

Inspection test plans with BIM360Field

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Inspection test plans (ITPs) and BIM360 Field



The People



The Process



The Technology



Why have an inspection test plan process



H&S



Reduce rework Cost



Reputation



Delay to Programme



Legal



Why use the technology for ITPs?



Less seat polishing, more face time



A Governance tool



Robust record keeping in one central source.



Data

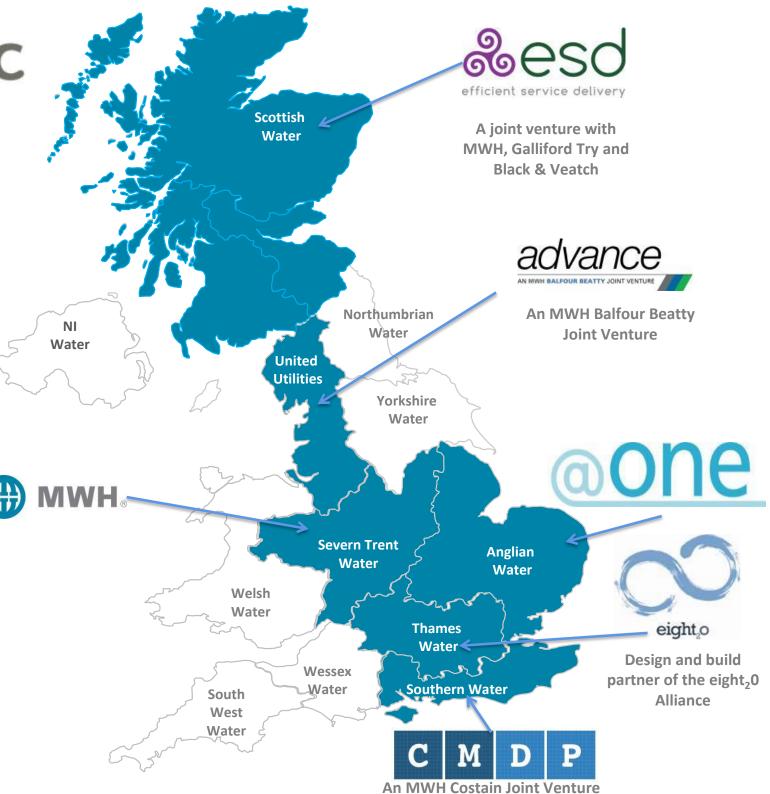












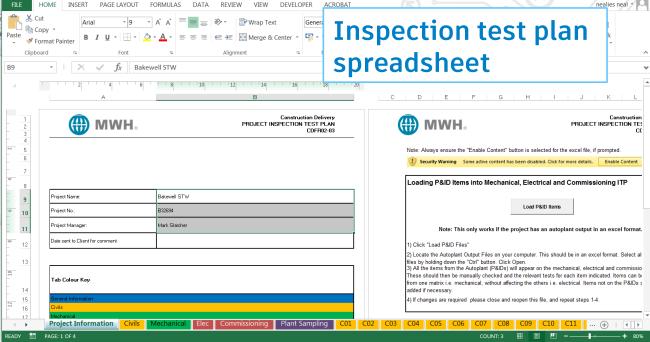
A design led ITP Process

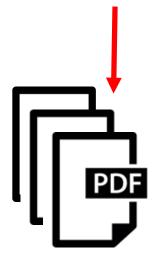


Senior Design engineers Civils, Mechanical, Electrical







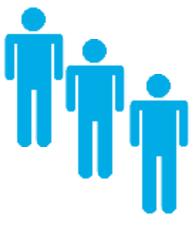


PDF ITP

- Civils
- Electrical
- mechanical

The design led ITP generation process Paper based

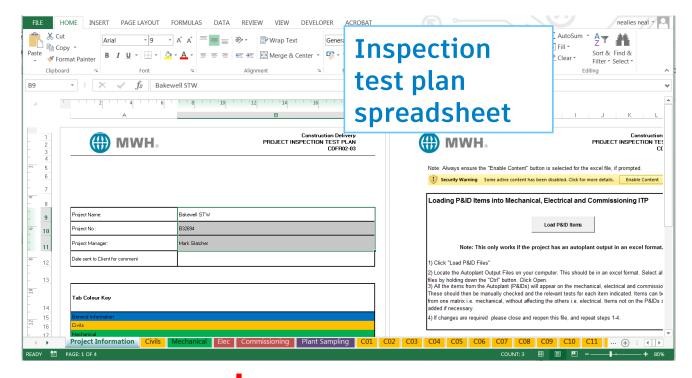
Site engineers





Senior Design engineers Civils, Mechanical, Electrical





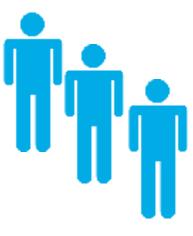


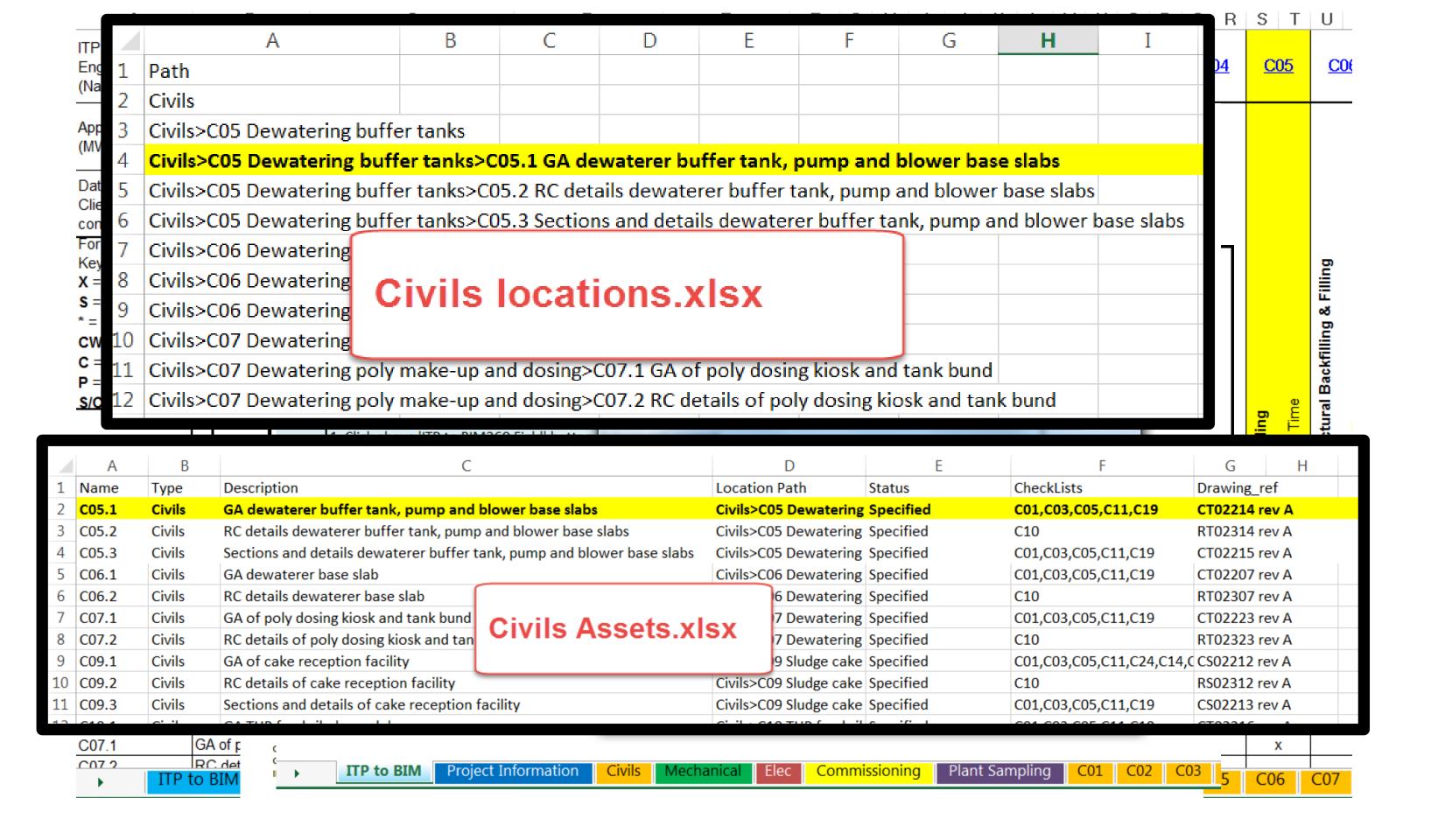
BIM360 ITP

- Civils
- Electrical
- mechanical

The design led ITP generation process BIM360F Digital

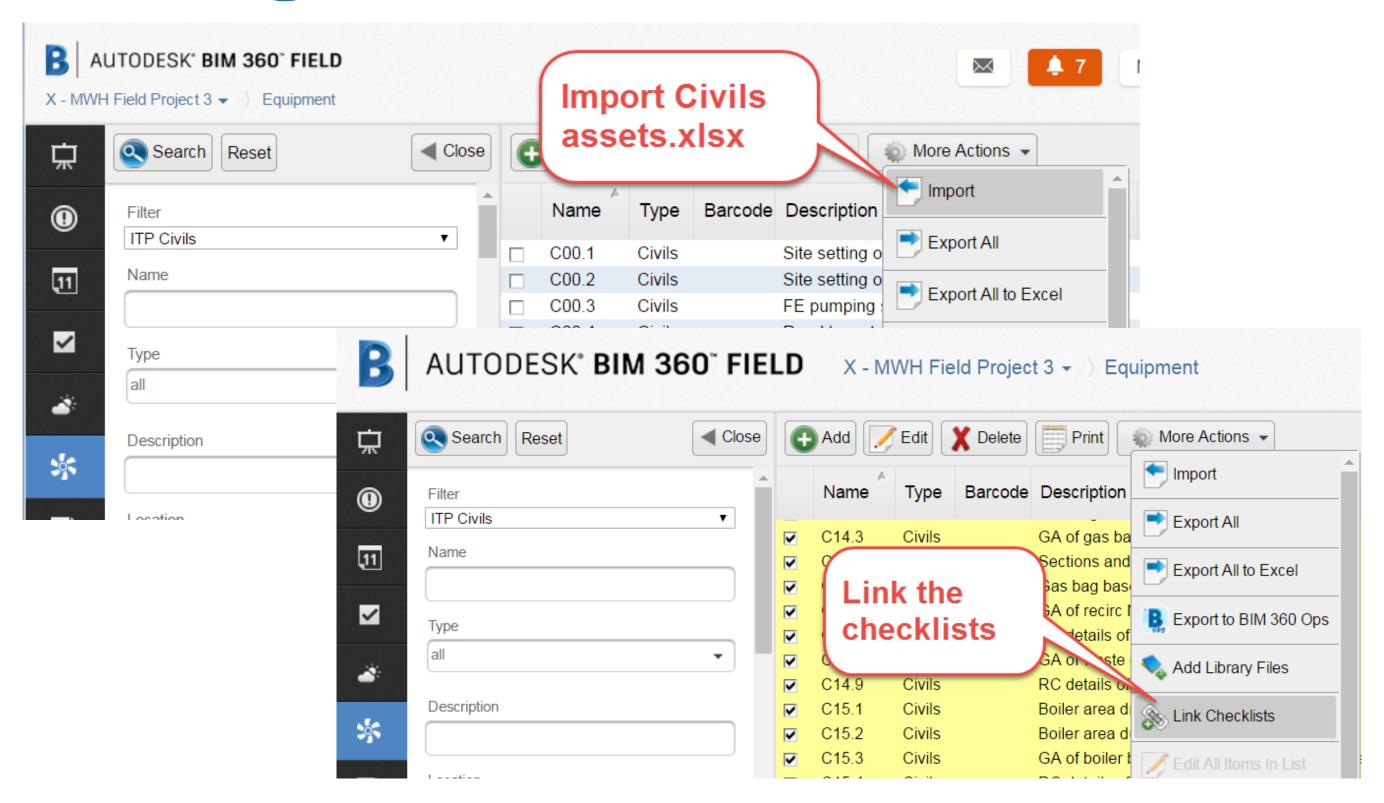
Site engineers







Loading the BIM360F ITP



ITP execution with BIM360F on the IPad

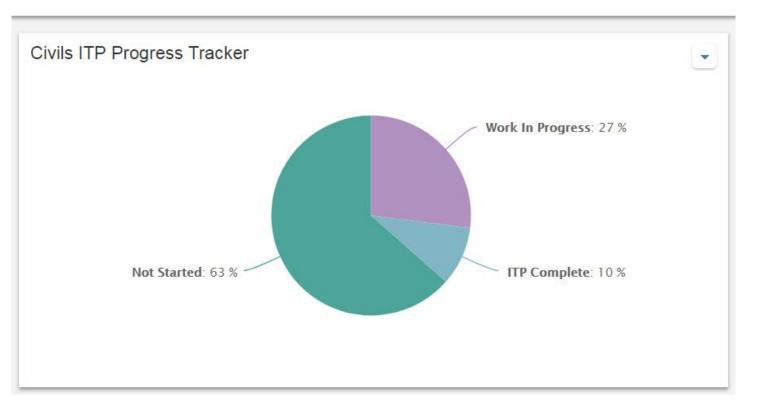


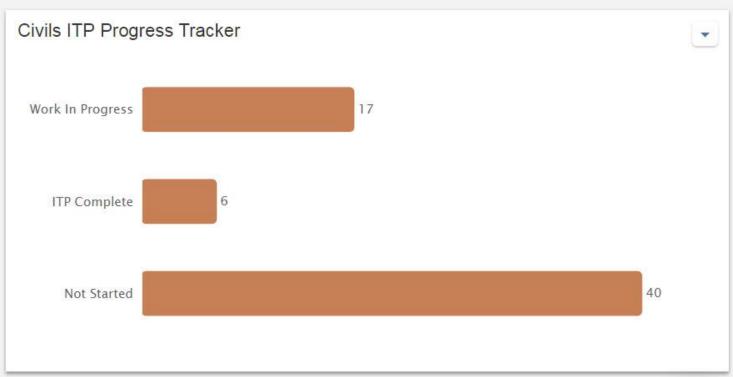


Live ITP progress Dashboard

 High level Management dashboard shows ITP progress

 WIP, Complete, Not started for each ITP element.







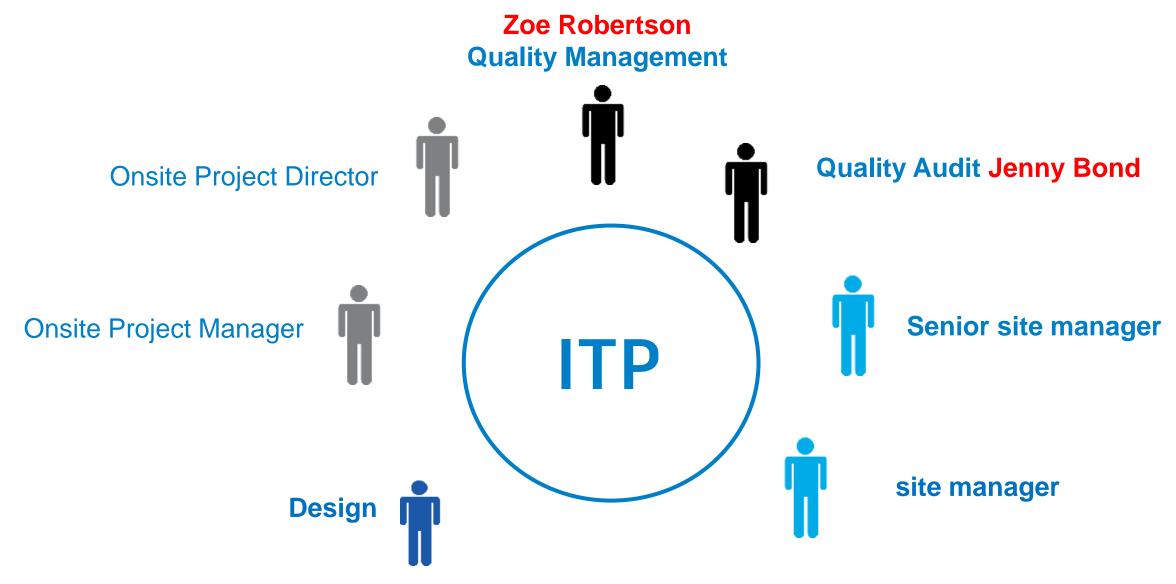
Online digital ITP records

AUTODESK* BIM 360° FIELD X - MWH Field Project 3 →) Equipment									
Add Edit Delete Print More Actions -									
	Name	Туре	Barcode	Description	Status	Checklists	# Checklists	Drawing_ref	# Open Issues
	C01.2	Civils		GA primary sludge screen base slab	Not Started	C01,C03,C05,C11,C19	1	CT02228 rev A	1
	C03.1	Civils		Sludge screen area duct layout	Not Started	C01	0	CC02159 rev A	0
V	C05.1	Civils		GA dewaterer buffer tank, pump and blower ba	Work In Progress	C01,C03,C05,C11,C19	4	CT02214 rev A	1
	C05.2	Civils		RC details dewaterer buffer tank, pump and blo	Not Started	C10	0	RT02314 rev A	0
	C05.3	Civils		Sections and details dewaterer buffer tank, pur	Not Started	C01,C03,C05,C11,C19	0	CT02215 rev A	0
	C050	Civils		Tank	Work In Progress	C01	1	12345 Rev 1	0

- Detailed completion status.
- NCR (Non conformance report) data.



MWH Severn Trent ITP Governance





A tip on muscle memory and training people on something new.

- Muscle memory is nothing to do with Biceps
- 10% Conscious thought Vs 90% subconscious memory
- How to commit from conscious to unconscious.
- Repetition, Repetition, Repetition, Repetition.



Next step - ITP defined in model

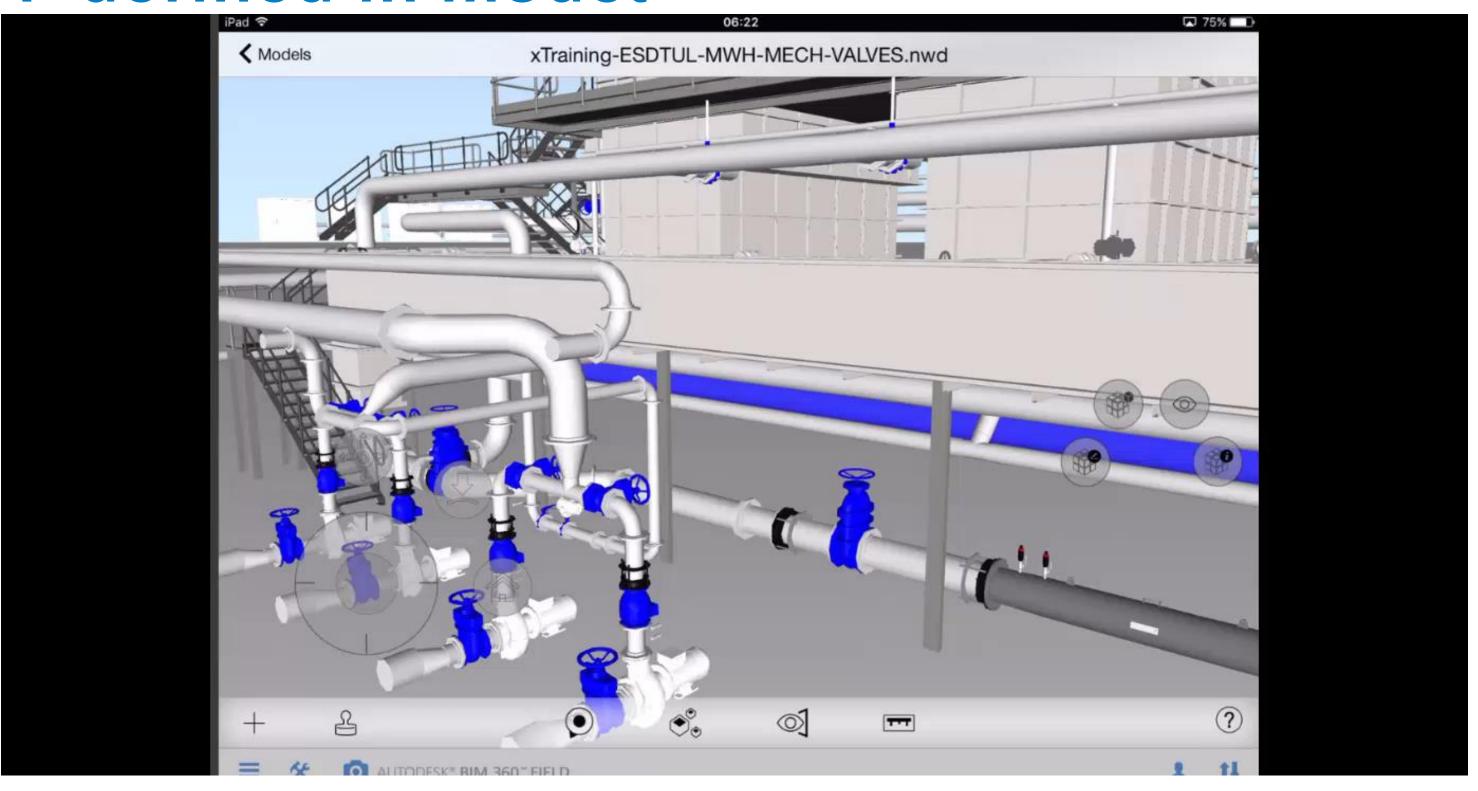
Model driven ITP execution

 Electrical + Mechanical families with standard checklists defined.

 Full digital asset handover from design/construct to O&M



ITP defined in model



In Summary

An innovative way to embed the ITP in the BIM360Field

People, Process, Technology



- Payback
 - Less admin more supervisory face time
 - Robust record keeping with photos
 - Reduce margin fade
 - Data





Make anything.

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