

*Bringing ideas
to life*



**WasteMINZ – Purpose,
Progress, Potential**

Early Project Collaboration

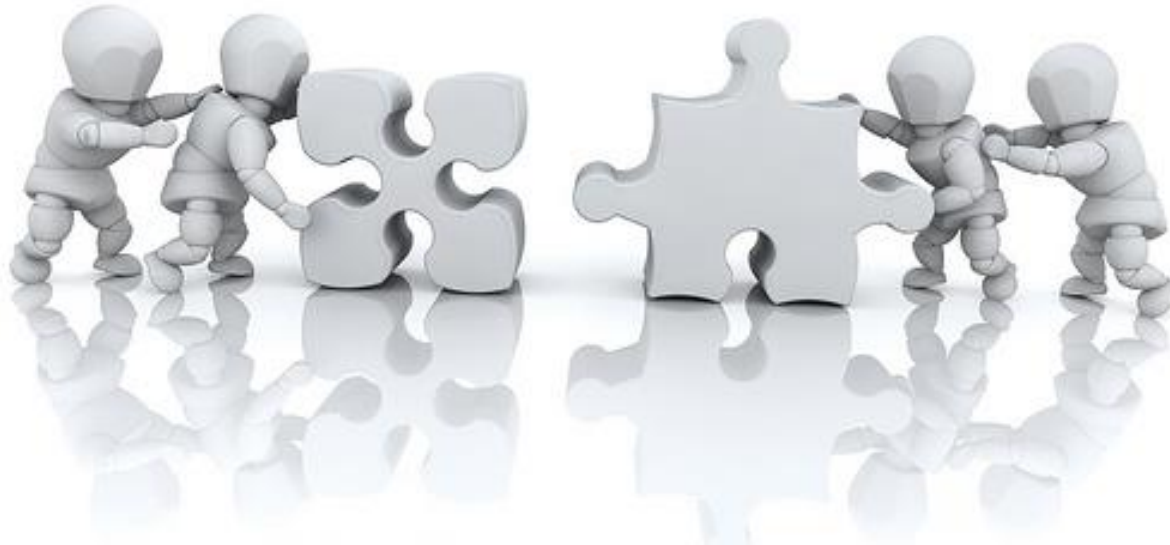
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7 November 2017

aurecon

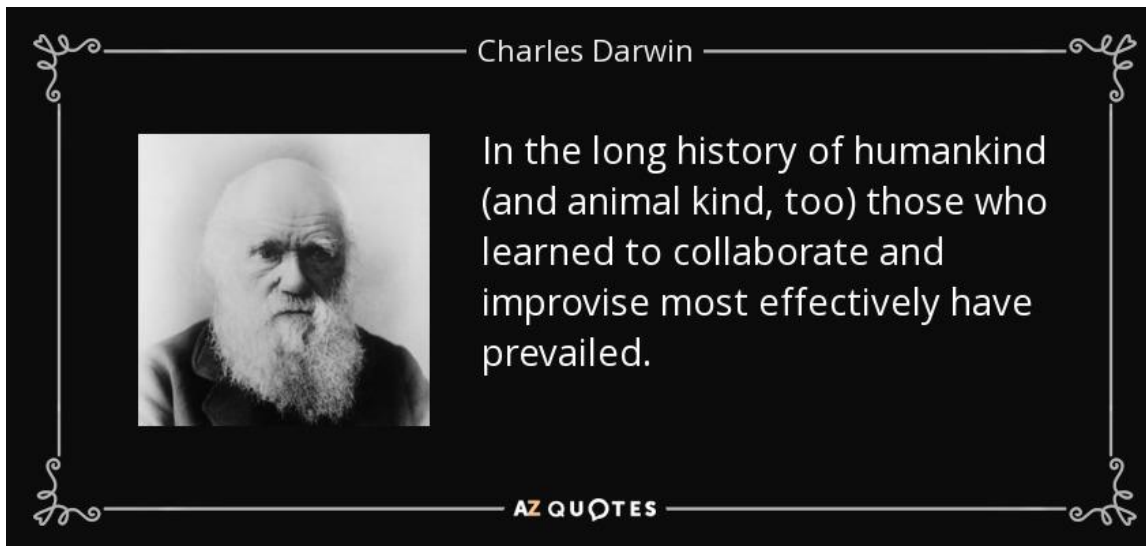
Early project collaboration

- Why we need early project collaboration
- Who are the key players
- What are the critical stages for collaboration
- Examples of our trials and triumphs

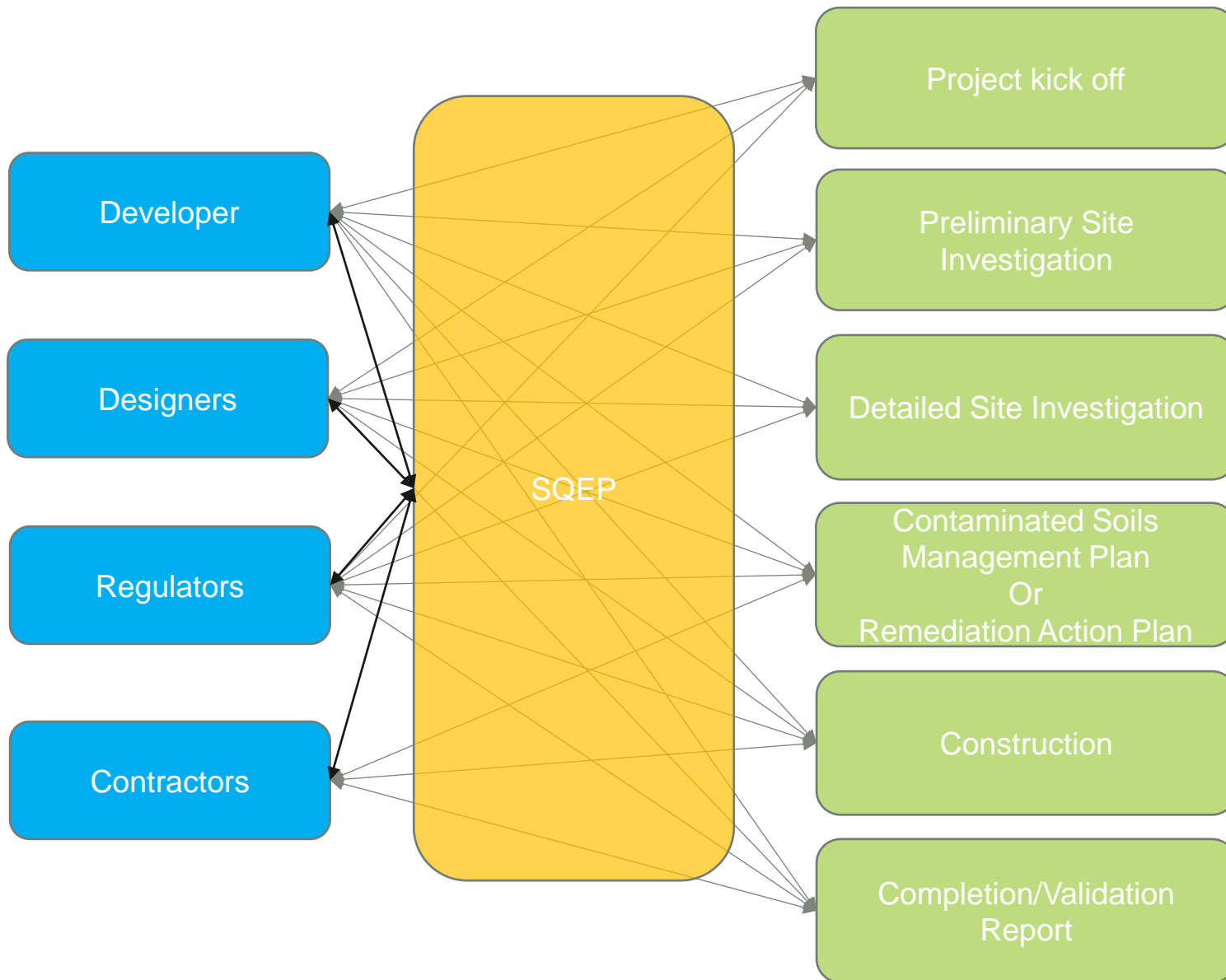


Why?

- Purpose – provide better solutions for the project and environment
- Progress – improvements since the introduction of the NES
- Potential – to be engaged with and valued as a profession to meet our purpose

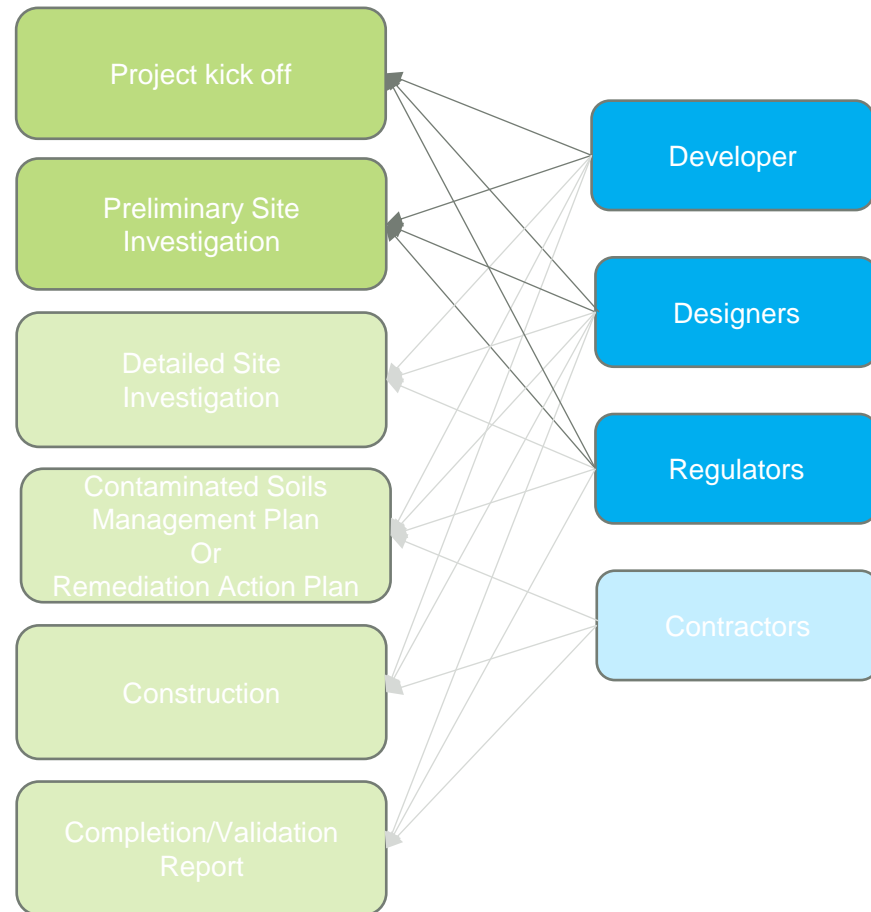


Key players and project stages



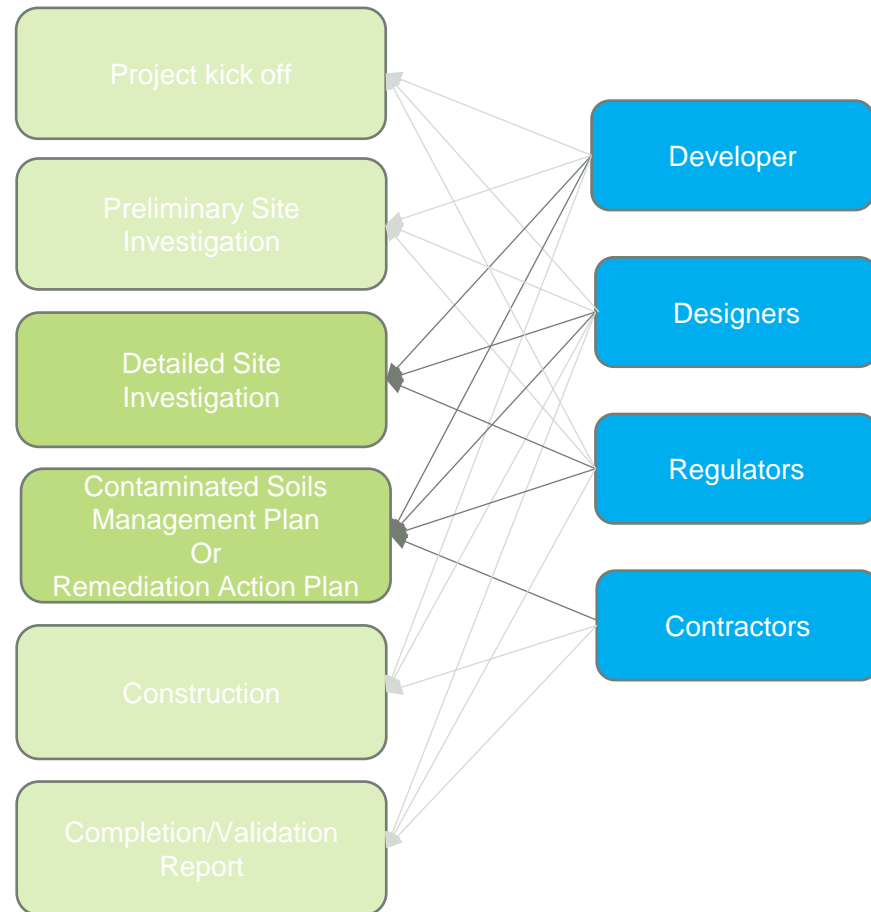
Stage 1 – Project initiation

- Understand key drivers - why and what is to be achieved
- Experience - understanding of project risks
- Identify gaps in knowledge - less conservatism
- Early assessment to identify options



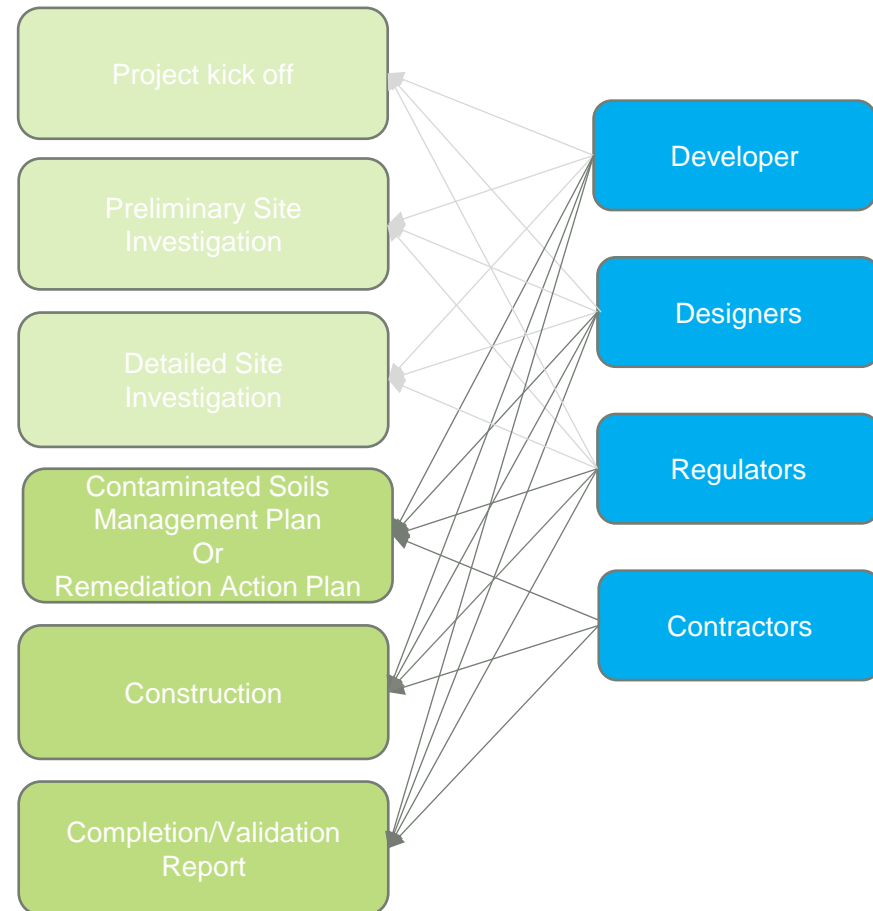
Stage 2 – Detailed design

- Understand key site specific issues
- Educate other key parties on the implications of changes
- Reduce construction costs and programme delays
- Influence sustainable remediation



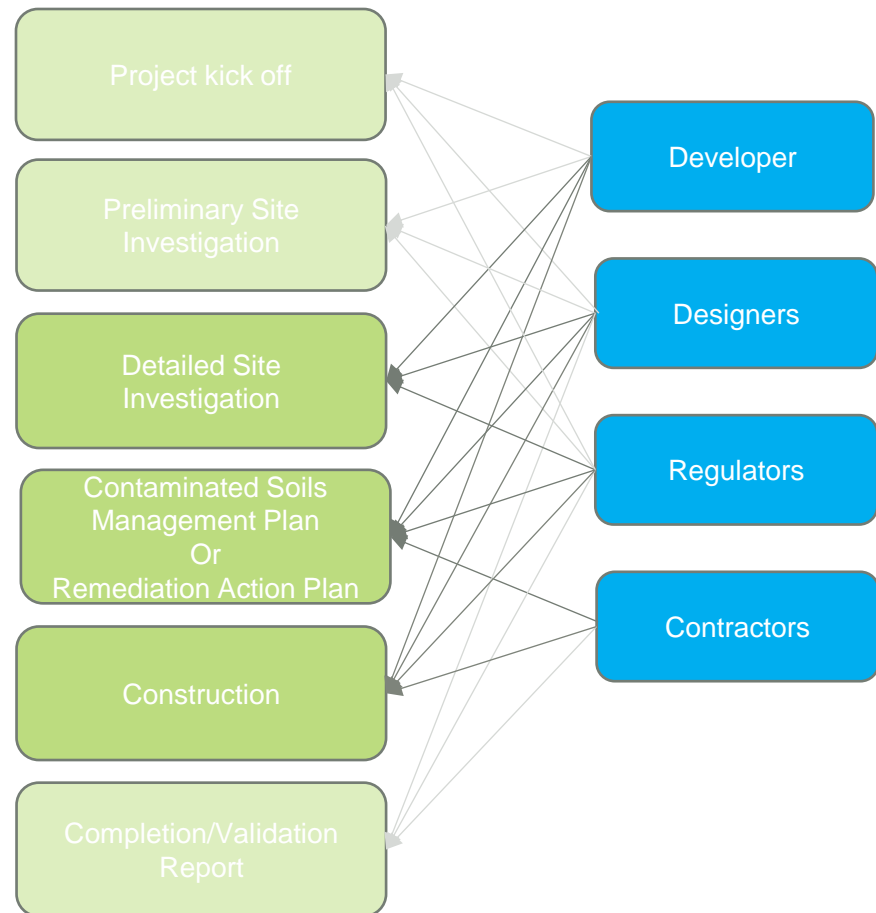
Stage 3 – Construction and completion

- Understand implications of change in construction methodologies
- Provide sound advice when for contamination discoveries during project construction
- Have the key goals been achieved for the development?



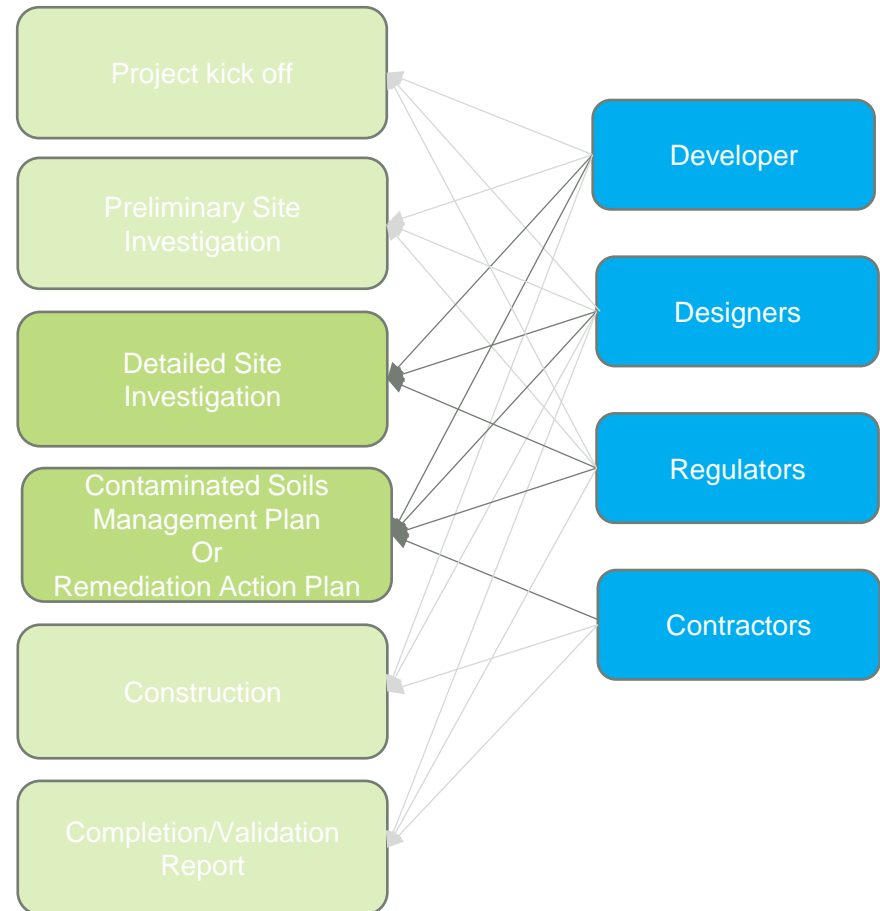
When it hasn't gone well - Alliance

- Design and construction progressing at the same time
 - Seen as a sunken cost, time delays
 - Not sharing of critical information
- confusion within wider team
- further time delays
- unnecessary time and costs by design team
- H&S implications



When it hasn't gone well – Industrial site

- Previous investigations by others
- DSI to target project requirements and specific assumptions
- Other parties brought in for advice, but not having full understanding of project requirements
- Misinterpretation of information by Contractor
- Design and project changes affecting dewatering and remediation requirements

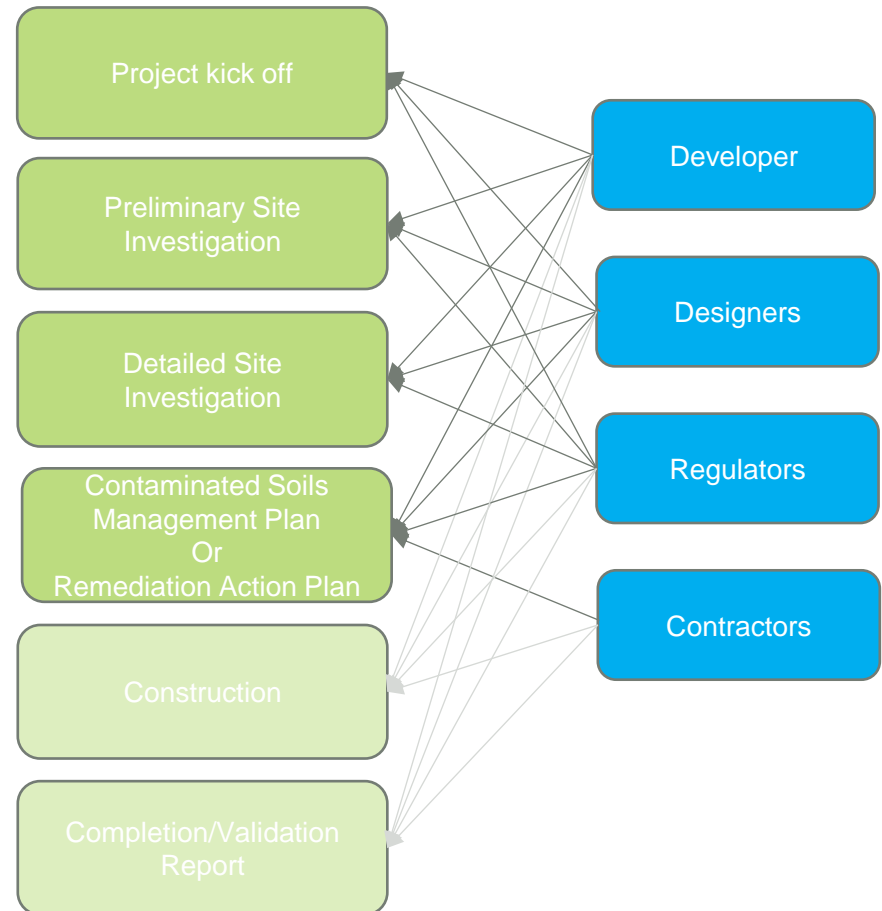


When it hasn't gone well – Lessons learnt

- Need to **educate** the team when to involve SQEPs and to identify changes that affect contaminated land issues
- **Communication** with contaminated land, other disciplines and key parties is critical
- Tight **timeframes** limit the opportunities to manage contaminated land in a **cost** effective manner

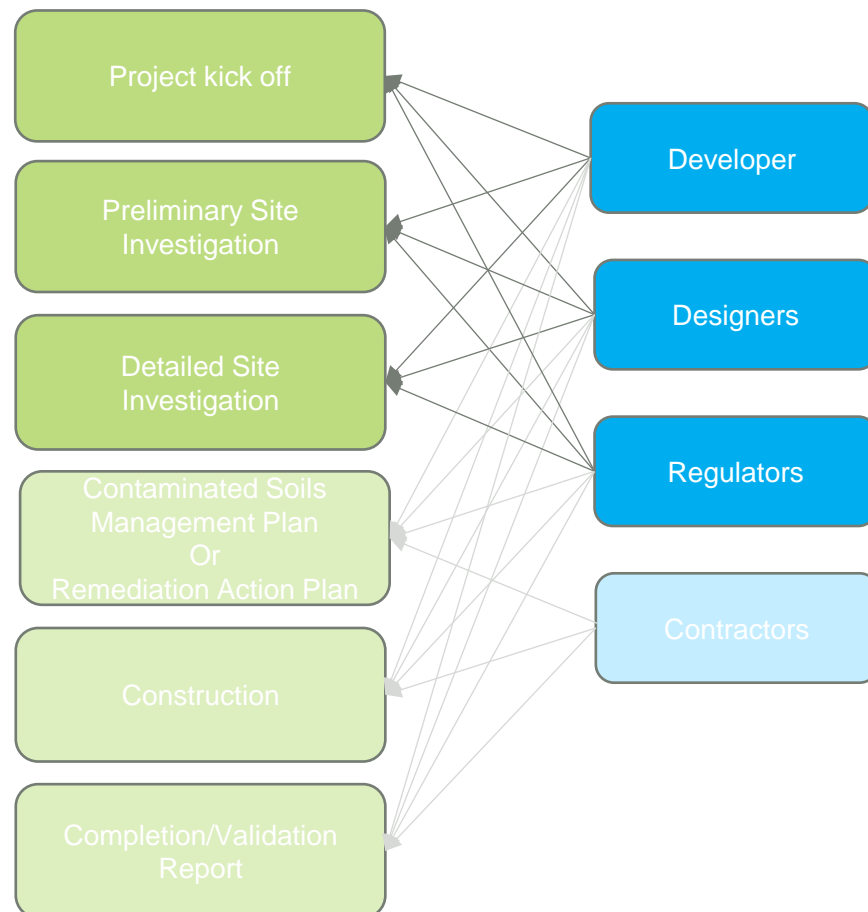
When it has gone well – Linear alignment

- Understanding client's key drivers:
 - Minimising cost
 - Minimising programme delays
- early investigation to inform design to minimise excavations, dewatering and discharge requirements
- H&S implications within tight site constraints



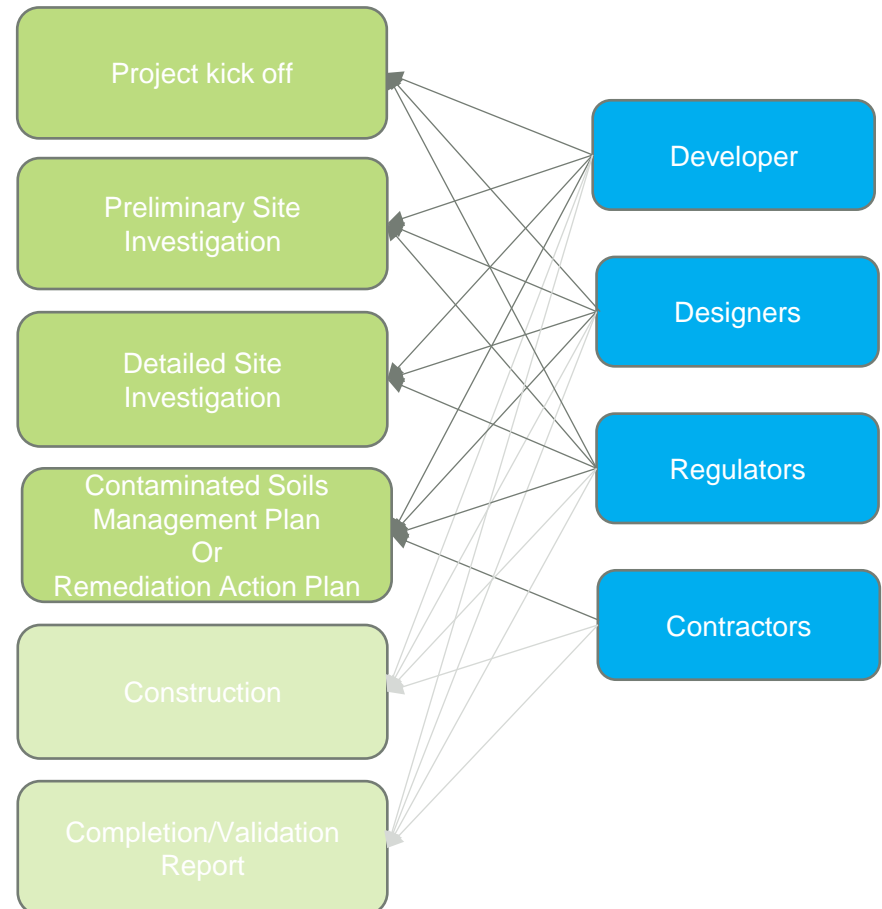
When it has gone well - CBD

- Understanding client's key drivers:
 - Minimising cost
 - Minimising programme delays
- early investigation to inform foundation design i.e. excavations and offsite disposal options



When it has gone well – Stormwater project

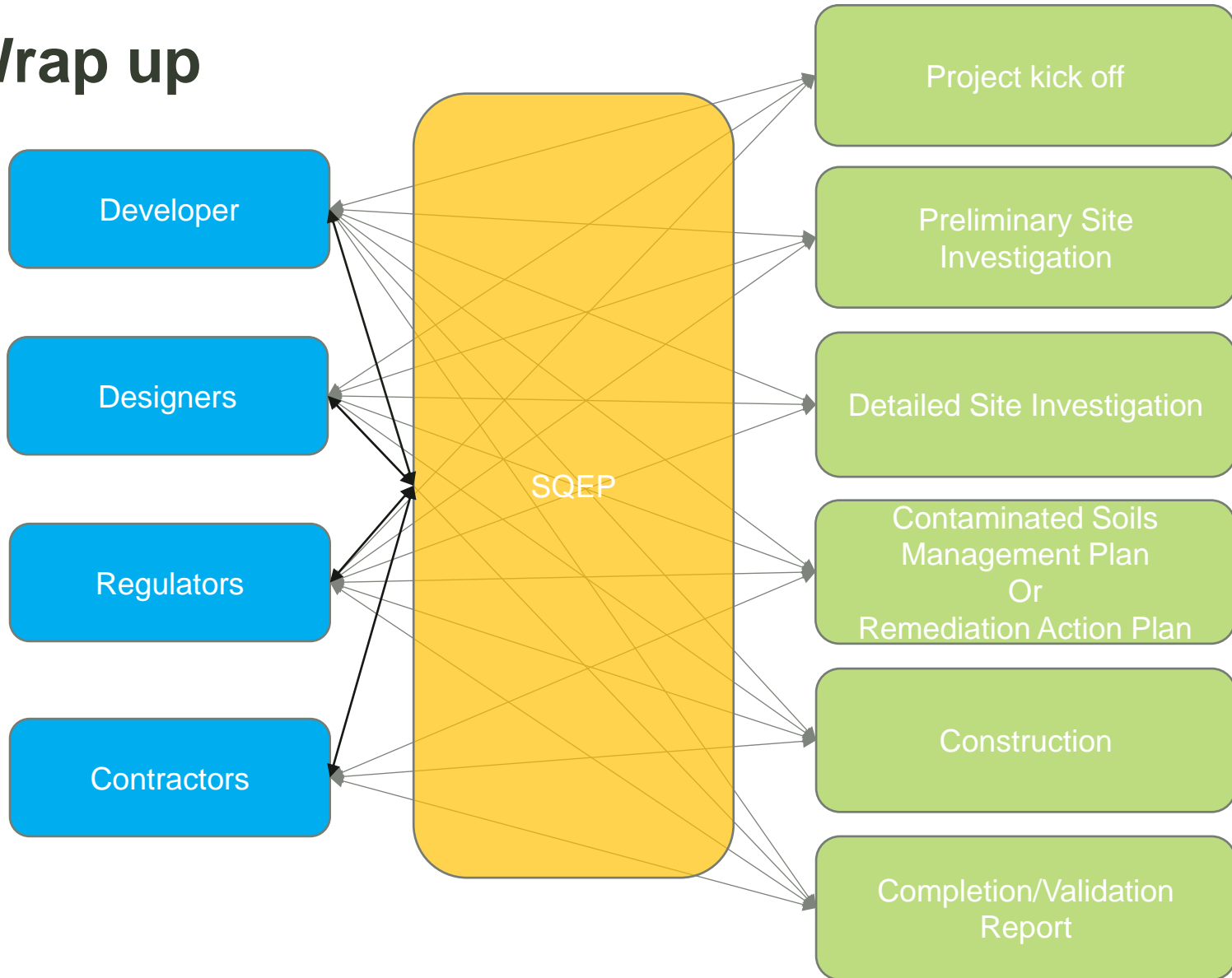
- Understanding client's key drivers:
 - Minimising cost
 - Minimising programme delays
- multiple stages of delineation to fully understand extent of contamination and potential uses of surplus soils



When it has gone well – Insights

- **Ask questions** to understand key drivers, design and construction methods
- **Educate** the team about the risks of the site/project, potential implications of design changes
- Keep the **conversations** going

Wrap up



Where to from here?

Potential – to be engaged with and valued as a profession to meet our purpose to **provide better solutions for the project and environment**

Coming together is a beginning, staying together is progress, and working together is success. – Henry Ford

Tips and tricks?

Questions?



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