

DSAP Action Plan

June 2024

National Grid Electrical Transmission

nationalgrid



DSAP Action Plan Update: Introduction

Our action plan outlines progress we have made against our digitisation strategy. From the publication of our updated strategy in March 2024, and based on feedback on previous versions of our action plan, we have updated the format of this action plan update. The first section includes updates on actions published in December 2023. The second section shows the actions we are taking and how they link to our objectives and the products and services we are delivering. Future updates will follow this format, as we believe it better communicates the progress we are making.

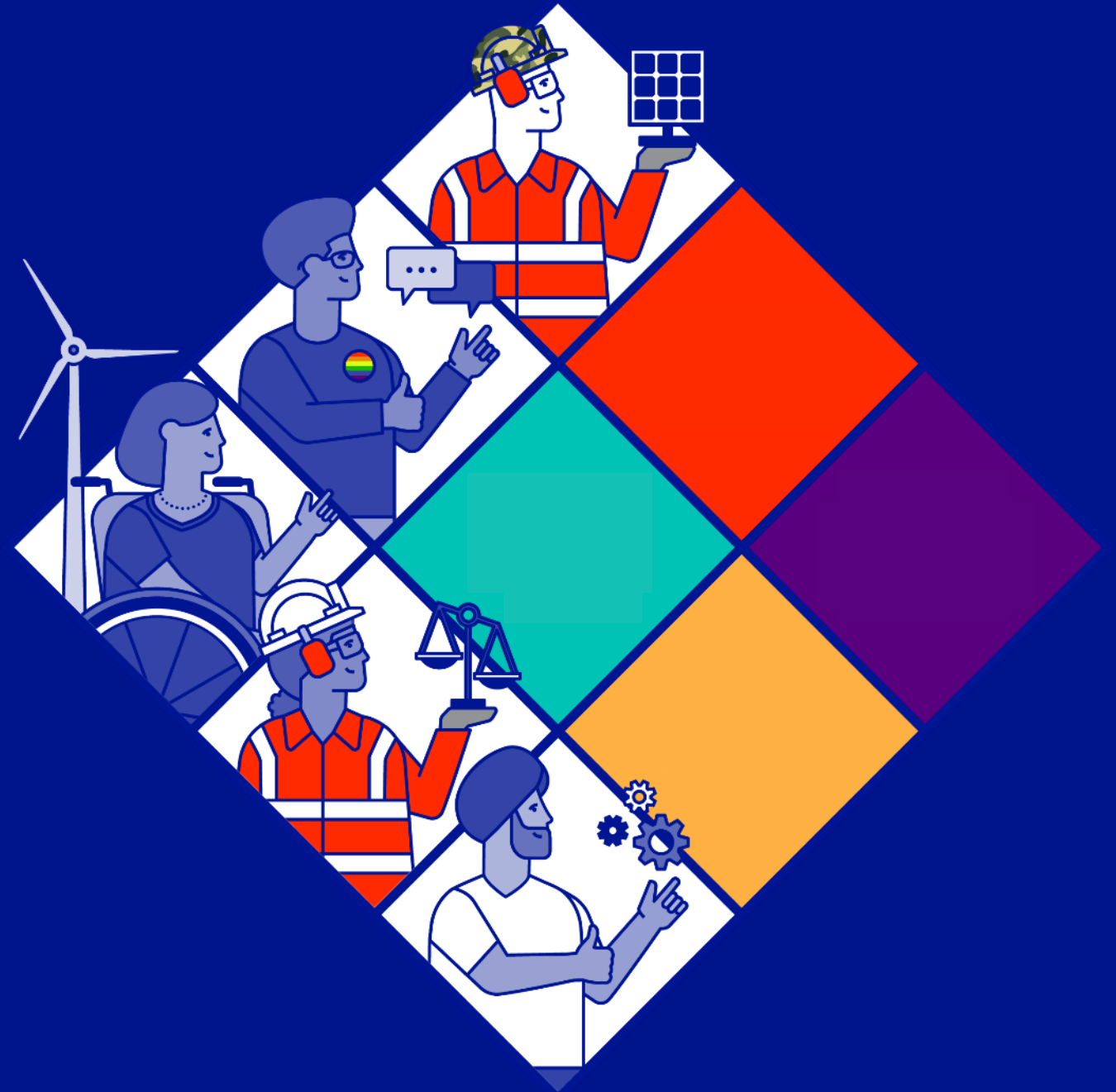
We hope you find this update useful, and we welcome any further feedback.

Sarah Milton-Hunt

Electricity Transmission CIDO

DSAP ACTION UPDATE

Updates to Previous Actions



DSAP Actions – Updates to Previous Actions

#	Theme	Action	Progress Made	Status	Next Steps
101-1	Whole System Stakeholder Engagement	Develop and maintain a digitalisation focused stakeholder engagement strategy to target key personas and engage them in our plans.	Personas to represent our stakeholders and users have been collated. The use of personas has been incorporated in product development processes.	Complete	N/A
			Embedding stakeholder engagement within all product development is ongoing.	Complete	Continue to track progress to ensure all product and services developed include stakeholder engagement under action 101-2.
101-2	Whole System Stakeholder Engagement	Establish a stakeholder engagement log linking objective feedback to the development.	Phased deployment of our SRM platform continues with an aim to integrate the stakeholder engagement log closely with our product development process ensuring we link stakeholder feedback directly into the product development cycle.	Open	Embedding this way of working is still ongoing to ensure all product and services developed include stakeholder engagement
			Training is complete for users within External Affairs in SI and Tractivity has been linked to the more recent project webpages that went live in May 2024. Materials to support the implementation have been produced and circulated.	Open	Wider roll out planned in line with project site go-lives. Materials to support implementation to be reviewed.

DSAP Actions – Updates to Previous Actions

#	Theme	Action	Progress Made	Status	Next Steps
101-3	Whole System Stakeholder Engagement	Increase stakeholder engagement for the next release of the digitalisation strategy and action plan including enhanced data best practices internally and externally.	<ul style="list-style-type: none"> - Final determination on the Fabric Reopener was received on the 28th May 2024, with a successful outcome. This has enabled us to begin the mobilisation of the Data Fabric program. - See actions against our Roadmap for updates on how we will develop our data sharing capabilities. 	Closed	N/A
			<ul style="list-style-type: none"> - Continued engagement and alignment with the ENA on Data Products and Standards - Taken a lead role in the ENA Standards and Interoperability Subgroup - Presented NGET data strategy to ESO and ENA partners - Engaged with NESO on the Data Sharing Infrastructure (DSI) pilot and have agreed to play an active role in the MVP for the DSI. 	Open	<p>Understand the implications of the DSI Pilot and the level of funding and engagement needed to provide the first data product.</p> <p>Explore the implementation and practical steps to deliver the DSI infrastructure in line with NGET Architecture and Data Fabric Implementation</p>
			Ensured all products (Digital and Data) are bound to a Product Contract improving product definition, ownership, model and quality.	Closed	Implementation of the Fabric to Automate and Accelerate Contract Creation and subsequent quality
			Have presented early prototypes of Regional network plans to DNO's across May/June 2024 for T3 planning. Feedback from stakeholders has been gathered feedback and now to now identify how to operationalise the data that feeds into the tool.	Open	Prioritise data products to operationalise the data needed to make visualisation of the network a scalable solution for stakeholders.
			In 2023, we organised a series of regional listening events across the country to actively engage stakeholders. These sessions provided a valuable opportunity for us to understand stakeholders' perspectives on key themes, including the scale of the net zero ambition, challenges they are facing, and what they need from energy networks to support their net zero ambition. In May 2024 we discussed our digitisation strategy with DNOs for feedback, and with the ISG in June 2024	Open	Continue to engage with stakeholders to inform our T3 plans and next stage of the digitisation strategy.

DSAP Actions – Updates to Previous Actions

#	Theme	Action	Progress Made	Status	Next Steps
102-1	Trusted, Available and Secure Data	Improve internal data onboarding capability for new data sources to enable integrations with media data types.	- Final Determination for the Data Fabric Reopener received 28th May 2024 securing funding for the Fabric Platform	Closed	See actions against our Roadmap for updates on how we will develop our data sharing capabilities.
102-2	Trusted, Available and Secure Data	Allow integration with external datasets to expand on data discovery opportunities.	- Final Determination for the Data Fabric Reopener received 28th May 2024 securing funding for the Fabric Platform	Closed	See actions against our Roadmap for updates on how we will develop our data sharing capabilities.
			- Completed multiple sessions with Ofgem regarding Data Product and content Sharing. - Engaged with NESO DSI and Virtual Energy Network planning to provide direct capabilities and help to influence the future direction for sharing.	Open	Continue to engage and be part of the DSI pilot program to provide first industry sharable data product.

DSAP Actions – Updates to Previous Actions

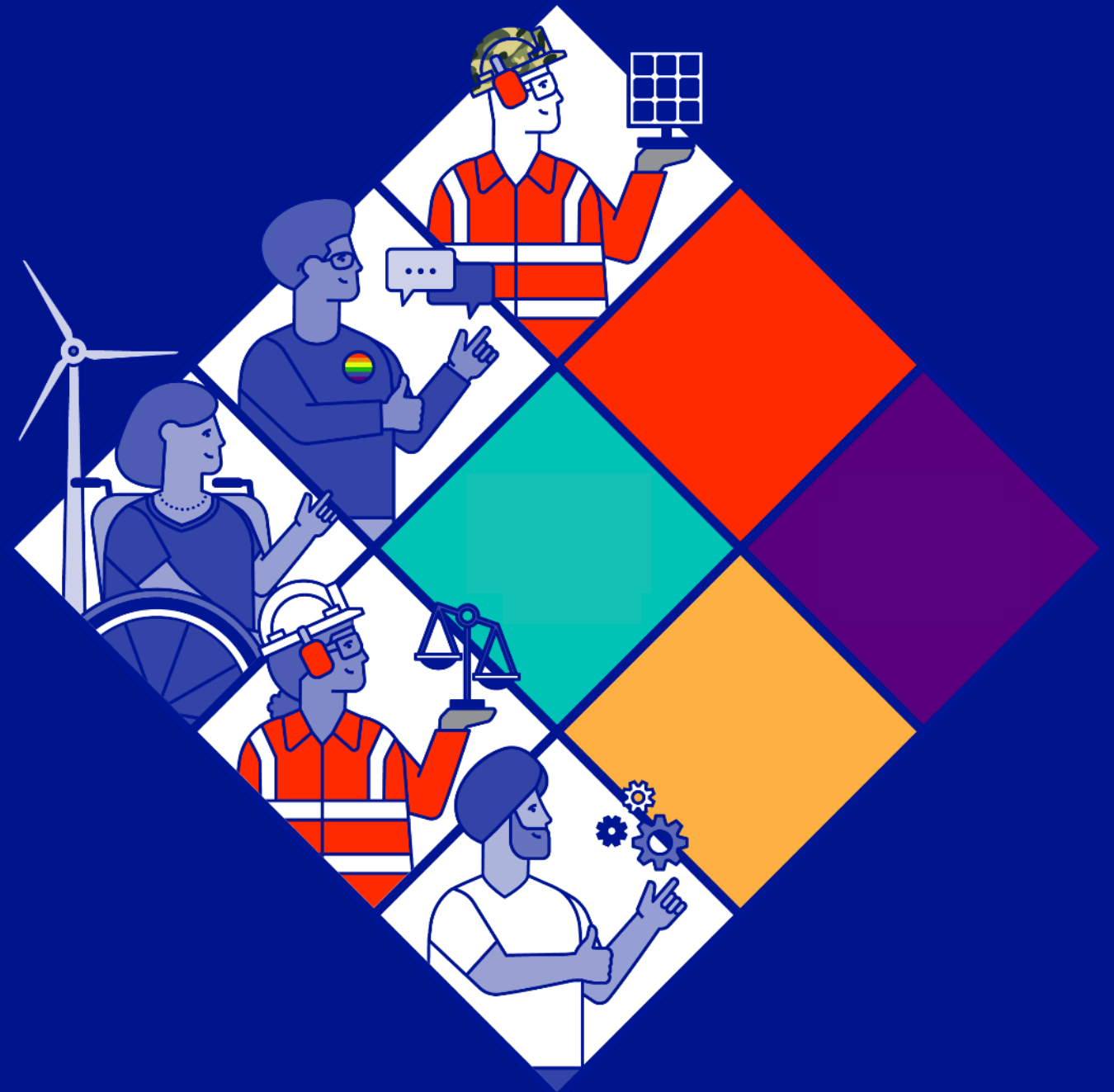
#	Theme	Action	Progress Made	Status	Next Steps
103-1	Trusted, Available and Secure Data	Further develop our internal data catalogue to manage quality, compliance & security through proactive metadata.	<ul style="list-style-type: none"> - Final Determination for the Data Fabric Reopener received 28th May 2024 securing funding for the Fabric Platform 	Closed	See actions against our Roadmap for updates on how we will develop our data sharing capabilities.
103-2	Trusted, Available and Secure Data	Provide an external view of our Data Catalogue to enable stakeholders to understand more on the data available to them and the new types of data needed.	<ul style="list-style-type: none"> - Delivered Interim Catalogue for existing Data Product in preparation for Fabric implementation - Delivered integrated Data Product Contracts within temporary Catalogue in Preparation for Fabric Implementation 	Closed	See actions against our Roadmap for updates on how we will develop our data sharing capabilities.

DSAP Actions – Updates to Previous Actions

#	Theme	Action	Progress Made	Status	Next Steps
104-1	Digital Culture & Ways of Working Embedded in all we do	Adopting new ways of working that enable faster delivery of value for our customers and stakeholders.	Majority of teams now operating using agile ways of working where applicable (there is still a need for linear deliveries) and the focus has now shifted to how we can leverage scaled agile to improve portfolio management across our digital products.	Open	Define and deliver a consistent set of metrics which we can use to measure efficiency/performance across the organisation. Continue to invest in training for our teams.
			Code First Girls cohort onboarded and working in rotation across teams	Complete	N/A
			Complete and reviewing the successes and learnings to consider how to introducing graduates into digital teams.	Complete	N/A
104-2	Digital Culture & Ways of Working Embedded in all we do	Engage with external stakeholders to validate and understand their profiles, data needs, business drivers and value cases.	Work will continue as part of business as usual	Complete	N/A
			Through a multi-channel approach, we have updated our Customer Connection website, adding new content such as news pages, sharing customer connection stories and taking a user centric approach to navigation redesign. We have also introduced Webinars to support our customers through the pre application process.	Complete	N/A

DSAP NEW ACTIONS

New Actions aligned to Roadmap



DSAP New Actions June 2024

Objective	#	Product Description	Stakeholder Value	Progress Made	Status	Next Steps
1. The Great Grid Upgrade – Network Development, Capital Planning & Delivery	1-1	<p>Consenting:</p> <p>We have been working on digital products designed to optimise and streamline the consenting process.</p>	More targeted stakeholder engagement on proposed projects and a visualisation of the future network to support consenting.	Feedback gathering from proof of concepts trialled, is underway for the Consenting capability within our ASTI portfolio. The SRM tool, Tracktivity, has been delivered	Open	Roll out of products trialled as proof of concepts to BAU across the Strategic Infrastructure portfolio, where the feedback validates the value to the consumer has been proven.
	1-2	<p>Supply Chain Visibility & Collaboration:</p> <p>Creating a common data environment (CDE) for the delivery partners on the ASTI projects to enable collaboration and sharing of information across the portfolio.</p>	Greater efficiency of infrastructure builds through a uniformed approach to digital project design and sharing of information across supply chain.	Proof of concepts complete and feedback being gathered	Open	Roll out of a Common Data Environment (CDE) across all projects in the ASTI portfolio
	1-3	<p>Optimised Design and Build:</p> <p>Delivering a Building Information Modelling (BIM) capability to enable collaborative design across the ASTI portfolio.</p>	Greater efficiency of infrastructure builds through a uniformed approach to digital project design and sharing of information across supply chain	Proof of concepts complete and feedback being gathered	Open	Roll out of a Building Information Modelling (BIM) capability across all projects in the ASTI portfolio and ensure a plan is in place to make the most of the BIM capability in asset operations and the asset total lifecycle

DSAP New Actions June 2024

Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
2. Delivering for our customers – Enhanced Customer Experience	2-1	<p>Connect Now: Research Assistant</p> <p>Our publicly available ConnectNow Research Assistant has made available regional information providing a further channel for our customers to access important content.</p>	Providing regional information on available connection points	Conducting customer research on the information needs of customers	Open	<p>Complete customer research on information provision to understand customer needs to inform future development.</p> <p>Continue engagement with ESO on alignment of external facing tools</p>
	2-2	<p>Customer Insights, Intelligence & Customer Feedback</p>	<p>This benefits our consumers through structured simulation features that enable us to fairly enact our newly formed policies to offer accelerated connections to customers.</p> <p>Our stakeholders can explore deeper insights through those capabilities to gain further intelligence on the customer and ultimately enable us to construct effective business plans and strategic connection offerings based on customer behaviours and evolving conditions.</p>	Advancing with four data products released, enhancing our understanding of customer behaviours and opportunities. These products, leveraging machine learning, provide insights that inform our policies and enable accelerated customer connections. Stakeholders can utilize these insights for strategic planning and tailored business offerings based on evolving customer patterns.	Open	<p>Continued development of the data products.</p> <p>Aligning to the Connections Reform project, which targets reducing connection timescales and boosting transparency, we plan to enhance CX through new technology-led experiences.</p>

DSAP New Actions June 2024

Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
3. Intelligent Asset and Network Management – Asset Life Cycle Management	3-1	Digital Work Management: Digital Work Management solution to improve productivity for our operational teams.	Supporting efficient delivery of asset maintenance work to support the UK's ambitious net zero targets and guarantees value for money for consumers	Product fully operational, moving to maintain as business as usual.	Complete	N/A
	3-2	Digital Asset Management: Leveraging digital to gain a deeper understanding of our asset performance which is vital to making optimal investment decisions.	Enterprise asset management tool which can support our asset management strategy now and in the future.	To have a clear roadmap to decommission Ellipse our current asset management tool.	Ongoing	We will be significantly through the project to build our new enterprise asset management capability. We will have established training, change management and champions' network. Foundational capabilities of future proofed asset management system.
	3-3	Intelligent Substation: We are developing an intelligent substation architecture to transform its operations and meet the needs of a changing market and net zero goal.	Continued high network reliability, safety and resilience.	Updated guidance material to support technical specifications. Having a clearer view of the technical requirements to support the growth of the network.	Ongoing	To complete trials of virtualised protection and control and establish next areas of the blueprint to test and validate.
	3-4	IoT: Our Internet of Things platform will enable the collection of asset performance and condition data.	Continued high network reliability, safety and resilience. Lower operating costs for running the network	Work ongoing to establish a proof of concept by weighing up several different options around connectivity and managing the data returned from sensors.	Ongoing	Establish the best connectivity options to enable the sensors to return data for analysis. The optimal method for returning sensor data in the organisation to inform asset condition monitoring will then inform a roll out plan.
	3-5	SCADA: We are building a new Supervisory Control and Data Acquisition (SCADA) system to support the separation of the NGET and ESO businesses. SCADA provides connectivity between operational sites and control centres to allow the operational management and control of the Electricity Transmission Infrastructure.	Continued high network reliability, safety and resilience.	New Data Centres are progressing well and work ongoing in line with the required CNI Infrastructure and Networks. Data migration is ongoing.	Ongoing	Completion of first Data Centre and relevant Network connectivity to enable System deployment by supplier .

DSAP New Actions June 2024

Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
4. Cross-Cutting and Interoperability – Data and Intelligent Planning	4-1	Platform & Priority Data Products	Greater transparency and visibility of business and regulatory performance. New Data Products and delivery of industry initiatives.	Final Determination for the Data Fabric Reopener received 28th May 2024 securing funding for the Fabric Platform. Interim data product catalogue developed for internal use.	Open	Platform - Conclusion of Procurement for Data Fabric to be completed (June 24). Selected Vendor Software Mobilisation Planning and Implementation to start in summer 2024.
	4-2	Future Data Products	Greater transparency and visibility of business and regulatory performance	Standing up a team to complete discovery on Future Data Products (Performance).	Open	The definition of the future Performance Reporting products defined, and the Minimal Viable Product determined..
	4-3	Strategic Network Modelling Long term regional network strategy capability - automating and machine learning and visualisation for regional stakeholder engagement for network strategy.	Improved network design and delivery of work.	Started discovering in how to increase automation our existing network planning and design capability. Developing a data product that will automate and improve scripting time for power systems analysis. Discovery to identify process automation improvements for thermal line ratings. MVP of strategic planning scenario modelling feature in intelligent planning to assess options for delivery of work	Open	Complete discovery work and define first set of products to meet the needs. Review impact of automation of power scripting and define next opportunity for great efficiency. Engage with other TO's and ESO to define industry requirements for digitally interacting with the ESO outage planning product (Enams). Continue building and testing with our users and stakeholders
	4-4	Portfolio Management	Improved coordination of the delivery of work on the network.	Progressing discovery to identify existing capabilities and how to consolidate into a unified capability for the organisation	Open	Define a roadmap that will deliver a unified platform for Portfolio Management for the organisation

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