Innovating with 4D
MWH Treatment Ltd Case Study
Frankley WTW New Lime Plant
September 2015
• Introduction
  • Opportunities
  • Drivers
  • Project
• Design Collaboration and Coordination
• Collaborative Planning
• Outcomes
Introduction
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Existing Plant
New Lime Plant
Opportunities

The Frankley Efficiency Plan
“how we are meeting the AMP6 challenges”

- Right People
  - Right Team
  - Enabling a digital future
- Communication
- Collaborative Planning and Production Controls
  - Communication
- Strategic planning
- 70% target for off-site construction
- Right first time
- 4D Programming
- Technology
- Digitalising operations and maintenance
Drivers

- Safe working
- De-risk – improve programme
- Severn Trent Water “Go Digital”
- Engagement with Client / Client Confidence
- Improve team communications
Design Collaboration & Coordination
Collaborative Planning
Collaborative Planning - Results
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Collaborative Planning - Output
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Phase 3 - Lime Dosing Trials
- Lime dosing trials to M4
Collaborative Planning - Output
Outcomes – Package 5

- Safe Working (Calmness)
  - Calmness on site (problems solved virtually – not reactive on site)
- De-risk / Improve Programme
  - Traditional Delivery: 12 weeks on site, 360 man days labour
  - DfMA Delivery: 10 days on site, 150 man days (off-site) + 60 man days (on-site)
  - Reduction of 50% out-turn cost (labour)
- Severn Trent Water “Go Digital”
- Engagement with Client / Client Confidence
  - 4D commissioning
  - Digital legacy
- Improve team communications
Thank you & Q+A