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Presentation covers

- Alliance Background
- Key Improvement Strategies
 - Product Development
 - Continuous Improvement
- Examples



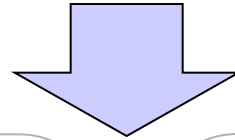
Need for a different approach!

2005 looking forward:

- Deliver a £ 1 bn five year programme
- Tough efficiency targets
- Operable solutions
- Health and Safety

Only achievable through a different model

Developing an Alliance Model



ALIGNMENT

COLLABORATION

INTEGRATED TEAMS

INCENTIVE BASED MODEL

VISIBLE PROGRAMMES

CONTINUOUS IMPROVEMENT

Alliance Organisation



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engineering

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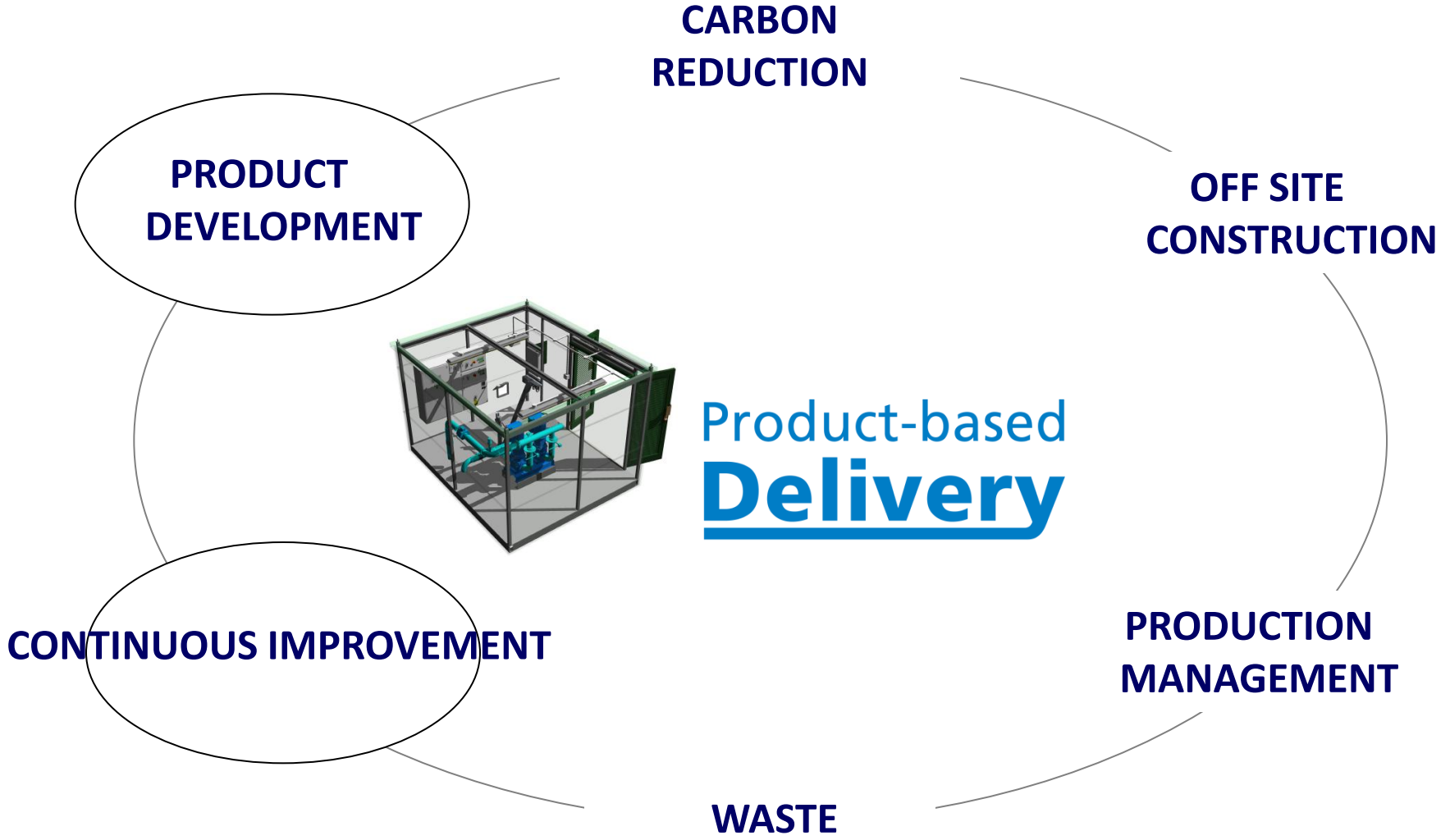
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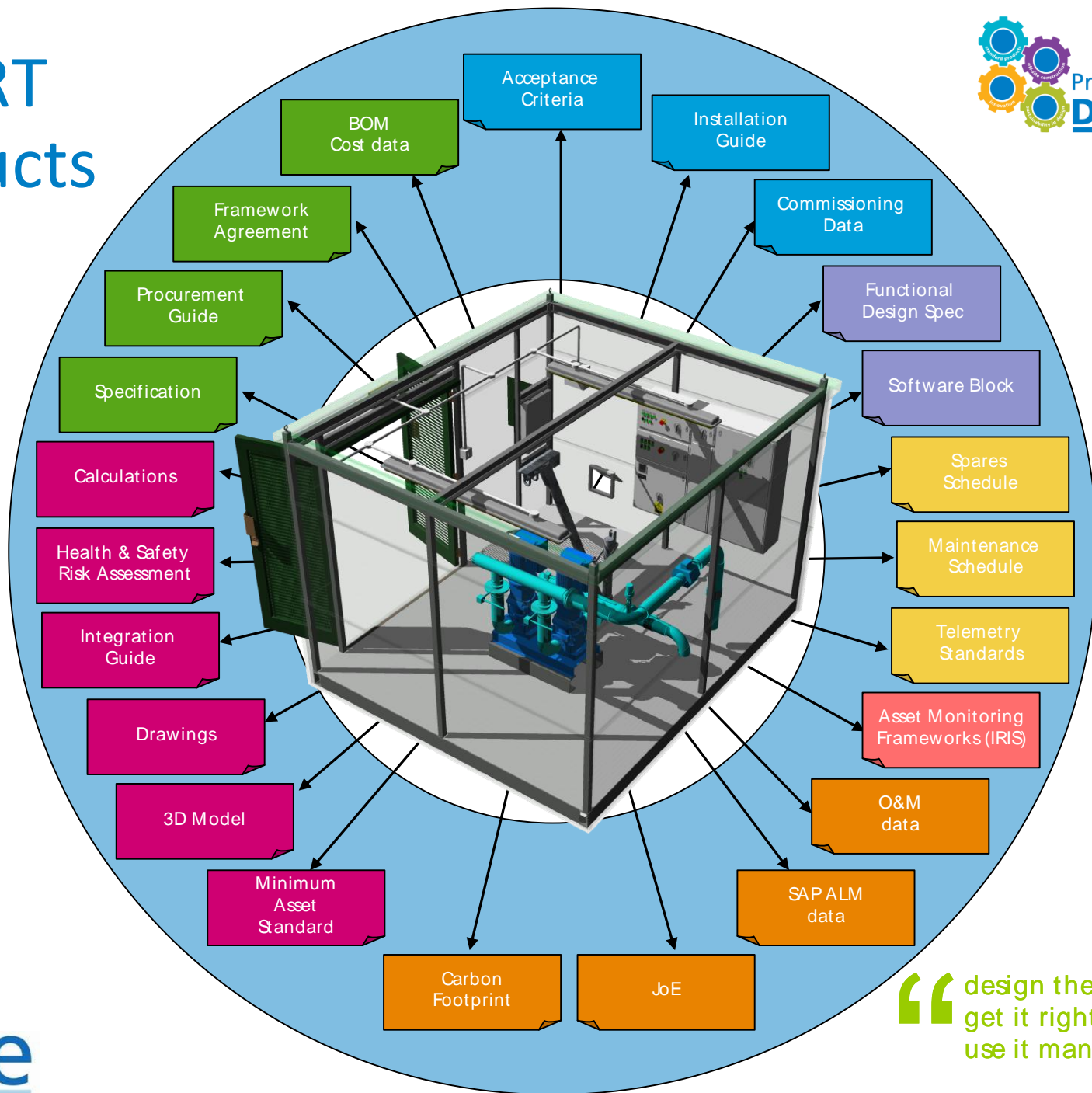
The Challenges!

- 25% affordability challenge (over 5 years)
- 50% reduction in embodied carbon
- 20% reduction in operational carbon
- All Capital Delivery targets

A constructive and innovative response
to challenge



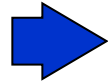
SMART Products



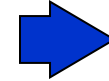
“ design the product once
get it right
use it many times...”

The Route to Continuous Improvement

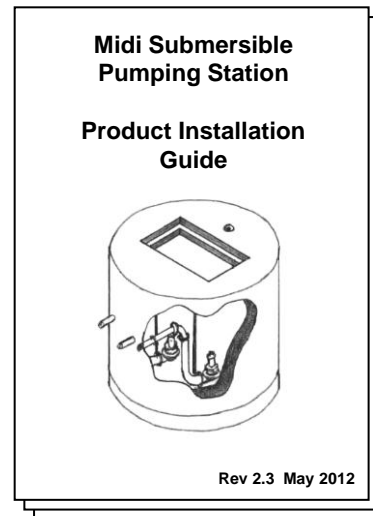
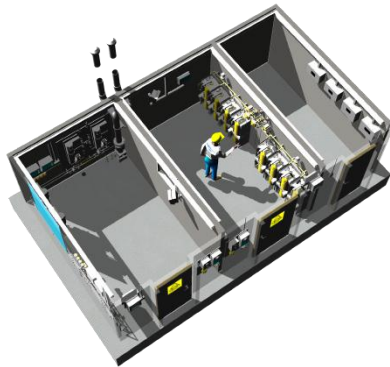
**PRODUCT
DEVELOPMENT**



STANDARD WORK

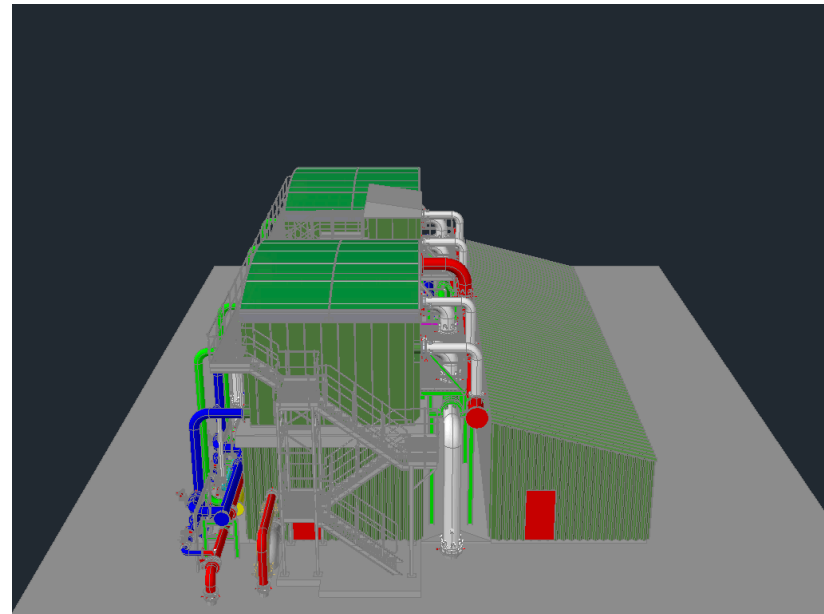
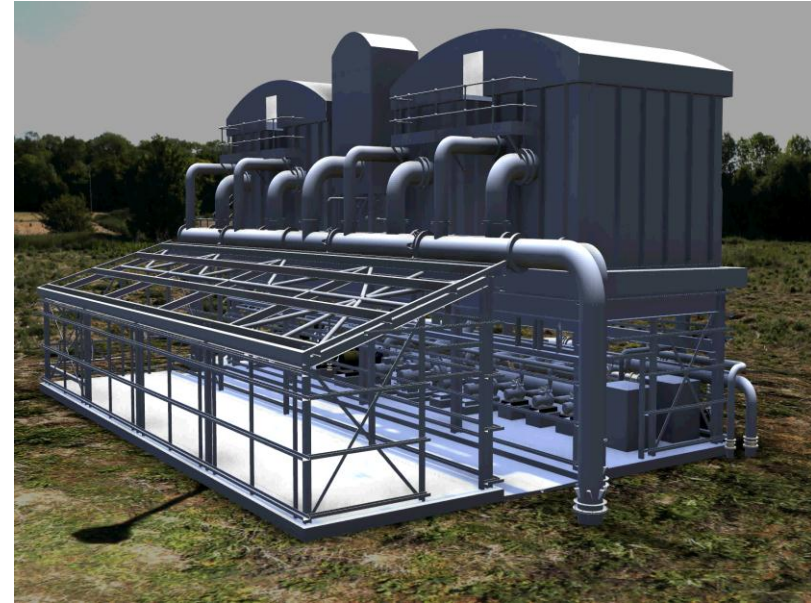


**CONTINUOUS
IMPROVEMENT**



Product Based WTW

- Carbon and cost reduced to equivalent of refurbishing existing treatment plant
- Water Treatment Works developed from products
- Over 70% off-site construction
- Construction period of 6 months
- 60% reduction in embodied carbon (954 t CO₂e from 2503 t)



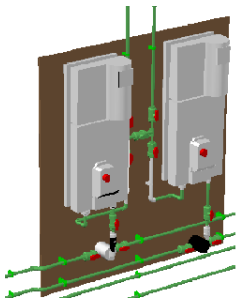
Product Example – Chlorination

Traditional

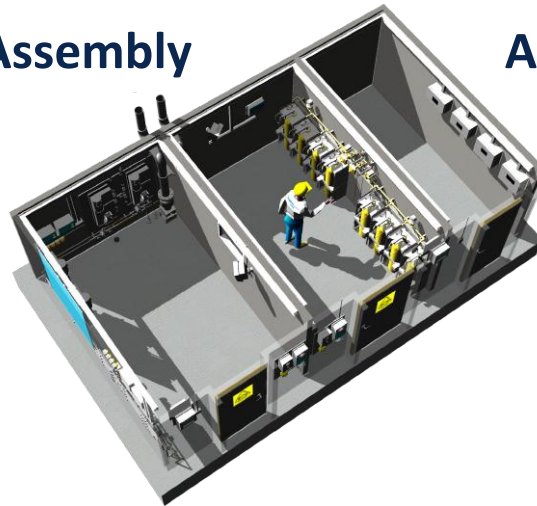


Product Based

Component



Sub Assembly



Assembly



Collaboration and Continuous Improvement

- Collaborative model provides:
 - open view of performance
 - opportunity for challenge
- Initiatives that collectively drive a different way of working
- Continuous Improvement (culture) as core strategy

