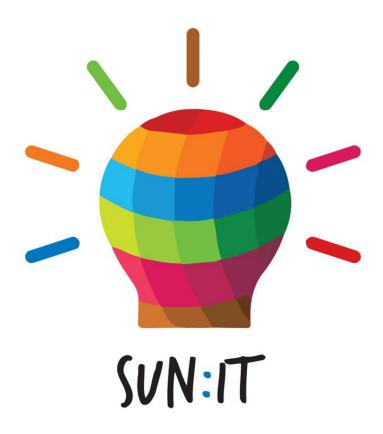
Inputs towards the Development of New Zealand's ICT Strategy



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28 Nov 2017
Wellington

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The Backstory

Interest on Twitter

On 21st October 2017, Rod Drury tweeted he was planning to work with the new government on:

- Office of CTO
- Retail Payments
- elnvoicing
- B2G acceleration

And that it would be good to kick off with a NZ Tech Plan. In response I suggested a couple of overseas ICT models, notably Canada and Malaysia, both of which generated interest and comments.

The Meetup

On 16th November 2017, Dave Moskovitz organised a Meetup to do with Government as a Platform and GovTech Acceleration.

Pia Waugh from DIA's Service Innovation Lab (LabPlus) drew up a chart showing government and the way it works going across reasonably flat, and complexity of the life of citizens going up exponentially. The gap between the two was the opportunity of what needed to be addressed to better serve the people.

Here is the picture she drew up:

Brett Holland from CreativeHQ spoke of GovTech Acceleration, examples, successes, lessons learned and GovTech 2018.

Hon Claire Curran and her address at NetHui and ITP Wellington

Although I did not attend either address, I saw a FaceBook recording of Hon Claire Curran's address to ITP members in Wellington of 20th November, and read what was reported on social media on her NetHui address of 2nd November.

Hon Clare Curran reiterated her commitment to a CTO, and clearly by the kind of questions coming at her it was clear that not only was there a lot of work to be done in a very short period of time, and so also a lot of consultation.

Purpose

While there are many initiatives on the go, they seem to be disjointed, lacking in an overall strategy and framework.

The purpose of this paper is to provide inputs, examples, thoughts, ideas and considerations - to help the new minister and her new CTO scope, estimate, resource and help inform New Zealand's new ICT Roadmap, Model & Strategy.

Initial Thoughts & Observations

That there were a number of initiatives and discussions either planned or under way, but they seemed to be disjointed, in silos, lacking in cohesion, direction and framework.

That there are a number of overseas examples of national Digital & ICT strategies, frameworks & roadmaps, that they contain the aspirational values of the country and provide the link as to how ICT will achieve them – we could learn from these examples.

That while there is a NZ ICT Strategy, it needs to be refreshed. I have discovered this is already under way – though the new CTO may have a view on this before it is released.

That there are non-ICT examples within New Zealand that could possibly be put to use; if not the frameworks, then the brains that created them.

That there are a large number of stakeholders across a wide spectrum, each with their own perspectives and drivers, and they need to be identified and consulted for their inputs.

That without a doubt, the role of the CTO will have to be properly scoped, and that if the CTO is responsible for technology infrastructure, then we will need a team responsible for: applications & digital channels, data, interoperability, security, strategy & architecture, governance, finance, operations including programmes, change, stakeholder management and communications.

That when we pull all of these together, we could have a strategy, a roadmap, a framework, a radar map linking social priorities with ICT initiatives outlining the players in the mix.

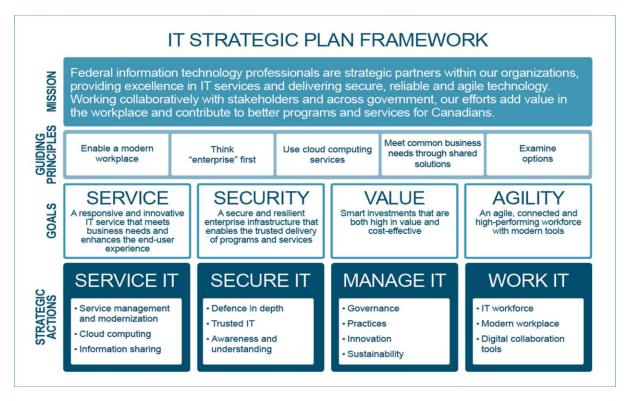
Here are my inputs towards the development of New Zealand's ICT Strategy for the Hon Clare Curran to consider.

The Approach of this Submission

- 1. Showcase relevant examples of national ICT Strategies & Roadmaps from overseas
- 2. Reference existing Architecture Models and Frameworks as candidates for use
- 3. Look at UN's priorities as an example
- 4. Look at the priorities set out by the New Zealand government
- 5. Draft list of stakeholders as an example for consultation, joining the dots with, and for collaboration
- 6. Taking the Education sector as an example, roughly mapped 3 dimensions:
 - a. Timeline(s) of what a roadmap, the timeline or a horizontal could look like
 - b. Vertical technical stack to complement the horizontal
 - c. Stakeholder map identifying hot spots, white spaces & initiatives
- Addendum: examples of models from non-ICT NZ Government departments and functions for reference and input

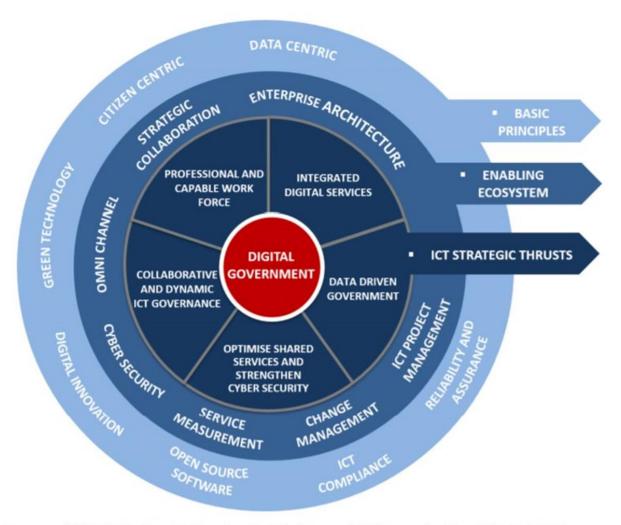
The Canadian Model

The Government of Canada's Information Technology Strategic Plan sets out the four-year strategic direction for information technology (IT) in the federal government.



https://www.canada.ca/en/treasury-board-secretariat/services/information-echnology/information-technology-strategy/strategic-plan-2016-2020.html

The Malaysian Model



Source: MAMPU's The Malaysian Public Sector ICT Strategic Plan 2016 - 2020

http://www.mampu.gov.my/images/agensikerajaan/perkhidmatan/The-Malaysian-Public-Sector-ICT-Strategic-Plan-2016 2020.pdf

Singapore's Model to 2015

Intelligent Nation 2015 (iN2015) is Singapore's 10-year masterplan to help us realise the potential of infocomm over the next decade.

Led by the IDA, iN2015 is a multi-agency effort that is the result of private, public and people sector co-creation.

From the people sector, individuals provided their ideas and views through focus groups and the ExpressIT! iN2015 Competition.

Recommendation: consider seeking inputs not just from the industry, but also from citizens and in fact all stakeholders to help prioritise and develop strategy; will Singapore's approach of seeking input work in New Zealand?

The competition attracted thousands of entries from students and the general public on how they envisioned infocomm would impact the way they live, work, learn and play in 2015.

In addition, hundreds of private and public sector representatives participated in numerous discussions to come up with ideas for transforming their sectors through infocomm, and how to translate these ideas into reality.

- Digital Media and Entertainment
- Education and Learning
- Financial Services
- Government (iGov2010)
- Healthcare and Biomedical Sciences
- Manufacturing and Logistics
- Tourism, Hospitality and Retail
- Infocomm Infrastructure, Services and Technology Development
- Enterprise Development for Singapore-based Infocomm Companies
- Infocomm Manpower Development

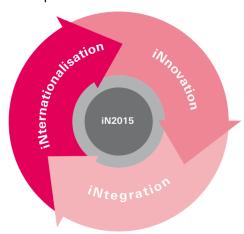


Figure 1-1: Key themes of iN2015

An Intelligent Nation, a Global City, powered by Infocomm.

http://unpan1.un.org/intradoc/groups/public/documents/unpan/unpan032993.pdf

Singapore's Model to 2025

WHAT WE WANT

We want a nation where people live meaningful and fulfilled lives, enabled by technology, offering exciting opportunities for all.

Sustainable and **Quality Growth**

Better Quality of Life

WHAT WE NEED

We need to build our sectors to better tap on the potential of infocomm media to tackle our national challenges, and realise our desired outcomes.

A Globally Competitive Infocomm Media Ecosystem that







HOW WE WILL GO ABOUT DOING IT

We will focus our efforts to reap the full potential of salient technology and business trends through three strategic thrusts.



our economic competitiveness

MADE IN SINGAPORE

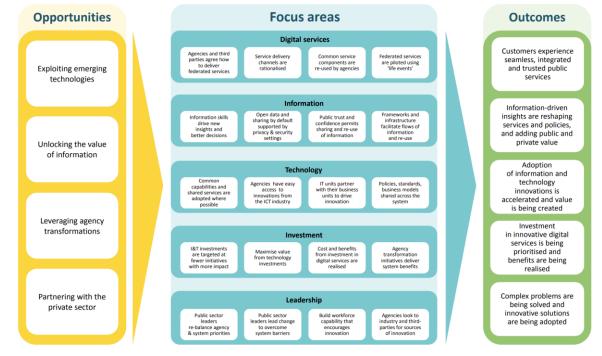
Nurture an infocomm media ecosystem that encourages risk-taking and continuous experimentation to create Singapore-made content, products and services

Connect people through infocomm media to enhance quality of life in Singapore and to foster a stronger Singaporean identity

https://www.mci.gov.sg/portfolios/infocomm-media/infocomm-media-2025/introduction-toinfocomm-media-2025

Government ICT Strategy 2015

Enabling the public sector to exploit ICT-enabled opportunities



New Zealand Government

https://www.ict.govt.nz/assets/ICT-Strategy/Government-ICT-Strategy-2015-A3.pdf

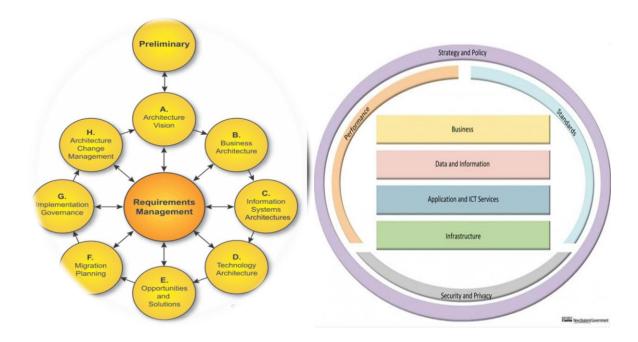
Architectural Models & Frameworks – The Vertical

Between them, The Open Group's (TOGAF's) Architecture Development Method (ADM) and the Government Enterprise Architecture NZ (GEA-NZ) form the starting point for any ICT development.

Both link the overall vision through to strategy, policy, business, data, applications and infrastructure. In some shape or form, both also include implementation, governance, security & reporting to complete the picture.

They offer guidance and form the Y-Axis or the vertical stack of what our national applications, data & infrastructure could look like.

Recommendation: Consider using GEA-NZ or TOGAF ADM at a strategic level for the entire government, top-down as a starting point. Spawn more GEA-NZ or ADMs models to support the overall vision and cascade to granularity.



https://www.ict.govt.nz/guidance-and-resources/architecture/government-enterprise-architecture-for-new-zealand-framework

United Nation's Priorities

For reference and as an example, UN Goals listed below as examples of clearly enunciated and understandable result areas.







































https://en.wikipedia.org/wiki/Sustainable_Development_Goals

New Zealand Government Priorities – What Needs to be Done

These are the Labour Party's manifesto. Programmes of work will be required to deliver the promises.

Recommendation: These form the vision for ICT to deliver against



http://www.labour.org.nz/policy

Wouldn't it be great to be able to drill down any one of these key policies to see the ICT strategy, plan, roadmap and programmes of work that are either leading these, or making them happen.

Key Players & Stakeholders – The Dots that need to be Joined A View of the Total Landscape

My view of all players the total landscape and those who will need to be consulted.

Recommendation: seek inputs, develop a draft strategy, consult, publish, execute, report – easier said than done

The Government (Minister & CTO)	Government Departments & Agencies AND their middle managers	Companies – large, SME, small	Banks	
Large Overseas ICT Suppliers to Government (IBM, Unisys, DiData, SAP, Oracle, Microsoft etc)	Overseas Players with local impact but no significant local presence (Amazon)	Smaller Overseas ICT Suppliers	Indian IT Majors	
Big 4 Consulting Firms	Smaller Specialist Overseas Consulting Firms	NZ owned System Integrators & Service Providers (SPARK, Fronde, Intergen, Datacom etc)	NZ owned Consulting Firms	
Law Firms, IP Attorneys	Attorneys Industry Bodies (ITP, Private Equity NZRise etc)		VCs & Angels	
Innovation Hubs, Accelerators & Incubators	Joe Public Citizen	Families	Communities	
Entrepi	eneurs Mer	ntors Bottom I	-eeders	

NZ Ministerial Portfolios – Dot Cluster 1

Excludes State Sector Organisations

Included to show size and complexity.

ACC	Agriculture	Arts, Culture and Heritage	Attorney-General
Biosecurity	Broadcasting, Communications and Digital Media	Building and Construction	Child Poverty Reduction
Children	Civil Defence	Climate Change	Commerce and Consumer Affairs
Community and Voluntary Sector	Conservation	Corrections	Courts
Crown/Māori Relations	Customs	Defence	Deputy Leader of the House
Deputy Prime Minister	Disability Issues	Earthquake Commission	Economic Development
Education	Employment	Energy and Resources	Environment
Ethnic Communities	Finance	Fisheries	Food Safety
Foreign Affairs	Forestry	GCSB	Government Digital Services
Greater Christchurch Regeneration	Health	Housing and Urban Development	Immigration
Infrastructure	Internal Affairs	Justice	Land Information
Leader of the House	Local Government	Māori Development	Ministerial Services
National Security and Intelligence	NZSIS	Pacific Peoples	Pike River Re-entry
Police	Prime Minister	Racing	Regional Economic Development
Research, Science and Innovation	Revenue	Rural Communities	Seniors
Small Business	Social Development	Sport and Recreation	State Owned Enterprises
State Services	Statistics	Tourism	Trade and Export Growth
Transport	Treaty of Waitangi Negotiations	Veterans	Whānau Ora
Women	Workplace Relations and Safety	Youth	

http://www.ssc.govt.nz/state_sector_organisations

NZ Government Organisations – Dot Cluster 2

319 organisations in total, impossible to read, but produced below to show size and complexity.

Question: is there a strategy for shared common infrastructure and for shared, common and open data? If not, is there a case to do some architectural work to investigate and create a roadmap with benefits and cost savings?

Accident Compensation Corporation	Disputes Tribunal	Intellectual Property Office of New Zealand	Māori Language Commission	Oreanised & Financial Crime Agency New Zealand	Supreme Court of New Zealand	Waitemata District Health Board
Accreditation Council	Druz Free Soort New Zealand	International Accreditation New Zealand	Napier City Council		Tai Poutini Polytechnic	Waitomo District Council
Agricultural and Marketing Research and Development Trust	V	Invercareil City Council	National Advisory Council on the Employment of Women		Tairawhiti District Health Roard	Weathertight Services
Air New Zealand	Farthquake Commission	Kaikoura District Council	National Library of New Zealand		Tairāwhiti Polytechnic	Wellington City Council
Airways Corporation of New Zealand Limited	Eastern Institute of Technology	Kaipara District Council	Nelson City Council		Takeovers Panel	Wellington Institute of Technology
Alexander Turnbull Library	Education New Zealand	Kapiti Coast District Council	Nelson Marlborough District Health Board		Taranaki District Health Board	Wellington Regional Council
Animal Control Products Limited	Education Review Office	Kawerau District Council	Nelson Marlborough Institute of Technology		Taranaki Regional Council	West Coast District Health Board
Ara Institute of Canterbury	Flectoral Commission	KiwiRail Holdings Limited	New Plymouth District Council		Taranua District Council	West Coast Regional Council
Arts Council of New Zealand Toi Actearca	Electrical Workers Registration Board	Kordia Group Limited	New Zealand Aid Programme	Parliamentary Coursel Office	Tasman District Council	Western Bay of Plenty District Council
Ashburton District Council	Electricity Authority	Lakes District Health Board	New Zealand Antarctic Institute		Taupo District Council	Western Institute of Technology at Taranaki
Asia New Zealand Foundation	Employment Relations Authority	Land Information New Zealand	New Zealand Army	Personal Property Securities Register	Tauranea City Council	Westland District Council
AsureQuality Limited	Energy Efficiency and Conservation Authority	Landcoro Farmine Limited	New Zealand Artificial Limb Service		Te Reo Whakaouaki Iriranei (Māori Broadcastine Fundine Aeen	
Auckland Council	Energy Safety	Law Commission	New Zealand Blood Service		Te Tumu Paeroa	Whanganui District Council
Auckland District Health Board	Environment Court	Leadership Development Centre	New Zealand Customs Service		Te Whare Wänanga o Awanulärangi	Whanganui District Health Board
Auckland University of Technology	Environmental Protection Authority	Legal Aid Tribunal	New Zealand Debt Management Office		Te Wananga o Aotearoa	Whangarei District Council
Audit New Zealand	External Reporting Board	Lincoln University	New Zealand Defence Force		Te Wananga o Aukawa	Whitireia Community Polytechnic
Aviation Security Service	FairWay Resolution Limited	Mackenzie District Council	New Zealand Export Credit Office	*******	TeachNZ	Work and Income
Awarun Security Service Bay of Plenty District Health Board	Far North District Council	Manawatu District Council	New Zealand Elport Credit Office New Zealand Elport Credit Office	Radio Soectrum Management	Telar Limited	Work and income WorkSafe New Zealand
Bay of Plenty Regional Council	Financial Markets Authority	Manawatu-Wanganui Regional Council	New Zealand Fish and Game Council		Telford Rural Polytechnic	Youth Court
Broadcastine Commission	Fire and Emergency New Zealand	Manukau Institute of Technoloev	New Zealand For and Game Bird Habitat Trust Board	*	Tenancy Services	TOWN COURL
Broadcasting Commission Broadcasting Standards Authority	Fire and Emergency New Zealand Board	Maritime New Zealand	New Zealand Geographic Board		Tertiany Education Commission	
Building System Performance	Genesis Energy Limited	Marlborough District Council	New Zealand Letteries Commission	Registrar or Unions Research and Education Advanced Network New Zealand Limits	1111	
Buller District Council	Gisborne District Council	Massey University	New Zealand Lottery Grants Board		The Office of Ethnic Communities	
Callaghan Innovation	Gore District Council	Masterton District Council	New Zealand Lottery Grants Board New Zealand Petroleum & Minerals		The Treasury	
Canterbury District Health Board	Government Communications Security Bureau	Matamata-Piako District Council	New Zealand Police		Timaru District Council	
Canterbury District Reach Board	Government Superannuation Fund Authority	Medsafe	New Zealand Post Limited		Toi Ohomai Institute of Technology	
Capital & Coast District Health Board	Grev District Council	Meridian Energy Limited	New Zealand Productivity Commission	1.7	Trading Standards	
Careers New Zealand	Guardians of New Zealand Superannuation	Meteorological Service of New Zealand Limited	New Zealand Qualifications Authority	Rugoehu District Council	Transport Accident Investigation Commission	
Carterton District Council	Hamilton City Council	MidCentral District Health Board	New Zealand Quality College	Ruapeno District Council Selwan District Council	Transport Accident investigation commission Transpower New Zealand Limited	
Central Hawke's Bay District Council	Hastings District Council	Ministry for Culture and Heritage	New Zealand Security Intelligence Service		United Institute of Technology	
Central Otago District Council	Hauraki District Council	Ministry for Pacific Peoples			Universal College of Learning	
Charities Services	Hauran District Council Hawke's Bay District Health Board	Ministry for Pacific Peoples Ministry for Primary Industries	New Zealand Symphony Orchestra New Zealand Tourism Board		University of Auckland	
Chatham Islands Council		Ministry for Vulnerable Children, Oranga Tamariki	New Zealand Trade and Enterprise		University of Canterbury	
Children's Commissioner	Hawke's Bay Regional Council Health Promotion Agency	Ministry for Women Ministry for Women	New Zealand Transport Agency		University of Claeco	
Christchurch City Council	Health Quality and Safety Commission New Zealand	Ministry for the Environment	New Zealand Walking Access Commission		University of Waikato	
Civil Aviation Authority of New Zealand	Health Quality and Safety Commission New Zealand Health Research Council of New Zealand	Ministry for the Environment Ministry of Business, Innovation and Employment	New Zealand Walking Access Commission Neal Tahu Ancillary Claims Trust		University of Walkato Upper Hutt City Council	
Clutha District Council	Health and Disability Commissioner	Ministry of Gvil Defence and Emergency Management	Ngai ratu Alichary Carris Irusi. NorthTec		Valuers Registration Board	
Commerce Commission	Heartland Services	Ministry of Consumer Affairs	Northland District Health Board		Veterans' Affairs New Zealand	
Commission for Financial Capability		Ministry of Consumer Arians Ministry of Defence	Northland Regional Council		Victoria University of Wellington	
Commission for Financial Capability Commanies Office	Heritage New Zealand Horowhenua District Council	Ministry of Education	Office for Disability Issues		victoria university or wellington Walkato District Council	
Controller and Auditor-General		Ministry of Equation Ministry of Foreign Affairs and Trade	Office for Seniors	Southern institute of Technology Southern Response Earthquake Services Limited	Waikato District Health Board	
Courties Manukau District Health Roard	Housing New Zealand Corporation	.,	Office of Film and Literature Classification	Southern wesporse carriquaixe services Limited Southland District Council		
	Human Rights Commission Human District Council	Ministry of Health			Waikato Institute of Technology	
Court of Appeal Crown Fibre Holdines Limited	Hutrurui District Courcil Hutt City Courcil	Ministry of Justice Ministry of Māori Development	Office of Human Rights Proceedings Office of Treaty Settlements	Southland Regional Council Soort New Zealand	Waikato Regional Council Waimakariri District Council	
			Office of Treaty Settlements Office of the Auditor-General	Sport New Zealand Standards New Zealand		
Crown Law Office	Hutt Valley District Health Board	Ministry of Social Development			Waimate District Council	
Defence Employer Support Council	Immigration New Zealand	Ministry of Transport	Office of the Clerk of the House of Representatives	State Housing Appeals Authority	Waipa District Council	
Department of Conservation	Immigration and Protection Tribunal	Ministry of Youth Development	Office of the Ombudsman		Wairarapa District Health Board	
Department of Corrections	Independent Police Conduct Authority	Motor Vehicle Traders Register	Office of the Parliamentary Commissioner for the Environment		Wairoa District Council	
Department of Internal Affairs	Inland Revenue Department	Museum of New Zealand Te Papa Tongarewa	Open Polytechnic of New Zealand		Waitaki District Council	
Department of the Prime Minister and Cabinet	Insolvency and Trustee Service	Māori Land Court	Opotiki District Council	StudyLink	Waitangi Tribunal	

https://www.govt.nz/organisations/

The Larger Wellington Eco-System – Dot Cluster 3

Borrowed from AccessGranted's WellyTech2017 Christmas Party – this is an indication of the larger Wellington eco-system. No doubt this is replicated in all other cities and regions.

This sector comprising specialist groups and often at the cutting edge has a lot to contribute by way of innovation and social enterprise. They could do with much better connections with both government and the larger players in the industry in general.

Recommendation: Join the Dots by way of regular communications, updates, and meetings so that connections are made, efforts are synchronised and duplication is eliminated.





















































https://www.accessgranted.nz/jibberjabber/2017/10/4/wellytech-2017-christmas-party-this-yearits-big

The Wellington StartUp Eco-System

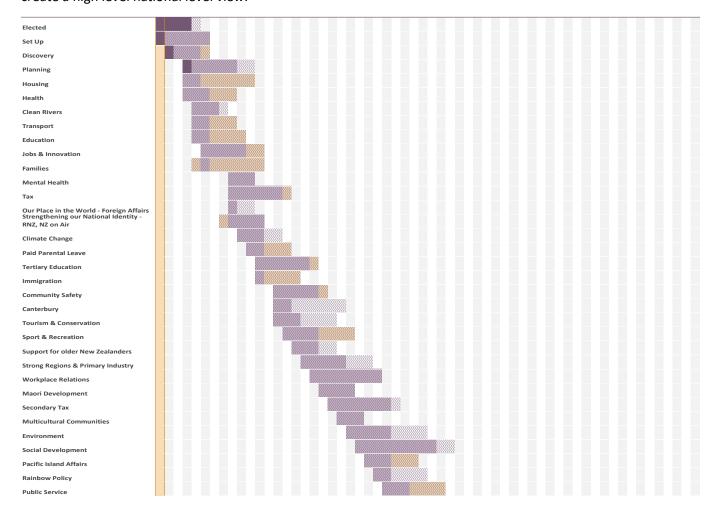
- CreativeHQ
- Victoria Entrepreneur Bootcamp
- VentureUp
- Lightning Lab
- **R9** Accelerator
- WREDA
- AngelHQ
- Callaghan Innovation
- **Enspiral**
- Akina Foundation

https://www.wellingtonnz.com/business/startups/

Initiatives, Programs, Projects & Timelines – The Horizontal

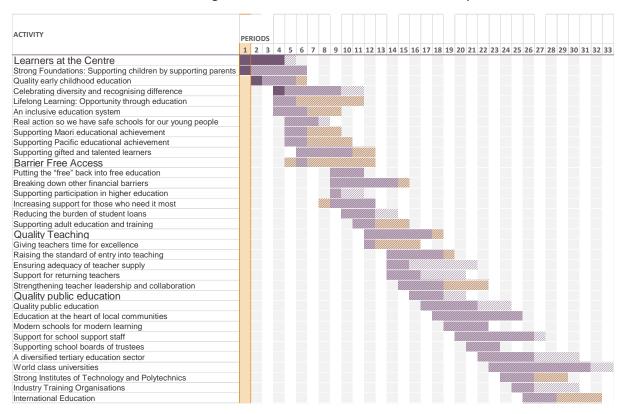
National Level Program View

Pulling in the Labour Government policy initiatives into a simple indicative linear project plan to create a high level national level view.



Example - Education Related Projects & Initiatives

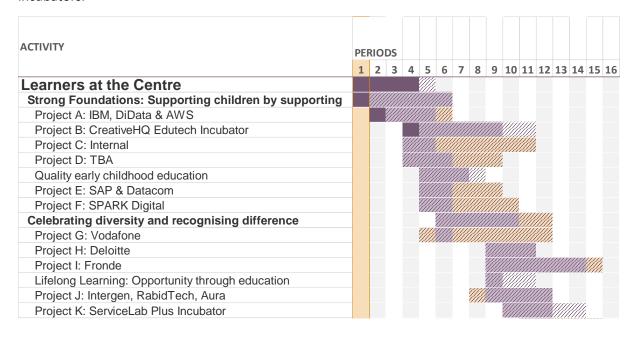
Details of what the Education Program could look like. Based on Labour Party's Education Manifesto.



http://www.labour.org.nz/educationmanifesto

Example Timeline – Learners at the Centre initiative

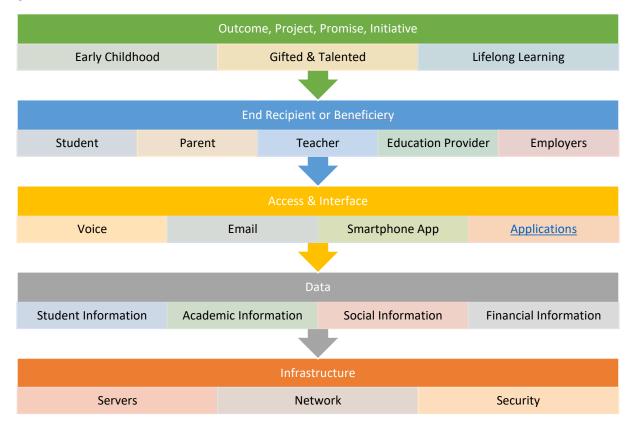
A mock up example of the projects under a program and <u>all</u> players working to support the overall vision. Includes large industry multinationals, large local players, New Zealand owned business, and incubators.



Education – Example of the Vertical

Starting at the top with the policy initiative or the outcome, project, promise or initiative, drilling down to the persona or the positively impacted person, community or education service provider, through to application or channel, down to data, and finally to the infrastructure.

Not depicted here but contained in the GEA-NZ, this assumes security, access, metrics, reporting, governance etc.



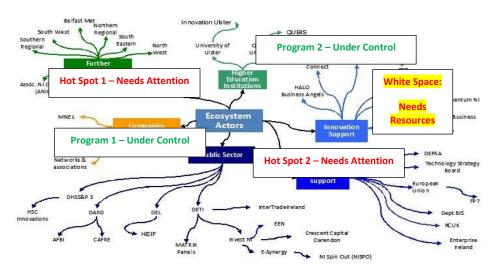
Bringing it Together

Hotspots, White Spaces & Opportunities – Visual Representation of an Ecosystem

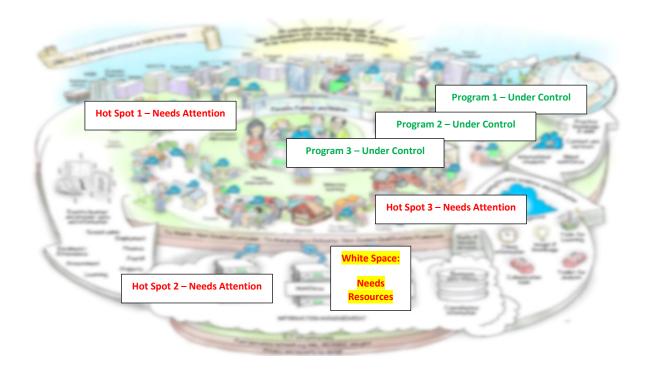
Having the list of priorities, the programmes of work that are under way to support them, and all the players involved – a graphical representation of who is doing what where could look like these two examples below.

This should help identify hotspots and white spaces. And with that help allocate or assign corporate, government or entrepreneurial resources where they can make maximum impact.

Example 1:



Example 2 (blurred on purpose):



Summary

- 1. ICT Vision as a nation, New Zealand does not have a visionary, coherent, long term, visible, contemporary, ICT strategy
- 2. Framework & Principles related to the above, national overarching architectural principles & framework covering data, applications & infrastructure do not appear to be in place
- 3. Silos & Lack of Cohesion while there is good work being done, they appear to be in disjointed silos, in isolation and there is no clear visibility of the total landscape perhaps leading to duplication of effort in some areas while other areas are left potentially under-served
- 4. Visibility while there is visibility of large government ICT projects, the total holistic picture including smaller projects, private sector initiatives, start-ups and any social enterprise is not in place

Suggested Path Forward

- 1. Creation of a New Zealand ICT Strategy & Roadmap supporting the overall vision of the government; the roadmap being the horizontal timeline
- 2. Prioritisation of what needs to be done, in which area, by whom, for whom, for what benefit
- 3. Publication of National Architectural Foundations & Principles covering data, applications, & infrastructure as well as security, access and interoperability; forming the basis for the vertical stack
- 4. Identification of all stakeholders and consulting and actively engaging with them with a view of seeking inputs, making meaning connections and collaboration, so that appropriate resources can be applied to solve social issues in the most effective manner
- 5. A real time graphical map showing who is doing what, where, to achieve what outcome, complete with details of the time horizon and the vertical stack; ability to see hotspots and white spaces to identify areas of opportunities
- 6. Covering the full spectrum from large government projects down to incubators and innovation labs if they are funded by the government

Benefits

- 1. Coherence, strategy, roadmap, priorities
- 2. Open, published architectural framework & rules
- 3. Identification of areas of immediate impact, business & social opportunities
- 4. Ability to steer private and entrepreneurial resources to areas needing attention
- 5. Better market information for a more competitive landscape
- 6. All in all, harnessing and aligning all the resources in a deliberate and constructive manner to accelerate the benefits to New Zealand as a whole

Addendums

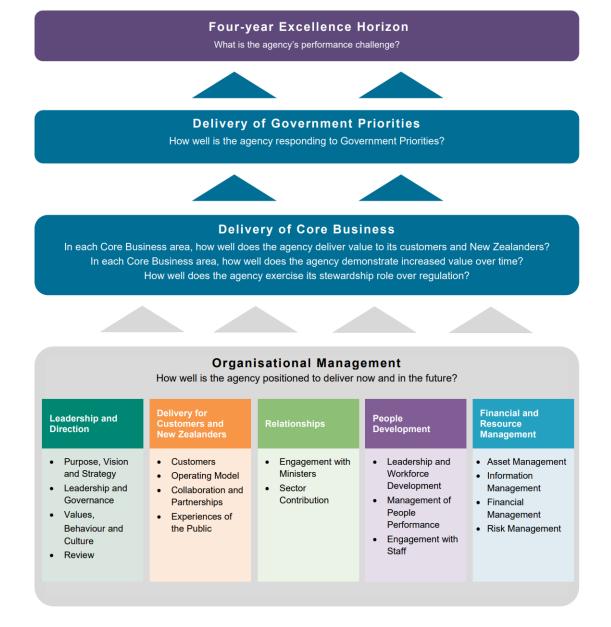
NZ Examples outside ICT - Performance Improvement Framework; State Services Commission

The Performance Improvement Framework (PIF) helps senior leaders in the State Services lead performance improvement in their agencies and across the system.

Users of the framework start with the question: "what is the contribution New Zealand needs from this agency (or sector or system) in the medium term?"

They then use the framework to identify the critical gaps and opportunities between the current and desirable future capability and performance.

This is the performance challenge, and it is described in the Four-year Excellence Horizon.



http://www.ssc.govt.nz/sites/all/files/pif-core-guide-1-dec2015_0.pdf

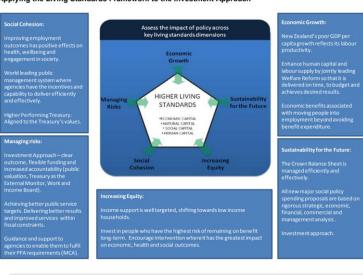
NZ Examples outside ICT - NZ Higher Living Standards; Treasury

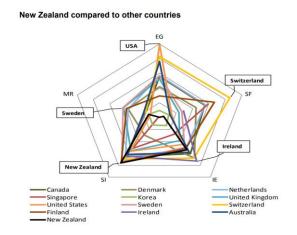
Our vision is focused on higher living standards for New Zealanders.

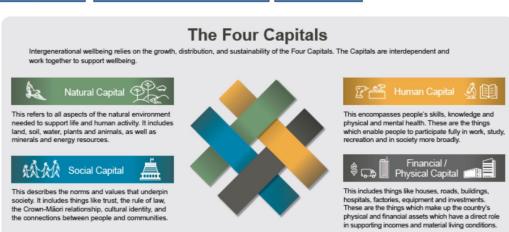
Achieving this requires growing the country's human, social, natural, and financial/physical capitals which together represent New Zealand's economic capital.

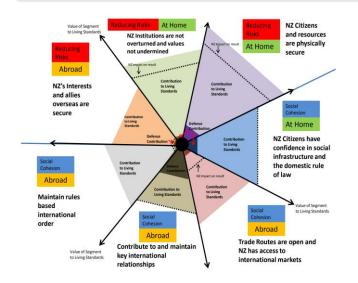
http://www.treasury.govt.nz/abouttreasury/higherlivingstandards













Swedish Version of NZRise



Accelerating Innovation

A strong, joint research institute for Sweden. Innventia, SP and Swedish ICT have joined RISE to become a stronger research and innovation partner.

In international collaboration, with academia, business and public sector, we contribute to a competitive business community and a sustainable society.

https://www.sp.se/en/Sidor/default.aspx



RISE Bioeconomy

RISE Bioeconomy is world-leading and we work with innovations based on forest raw materials. The majority of our operations are carried out in project form via research programmes involving many partners, or in development projects with individual customer

Read more... companies.



RISE ICT

RISE ICT is in the most expansive area of industry this century: the total digitalization of products, services and businesses. We are in the midst of this revolution, boosting the competitive strength of Swedish industry and the quality and efficiency of Sweden's public sector. We contribute with cutting edge technology within many

Read more... areas.



RISE Bioscience and Materials

We are the natural innovationpartner for customers within the agricultural, chemistry, food, medical technology, Health innovation and biochemicals area. Our 370 co-workers can offer you services within research & development, testing & analysis, education and verification.

» Read more...



RISE Safety and Transport

We have cutting-edge expertise within everything from mechanical risks to measurement technology and fire protection. We work with testing, inspection, calibration and certification. We have world-class laboratories for fire, high-voltage and AstaZero, a full-scale test environment for future road safety.

Read more...



RISE Built Environment

We work with built environment, optimization of resources, construction, infra-structure solutions and city development. We offer R&D-services that creates benefits for business and society and have a focus on human interest. We are approx. 350 co-

Read more... workers.



RISE Certification

RISE Certification is one of the leading bodies in the field of certification in Sweden, with long experience of the work. We issue certificates of compliance with a large number of standards. We are a partner upon whom you can totally rely. We are approx 70 coworkers.

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