



# Keynote: Sydney Water Partnering for Success (P4S): A New Era in Program Delivery



MARK SIMISTER
Head of Program Delivery
Sydney Water

Sydney
MATER

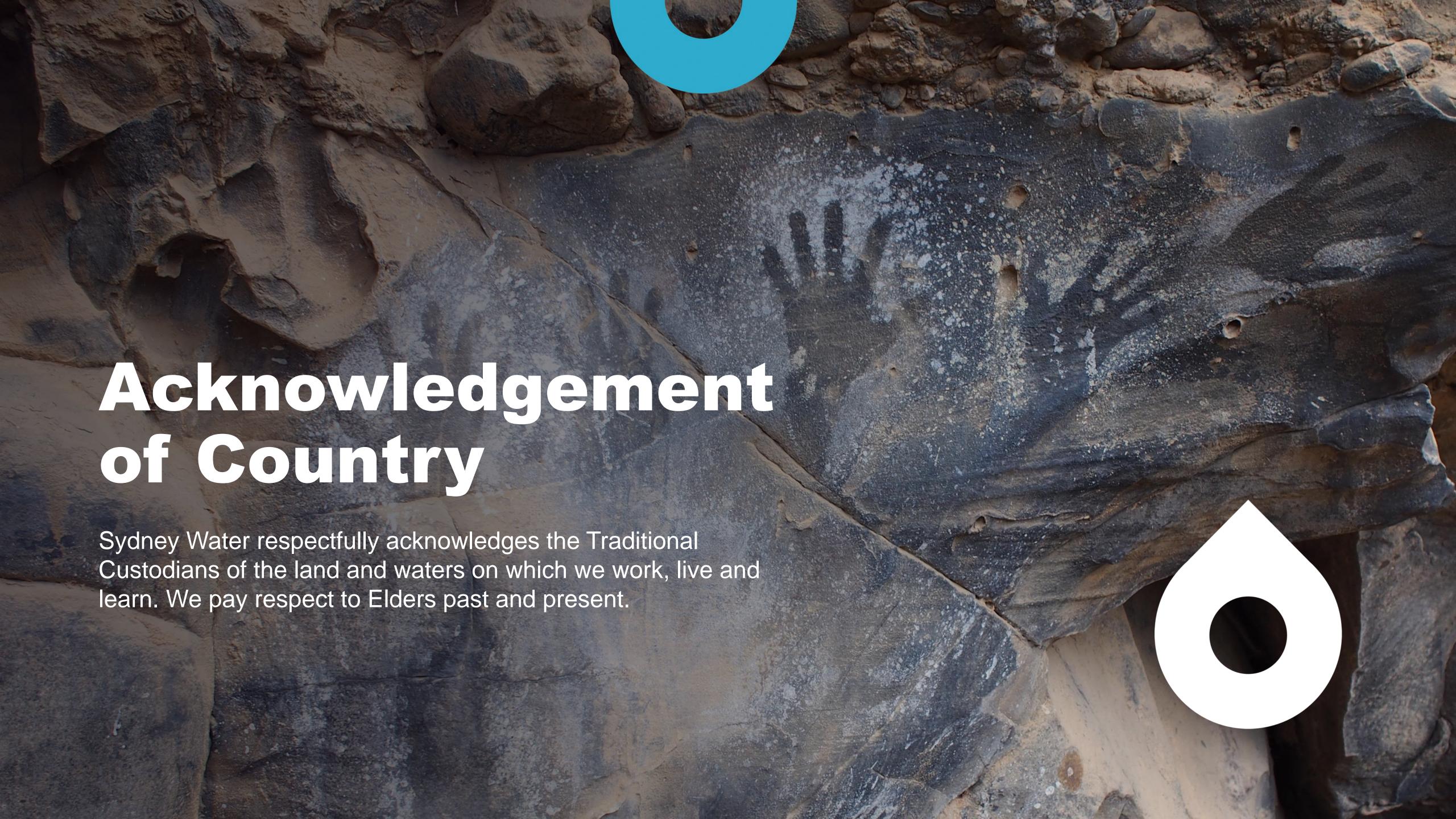
Partnering for Success (P4S): A new era in program delivery

Mark Simister, Head of Program Delivery, Sydney Water

Project Controls Expo Australia 2022

Melbourne Cricket Ground, Melbourne | 30 November 2022

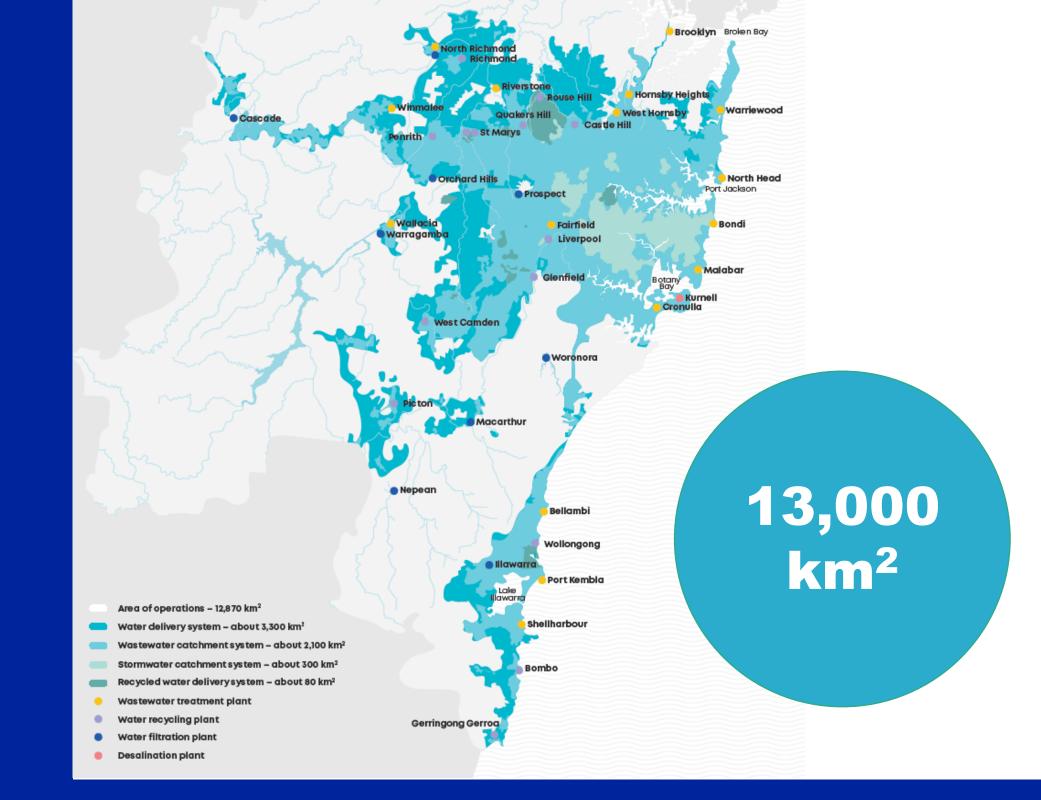




#### About Sydney Water

We are Australia's largest water utility

- We have over 5 million customers, that's 20% of Australia's population
- Our network covers an area 41 times larger than the size of Munich (around 13,000 km2)
- Our water and wastewater pipelines stretch around the globe 1.3 times (50,000 km)
- We recycle 117 megalitres of water a day, enough to fill 47 Olympic swimming pools!







#### Program Delivery

- Design and deliver capital infrastructure
- Maintenance of existing assets
- \$900m+ annually
- 1,500 projects
- Projects typically between \$1m and \$50m





## The challenge

Traditional delivery will no longer be valid

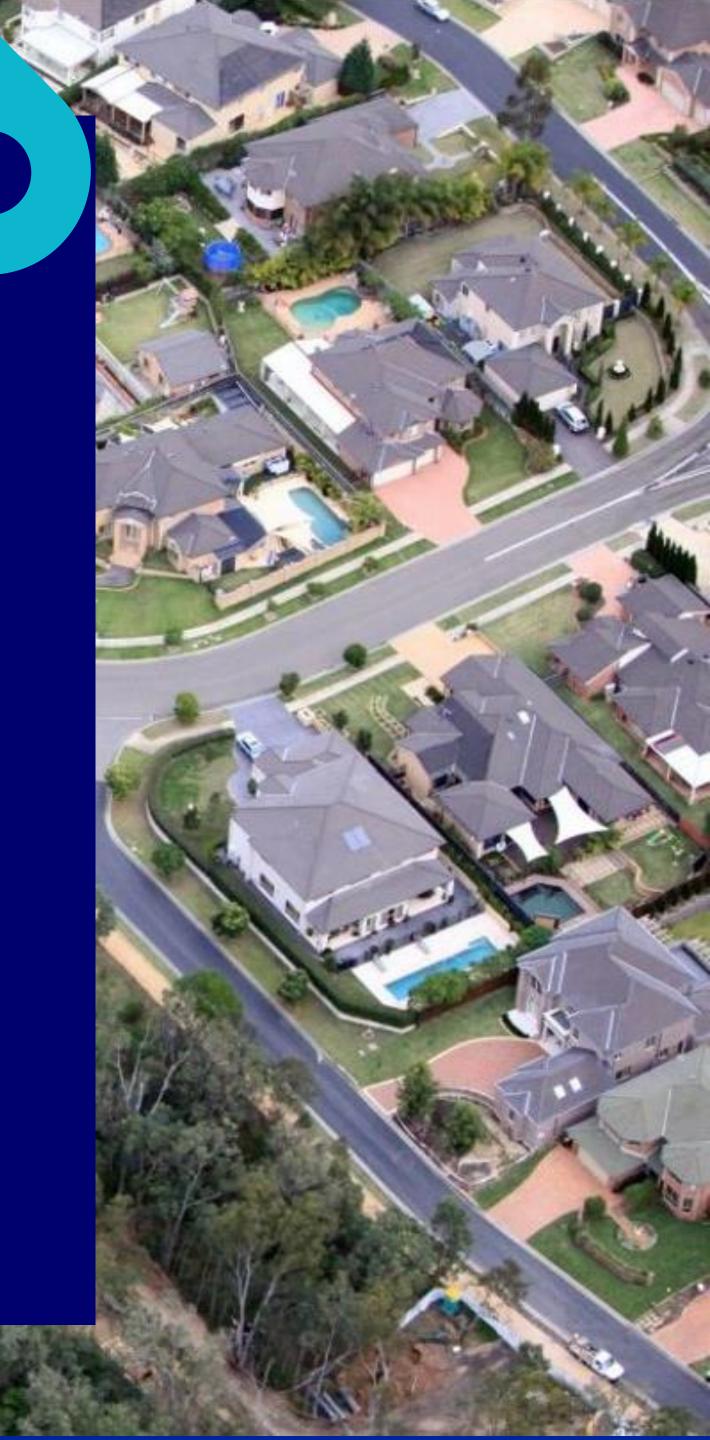
#### Our response

Sydney Water is transforming its capital delivery model

- 10 year multi-billion \$mega program of works employing 000's of workers
- Integrated design, build and maintain capital Infrastructure

By 2041, across Greater Sydney, we can expect:

- 6.1 million people
- over 570,000 new homes
- 600,000 new jobs





## P4S addresses common challenges and promotes opportunities for integration, consistency and value

Many mega projects are late and over budget....with disputes and blowouts increasing!

We need the A-Team on the project, it's losing millions!...???

Contractors are losing millions... \$\$\$\$\$ restructures, sales, new CEO's, old CEO's...

"...we need to be more 'commercial...'", "...we need people to make commercially based decisions...", "...we need accurate commercial data...", "...we need our projects to be more commercially astute...", "we need to improve our commercial processes and procedures"...

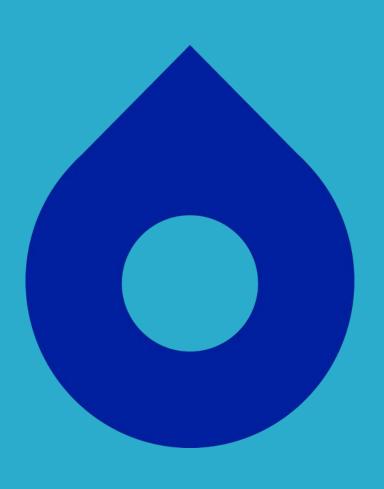
Investment in tools and systems are lagging behind the demands of owners and stakeholders





## P4S: Sydney Water's Enterprise Program Framework

A directive delivery PMO



### Sydney Water Infrastructure Delivery took a structured and strategic approach towards organisational excellence

#### Stabilise

Stabilise the organisation.

Restructure to facilitate partnering with customers.

Project management process.

Prepare for change.

- Regionalisation
- Role Classification (PD's)
- Competency Frameworks & assessment
- Helix: Project Delivery Process Mapping

#### Align

Align individual and team goals with Sydney Water Strategic Objectives.

Clear Expectations.

Functional team process.

- Rollout & embed new Org structure
- Balanced Scorecards
- SIPOC & SLA
- Development Planning;
- Helix: Internal Function Process Mapping
- Leadership training in:
- People Management;
- Goal setting;
- SIPPOC & SLA

#### Enable

Enable standardised delivery methodology.

"The Way we Work"

Enable project management and leadership.

- · Implement SLA's
- Operating Model
- Operating Manual
- Management Operating System (MOS)
- Resource Planning.
- Project Management Skills
   Development

#### **Optimise**

Optimise process, deliverables, management systems and governance.

Optimise Helix ACP & enhance complexity tool

"The Way we Deliver"

Embed continuous improvement cycle.

- Embed MOS
- Productivity Metrics
- Action Planning
- Capability Planning
- Project Management Skills Development
- Helix ACP & Complexity V2
- Leadership Training in:
  - MOS;
  - Productivity;
  - Effective Meeting: &
  - Capability Planning

#### Extend

Extend methodologies and success across DM interfaces

- including Delivery Contractors.
- "Working Together"

- Delivery Contractor Manual
- Partnering for Success

Results

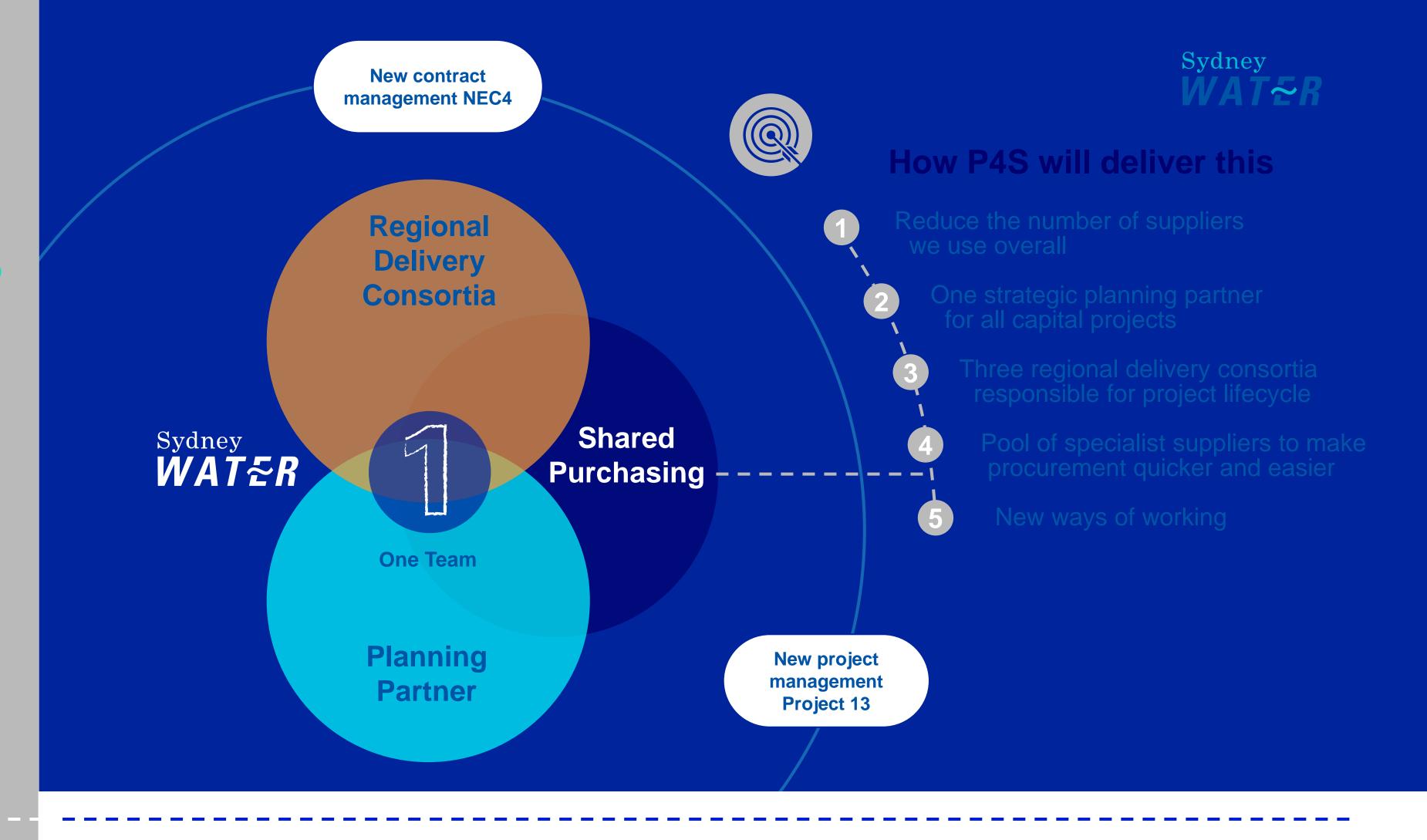


## P4S Partnering for Success

Integration, consistency and value

#### Why we need P4S

- 1 Reduce costs with opportunities to further enhance value for money
- We want to consistently deliver high-quality work to customers every time
- Provides opportunities to further improve our safety record



#### What are the benefits?

- 1 High quality customer outcomes every time
- 2 Integration and long-term partnerships with suppliers
- 3 Resource security for the long term
- 4 Save money and drive efficiencies

- **5** Competitive & incentivised contracts
- 6 Staff upskilled in contract and project management



## RIEC4 Contracting Philosophy

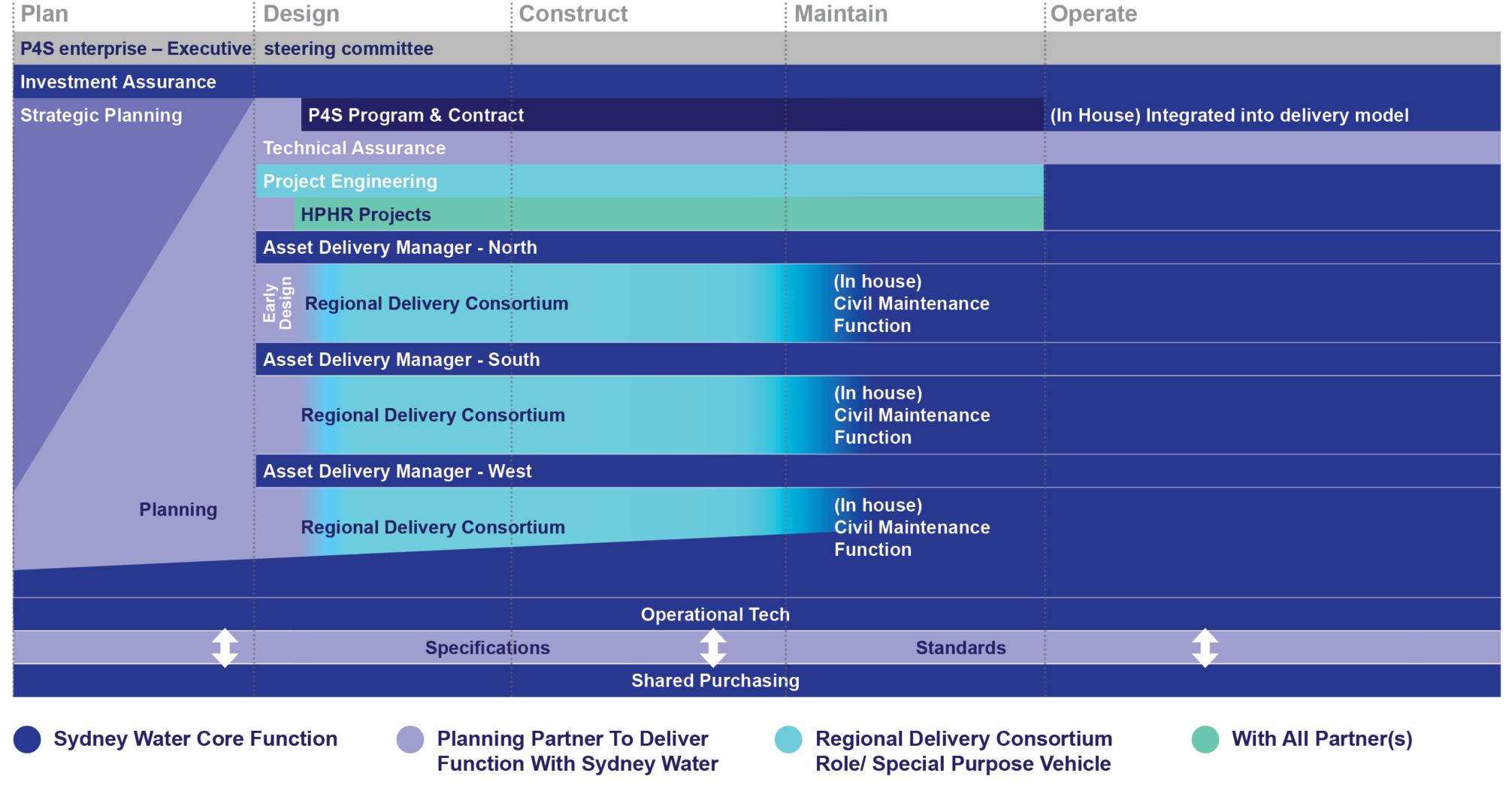
#### Contract model development

Why standardise using NEC4 forms of contract?

- Collaborative Framework Agreement and Work Order forms based on **NEC4 suite of contracts**;
- NEC philosophy promotes / requires **proactive project management** distinct from "set and forget" contract terms common in traditional government contracts;
- Parties agree to act in a "spirit of mutual trust and cooperation";
- Core clauses incentivise early identification and resolution of issues which may affect time and cost outcomes of project;
- Drafted in the present tense.



### P4S Model: An enterprise-wide directive Delivery PMO

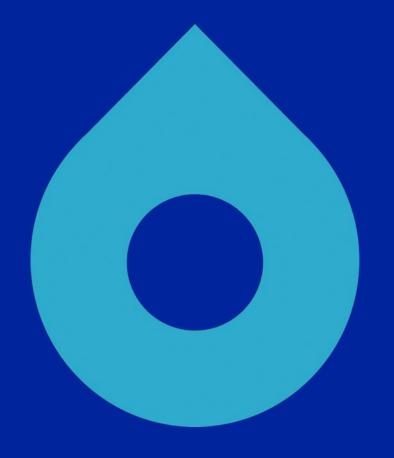






## P4S: Project Controls

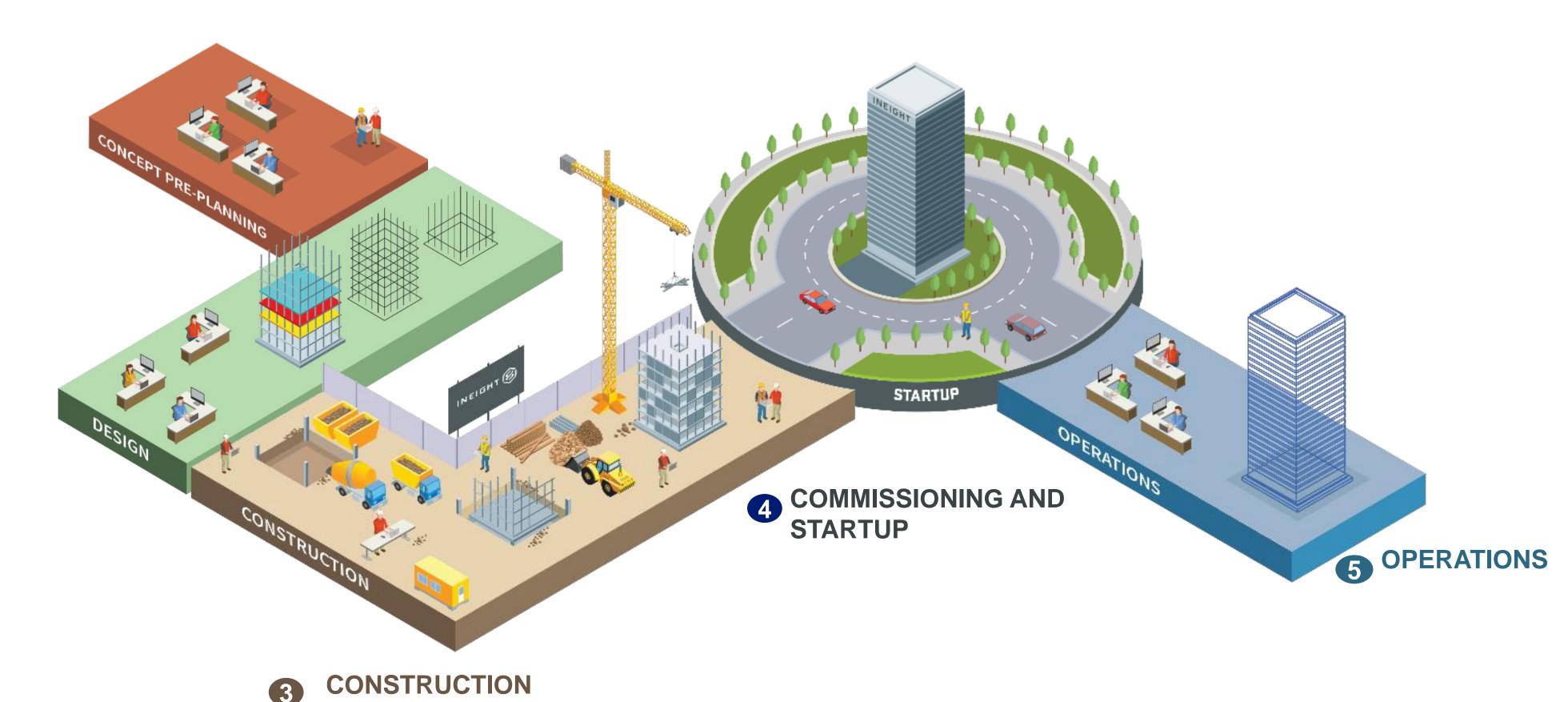
Eyes and Ears of the P4S PMO



### Controls for the end-to-end project lifecycle









## InEight: Providing a shared system for Sydney Water and the RDCs

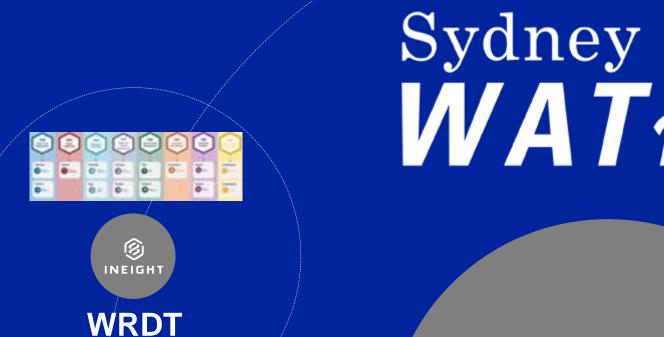
#### **Shared SW Configured environment for:**

- Consistent data collection
- Controlled data formats
- Consolidated reporting
- Digital asset material

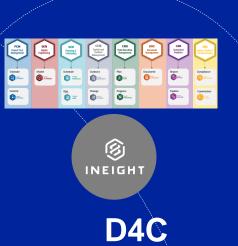
#### RDC configured environments for:

- Provide contained working environment
- Facilitates ease of sharing data with Sydney Water and other collaborating RDC's
- Provide a record of all project data created by the RDC









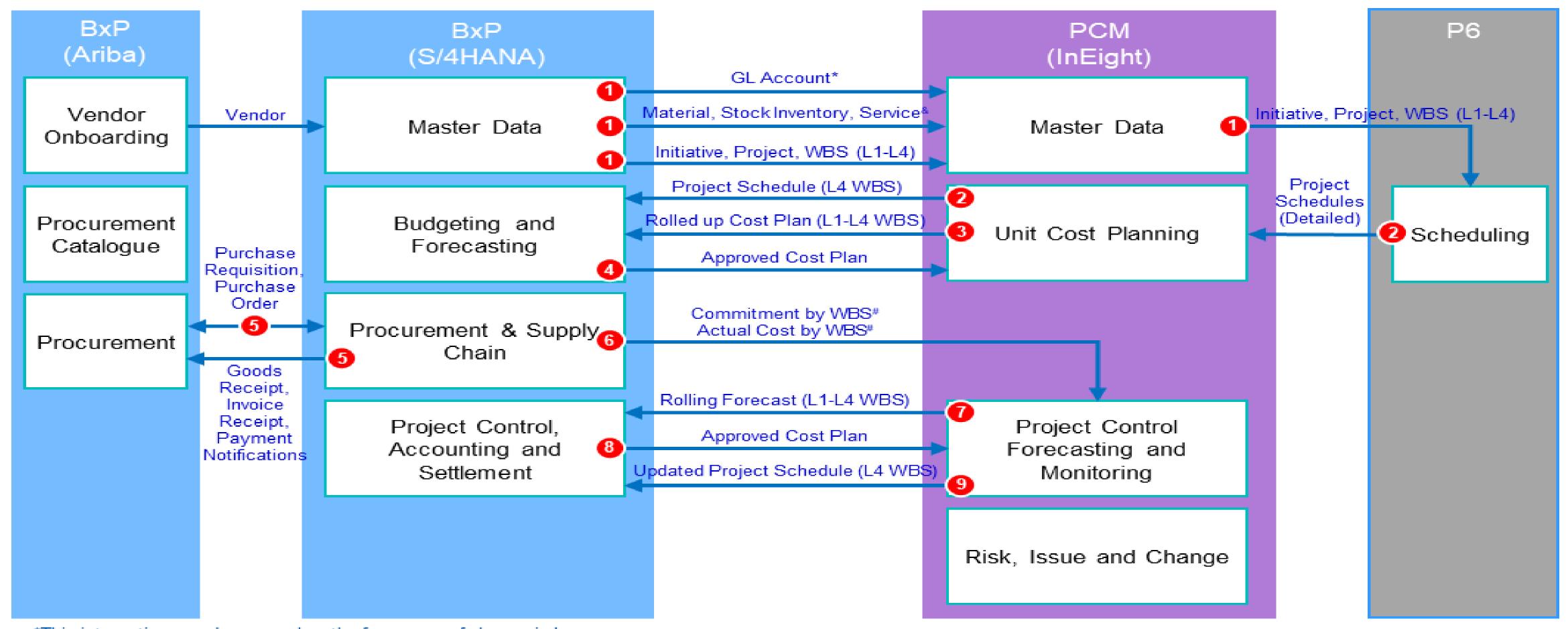






#### P4S and InEight

Integrated Project Controls requires both master data and transaction data from SAP to function. Integrations are very complex



<sup>\*</sup>This integration may be manual as the frequency of change is low

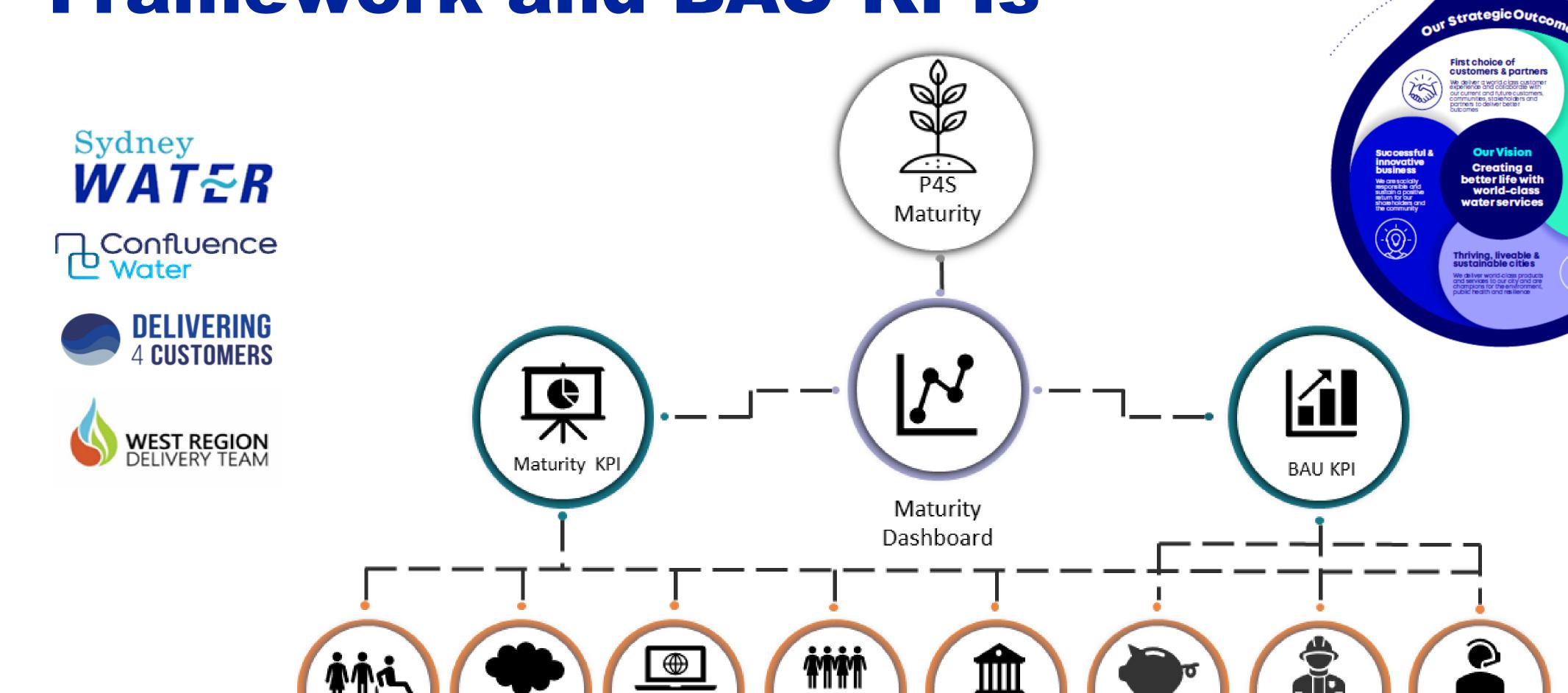
- Master data synchronisation
- Project scheduling and schedule synchronisation
- Planned cost synchronisation for budget approval
- 4 Approved cost plan and budget synchronisation
- 5 Procurement execution and supply chain operations
- Provision of commitment and actual costs to PCM
- Rolling forecast
- 8 Update of approved cost plan and budget
- 9 Update of revised schedule



<sup>&</sup>lt;sup>a</sup>Potentially the same interfaces between S/4HANA and Maximo can be reused

<sup>&</sup>quot;Granularity of integration to be further discussed. If line item level detail is required, integration will be highly complex but rolled up comment and actual costs to L4 WBS elements may not provide what PCM requires

### P4S Integrated Maturity Framework and BAU KPIs



Collaboration

Engineering

Innovation

Legacy

**Our Strategy** 

architecture

SHEQ

Advocacy

Productivity

**Our Values** 

Customerat

We work together with integrity

We own our decisions and make every dollar count

We create better and simpler ways of doing things



Diversity

### P4S achievements to-date (Year 2)

- Reached \$1 billion for our project pipeline in just
   19 months, doubling our run rate
- We awarded more than 400 projects, started construction on 96 projects and delivered over 210,000 maintenance work orders (July 2020 to June 2022)
- We prequalified 600 suppliers as part of Shared Purchasing, with 400 contracts awarded
- We became the first Australian major infrastructure company to implement the New Engineering Contract (NEC4) contracting framework
- As a member of Supply Nation, we now work with 10 First Nations-owned businesses
- We reduced our P4S Total Recordable Injury Frequency Rate (TRIFR) to 5.13 over the year from 7.3 a year earlier.







