

The Watercare Enterprise Model (EM) and Implementation of Practical Digital Engineering Solutions

Richard McIntosh & Farzam Farzadi – March 2023

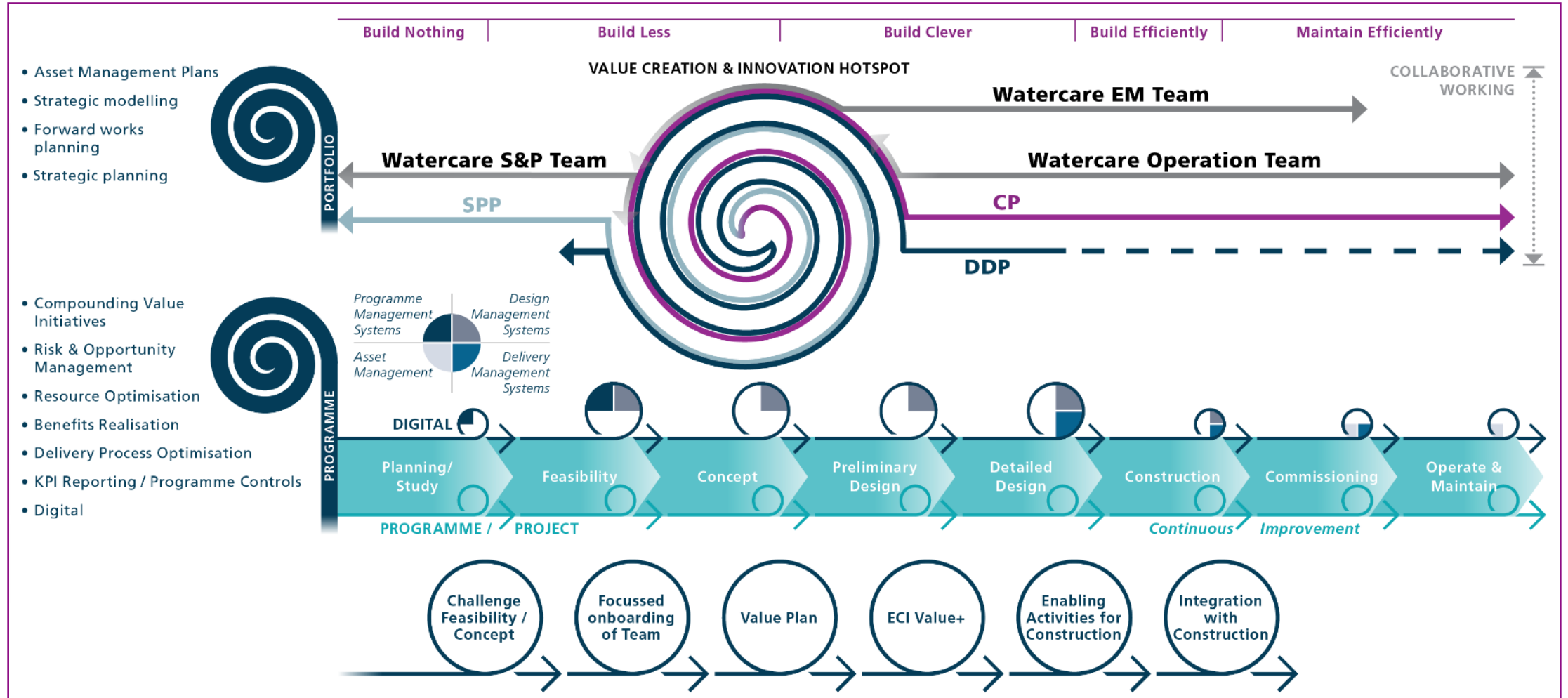
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Agenda:

- About the Enterprise Model (EM)
- The EM Digital Journey
- The Outcomes
- Reflections

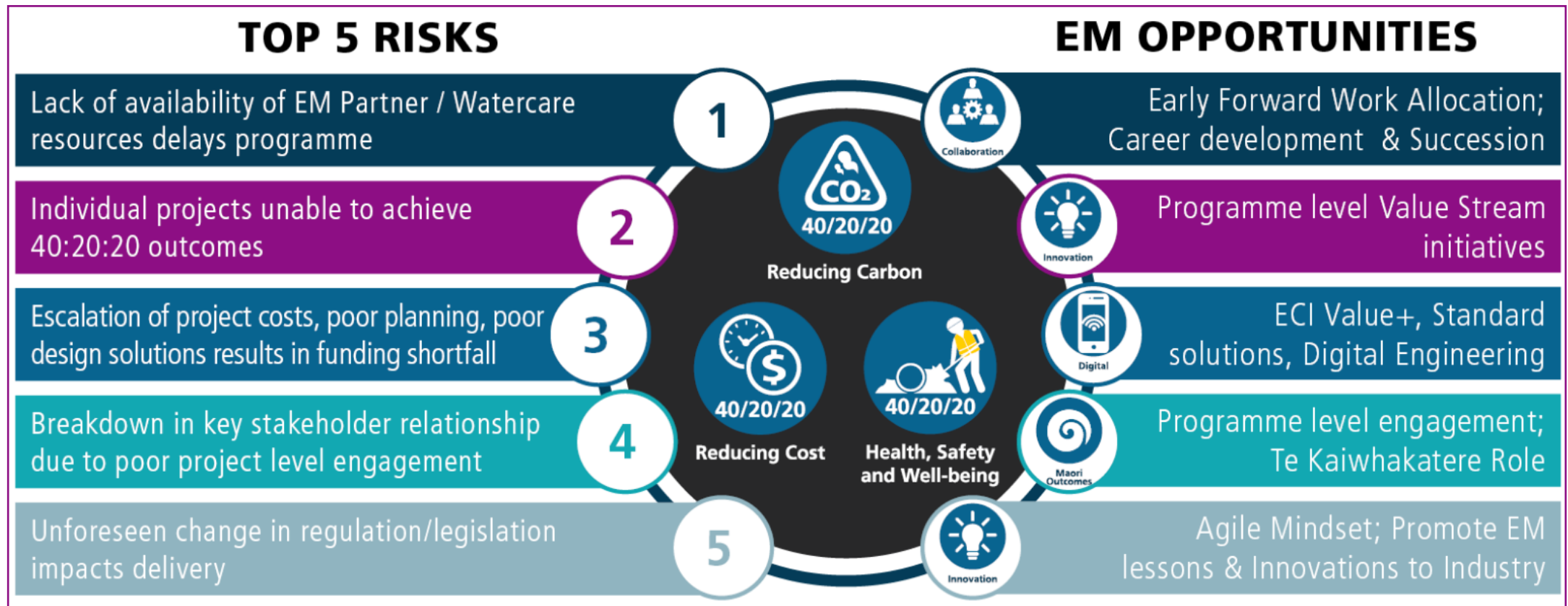
About the EM:



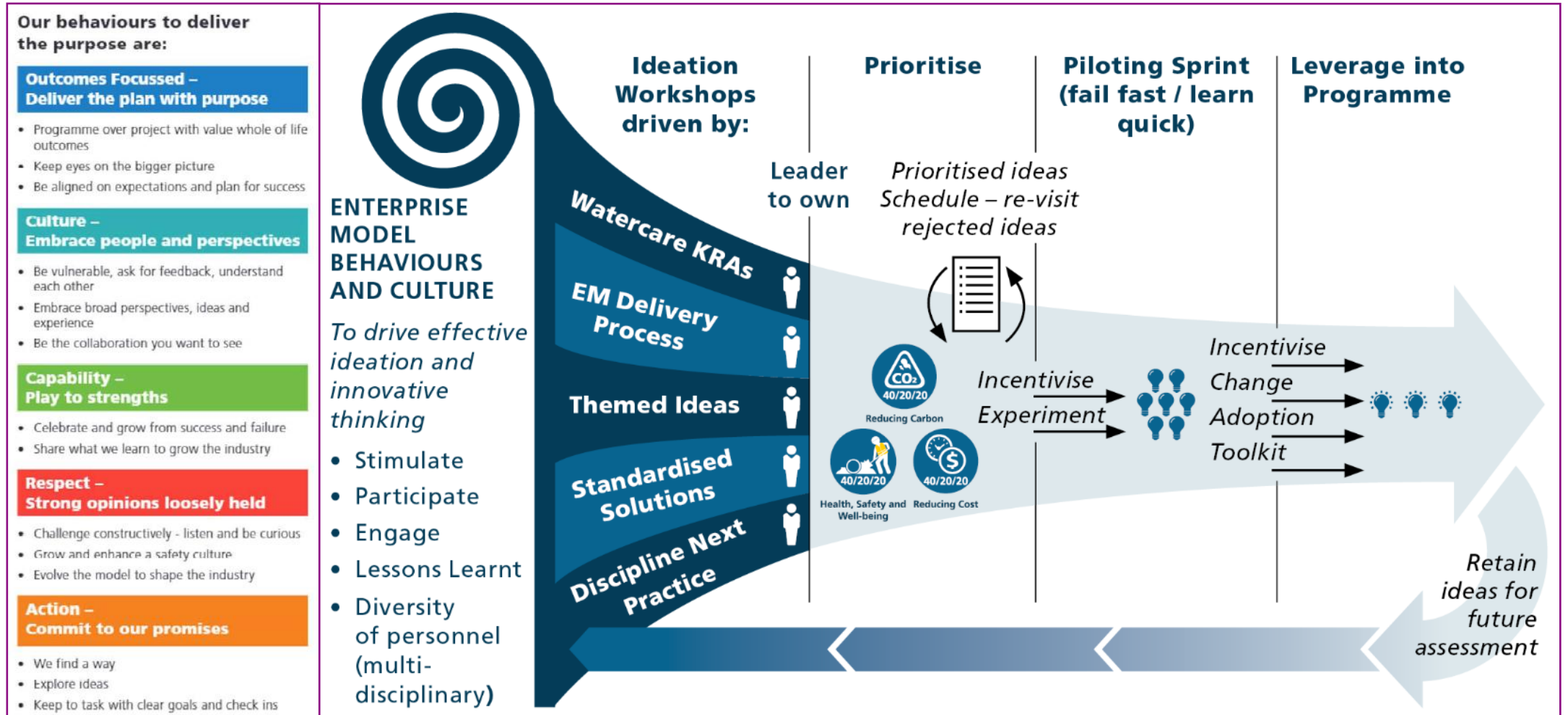
The EM Goals and Value Outcomes:

Watercare Goals and Value Outcomes		
 <p>Reduce carbon in construction by 40% by 2024</p>	<p>Risk Avoidance benefits</p> <ul style="list-style-type: none"> • Compliance to mandatory standards • Supply continuity from ethically sound supply chains • 'One Way of Working' • Operating in accordance with Watercare's values 	PROTECTIVE
 <p>Reduce infrastructure delivery costs by 20% by 2024</p>	<p>Continuous Improvement benefits</p> <ul style="list-style-type: none"> • Continually engineering out components and work practices which add cost, but no value to the construction lifecycle • Realising Watercare's sustainability agenda 	PRODUCTIVE
 <p>Reduce injuries during construction year on year by 20%</p>	<p>Game-changing benefits</p> <ul style="list-style-type: none"> • Recognised as global leaders in infrastructure delivery • At the forefront of capability development within the industry (Watercare Academy) • Blueprint for how greater value can be realised from other expenditure • Kaitiakitanga 	PROGRESSIVE

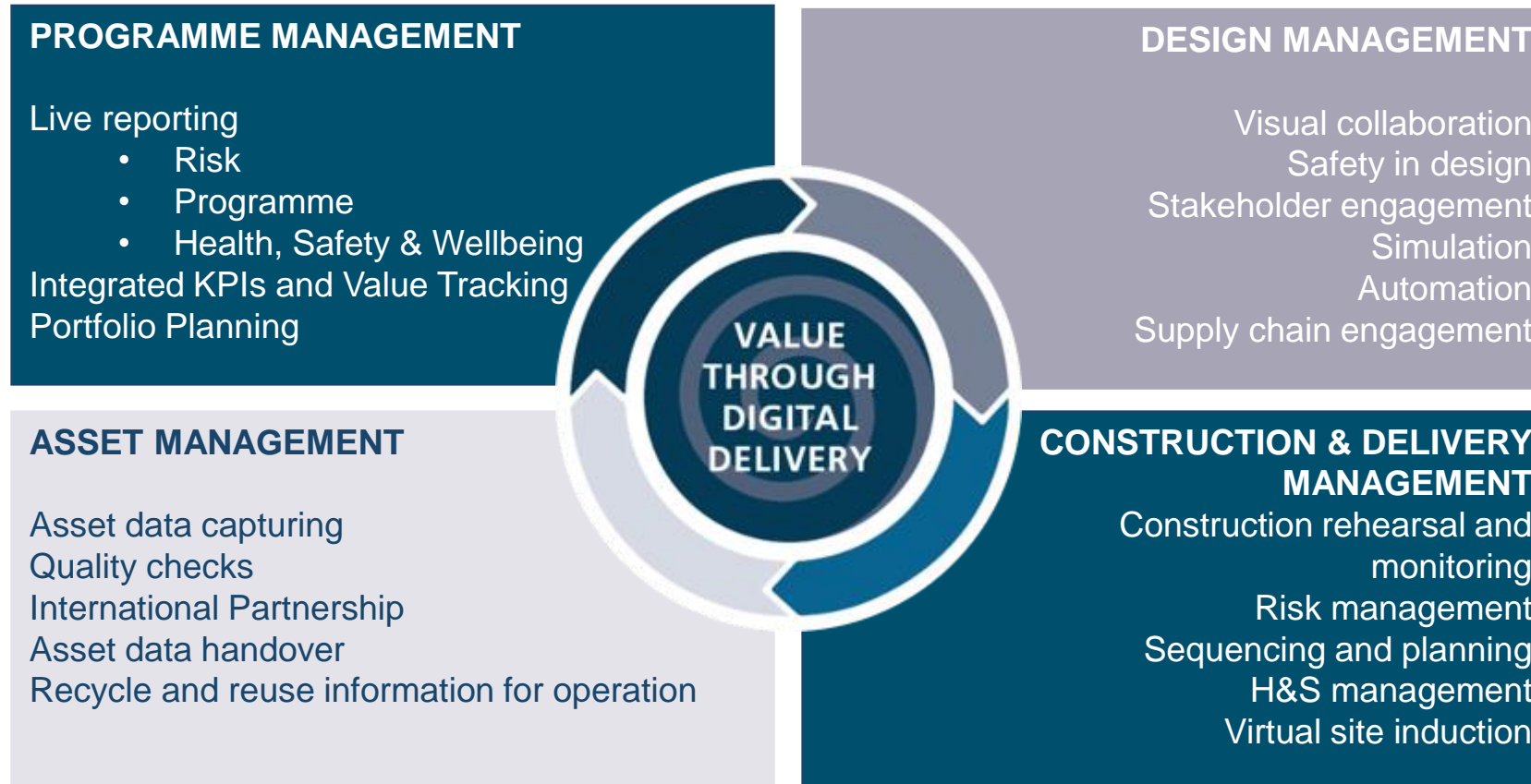
The EM Risks and Opportunities:



The EM Culture:

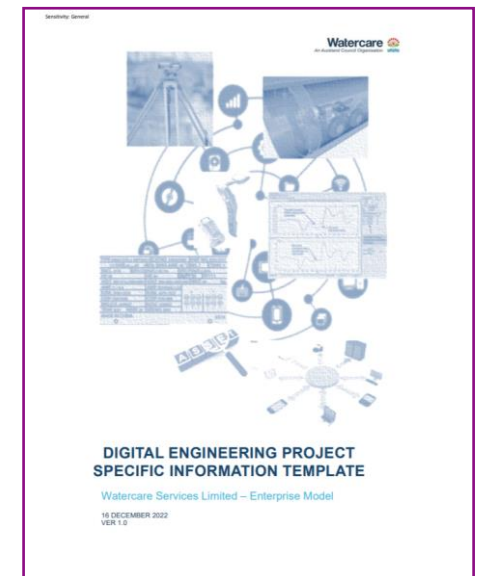
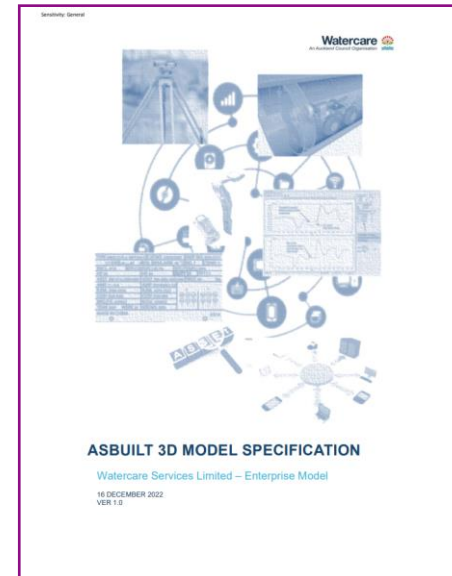
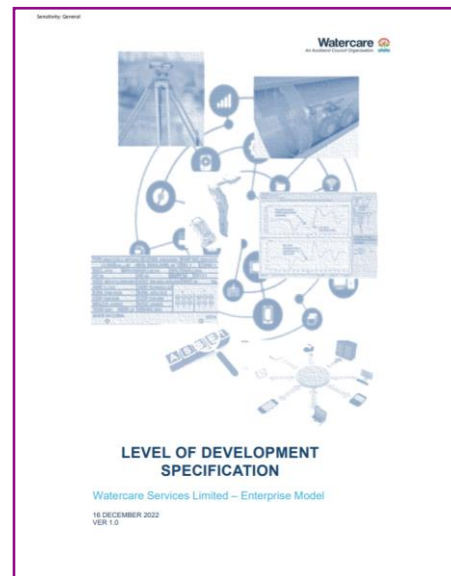


Value Through Digital Delivery:

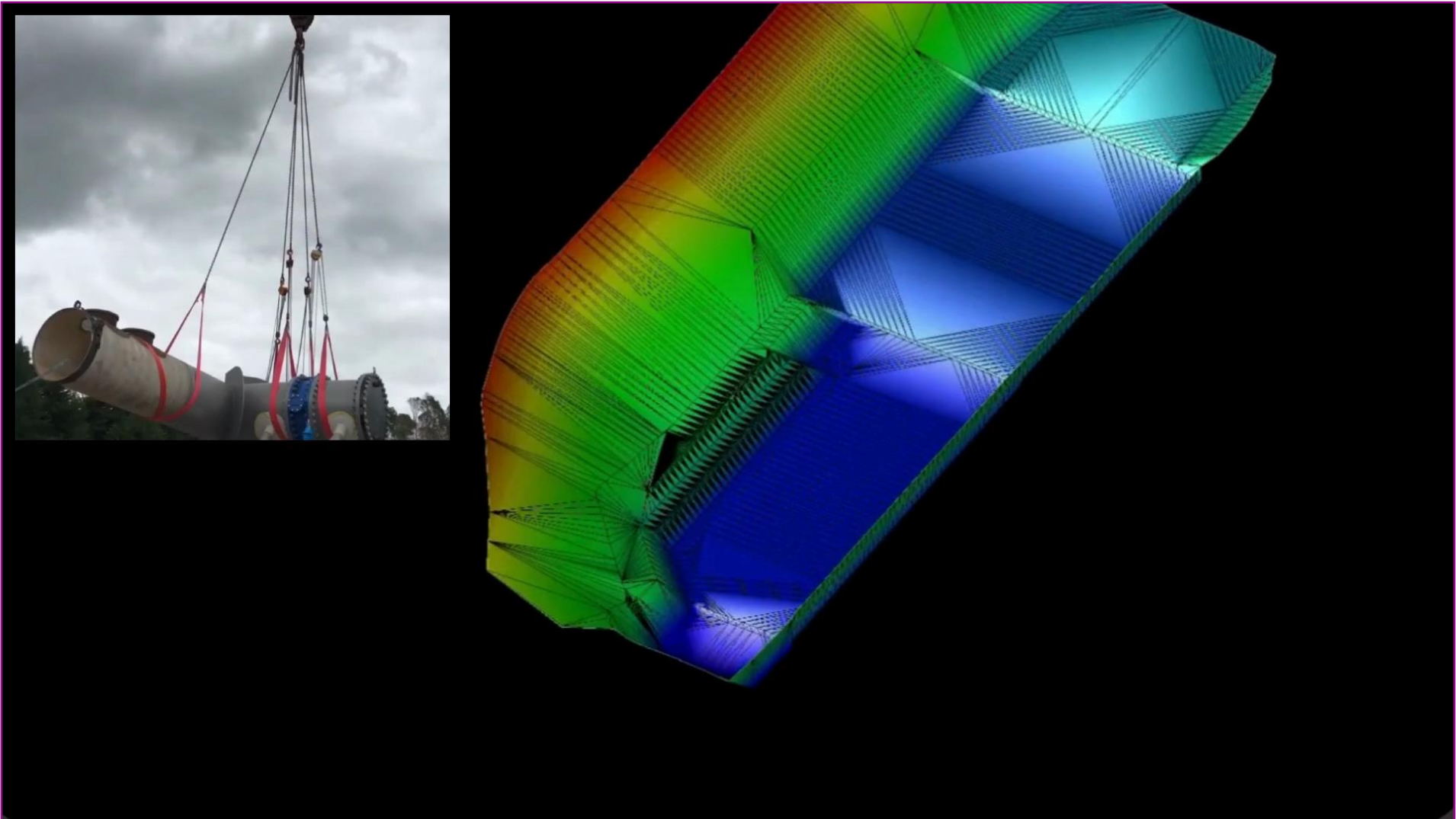


The EM Digital Delivery Strategies:

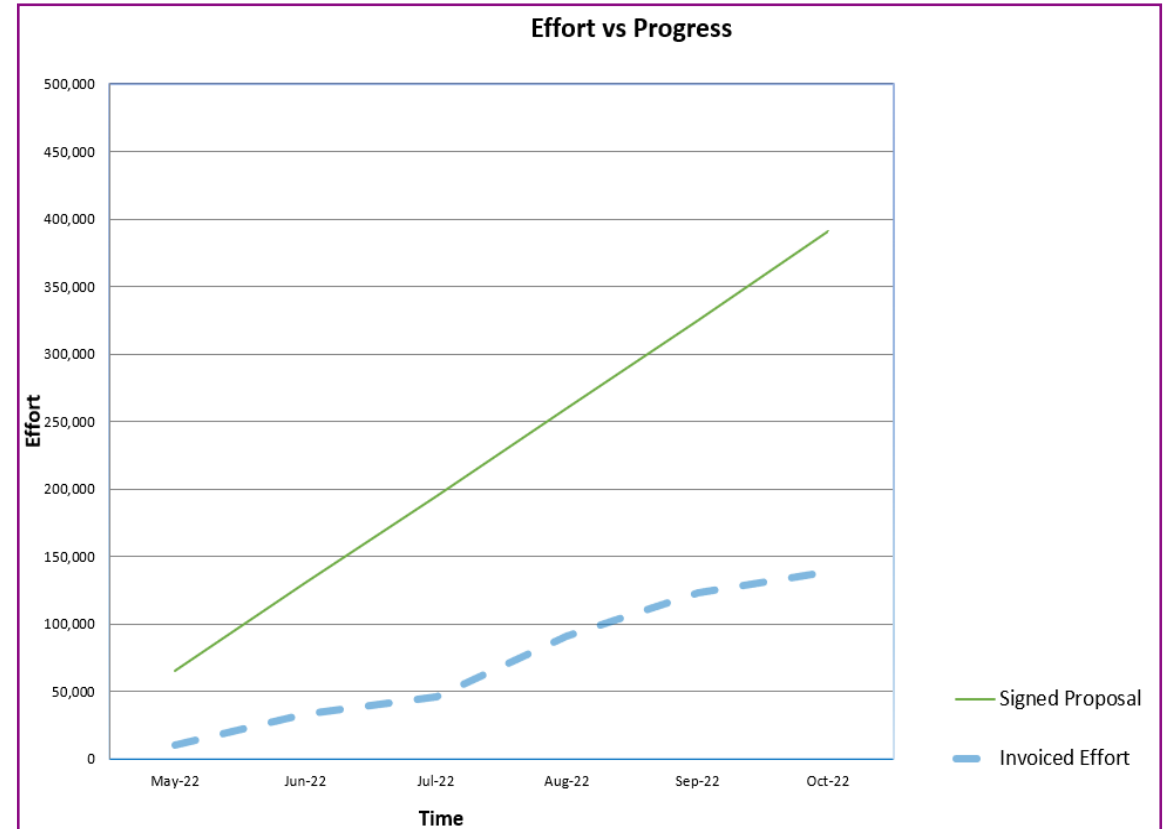
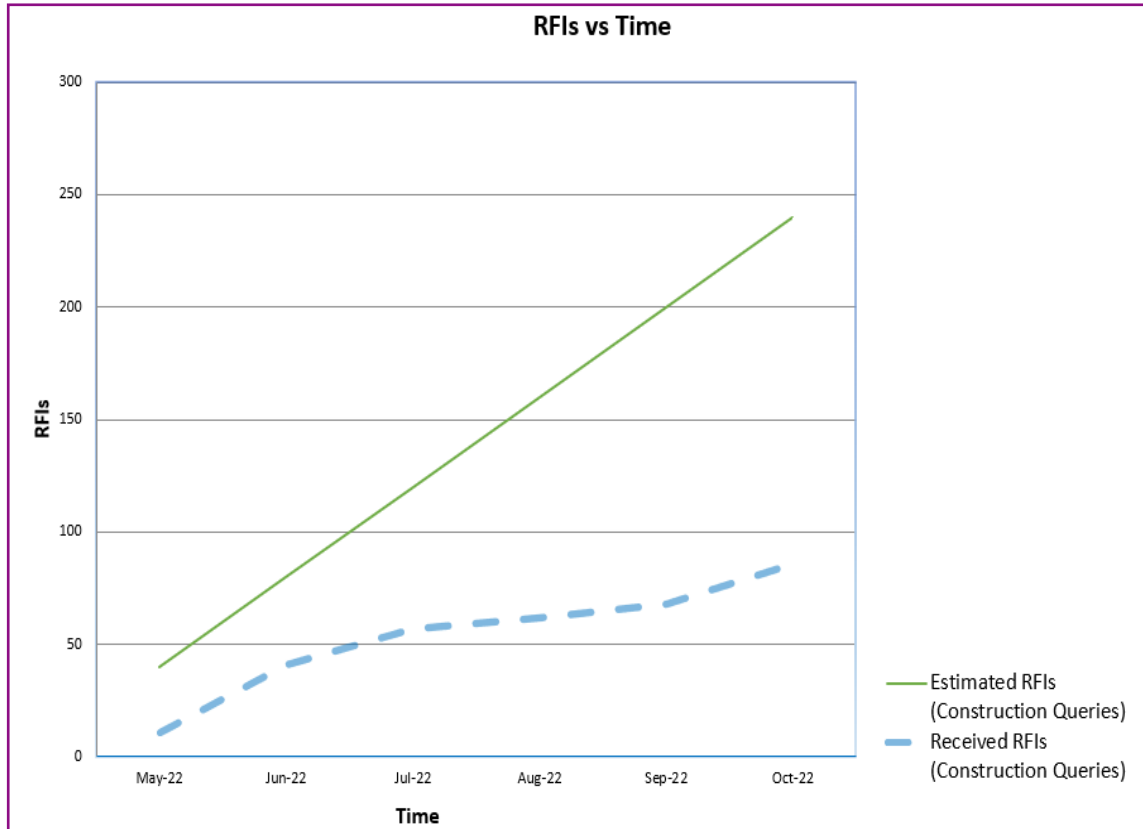
We focused on practicality, effectiveness, and agile improvement.



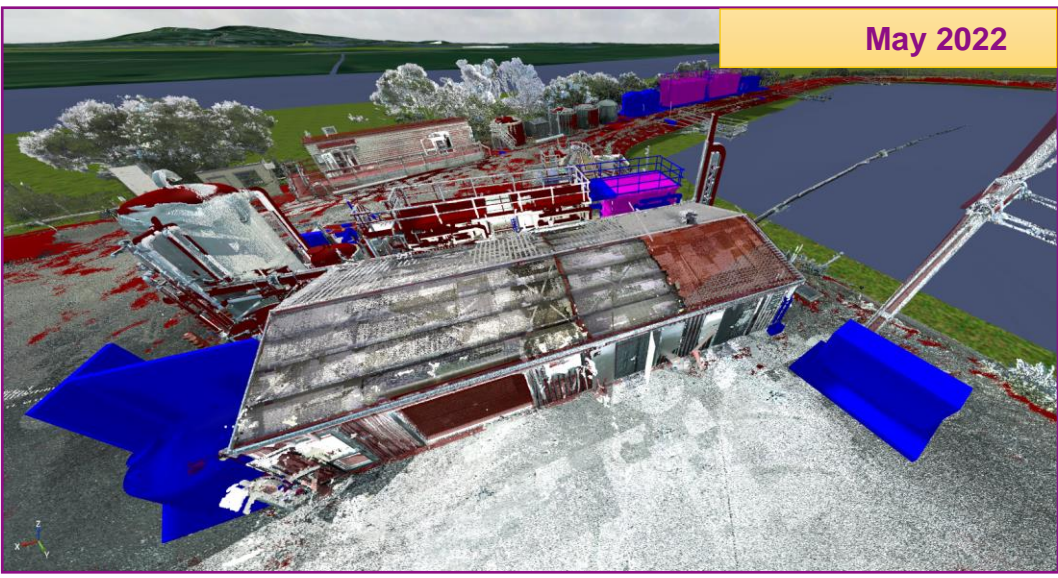
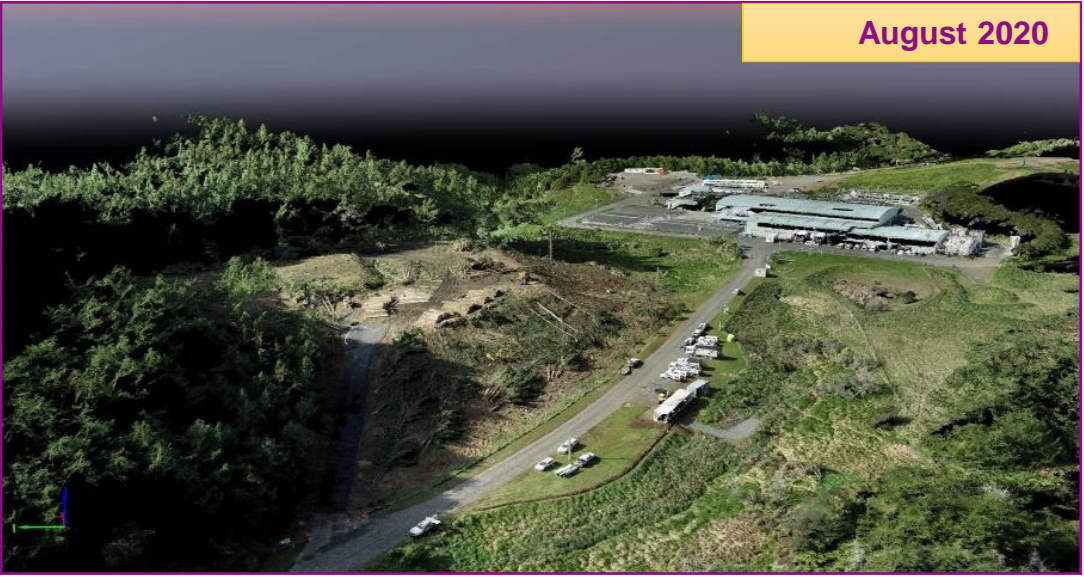
The Outcomes: Data driven solutions



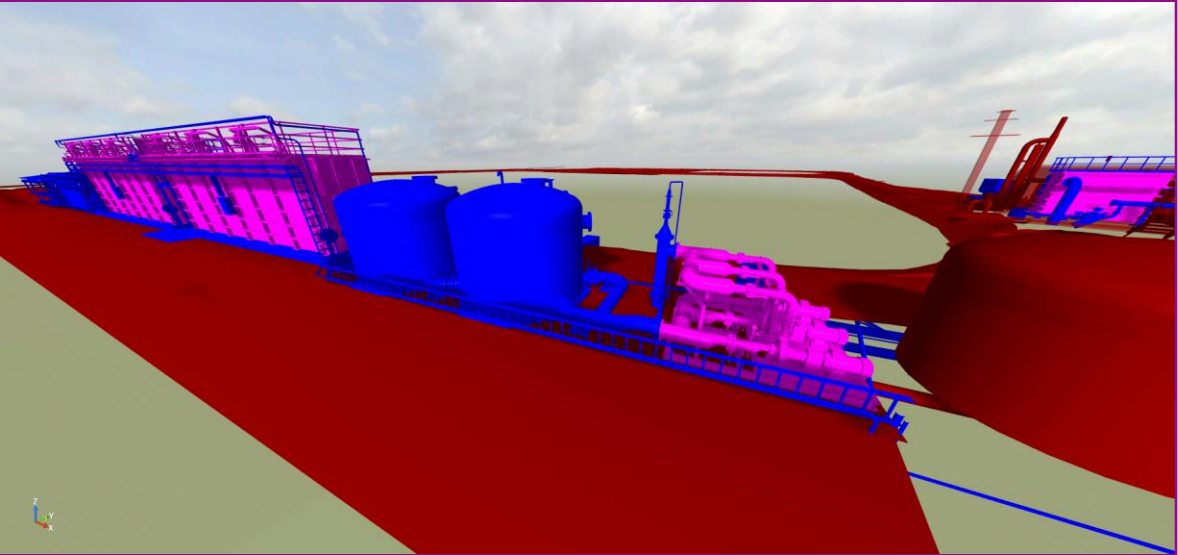
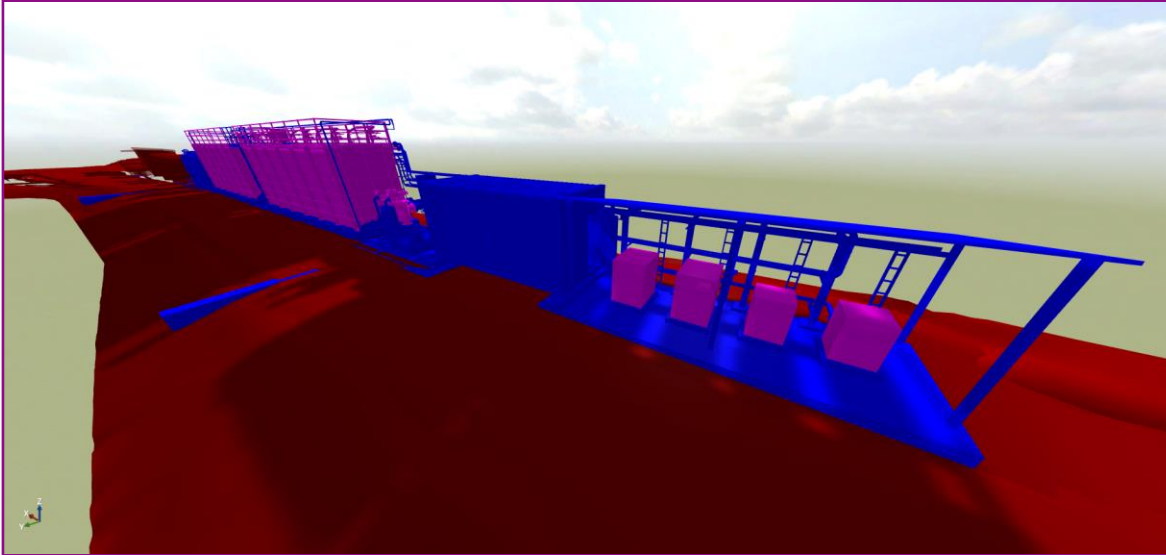
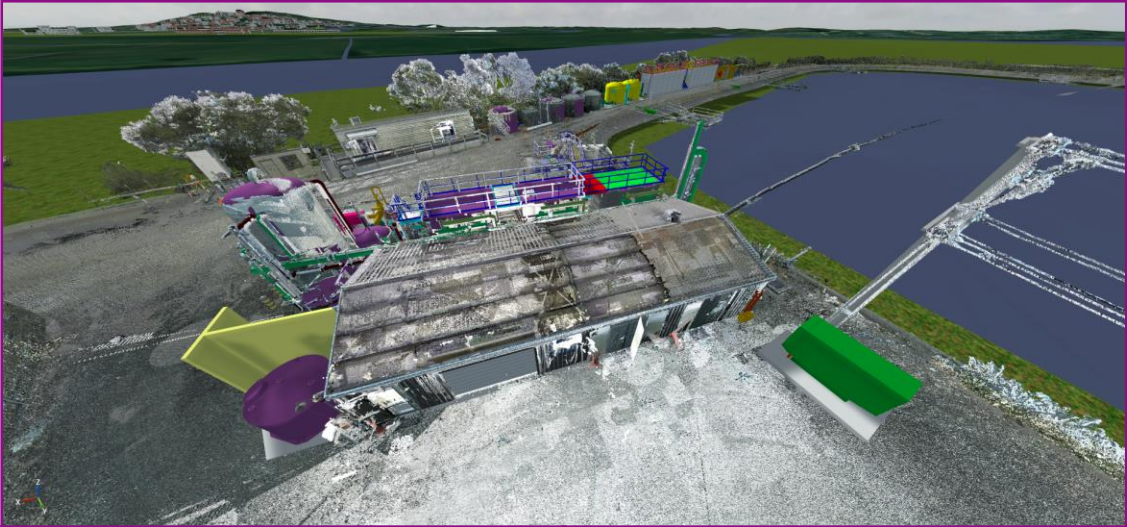
The Outcomes: Minimising RFIs and reworks



The Outcomes: Agile delivery



The Outcomes: Empowering the supply chain



Reflections:

- Courage to try something and being willing to adapt
- Focus on practicality and agile improvement – progress vs perfection
- Manage technical and culture barriers – this is a people journey
- Alignment of expectations between users
- Digital is not an innovation, it needs to be our way of working
- Client maturity is a challenge – how do we use digital beyond the build?
- Value realisation is critical and needs to be communicated



Conversation Corner:

- We will join Beca's conversation corner at 1 pm.
- Please join us; we look forward to meeting you and answering your questions.

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