

Implementing a data maturity assessment: getting the foundations right

CDAO NZ - Auckland

22 November 2022

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An assessment built upon core foundations:

1. maturity as a measure
2. data capabilities
3. leveraging results

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Maturity as a data measure

What is maturity?

Well-equipped to respond, react to and manage life situations; adaptive; informed; considered; realised

- manifests in a way that is **cumulative**
- reflects **increasing capacity**

maturity = context



Characteristics of data mature organisation

AWARE

Possesses a comprehensive view of the relevant data landscape; tuned-in to what's going on; well-connected; networked; can readily interoperate

RESULTS ORIENTED

Can apply knowledge, perspective, experience to consistently generate outputs and outcomes that leverage and increase the value of data

COMPLIANT

Understand boundaries, parameters, rules for collecting, using, publishing data; are current on and cognizant of any changes to those boundaries

RESPONSIBLE

Operates with data in a way that inherently avoids harm, fosters appropriate protections; ethical; respectful; secure; inclusive

INNOVATIVE

Understands, is open to, has the ability to explore, implement, new ways of operating with data; manages situations requiring new approaches to data; dedicated to continuous improvement

RESILIENT

Prepared for unanticipated, disruptive events; able to learn from such experience and apply learnings to improve response and increase level of readiness, maintain business continuity

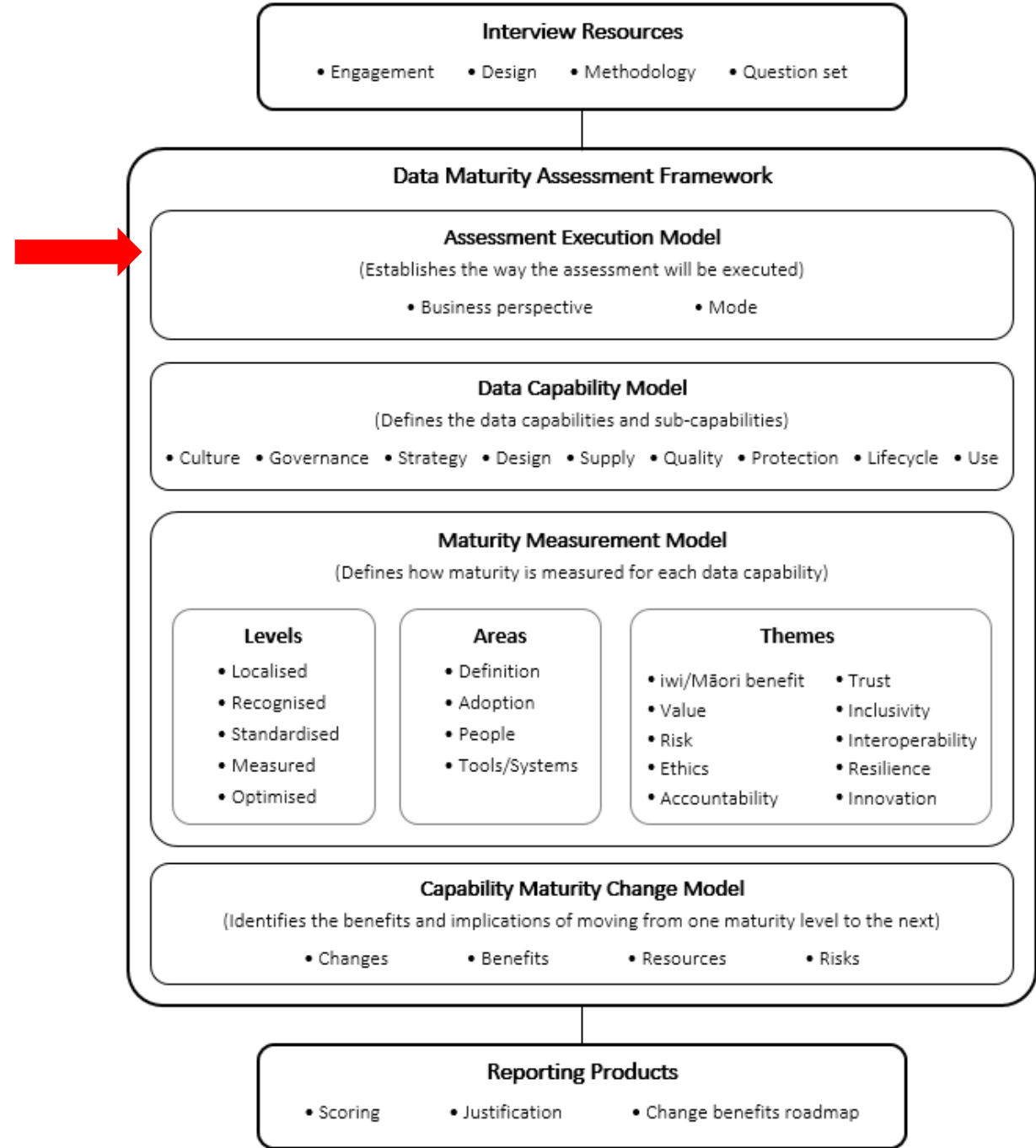
MENTORABLE

In actions and behaviours can serve as an example for others; willing to engage and work with less mature organisations to help them improve



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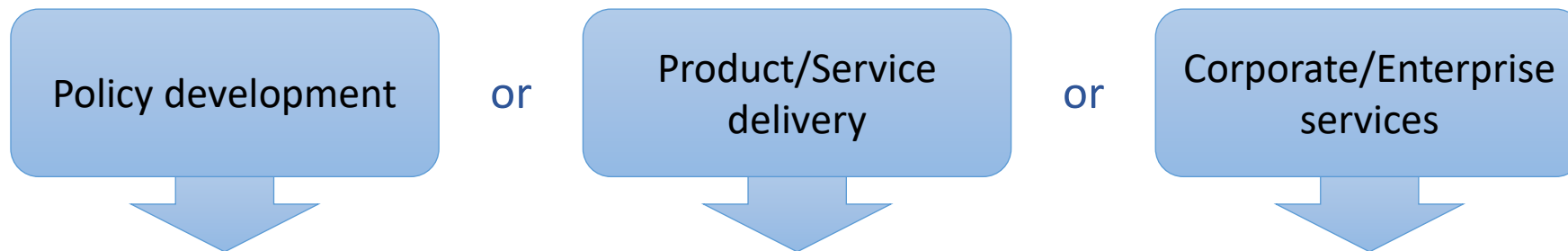


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Supporting business imperatives



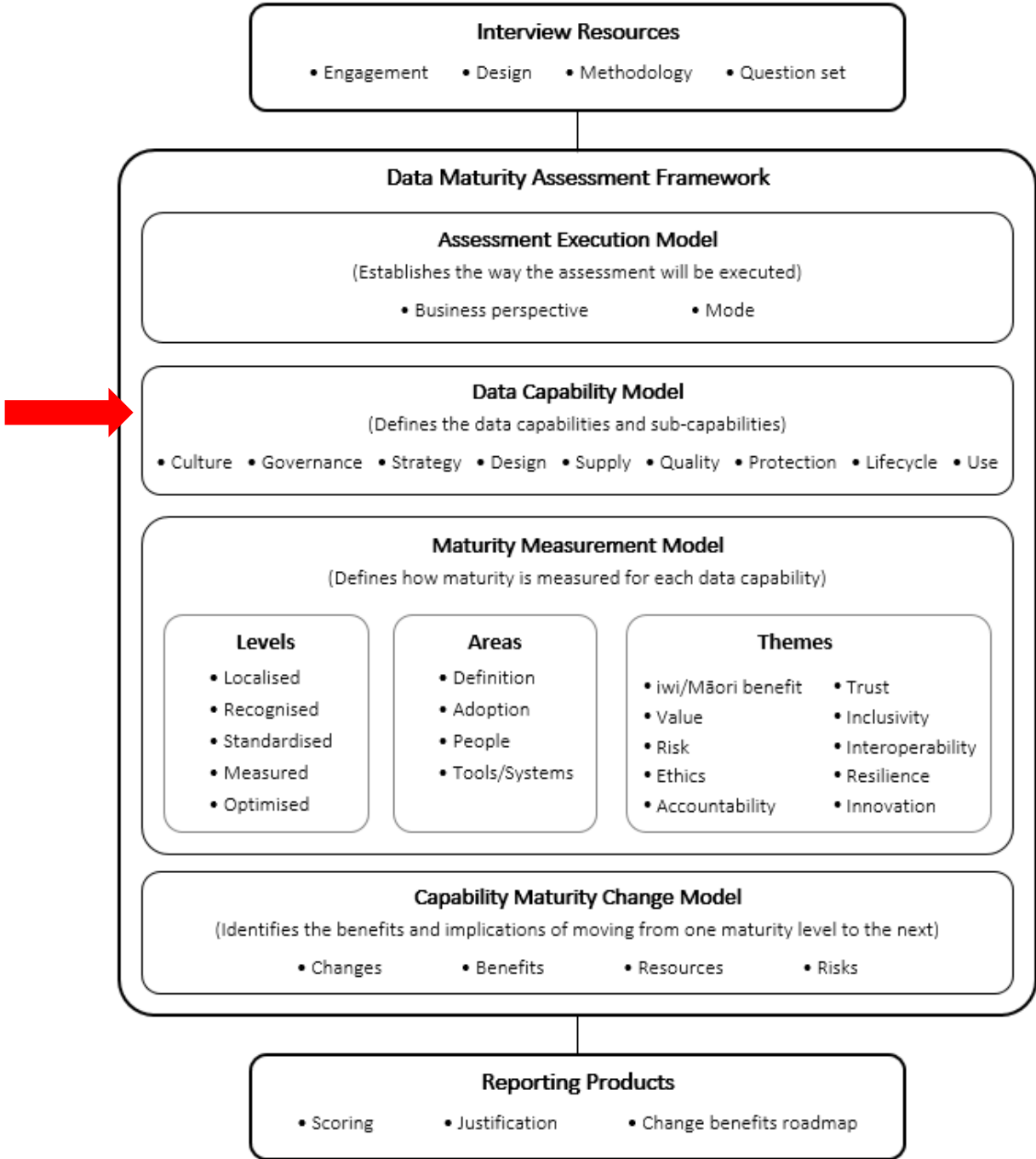
First things first: determine the preferred business function



- avoids “one score to rule them all”
- the narrative for conducting the assessment
- retains a business focus throughout
- results in terms of a critical organisational outcome
- prioritised data capabilities

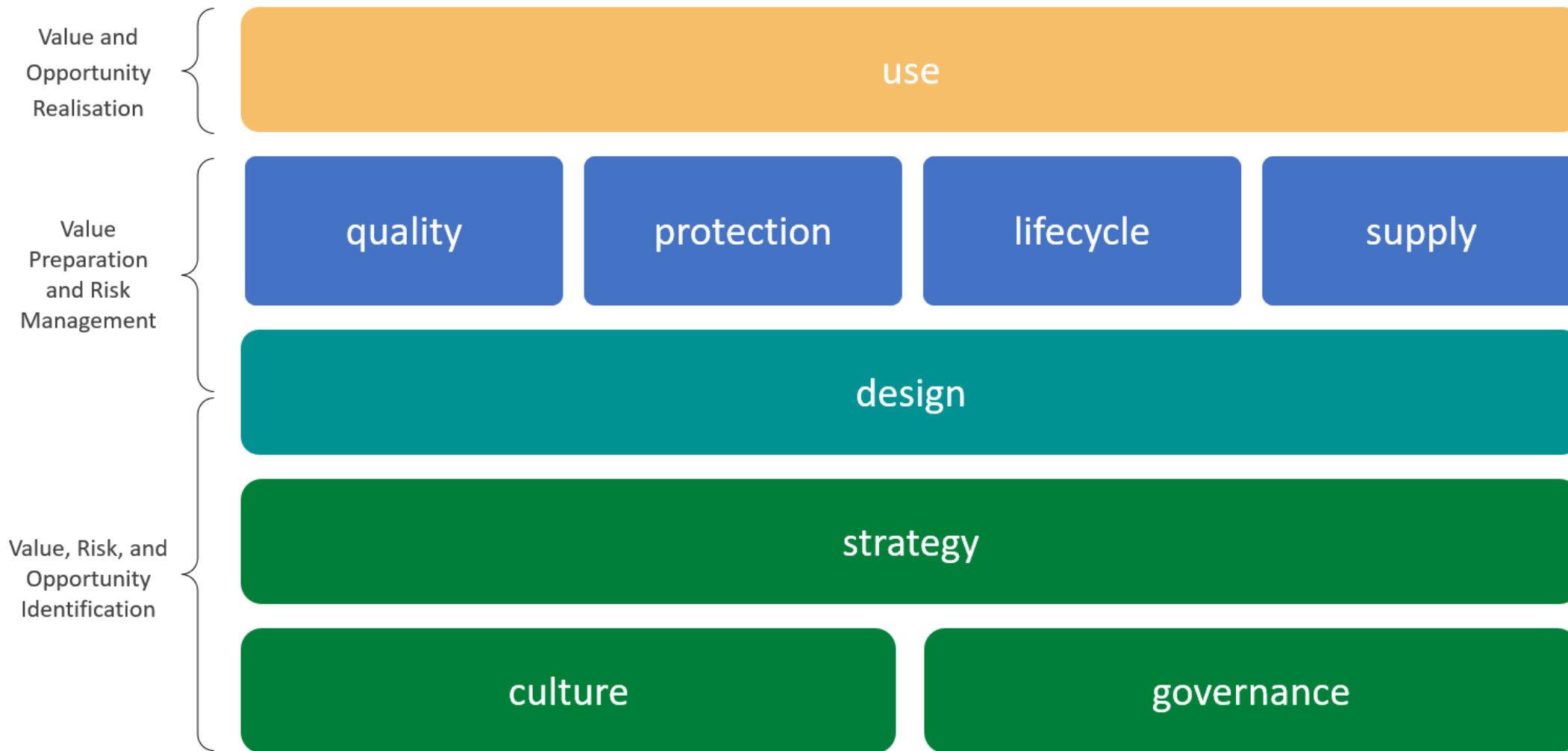
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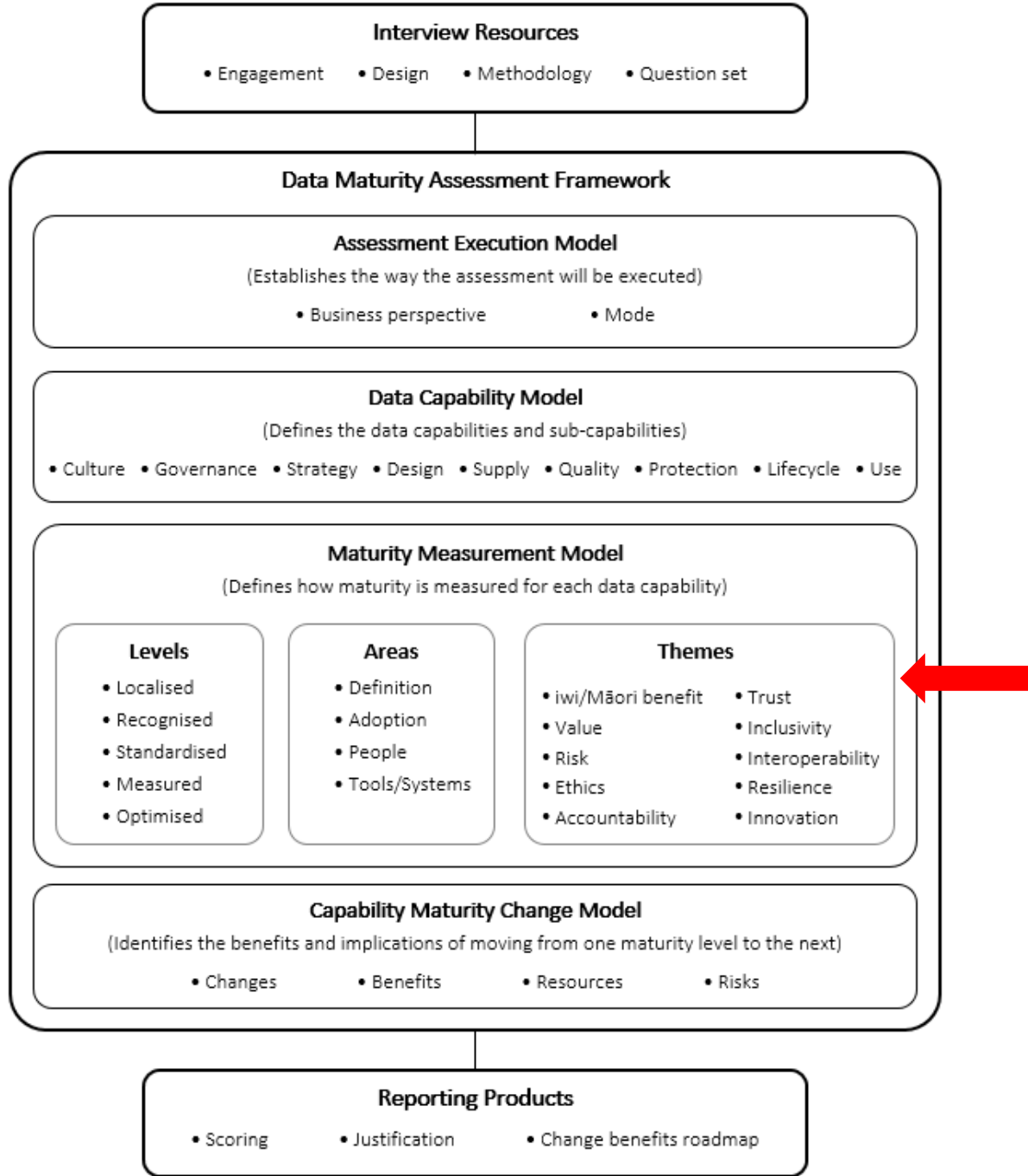
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Data capabilities that shape data maturity



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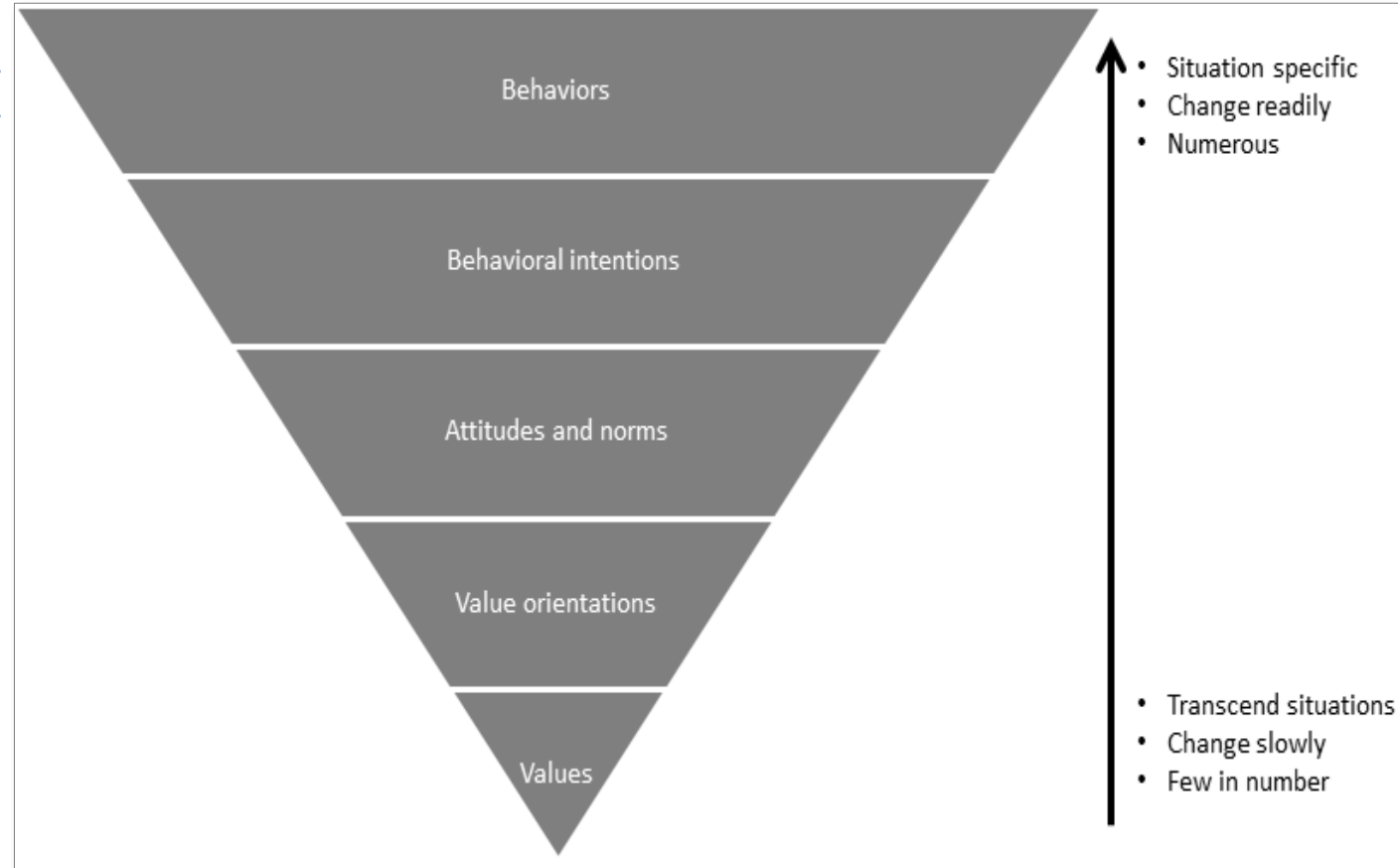
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A values basis for measurable behaviours

publish a data catalogue
hire a Chief Data Officer
establish a Data Steering Committee
develop a data quality framework



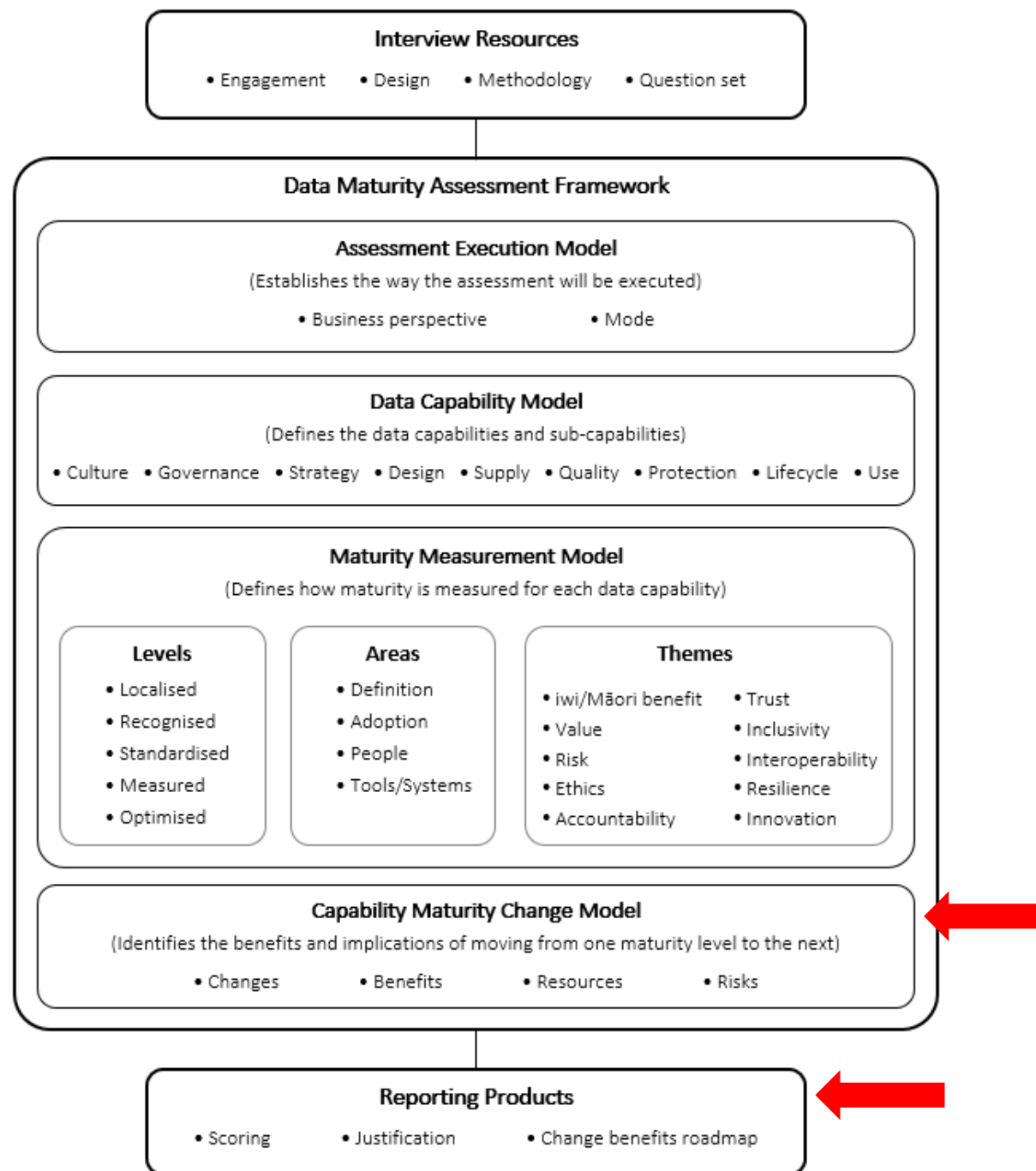
equity
iwi-Māori benefits
inclusivity
trust
resilience
innovation



From: Jones, N. A., S. Shaw, H. Ross, K. Witt, and B. Pinner. 2016. The study of human values in understanding and managing social-ecological systems. Ecology and Society 21(1):15.

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Results reporting

Actionable: characterising change

1. Description
 2. Benefit proposition
 3. Resourcing required
 4. Risks and mitigations
- } GCDS
- } agency

Targeted: value profiles

iwi/Māori Te Tiriti partners

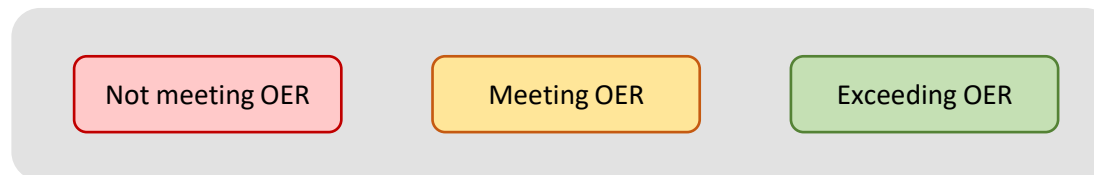
kāwanatanga:

1. Govt Chief Data Steward [Data System]
2. Chief Executive/Deputy CE [Strategic]
3. General Manager [Strategic-Tactical]
4. Data Practitioner [Operational]

Simplified: meaningful to decision-makers

Results spectrum: extent to which data capabilities are contributing to...

- **Obligations**: must be done; requirements; legal; policy; Te Tiriti
- **Expectations**: will be done; strategic commitments; Statements of Intent; planning documents
- **Responsibilities**: should be done; ethical; benefit to iwi/Māori



More information

The screenshot shows the data.govt.nz website. At the top left, the logo 'data.govt.nz' is highlighted in a red oval. The navigation menu includes 'Get datasets', 'Catalogue guide', 'Data toolkit', 'Leadership', 'Blog', and 'About', followed by a search button with a dropdown arrow. Below the navigation is a large banner with the text 'Discover and use data' and a decorative teal background with white geometric shapes. A search bar is located below the banner, with 'Search for:' followed by radio buttons for 'Website content' and 'Datasets' (selected), and a search input field containing 'E.g. environment'. Below the search bar are three featured articles:

- How the Data and Statistics Act will improve the data system**
The Data and Statistics Act 2022 is a critical enabler for moving forward; ensuring transparency and trust in the decisions we make on behalf of Aotearoa. Read more about how the new Act will deliver a robust, future-focused data and statistics system.
By Craig Jones on 27 Sep 2022
- Measuring FAIR Principles compliance**
GNS Science has quantitatively assessed the FAIR Principles compliance of 50 high-value geoscience datasets. This benchmark is the starting point of a roadmap towards further improvements in FAIR compliance.
By Maria Mavroeydi, Mark Rattenbury on 12 Sep 2022
- The Government Data Strategy and Roadmap**
The refreshed Government Data Strategy and Roadmap was published by the Government Chief Data Steward in September 2021. It provides a shared direction and plan for the government data system of Aotearoa NZ.

At the bottom left of the article grid, there is a link for 'Recent posts'.

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