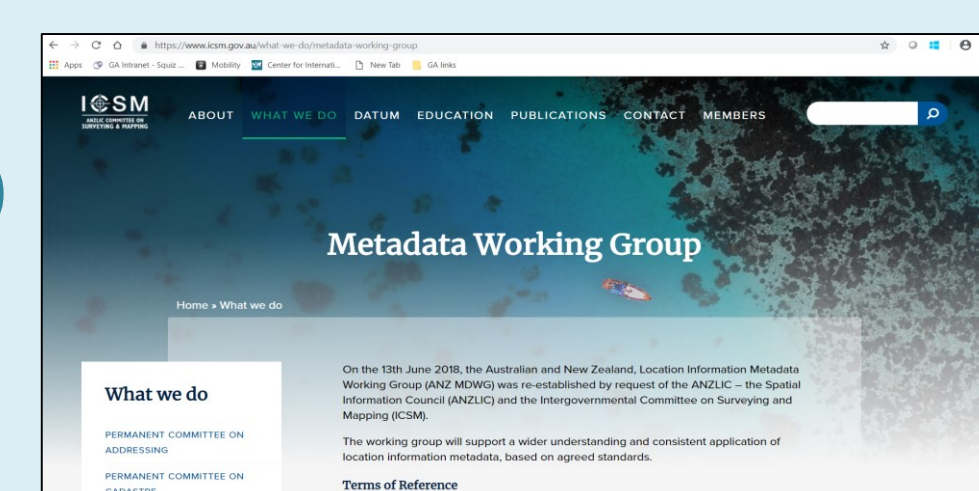


# Making metadata be FAIR, in particular enhancing the ‘R’? – The Approach of the Australian Metadata Working Group

Irina Bastrakova, Kelsey A Drunken

IN23D-0897

## ANZLIC/ICSM Metadata Working Group



### Who we are and what we do:

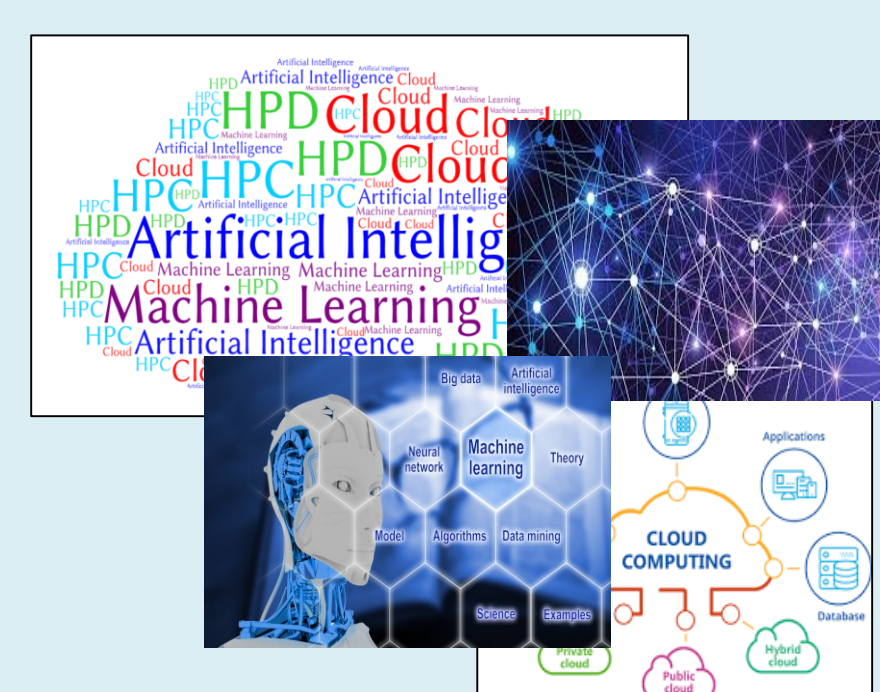
- Australia and New Zealand Federal and Jurisdictional Government Agencies, Research and Academia
  - > 35 Organisations
- Forum for communication and engagement with spatial communities and interest groups
- Supported by the Australian and New Zealand Spatial Information Council (ANZLIC) and the Intergovernmental Committee on Surveying and Mapping (ICSM)
- <https://www.icsm.gov.au/what-we-do/metadata-working-group>

### Our targets:

- Support:
  - wider understanding & consistent application of metadata
- Improve:
  - data discoverability by enabling machine-to-machine access & integration across disciplines
- Reduce
  - costs due to the ability to reuse & share developed codes, applications & services
- Reduce
  - business risk and liability through clear identification of legal & security constraints
- Improve:
  - efficiency through client self-service



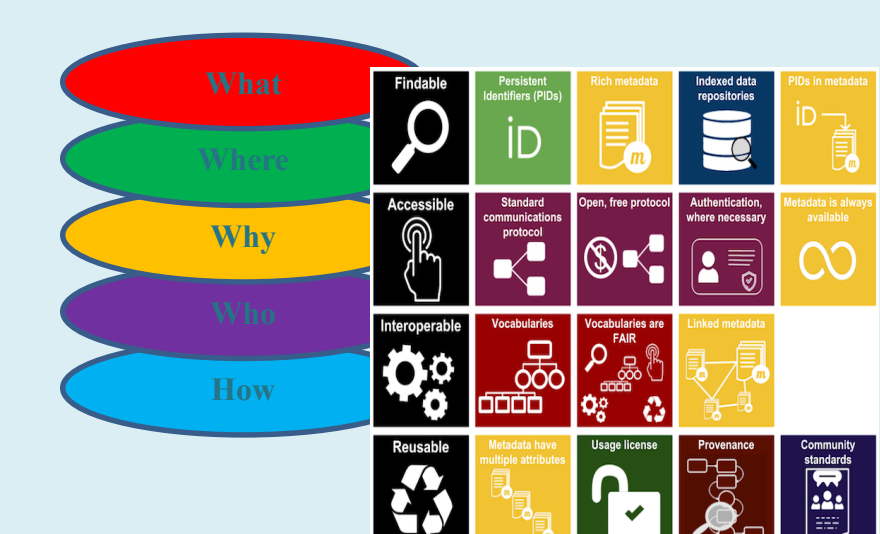
## The Challenges



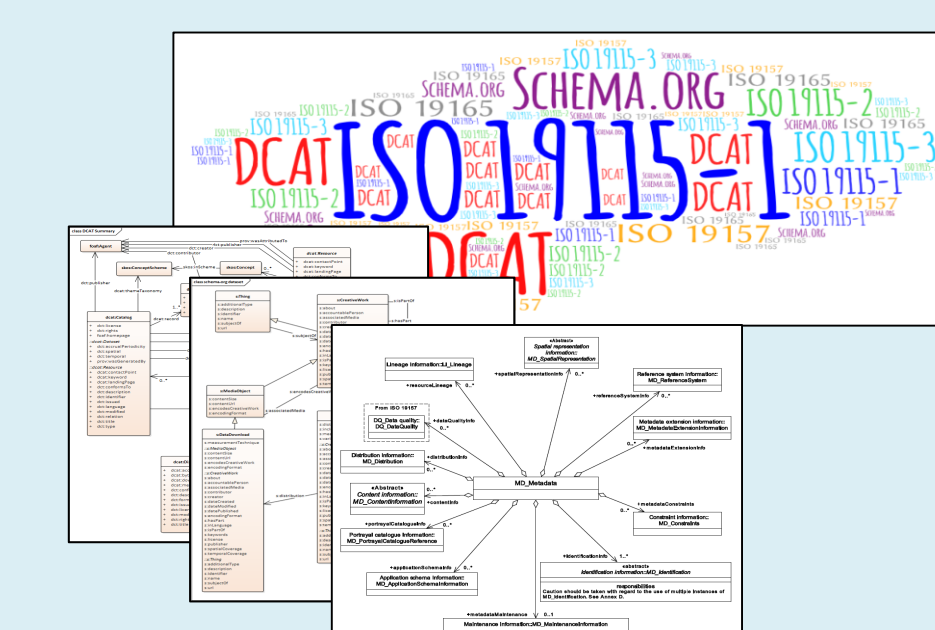
Change in Technology



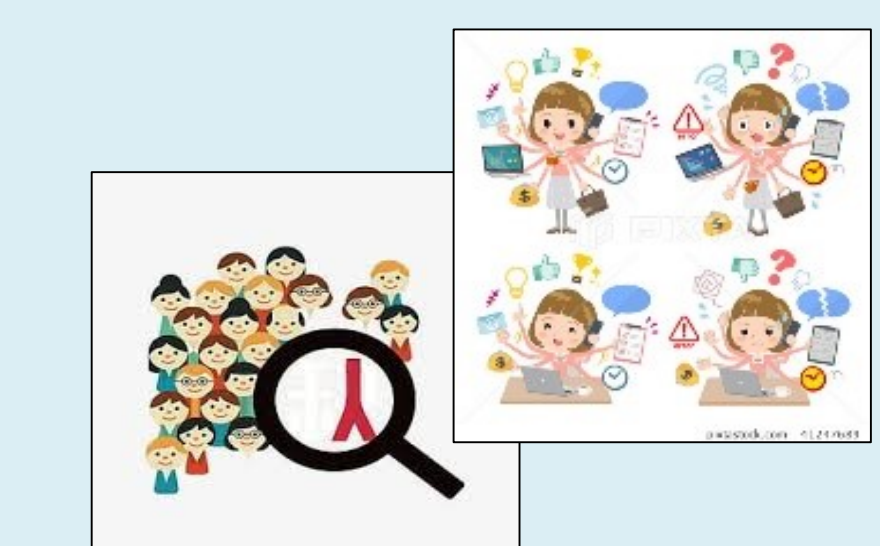
People's Expectations



Requirements for Data



Complexity in standards



Lack of Skills & Resources



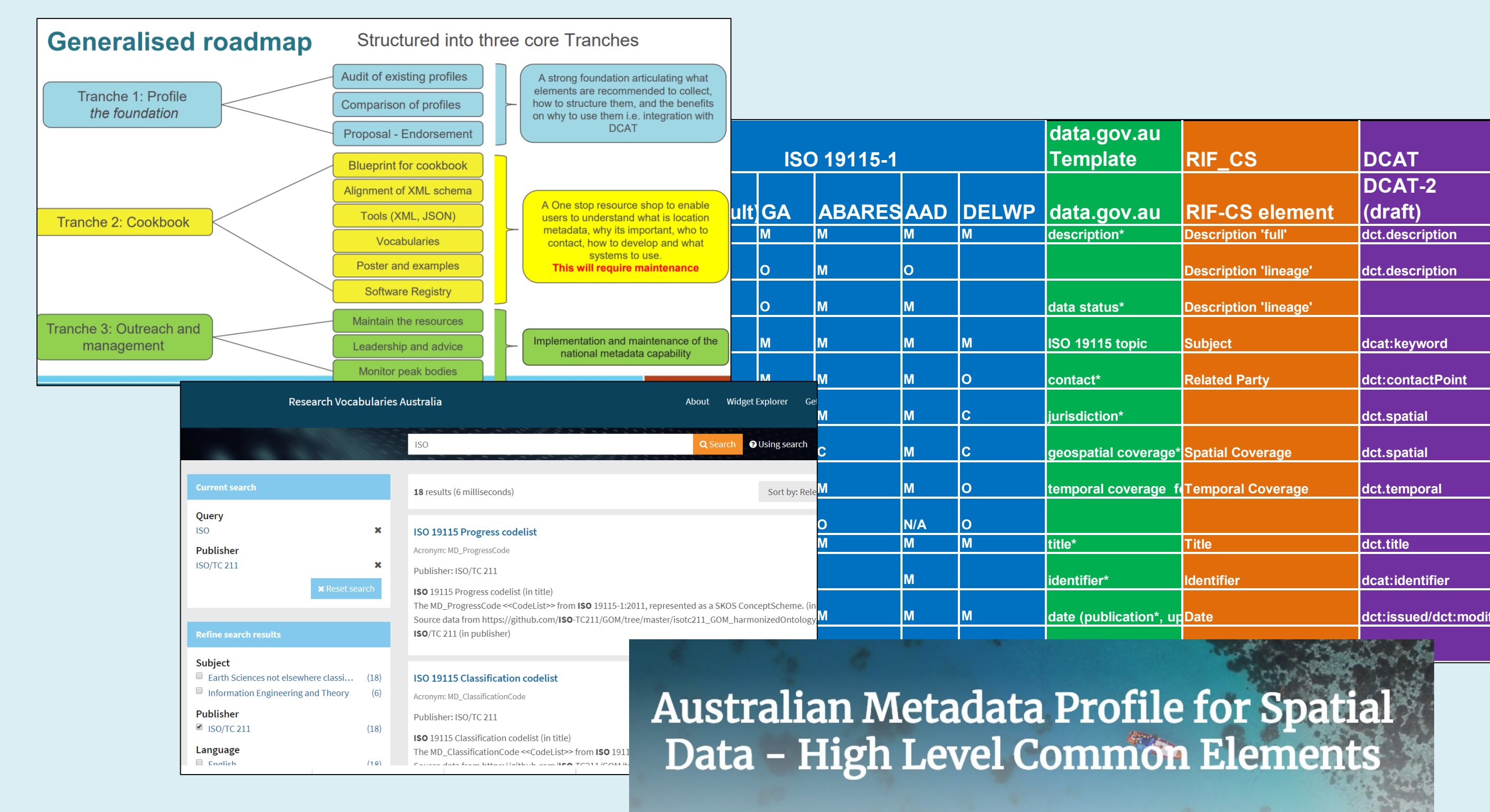
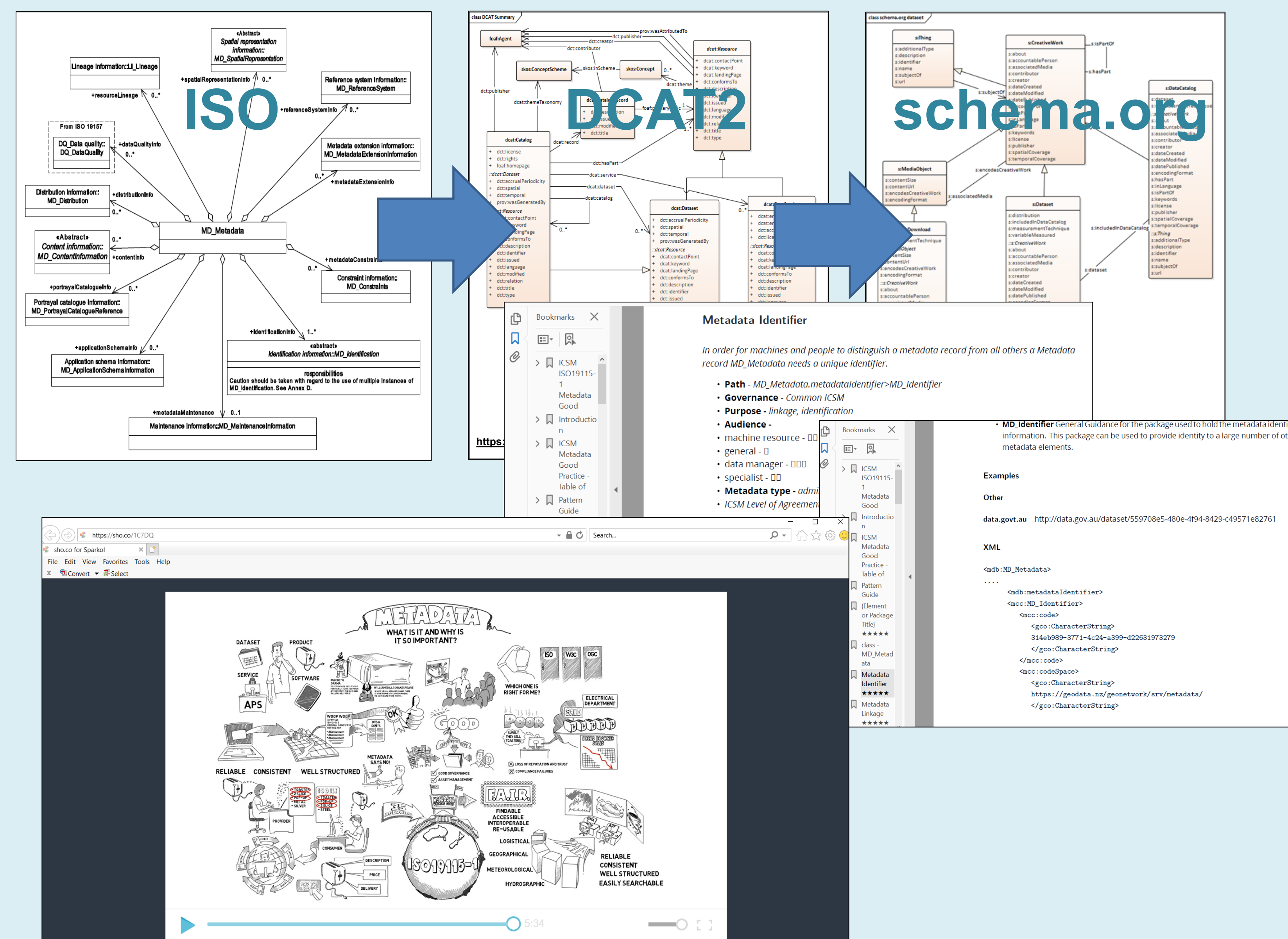
Budget, Time & Rules

## Building FAIR Metadata with an emphasis on the ‘R’

### Reusability of Content

Development of content-rich self-describing metadata to:

- Be interpreted by both humans and machines
- Capture data dictionaries - enable dataset reconstruction
- Record technical details for services - correct usage & code reuse
- Understand resource quality & provenance - ensure its correct usage
- Specify licence & security conditions - understand reuse constraints
- Reuse community vocabularies or publish new for reuse by others
- Record resource formats - support access to resources



### Reusability of Metadata Patterns

Adoption of metadata patterns by:

- Development Australian Metadata Profiles for:
  - Data
  - Services
  - Imagery
  - Digital Data Preservation
- Publishing their models and XMLs to ensure
- Developing XML examples
- Building user guides
- Developing cross-works between metadata implementations (ISO, W3C, etc.)
- Creating communication materials

### Reusability of tools

Investing into common tools by:

- Investigation and testing metadata tools for
  - Creation
  - Publishing
  - Validation
- Publishing deployment scripts
- Re-use of existing tools
- Sharing tricks and lessons learnt

