems and increased reuse reduce time to deliver and cost
- Increased automation (e.g. Scaled SmartGate and Next Generation SmartGate)
- Deliver well defined transparent and agile services to Customs



Cost Effective

ICT solutions must be fit for purpose and cost effective

- Strategic sourcing of solutions, including consumption of government Common Capabilities
- Pragmatic transition to consumption based 'as a Service' constructs
- Extract value from existing Investments, focus on reusable assets, optimise capacity



Information Management and Collaboration

Information drives intelligence. Developing new information sources, and extracting value from the information Customs holds in systems is key to future success

- Drive additional value out of Customs data and information sets
- Develop and execute Information Management Strategy
- Look for opportunities to intersect with sector information management work
- Establish Customs wide content management and workflow capability



Enable People



The right information and right functions in the hands of skilled officers drives better outcomes

- Customs IS will engage with Customs business units to understand requirements and identify where technology can transform current processes
- Mobilise frontline staff through real-time connected access to information
- · Increase device choices to provide the right form factor for Customs staff
- "Right information & functions in the right place at the right time"

IS Principles

Principles help guide how services are provided, how solutions are developed and how Customs IS will interact with Customs business units and other stakeholders. The following principles are proposed:

| | Done is better than perfect. Look for short-term incremental improvement |
|---------------------------------|---|
| Consume before buy before build | Consume Common Capabilities and services from providers in preference to building systems |
| | Buy COTS applications where they meet IS customers needs and services are not available or fit for purpose |
| | Focus development effort on functionality that is specific to Customs (e.g. JBMS, CusMod and Nexus) |
| Outcome based delivery | Delivery of programmes will be on a business outcome basis. Prioritise business outcomes. We will give preference to activities that give value to the business |
| Responsiveness and agility | Customs IS responds to changing business demand and priority, and meets requirements within reasonable timeframes. The speed of ICT change matches the business demand for change |

IS Principles (continued)

Pervasive security and risk management

Security is pervasive in all Customs systems and aligned to the business risk framework. Security enables Customs' business. Customs IS will understand the risks faced, the implications of the risk materialising, applicable mitigation actions, and weigh the risk against other factors when making decisions

investment

Value from Ensure that maximum business value is gained from investments in technology. Costs are balanced against other factors such as performance, delivery timelines and security.

Contract for continuous year-on-year savings

Transparency

Transparency engenders trust, and trust enables IS the allocation of resources required to deliver to Customs

responsibilities and accountabilities

Customs IS assigns clear, logical responsibilities and accountabilities for all activities

Customs IS Will Support Business Priorities

Intelligence

Border

People and culture

modernisation

Increased need for effective business intelligence

Increasing volume of data to manage, integrate and make available

New or enhanced intelligence and case tools will be required

Maintain FMIS to reduce customs avoidance

Deliver efficient and effective revenue collection

Increase our ability to identify risk, detect non-compliance and carry out enforcement

Deliver Future <u>Direction</u> and JBMS

Build partnerships with key government, industry and international stakeholders

Ensure a modern **regulatory framework** that enables the future

<u>b</u>order environment

Increased data sharing and integration with sector partners

Increasing need for high reliability business transaction systems

Increased change in border sector processes is anticipated

Regulatory reform will drive system change

Existing customer facing systems will need user experience improvements

Need to integrate with other agencies to provide a one stop shop for importers and exporters

Need manage authoritative information assets, security and privacy Positively contribute to the **Better Public Services** transformation

Enhance customer experience, value and confidence

Maintain **public trust** and confidence in Customs

Create a great place to work where our people have a sense of belonging and the capability and desire to meet our challenges

Continuously improve our processes to deliver better services

Maximise the sustainable use of resources within the context of increasing workloads and reducing baselines

Need to provide modern efficient user experience for staff

Increased need for technology training and skills development for all staff

Systems changes will be required to support streamlined efficient front line working

Future State ICT Vision

| Align | IS | to | operational | business |
|-------|----|----|-------------|----------|
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|----------------------------------|--|
| Understand Customs business | Customs IS will understand the needs and constrains of the Customs business and focus on delivering services that support Operations |
| Move technology to the frontline | Customs IS will provide services that put the appropriate technology at the hands of Customs staff wherever they are working. "The right technology services at the right time" |
| Update technology regularly | IS will scan the market for innovative, near leading edge technologies, which will be deployed where they will best meet the business requirements of the border sector |
| | Focus on information |
| Gather information | Information, and the effective management of information will be critical to the success of Customs. Customs IS will focus on gathering information that can be used to create intelligence to support enhanced risk assessments |
| | Drive for efficiency |
| Support GCIO ICT strategy | Customs IS will aggregate commodity ICT services in preference to building systems. Customs IS will support the government ICT Strategy and Action |

Plan. "Consume before Buy before Build"

Future State ICT Vision (continued)

| Operating m | ode |
|--------------------|-----|
|--------------------|-----|

| In house ownership | IS will always own Customs' technology strategy with decisions being made in house |
|----------------------------------|--|
| Work with partners | IS will work with key partners to deliver services |
| | Services aggregator |
| Integrate Common Capabilities | Customs IS will integrate Common Capabilities with Customs-specific applications, data sets and systems to deliver outcomes that deliver business value while also aligning with Government ICT strategies |
| Support government ICT direction | Customs will support the direction of government ICT as identified in the GCIO Strategy and Action Plan, and will drive additional value out of Customs' data and information sets |
| | Information led |
| Integrate new | Customs IS will integrate new information sources to enable Customs |

intelligence and delivery of enforcement outcomes

Two speed ICT

Change is not uniform

information sources

Speed of change matches the business demand for change, and the risk and complexity of systems. Large core systems change at a slower rate than smaller more agile systems

IS Future State Capabilities

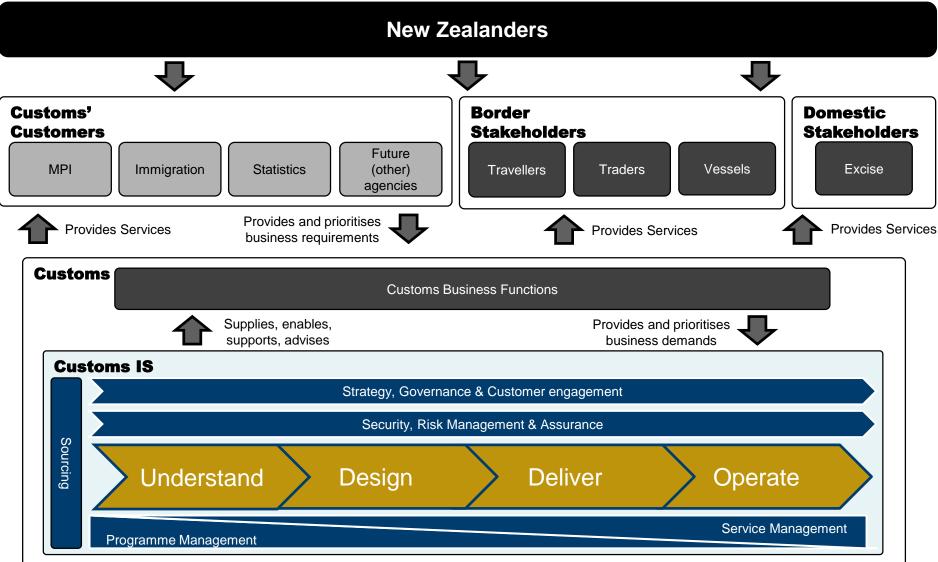
The Customs IS future state will rely upon a number of capabilities. The following two slides provide an overview of each of the capabilities, which are then shown in the Customs IS operating model

| Strategy, Governance & | Understanding customer requirements and setting strategies that address these requirements is a critical function for Customs IS. |
|---|--|
| Customer engagement | This capability addresses the activities required to proactively build and maintain strong relationship with customers, both within Customs, and across the border sector entities. |
| | Manage the technology landscape to meet Customer needs, achieve business- aligned prioritisation of initiatives |
| Security, Risk Management and Assurance | Physical and information security, and risk management are critical functions within the border sector. Customs IS requires the ability to develop, operate and maintain a pragmatic, business-aligned information security and risk assurance framework |
| Understand | Customs IS must understand the needs and challenges of the business. Through this function Customs IS will engage with the business to both understand the business and to share how technology can best enable and transform Customs operations |
| Design | Design addresses the ability to design and develop an ICT architecture that is aligned with customers' business strategies and delivers increased flexibility and, cost effectiveness. Ensure compliance with Customs IS strategy by delivery teams architectural standards and blueprints |

IS Future State Capabilities

| Deliver | The deliver phase addresses all activities associated with the development, maintenance and support of Border Management applications and systems, and integration of those applications into a cohesive end-to-end solution that meets Customs and border stakeholder needs. |
|-------------------------|---|
| | This also includes the delivery of all infrastructure (server, desktop, security, storage etc.) and connectivity required to support Customs Border Management applications and systems |
| Operate | This phase addresses activities associated with the management and operation of technology for Customs, and the quality of service provided by the environment, service delivery teams and vendors |
| Programme Management | The capability to manage technology projects, e.g. project management, business requirements gathering, procurement, deployment and testing |
| Support | The capability to provide support functions that enable IS teams to deliver outcomes |
| Sourcing | The capability to manage relationships with strategic vendors to deliver ongoing value for Customs, manage contacts, and ensure that contracted services are delivered |

IS Operating Model



Proposed High-level IS Roadmap

