

Form Ref: HSI-10

Smart Permit to Dig Audit Process – Blue Star Item

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Awarded for Exceptional Performance or New Initiative not widely used on other sites

Project A14	Principal Contractor (PC) A14 IDT	Date of Inspection 23/06/2021
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Description of Blue Star Item

The A14 Cambridge to Huntingdon Improvement Scheme requires a permit to dig to be produced when ground is broken on site. The A14 have used a Permit to Dig (PtD) system which is primarily to prevent a utility strike since April 2018. The new online permit system replaced a manual system to raise and produce a permit to dig. The new system was designed to provide a simple, secure automated database and permit register that contains a notification function. Prior authorisation is required for the system to be accessed. The system itself saved the project £2.4m and then a further £622k by reducing the causes of strikes.

In October 2020 a new metric was introduced as part of CPF, the project was now required to complete audits on at least 10% of permits raised. This requirement is in additional to the project having to conduct regular Target Risk monitoring (TRM) audits of breaking ground. The A14 wanted a solution that met both criteria's without increasing the workload but ensured that safe working was still paramount.

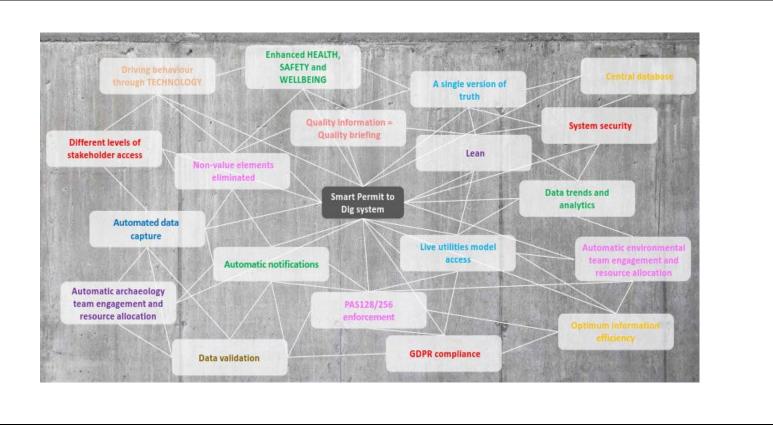
- The H&S Director, permit coordinator, Utilities Manager, SPTD developer and Lean Lead concluded that the best solution was to use the SPTD system.
- We combined the audits, reviewed the requirements, and adapted the questions.
- We automated an online audit form that collated all the permit data, only allowing the selection of live audits and set the answers to the questions to automatically pass or fail the audit depending on the question specifications.
- All the data is automatically uploaded to the excel spreadsheet as mandated by HE to use as reporting for the metric and to populate the observations tracker.
- The data is also presented in a live Power BI report so that the team could track progress daily.
- The H&S, environment and Operations teams including Construction Managers and Lean Lead were trained in how and why to conduct an audit. Ensuring the workload was evenly spread.
- The audit continues to be included in the projects monthly TRMs and has become a Business-as-Usual activity.



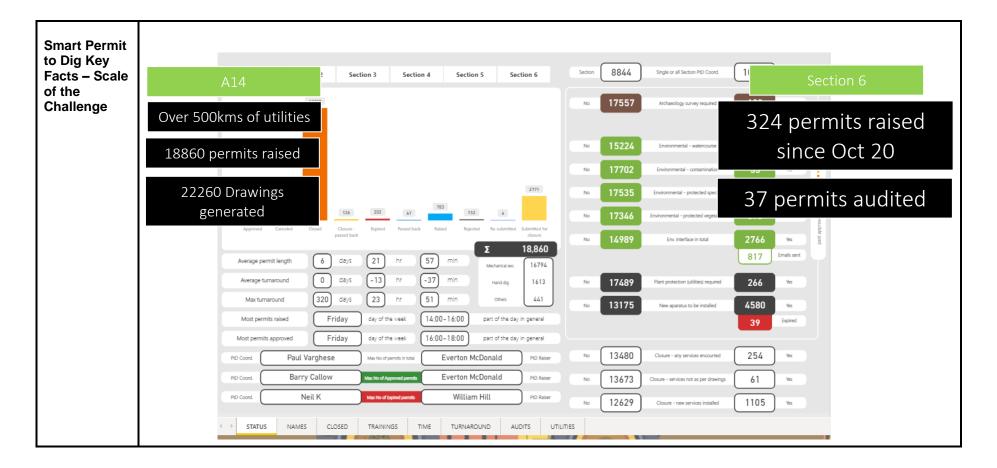
Benefits of Blue Star Item	 Efficiencies of process delivery – over 19,000 permits to dig have been raised to date on the A14 project Ease of audit delivery owing to high levels of automation Accessibility of audit via software system Monitoring of audit delivery via software – tracking of actions (rating pass / fail) Improved reaction time to identified issues associated with the permits and implementation of corrective action Key trends can be discovered through the collected data and acted upon as root cause corrective actions. Reduction in site access to perform further visit for the audit delivery = reduced exposure to site hazards System has been adopted on the M42 through shared learnings within the sector.
Details and Cost of any Specific Product	No associated on-costs deploying or maintaining the system



What does the Smart Permit to Dig Deliver

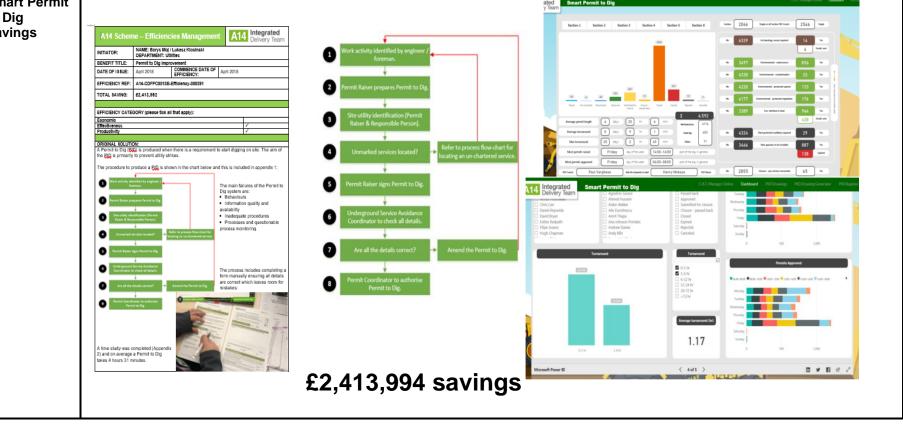






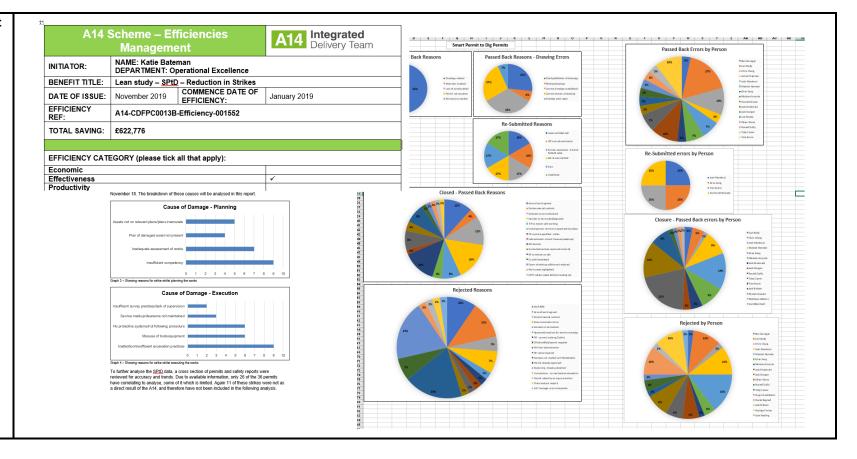


Smart Permit to Dig Savings

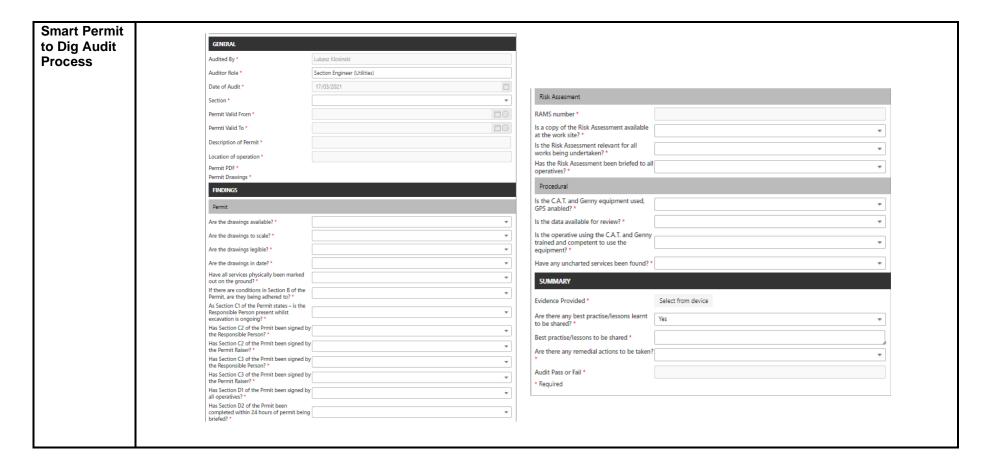




Smart Permit to Dig Lean Study – Reduction of Service Strikes









Smart Permit to Dig example of summary / actions page





