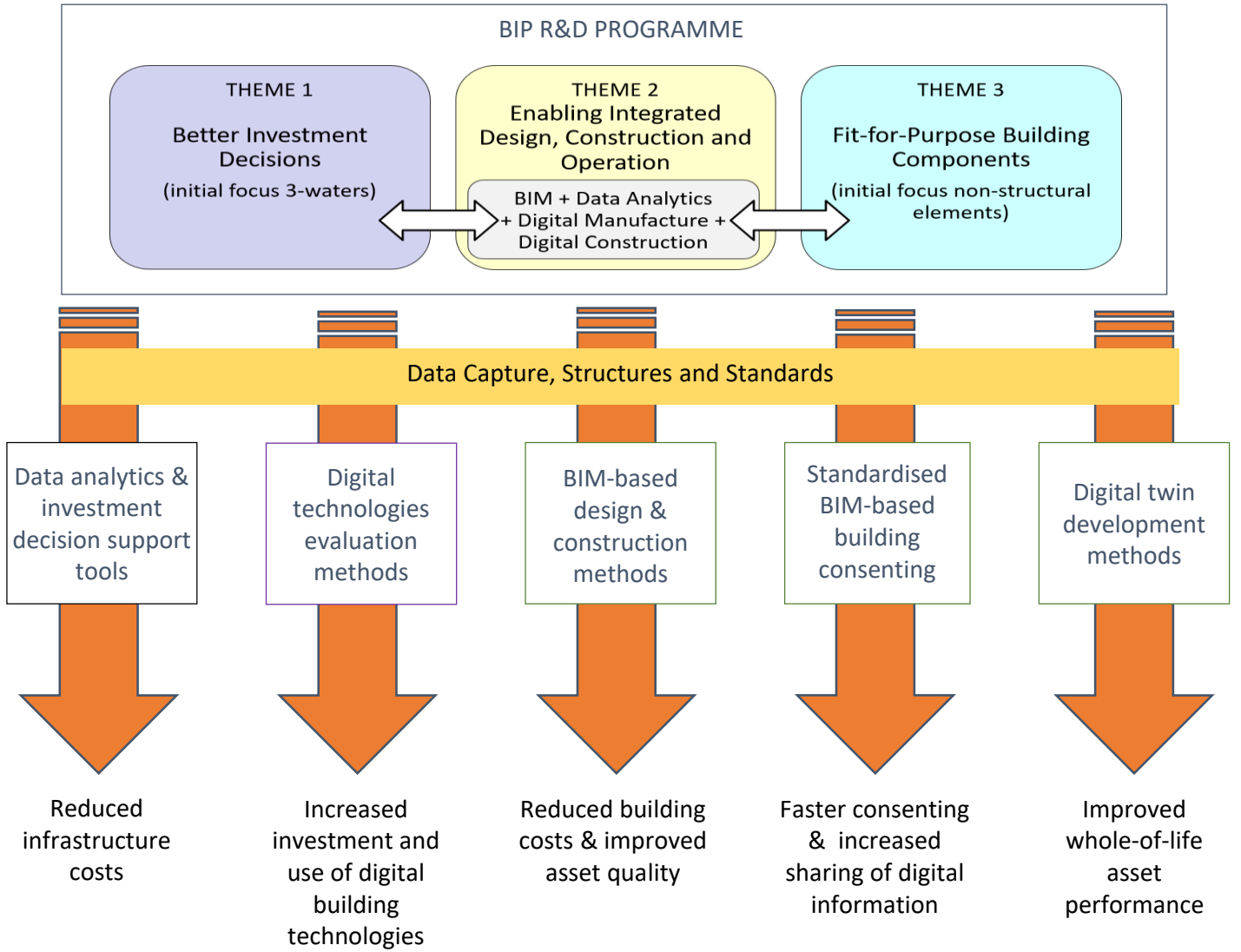
Building Innovation Partnership (BIP) Overview

Greg Preston

Building Innovation Partnership (BIP)

Digital and material innovations that improve the value, performance and resilience of NZ's buildings and infrastructure



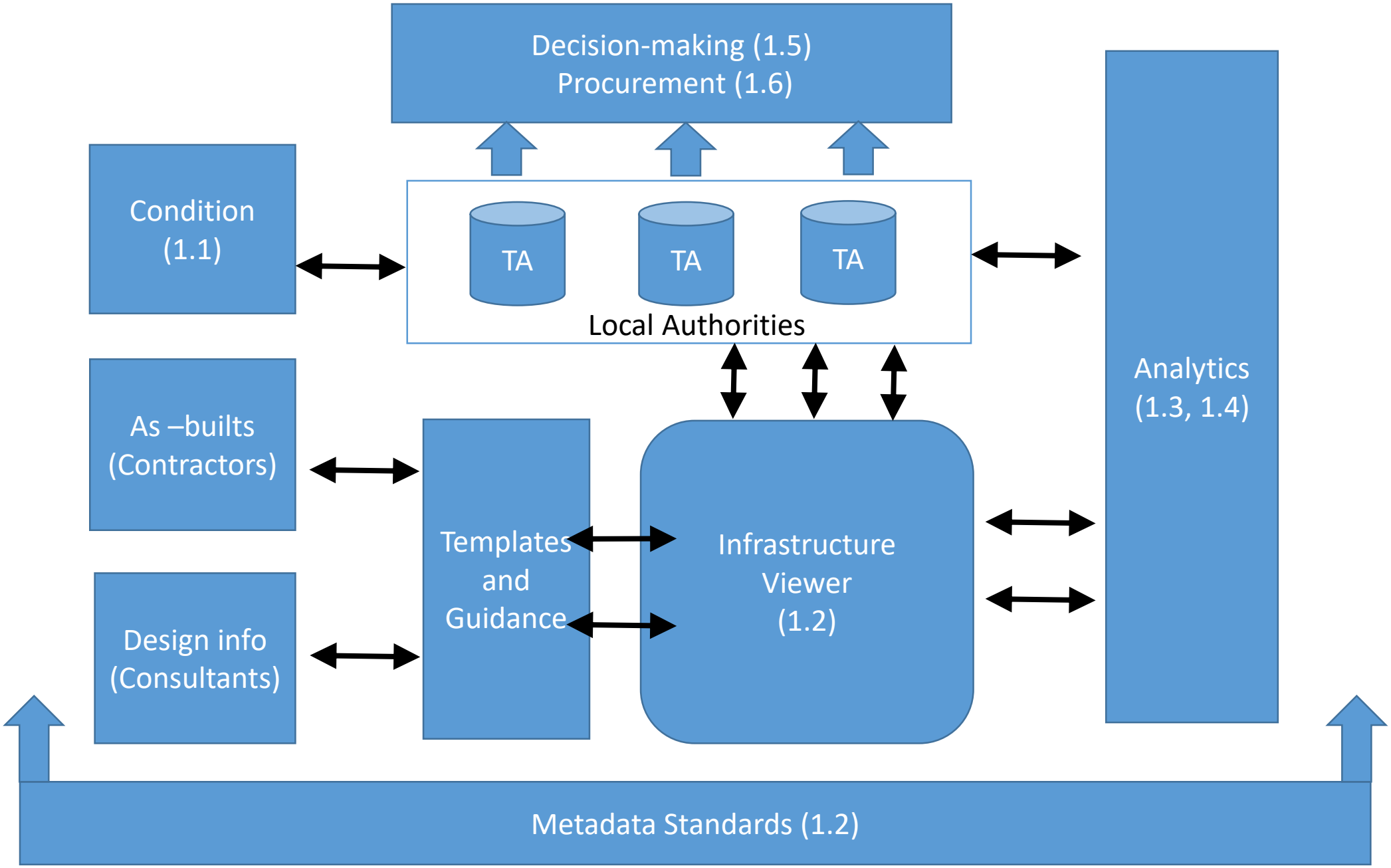
Theme 1: Better Investment Decision-making

Initial focus on 3 Waters and in particular pipe networks

Support and implementation for Metadata Standards

Projects across:

- Data collection
- Data management
- Data analysis
- Decision Support
- Procurement


Decision-making (1.5)
Procurement (1.6)
Condition
(1.1)
TA
TA
TA
Local Authorities
Analytics
(1.3, 1.4)
As –builts
(Contractors)
Templates
and
Guidance
Infrastructure
Viewer
(1.2)
Design info
(Consultants)
Metadata Standards (1.2)

Theme 2: Enabling integrated design construction and operation

Focus on BIM/Digital Engineering

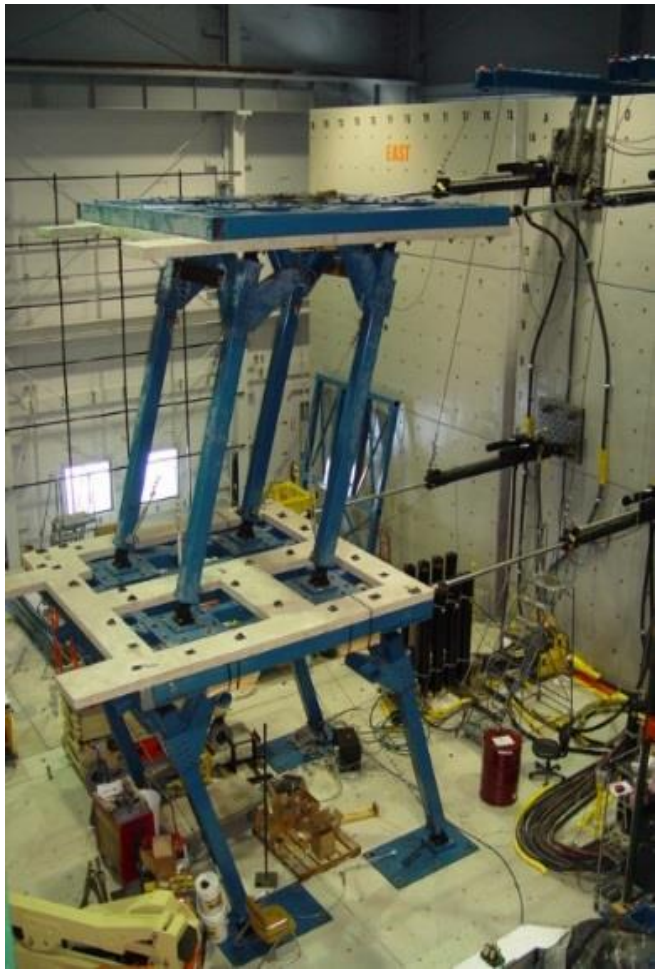
Projects to include:

- Creation of digital infrastructure to support digital consenting
- Metrics for assessing perfomance
- Applications of AI
- Co-creation of BIM to BAM case studies
- Procurement

Source: Realising the Benefits of BIM - BIMIreland

Theme 3: Fit for purpose building components

Focus on nonstructural elements

Projects to include:

- Seismic testing of components and sytems
- Developmnt of a National Testing Facility
- Development of National Testing Standards
- Digital design processes
- Procurement