

# DSAP Action Plan

## December 2025

**National Grid Electricity  
Transmission**

**nationalgrid**



# DSAP Action Plan Update: Introduction

This action plan for our National Grid Electricity Transmission digitalisation strategy summarises the progress we have made in the last six months.

As we enter the final quarter of the RIIO-T2 regulatory period, we are gearing towards both the successful close out of our RIIO-T2 commitments and mobilisation of our RIIO-T3 initiatives.

These initiatives focus on enabling smarter network operations, improving infrastructure efficiency, and promoting a digital culture, ultimately creating a more efficient, resilient, and innovative system.

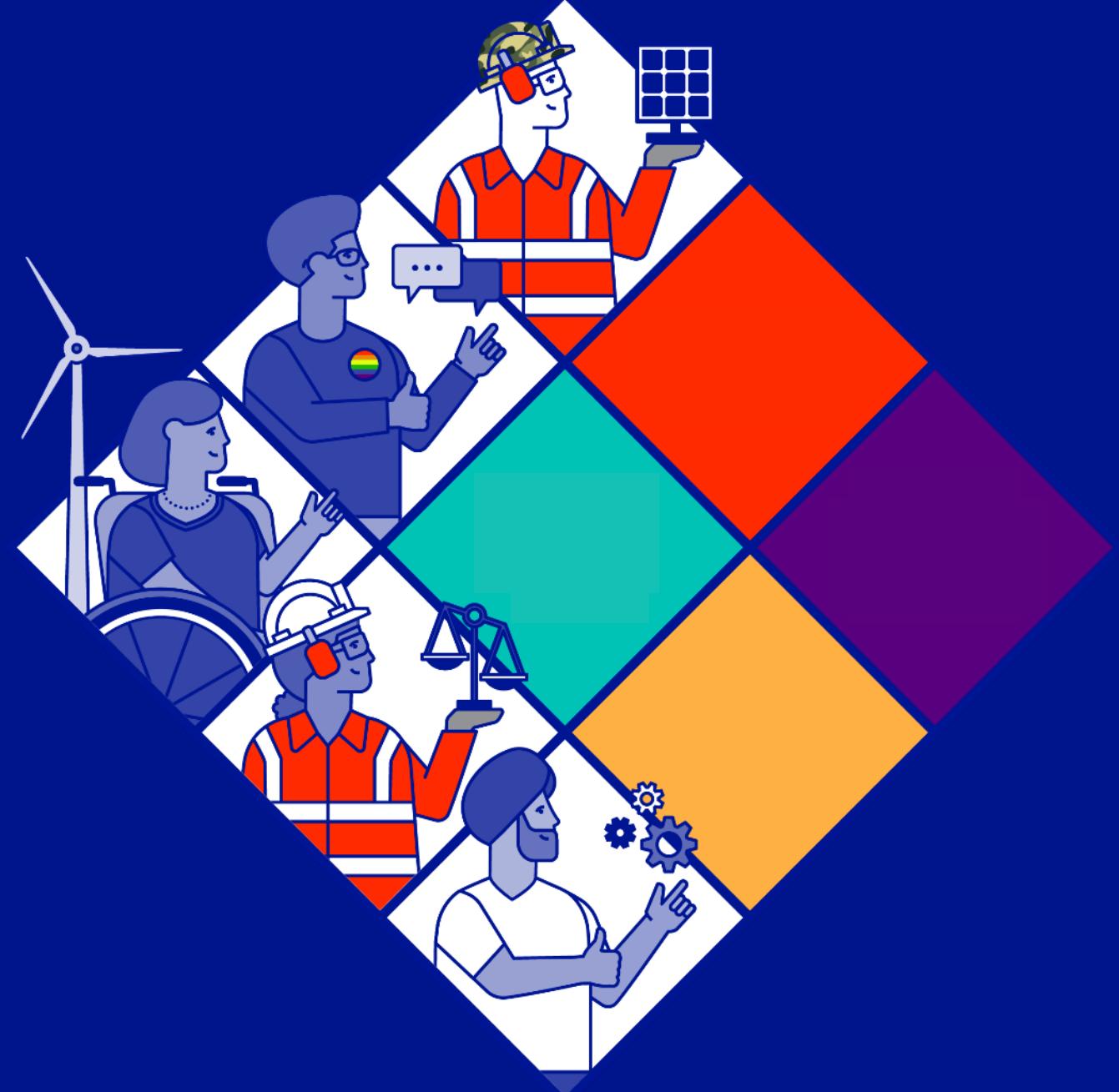
We hope you find this update informative and welcome any additional feedback you may have.

*Simon Johnston*

**National Grid Electricity Transmission CIDO**

# DSAP ACTION UPDATE

Updates to Older Actions

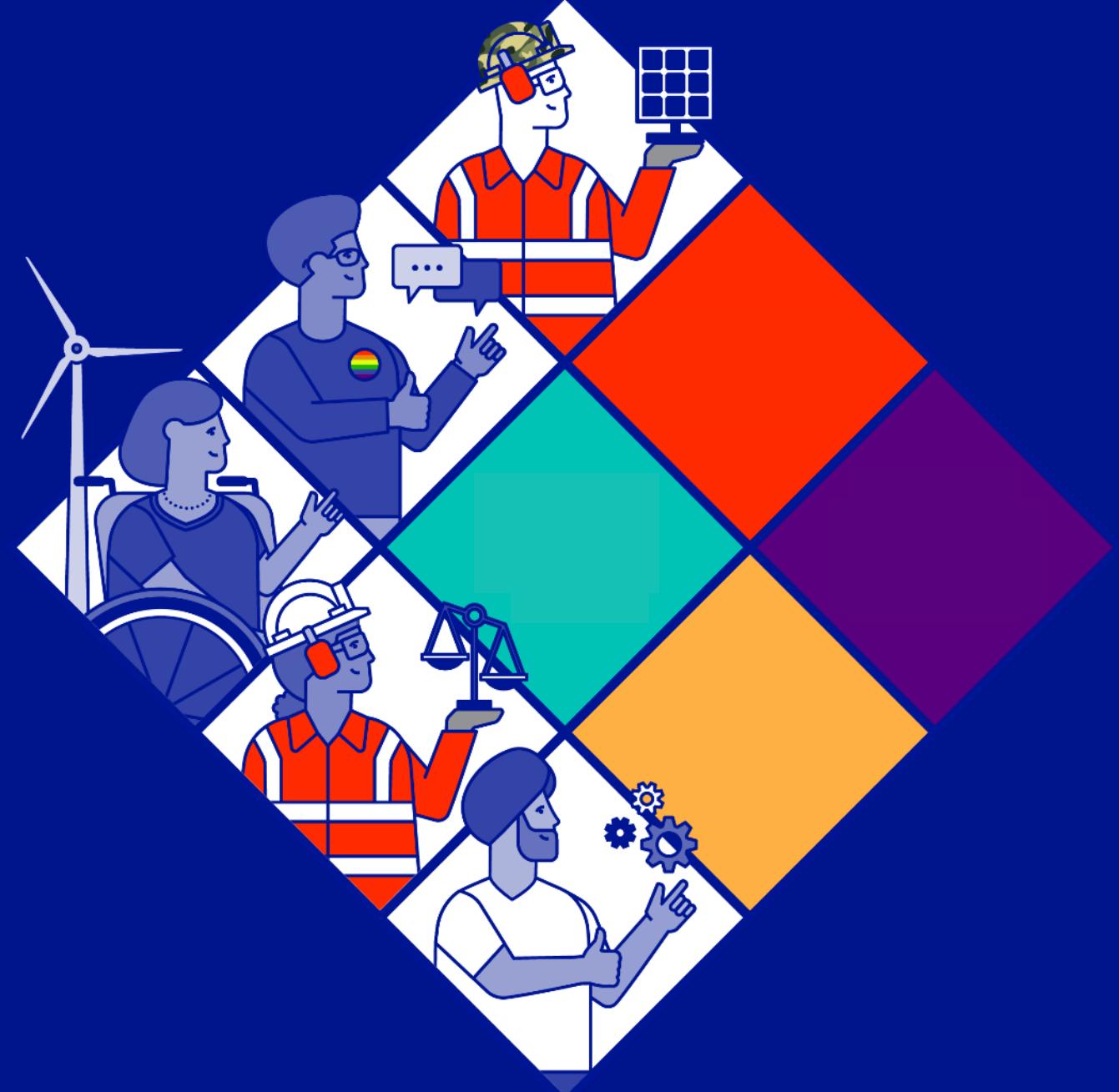


# DSAP Actions – Updates to Previous Actions

#	Theme	Action	Progress Made	Status	Next Steps
101-3	Whole System Stakeholder Engagement	<b>Increase stakeholder engagement for the next release of the digitalisation strategy and action plan including enhanced data best practices internally and externally.</b>	<p>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.</p> <p>Engagement established with NESO for the MVP Beta Phase 2.</p>	Open	<p>Engage in Data Sharing Infrastructure (DSI) MVP Program, to create a sustainable and stable DSI platform for Data Sharing across industry players.</p>
102-2	Trusted, Available and Secure Data	<b>Allow integration with external datasets to expand on data discovery opportunities.</b>	<p>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.</p>	Open	<p>Release internal marketplace to our stakeholders for faster and easier access to data and analytical products.</p> <p>Release external marketplace MVP for Ofgem to access data products and request open data.</p>
104-1	Digital Culture & Ways of Working Embedded in all we do	<b>Adopting new ways of working that enable faster delivery of value for our customers and stakeholders.</b>	<p>All teams now operating Scaled Agile methodology (including digital teams in our Strategic Infrastructure business).</p> <p>Process work currently split across a number of different streams including Solution development, architecture and portfolio management</p>	Open	<p>Architecture process has been reimagined by the Enterprise Architecture team, Solution development process currently being rewritten to incorporate continuous delivery and integration, allowing faster time to market.</p>

# DSAP ACTIONS

New and Updated Actions  
aligned to Roadmap



# DSAP Actions December 2025

Objective	#	Product Description	Stakeholder Value	Progress Made	Status	Next Steps
1. The Great Grid Upgrade – Network Development, Capital Planning & Delivery	1-1	<b>Consenting:</b>  <b>Delivering digital products designed to optimise and streamline the consenting process.</b>	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.  Communities' application to be implemented on 2 pilot projects.  A new visualisation product to be delivered for public consultations mid 2026.
	1-2	<b>Supply Chain Visibility &amp; Collaboration:</b>  <b>Creating a common data environment (CDE) for the delivery partners on the ASTI projects to enable collaboration and sharing of information across the portfolio.</b>	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.  Rolled out to 10 Onshore projects within the Great Grid Partnership. Supply chain now onboarded and utilising the CDE.	Open	Roll out has started on the Offshore portfolio and this will continue over the next six months.
	1-3	<b>Optimised Design and Build:</b>  <b>Delivering a Building Information Modelling capability to enable collaborative design across the ASTI portfolio.</b>	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.

# DSAP Actions December 2025

Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
2. Delivering for our customers – Enhanced Customer Experience	2-2	Customer Insights, Intelligence & Customer Feedback	<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>	<p>Data product development is continuing in line with agile practices.</p> <p>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.</p> <p>Web application tooling has been released to help simulate scenarios of customer demand and intelligence along with machine learning to forecast customer satisfaction and performance.</p>	Open	<p>Transitioning our data product through to product release (both 'Customer Experience' and 'CP2030 Simulation').</p> <p>Publishing 'Customer 360' product within our Data Fabric platform.</p> <p>Establish a proof of concept for 'Customer Intelligence' to enrich our baseline customer knowledge. This will utilise externally available data on the customer to drive insight.</p> <p>New 'Connection Queue' version is planned to be published based on Reformed queue.</p>

# DSAP Actions December 2025

Project	#	Deliverable Description	Stakeholder Value	Progress Made	Status	Next Steps
3. Intelligent Asset and Network Management – Asset Life Cycle Management	3-2	<b>Digital Asset Management:</b>  <b>Leveraging digital to gain a deeper understanding of our asset performance which is vital to making optimal investment decisions.</b>	Enterprise asset management tool which can support our asset management strategy now and in the future.	In order to fully UAT the system to the business' satisfaction, the decision was made to delay cutover until May 26.	Open	Complete UAT, finalise cutover plan, and establish data freeze rules with the business.
	3-3	<b>Intelligent Substation:</b>  <b>We are developing an intelligent substation architecture to transform its operations and meet the needs of a changing market and net zero goal.</b>	Continued high network reliability, safety and resilience.	Developed the strategy for deploying digital substations for new builds. Engaged with external suppliers to ensure readiness for deployment.	Open	Finalise digital substation candidates and embed into standard substation designs. Agree pilot sites to showcase edge compute capabilities.
	3-4	<b>IoT:</b>  <b>Our Internet of Things platform will enable the collection of asset performance and condition data.</b>	Continued high network reliability, safety and resilience. Lower operating costs for running the network.	Successfully captured data from DGA sensors, establishing a new sensor type.	Open	Trialling continues, with a view to establishing a roadmap of sensor types for increased velocity of employment.
	3-5	<b>SCADA:</b>  <b>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.</b>	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.

# DSAP Actions December 2025

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.	<p>Data Fabric installation complete enabling use across data product teams to create value added products to the organisation and external users where needed.</p> <p>Data product builds and connections to data sources is ongoing but the primary systems have been connected. (e.g Asset, Customer.)</p>	Open	<p>Complete roll out of Data Fabric to super-users and priority areas of the business by Q3 2025.</p> <p>Launch external portal for data access and sharing by Q2 2026.</p>
	4-2	Future Data Products	Greater transparency and visibility of business and regulatory performance.	<p>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.</p> <p>Progressing with the next set of KPIs such as Quality of Connection and Finance KPIs.</p> <p>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.</p>	Open	<p>SF6 performance dashboard roll out to the Asset Operations team and ET executives in progress. Aiming for end of Q3 2025 go-live date.</p> <p>Develop the RRP data quality proposal and prepare to commence delivery.</p>
	4-3	<p><b>Strategic Network Modelling</b></p> <p><b>Long term regional network strategy capability - automating and machine learning and visualisation for regional stakeholder engagement for network strategy.</b></p>	Improved network design and delivery of work.	<p>Deployed the new Thermal Rating Application including enhanced calculators and basic Dynamic Line Ratings (DLR) Data access for NESO.</p> <p>DLR Discovery Phase 1 completed with NESO.</p> <p>Launched Power Factory enhancements driving efficiency through scripts saving time and improving data accuracy and new data exchange with Plexos and Neptune Tools</p> <p>Digitised CP2030 Technical Reports - Data ingestion and export to PDF of reports e.g. Boundary and IGR studies</p> <p>Migrated PSCAD to Cloud – Faster runtime, more concurrent users, scalable simulations without extra costly hardware.</p> <p>Completed the first working Agentic AI trained on Internal and External Standards and Policies for new starters</p>	Open	<p>Complete DLR Discovery Phase 2 with NESO &amp; Scottish TO, to ensure common data standards for 2026 system go-live</p> <p>Continually improve and enhance the new Thermal Ratings Application</p> <p>Finalise Digital Twin System Integration &amp; Architecture Design work for T3 Year 1 – delivering the committed Benefits and laying the foundations to build upon going forward</p> <p>Develop further Agentic AI in emerging areas – constrained roles, design assurance, connections etc</p>

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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 live enabling an internal view of our strategic investment plan. Designing and testing of our next features nearing completion.	Open	Finalise plan to deploy next feature set and develop out platform to have a complete view of our work on the network.
	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.	Resource plan on the planning tool is now live. We have been collaboratively building a new API from NESO for NGET that will let the planning tool share outage plan data, improving the way we coordinate system access.	Open	Complete integration with NESO and features to enable management of the system access plan.

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