

Digital Auckland



Presentation to Infrastructure Providers Forum

21st July 2015



Problems Managing Auckland's Growth

- Siloed approach to physical and social infrastructure planning is driving **inefficient delivery and management decisions**
- Missing, inadequate or poorly shared data is leading to significant **under and over investment in infrastructure**
- Poor collective utilisation of spatial, temporal and mobility data is resulting in **missed opportunities for users**



Why

“We need an open access protocol to capture as-built & BIM data”

“Sharing the trenches”

“If you build it, some people will come, and they'll surprise you”

“Once you have the system, you'll invent new uses for it!”

“We (Chorus) are pretty much digging up every street in Auckland”

“We waste a lot in getting as-built drawings & data that are stored in flat files”

“We're not meeting the vision of cross-functional situational awareness for the whole city”

“There's so much data around, it's almost impossible to keep track of it”

“Digital Auckland can be a platform for innovation to thrive and be demonstrated locally”



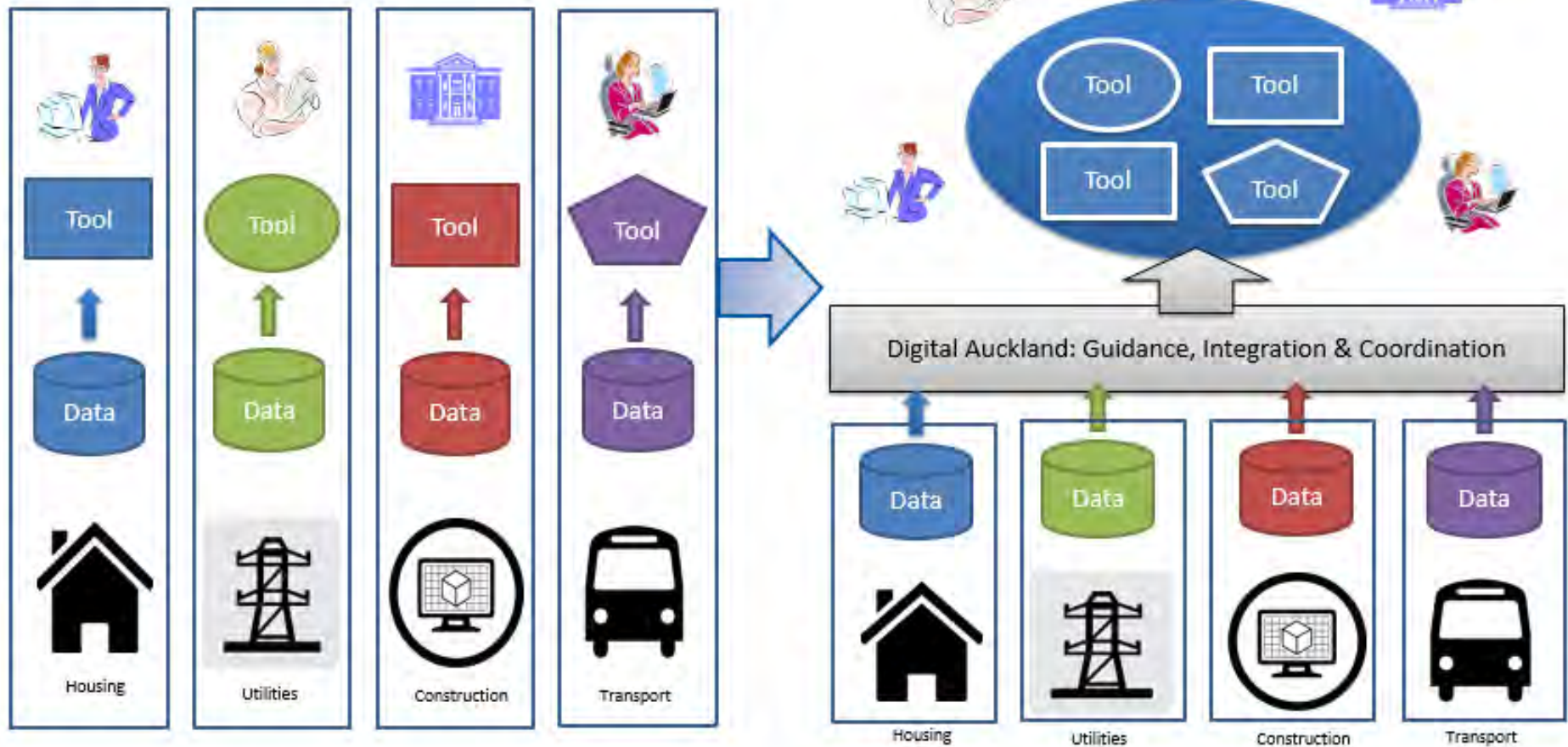
Vision

Digital Auckland will enable connected and integrated digital information to support Auckland's organisations and citizens to make informed decisions, contributing to Auckland being the World's most Liveable City.



From: Siloed Systems

To: Integrated Information Sharing



Current Situation

Multiple low level systems and Information Stores

NZTA

AC

AT

Watercare

JMAC

Waterfront

3D Modelling, construction and presentation systems –
SEVERAL & GROWING

GIS Systems (ARC GIS) Common system with shared layers

Asset Management Systems, MULTIPLE i.e. SAP, RAMM, 3rd parties

Content Management Systems - MULTIPLE

Suppliers, Design,
construction, maintainance

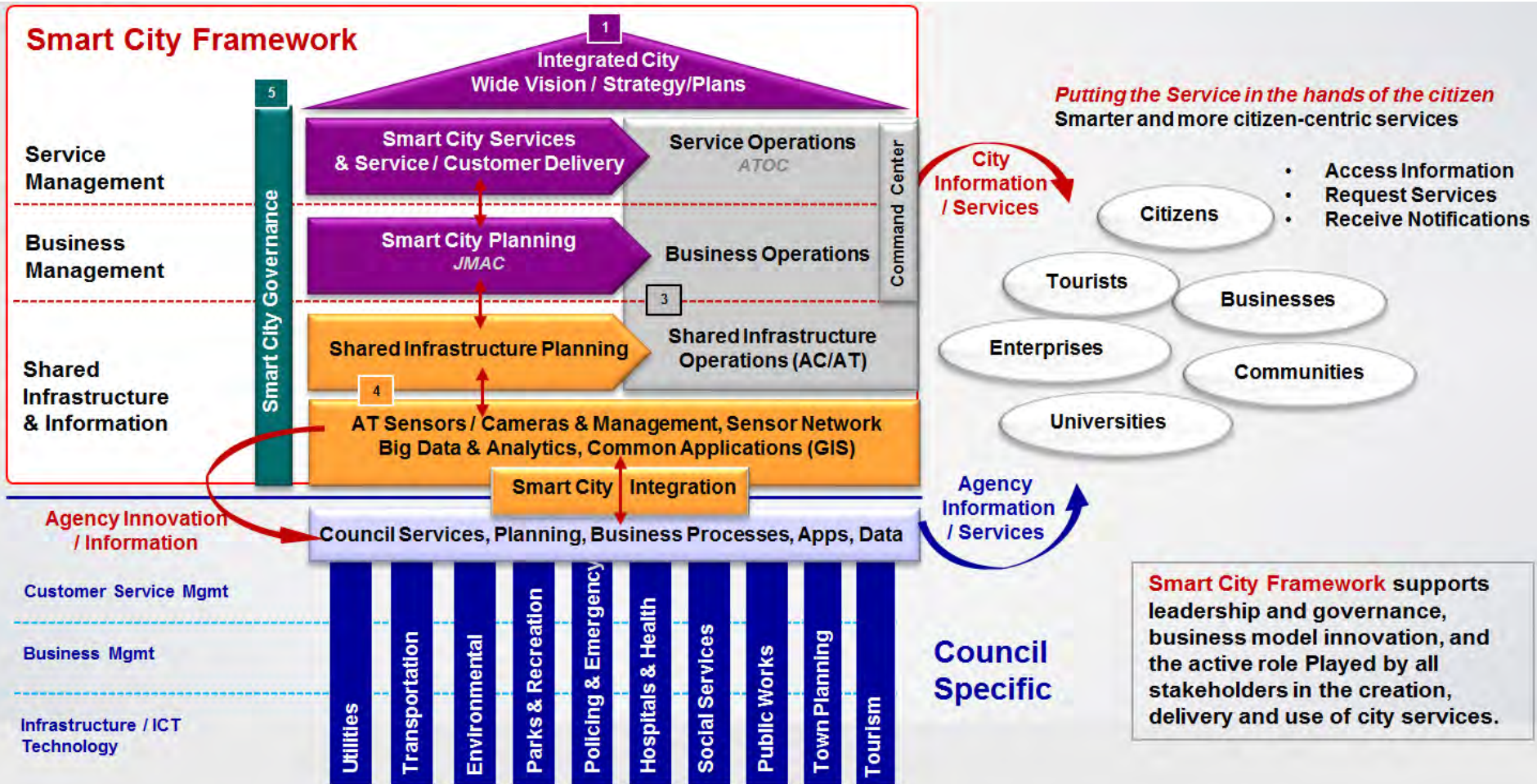


Leverage Existing Systems

In 2015 Uber, the world's largest taxi company owns no vehicles, Facebook the world's most popular media owner creates no content, Alibaba, the most valuable retailer has no inventory and Airbnb the world's largest accommodation provider owns no real estate.



An Integrated Digital Smart City Framework



Staged Approach



Tranche 1: Establishment

- Programme Office
- Quick Wins
- Project Business Cases
- Standards, Protocols
- Planning (works/land-use) Apps
- 3D Auckland
- BIM
- Data Services

Tranche 2: Consolidation

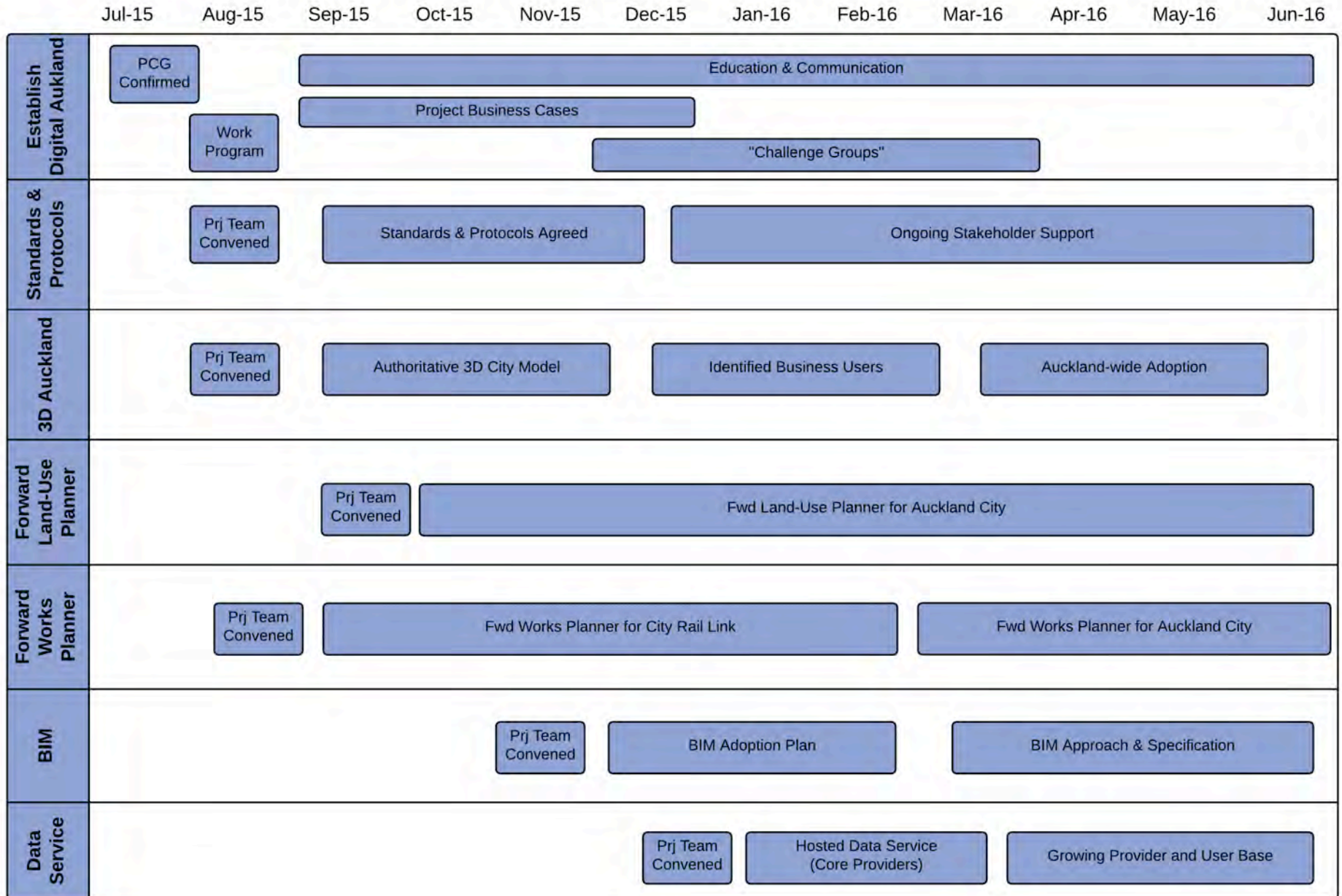
- Further develop 3D Auckland, Planning Apps
- Enhance Data Services
- Education, Awareness and Take-up

Tranche 3: Expansion

- Extend Digital Auckland Capability
- Smart City Enablement
- Sensor Networks
- Real-time Transport Info



Agile, Quick Wins





\$6.2-\$10.4M

Benefits

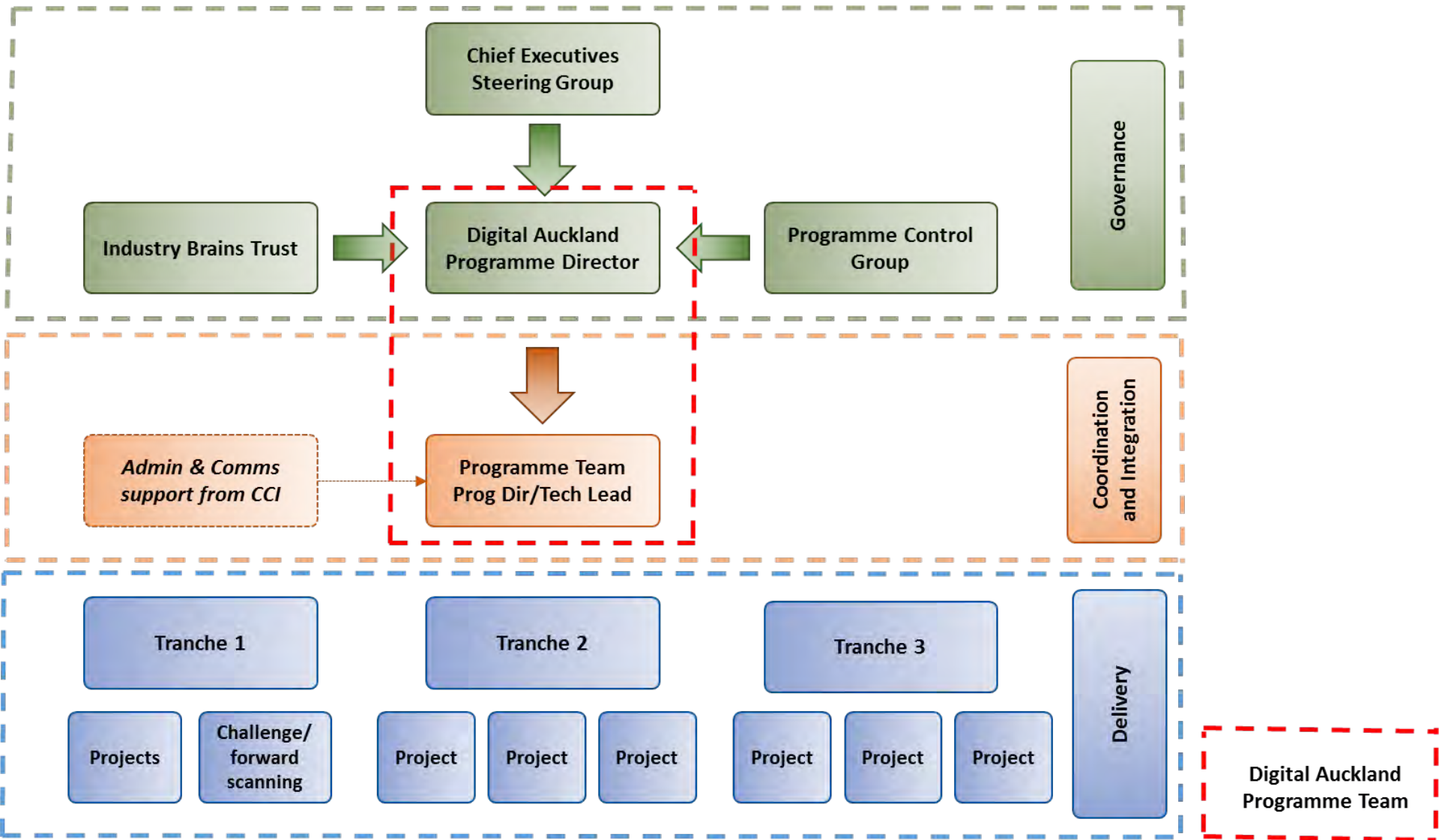
- Reduced duplication of data capture and procurement
- Reduced reinstatement and rework
- Less congestion and improved travel times
- Less over- and under-investment infrastructure;
- Contributing to improving the City's reputation
- **\$10m annually (conservative)**

Costs

- Lean Approach
- Club Funded



Governance Model



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