

PWI – Railway Infrastructure Delivering Digitally

Delivering digital assurance on MMLe

<https://www.thepwi.org/delivering-digitally>



90 Second Overview



Simon Skinner
Head of Engineering
Powerlines Group



"7 million checks were successfully completed using eviFile to fully achieve compliance"

"The big game changer for us is live data on project health."

- How many being installed?
- How many being signed off?

It's so much more powerful utilising all of that data in real time."

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Download our Rail Brochure <http://evifile.com/r>

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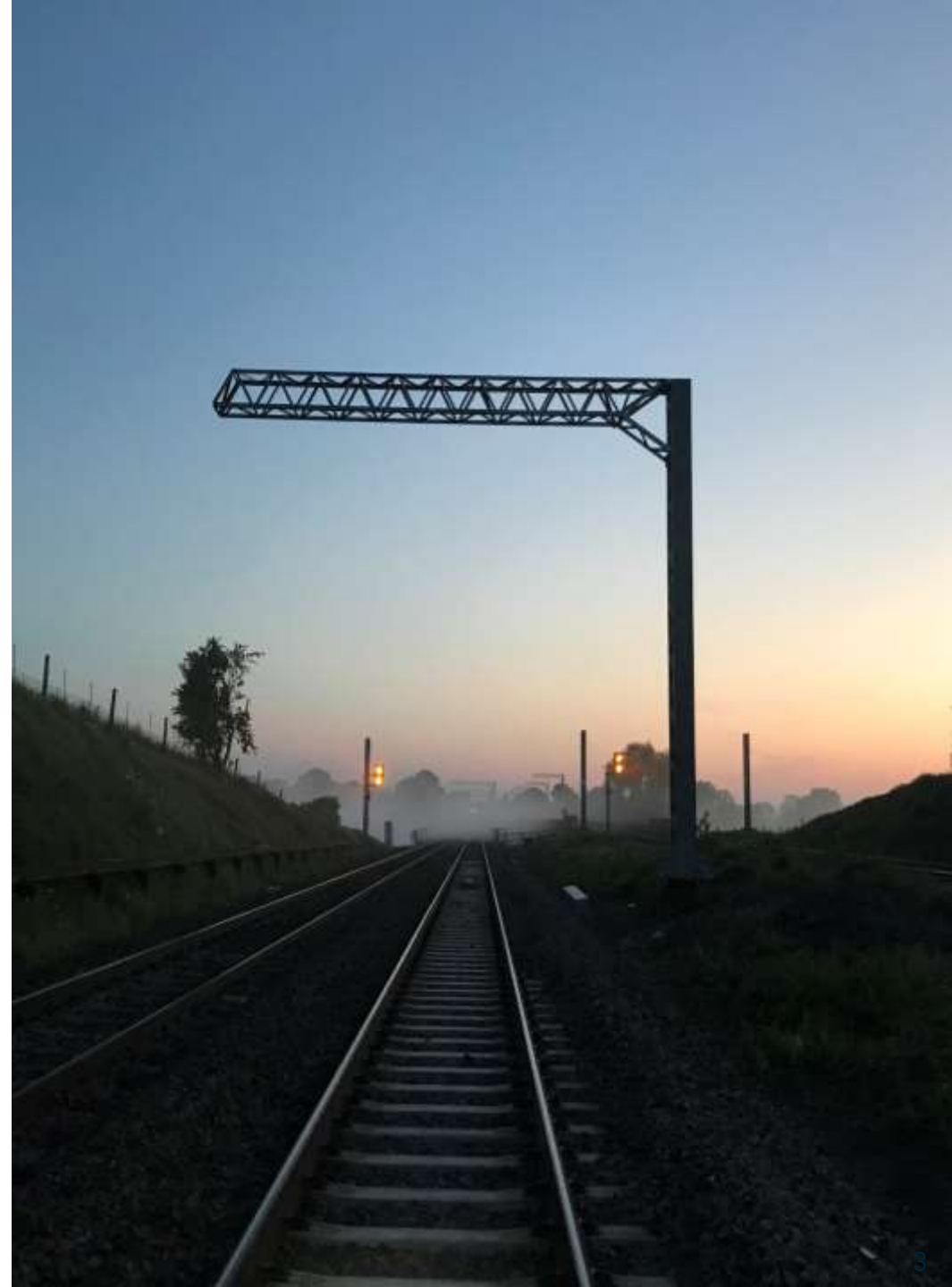


Art of the Possible

eviFile provides a digital progressive assurance solution for all rail disciplines, from the simple to the highly complex. Currently working with Alstom UK, SPL Powerlines, BB, VolkerRail, TRU East / West / Central and Network Rail.

Through eviFile's no code control panel, digital eviFile solutions can be set up in days to digitise an entire rail project including;

- **Overhead Line Electrification Construction and Modification**
- **Signalling**
- **TPWS Replacement – Chiltern**
- **P&D, Bonding, Relay Reservicing**
- **Track / Survey works**
- **Site diaries**
- **End of Shift Reports**
- **RACE Card**
- **Possessions & Blockade Management**
- **Toolbox Talks**
- **Audits**



Contractor Behaviour



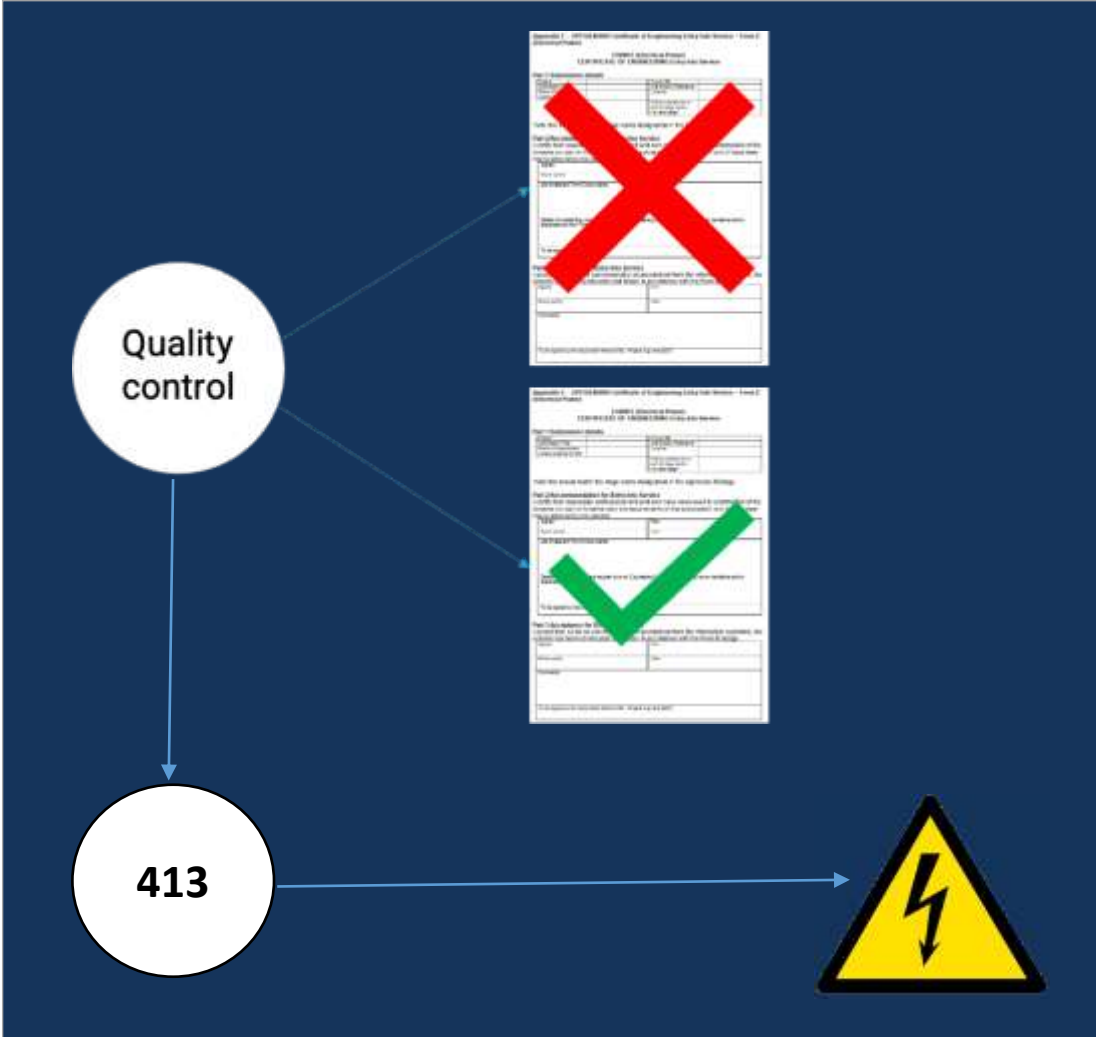
MUST DO
NOT NICE TO HAVE



Quality Assurance



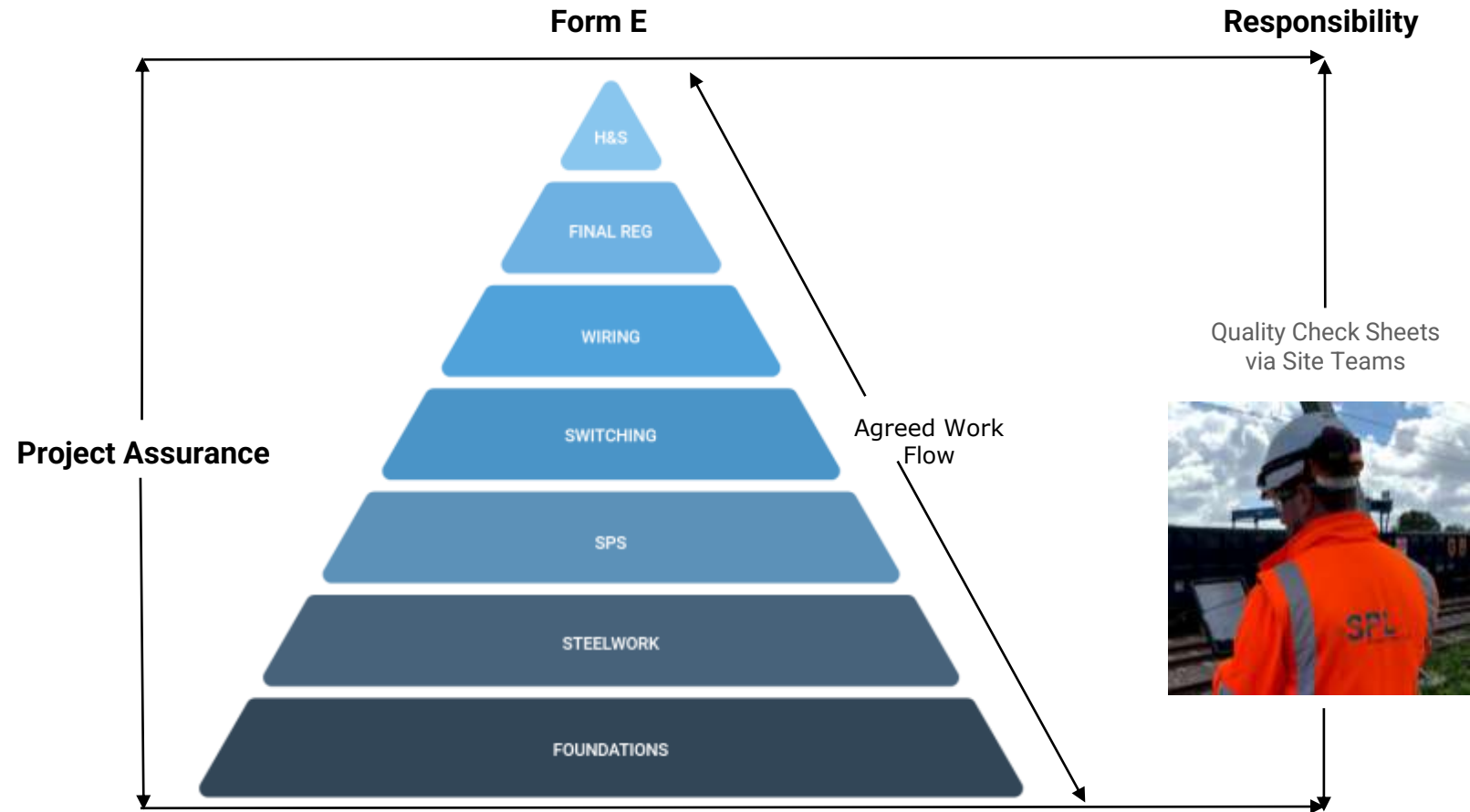
Quality Assurance Discipline



OLE Discipline Assurance - Quality Check Sheets



146

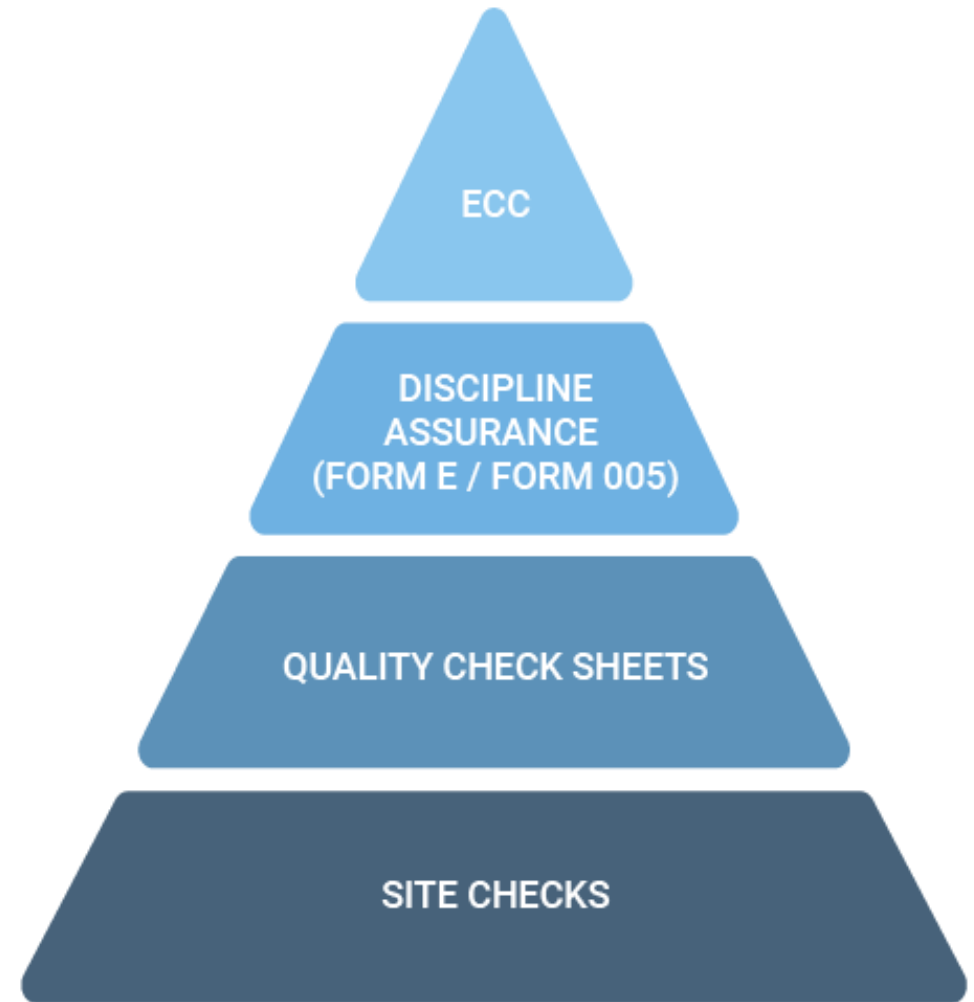


Assurance Quants - Why Electronically?

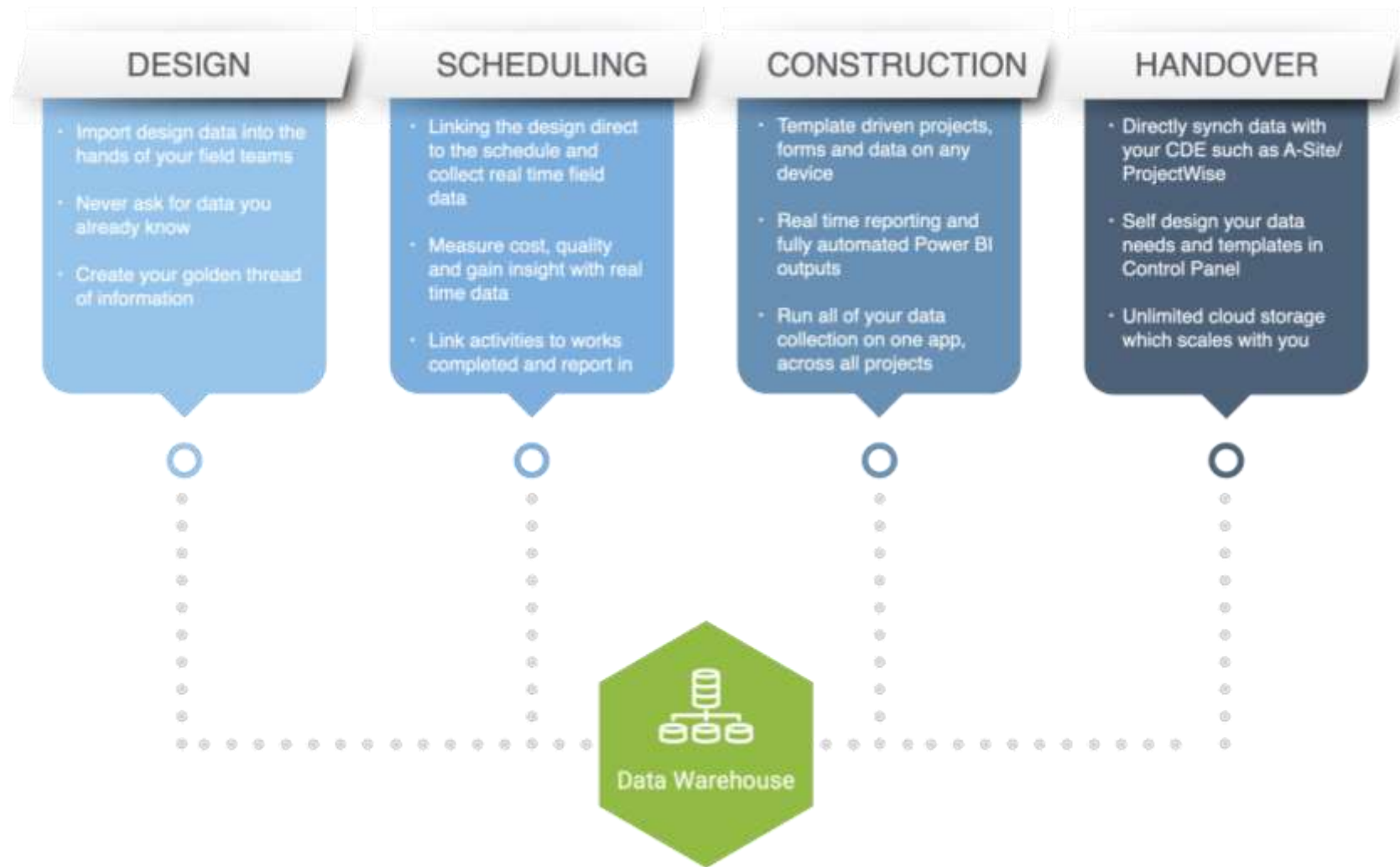


Foundation Installation
2321 Foundations QCS
40 Checks / inputs per QCS
Totalling 92,804 Checks

59



How do eviFile digitise this process?

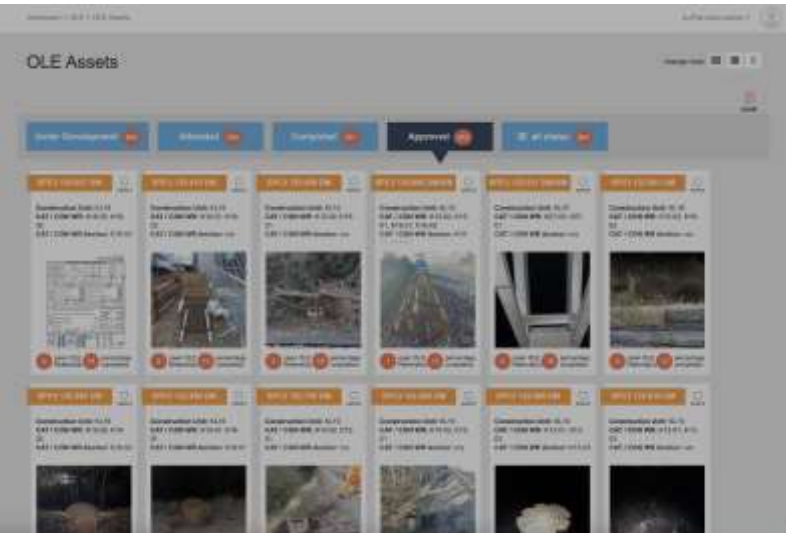




eviFile Data Integration



eviFile Data Integration - What is it?



Creation of QCS sheets and closing out to evidence completion of works (counting complete rather than installed!)

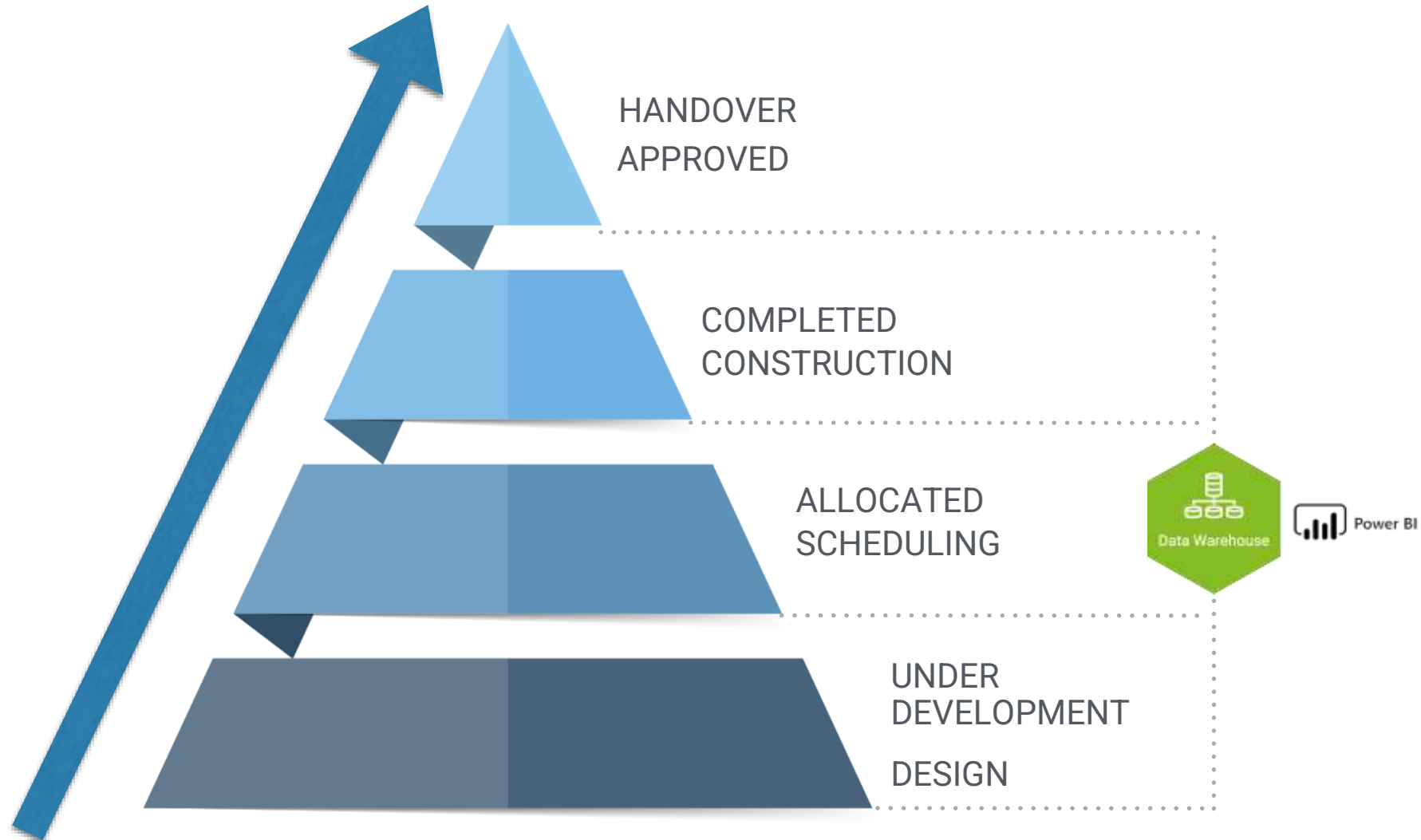
Management of all “referrals” (snags)

Using Live data, POWERBI is used to identify “QA” metrics and support dashboards to support “health of the project”

Eliminates individuals holding excel trackers. All information is in one place!



eviFile Data Integration - QCS Assurance



Contractor Head Count – Driving out Cost



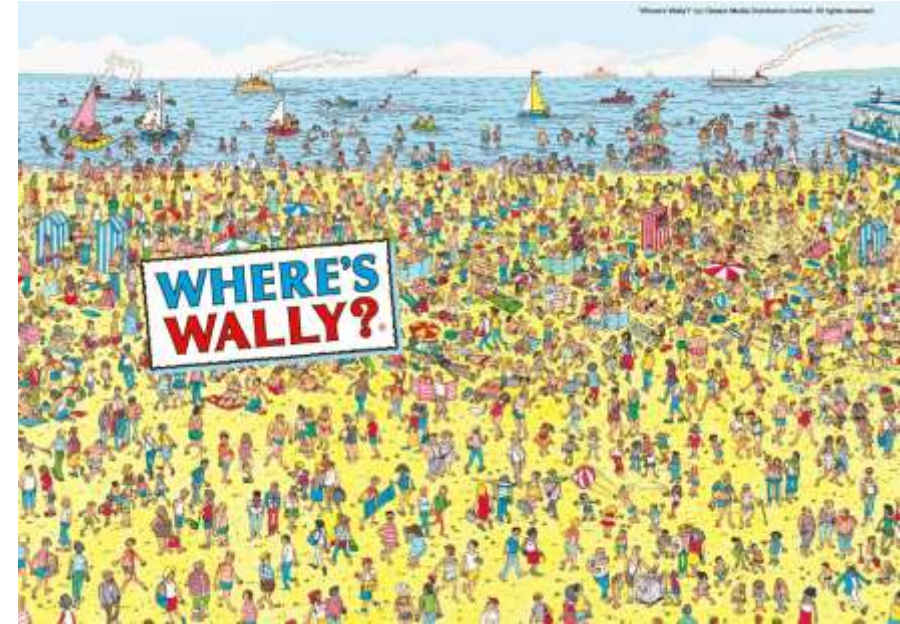
REDUCE COMPLEX PROCESS



REMOVE COSTLY MANUAL APPROACH



REPLACE WITH TECHNOLOGY

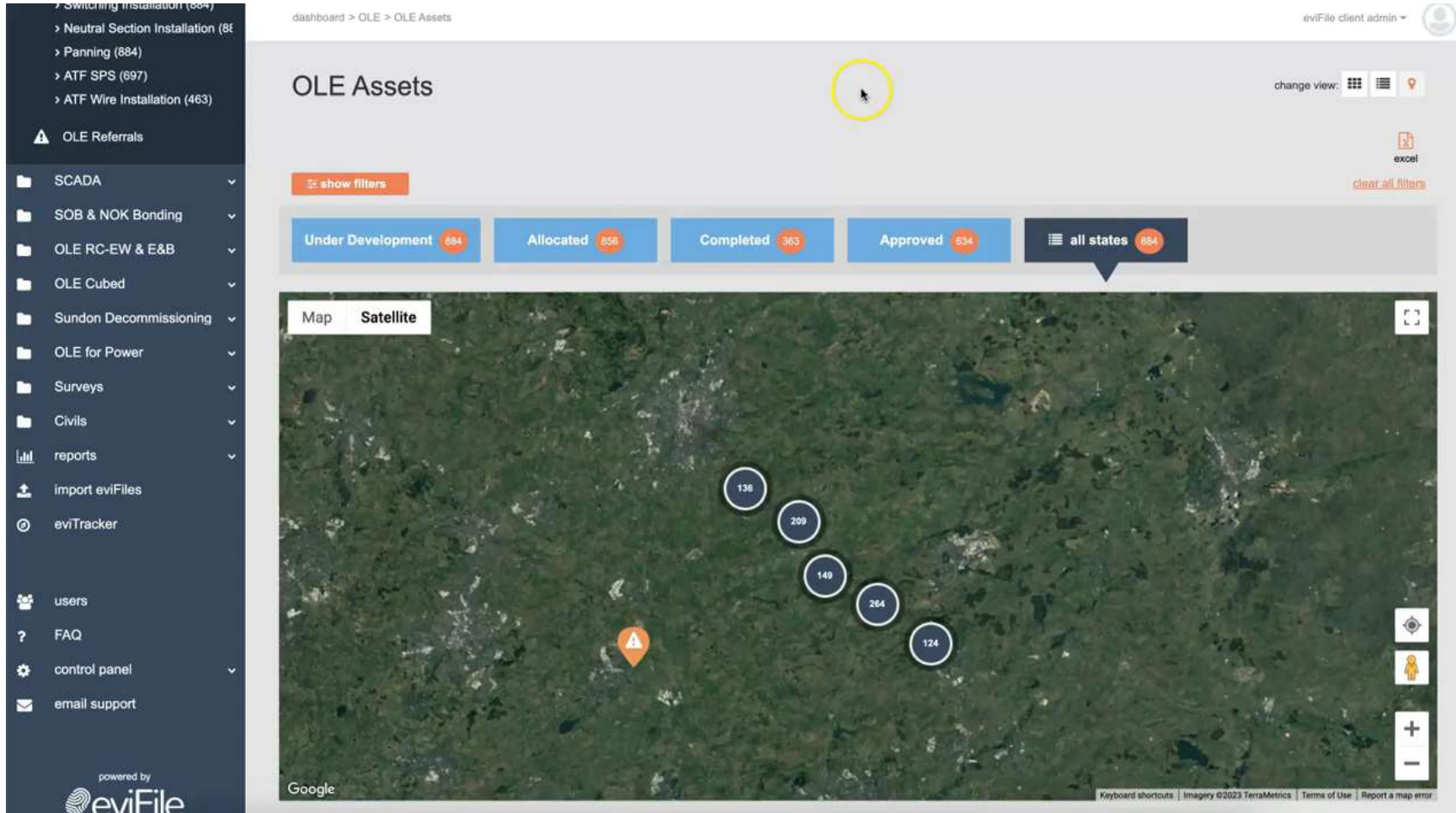




Project Health QA Metric



Interactive – Overall Dashboard



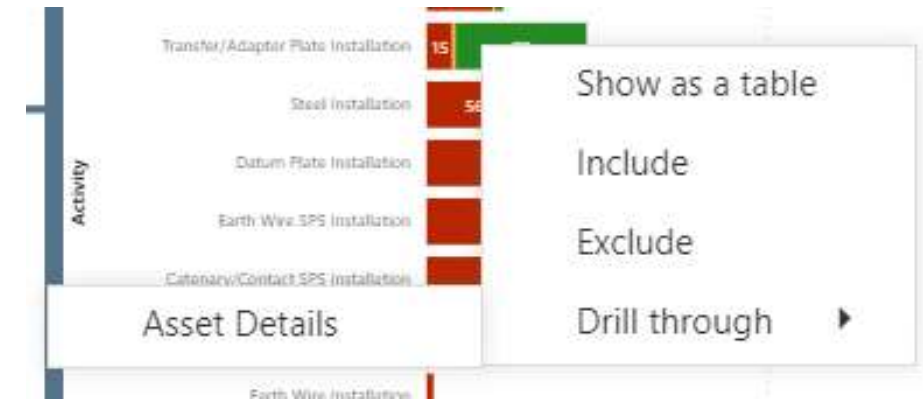
Providing real time project progress, issue management and insights.

Utilising eviFile automates reporting making it easier to manage issues, understand challenges and referrals and maximise time on site.

PowerBI provides access to key project information any place, at any time.

Interactive Metrics – Granular Dashboards

The POWERBI dashboard has an interactive function* that allows the high level numbers to be reflected as actual QCS items**, followed further by individual line items from within the QCS itself***



**

CU	Asset Name	Asset Type	Activity	Status	FormName-Specific	QCS Progress	Updated By	DateUpdated
KL01 - Fasts	SPC3 116.709 DF	KO1A Assets	Transfer/Adapter Plate Installation	Approved	DF Mast-B2-1 Transfer Plate QCS - TTC	Approved	Greg Smith	16/08/21
KL01 - Fasts	SPC3 117.229 DF	KO1A Assets	Transfer/Adapter Plate Installation	Approved	DF Mast-B2-1 Transfer Plate QCS - TTC	Approved	Patrick Thompson	19/07/21
KL01 - Fasts	SPC3 117.281 DF	KO1A Assets	Transfer/Adapter Plate Installation	Approved	DF Mast-B1-2 Pile Cap QCS - Style 2	Approved	Patrick Thompson	20/07/21
KL01 - Fasts	SPC3 117.342 DF	KO1A Assets	Transfer/Adapter Plate Installation	Approved	DF Mast-B1-2 Pile Cap QCS - Style 2	Approved	Patrick Thompson	20/07/21

AssetName	Activity	Name	FormName-Specific	Code	Description	Comments
SPC3 116.709 DF	Transfer/Adapter Plate Installation	ATTENTION!!! PLEASE CHECK QCS PROGRESS BEFORE EDITING THIS FORM	DF Mast-B2-1 Transfer Plate QCS - TTC	B2.0.1	Allocated	Greg Smith 04.01.21
				B2.0.2	Completed	John Day 24.01.21
				B2.0.3	Approved	Tim Young 19.02.21
		Transfer Plate QCS - TTC	DF Mast-B2-1 Transfer Plate QCS - TTC	B2-1.1	Road/Foundation Reference	
				B2-1.2	Cross section revision	
				B2-1.3	Allocated transfer plate design reference	FCR35 FCR35 C03/B02/001 installed

Conclusion

- The Digital Journey isn't just for some but for all;
- Digital assurance brings a right First Time culture, increase confidence in build and reduces commercial risk for rework;
- Digital assurance, blended with dashboard metrics gives an instant status of project health metrics;
- Nobody knows they want it until they get it;
- “eviFile moves assurance to the forefront of Network Rail’s Entry Into Service (EiS)” – Ed Arnold – Volker Rail





Any Questions?

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