Coping With the Pace of Technological Change

National Mapping & Geospatial Agencies – To Change is to Prosper
Brett Dixon – General Manager - Asia

Interconnected Information, Processes, and Workflows . . .
. . . All Happening at the Same Time

Creating Smart, Dynamic Organizations

Using the Power of Location to Integrate Everything
Technology Is Advancing Rapidly
Integrating and Leveraging Many Innovations

Promises of efficiency & cost-savings

CLEAR ORGANISATIONAL VISION & PURPOSE

DIGITAL TRANSFORMATION
National Mapping Agencies – Contributing to National Objectives

**Aspirations**

- Safe
- Well-Run
- Livable
- Healthy
- Prosperous
- Sustainable

**Initiatives**

- Implement Performance Management
- Create More Jobs
- Reduce Homelessness
- Automate national mapping production
- Increase Recreation Opportunities
- Improve Water Conservation
- Address maritime biodiversity
- Improve Earthquake Preparedness
- Improve Emergency Response Times
- Use Less Energy
- Encourage Startups
- Reduce Traffic Congestion

National aspirations are translated into actionable, real-world Initiatives
Building Bridges to Information Infrastructure

Inform  Listen  Monitor

Do all youth not at school or in training and unemployed, are idle?

Coastal Vulnerability Index
National Mapping Agencies are reorientating themselves

- Relevant
  Contributing to National Objectives

- Responsive
  Actively engaging other agencies & citizens

- Authoritative
  Producing quality, safe, trusted, timely information

- Efficient
  Aligning people, processes & technology

Enterprise Architecture driven by Business Outcomes

Not driven by product outputs

System of Record
Data Management and Integration
- Automated production workflows
- Production management
- Near-real time updates

System of Engagement
Sharing, Collaboration, and Dissemination
- App culture
- Citizen engagement
- Field mobility

System of Insight
Analytics, Models, and Data Exploration
- Focused analytics
- Exploiting big data / AI
- Multi-agency efforts

. . . Leveraging technology to deliver real outcomes
Ideas on how to be the master of technology...

- Set a vision that defines organisational purpose beyond just “making maps”
- Create an Agile organisation
  - Initiative-driven projects – form a rallying point
  - Proactive engagement of customers & stakeholders
  - Incrementally grow capabilities – fail early, fail often
- Create a culture of Innovation & “Need to Share”
  - Breakdown human & technology silos
- Define Open architectures. Configure technology. Avoid customisation.
- Leverage the expertise of others who have walked the path
  - Establish partnerships with industry (new & old) & other government agencies

Give your organisation a purpose

To give your data a purpose
System of Engagement
The ‘Hub’ Approach

- Informing the Public
- Communicating Policy
- Sharing Data
- Increasing Impact
- Engaging Stakeholders
- Conveying Best Practices
- Encouraging Data-Driven Policies
- Encouraging Behavioral Changes
- Measuring & Showing Progress
- Get Alignment

Initiatives

Government
- Community Leaders
- Academia
- Journalists
- NGOs

Other Government Agencies
- Local
- State
- Federal
- NGOs

Community
- Citizens
- Businesses
- External Community Engagement
- Internal Department-Wide Collaboration

Department A
Department B
Department C
Department D
Enterprise