DSAP Action Plan
June 2025

National Grid Electricity Transmission

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DSAP Action Plan Update: Introduction

Our action plan details the progress we have achieved in relation to our digitisation strategy over the past six months.

As we approach the conclusion of RIIO-T2 in this fiscal year, the strides we are making are laying the groundwork to deliver our RIIO-T3 initiatives, which aims to transform our network, nearly doubling the power transfer capacity across the country and offering compared to the last five years.

We trust you will find this update informative, and we appreciate any additional feedback you may have.

Simon Johnston

National Grid Electricity Transmission CIDO

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DSAP ACTION
UPDATE

Updates to Older Actions

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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.	The successful delivery of the Data Sharing Infrastructure (DSI) pilot, proving that NGET can install DSI components and successfully transfer Data to other DSI partners as expected.	Open	Engage in Data Sharing Infrastructure (DSI) MVP Program, to create a sustainable and stable DSI platform for Data Sharing across industry players.
102-2	Trusted, Available and Secure Data	Allow integration with external datasets to expand on data discovery opportunities.	The Data Fabric is now live, products built, external marketplace architecture delivered to enable the realisation of the RIIO T2 price control deliverable (PCD) for the data reopener. This will enable easy access to internal products to wider stakeholders.	Open	Release internal marketplace to our stakeholders for faster and easier access to data and analytical products. Release external marketplace MVP for Ofgem to access data products and request open data.
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.	All teams now operating Scaled Agile methodology (including digital teams in our Strategic Infrastructure business). Process work currently split across a number of different streams including Solution development, architecture and portfolio management	Open	Finalise proposals for processes and test against governance and risk frameworks. These are key readiness areas which will ensure we are set up to meet our T3 ambitions.

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DSAP ACTIONS

New and Updated Actions aligned to Roadmap

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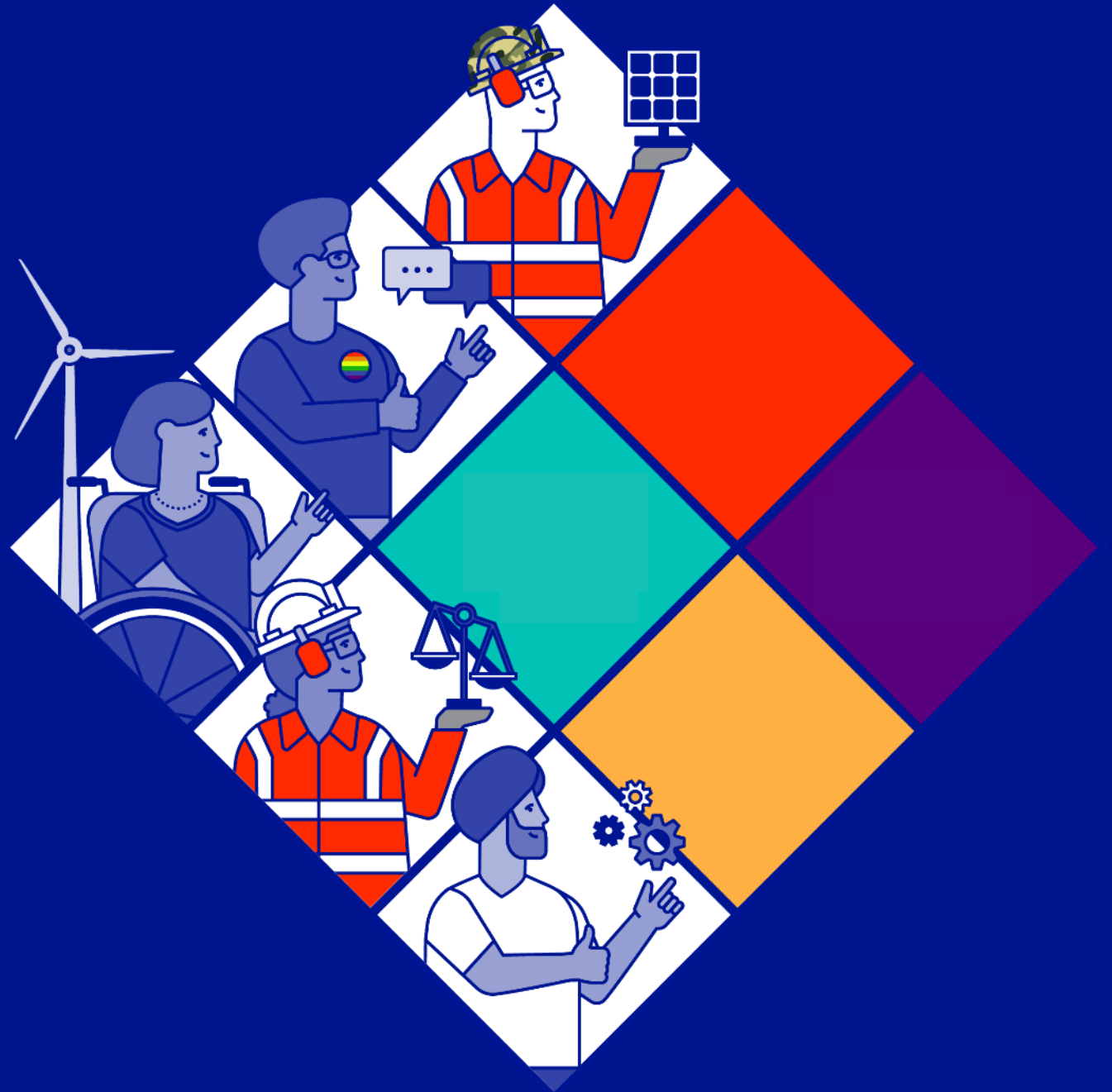
DSAP Actions June 2025

Objective	#	Product Description	Stakeholder Value	Progress Made	Status	Next Steps
1. The Great Grid Upgrade – Network Development, Capital Planning & Delivery	1-1	**Consenting:** **Delivering digital products designed to optimise and streamline the consenting process.**	More targeted stakeholder engagement on proposed projects and a visualisation of the future network to support consenting.	Successfully piloted two visualisation products designed to improve transparency and process clarity for consenting. Strategic Relationship Management (SRM) tool has been delivered to capture feedback from key stakeholders and ensure engagement is tracked.	Open	Roll out visualisation and SRM tools across the Accelerated Strategic Transmission Investment (ASTI) portfolio and continue to innovate to ensure technology is utilised to enable pace around consenting.
	1-2	**Supply Chain Visibility & Collaboration:** **Creating a common data environment (CDE) for the delivery partners on the ASTI projects to enable collaboration and sharing of information across the portfolio.**	Greater efficiency of infrastructure builds through a uniformed approach to digital project design and sharing of information across supply chain.	Delivery of the Common Data Environment has started on the ASTI portfolio including giving access to our supply chain.	Open	Roll out of a foundational Common Data Environment across all projects in the ASTI portfolio.
	1-3	**Optimised Design and Build:** **Delivering a Building Information Modelling capability to enable collaborative design across the ASTI portfolio.**	Greater efficiency of infrastructure builds through a uniformed approach to digital project design and sharing of information across supply chain.	Building Information Modelling capability will soon be implemented for design in the ASTI portfolio.	Open	Roll out of a foundational 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. Roll out of BIM being investigated for Infrastructure Delivery in preparation for RIIO T3.

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Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
2. Delivering for our customers – Enhanced Customer Experience	2-1	**Connect Now: Research Assistant** **Our publicly available ConnectNow Research Assistant has made available regional information providing a further channel for our customers to access important content.**	Providing regional information on available connection points.	Engagement has continued with NESO with a focus on defining the data requirements to support both Connections 360 and the Connections Reform data exchange process. Connections Reform is agreed to be the priority area through the upcoming period. As a result, the scope and requirements for the Research Assistant have shifted accordingly. At this time, no additional development is planned for the Research Assistant. We'll continue to monitor and adapt as priorities evolve.	Closed	Currently, no additional development is planned for the Research Assistant. No additional development is planned in the RIIO-T2 regulatory period.
	2-2	**Customer Insights, Intelligence & Customer Feedback**	This benefits our consumers through structured simulation features that enable us to fairly enact our newly formed policies to offer accelerated connections to customers. 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.	Data product development is continuing in line with agile practices. Work is ongoing to support delivery of Connections Reform processes – restructuring data and condensing documentation to enable teams to re-issue contracts and manage the reformed queue. This will support the overall aims of reformed processes to deliver connections economically and efficiently for customers and drive value for end consumers. Web application tooling has been released to help simulate scenarios of customer demand and intelligence.	Open	Continued development of data products that support customer experience and insight

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Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
3. Intelligent Asset and Network Management – Asset Life Cycle Management	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.	Clear roadmap to November launch, change champion network established.	Open	To continue through the project to build the new enterprise asset management capability and establish training and mapped processes.
	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.	Blueprint specifications have been developed, a demo facility set up and cross functional workshops have taken place.	Open	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.	A proof of concept has been set up in a substation. We are now receiving data from the sensors.	Open	Further trialling of the optimal method for returning sensor data in the organisation to inform asset condition monitoring will then inform a roll out plan. Condition monitoring assets will be added to Maximo, and a process defined for the lifecycle of the assets.
	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.	All Data Centre initial builds are complete, and associated connectivity is in place. Initial environments delivered and Factory Acceptance Testing (FAT) testing complete. System Integration Testing (SIT) in progress.	Open	Continue the Critical National Infrastructure (CNI) and Enterprise infrastructure delivery. Deliver the Platform environments and applications . Continue System Integration testing (SIT) and Integrated Operations & Automation Testing.

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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.	Data Fabric installation complete enabling use across data product teams to create value added products to the organisation and external users where needed. Data product builds and connections to data sources is ongoing but the primary systems have been connected. (e.g Asset, Customer.)	Open	Complete roll out of Data Fabric to super-users and priority areas of the business by Q3 2025. Launch external portal for data access and sharing by Q2 2026.
	4-2	**Future Data Products**	Greater transparency and visibility of business and regulatory performance.	Discovery phase for performance reporting has been successfully completed, with a roadmap for T2 and vision for T3 determined. Implementation phase is in progress with SF6 (sulphur hexafluoride) performance dashboard being successfully implemented. Progressing with the next set of KPIs such as Quality of Connection and Finance KPIs. This discovery activity has highlighted that addressing data quality challenges in the source data used for producing the RRP is a vital next step towards modernising our RRP processes. These challenges can affect efficiency and consistency, as they require manual intervention to ensure high-quality RRP submissions. In response, we are developing a Proof of Concept (PoC) proposal aimed at demonstrating an effective approach to addressing these issues.	```````	SF6 performance dashboard roll out to the Asset Operations team and ET executives in progress. Aiming for end of Q3 2025 go-live date. Developing the RRP data quality proposal and preparing to commence delivery.
	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.	Power Factory (Power Systems Scenario Modelling capability) automation and data product development build to digitise manual processes ad improve efficiency and productivity with power system studies progressing to plan. Thermal ratings product in development and no issues to timeline. Commenced discovery for a joint NGET/NESO Dynamic Line Ratings approach and solution. Commenced mobilisation of discovery to explore options to transform NGET's power systems modelling capabilities Enabling capabilities to support the Network Modelling team CP2030 activities.	Open	Deploy the Power Factory automation and digital data product in Q1 2026 and the new Thermal Rating product in November. Assess outcome of Dynamic Line Ratings discovery to determine options for future development Discovery phase in progress with the remit to explore how we transform and accelerate NGET's Network design capabilities through more effective power systems analysis, modelling and decision making, to enable the delivery of a network that meets the Government's ambitious decarbonisation targets at the scale and pace required, ensuring value for money to the consumer via a cross-industry consortia to develop MVP solutions as set our in the Digital Twin RIIO T3 Submission.

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4. Cross-Cutting and Interoperability – Data and Intelligent Planning	4-4	Portfolio Management	Improved coordination of the delivery of work on the network.	First phase of discovery complete and approach to first iteration of the product being agreed.	Open	Deliver the first iteration of the portfolio management capability, providing the foundations for the T3 investment.
	4-5	Planning	Planning will enable NGET to meet its commitments by sequencing the right work in the most optimum way and enable planners to create visible plans that can iterate and mitigate delivery risk.	The second major release has enabled a single view of the resource plan and set up the foundation for resource allocation to be released in Autumn 2025.	Open	Enable managing outages and resource allocation for NGET so we can more efficiently plan work on the network.

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