

YAhOO

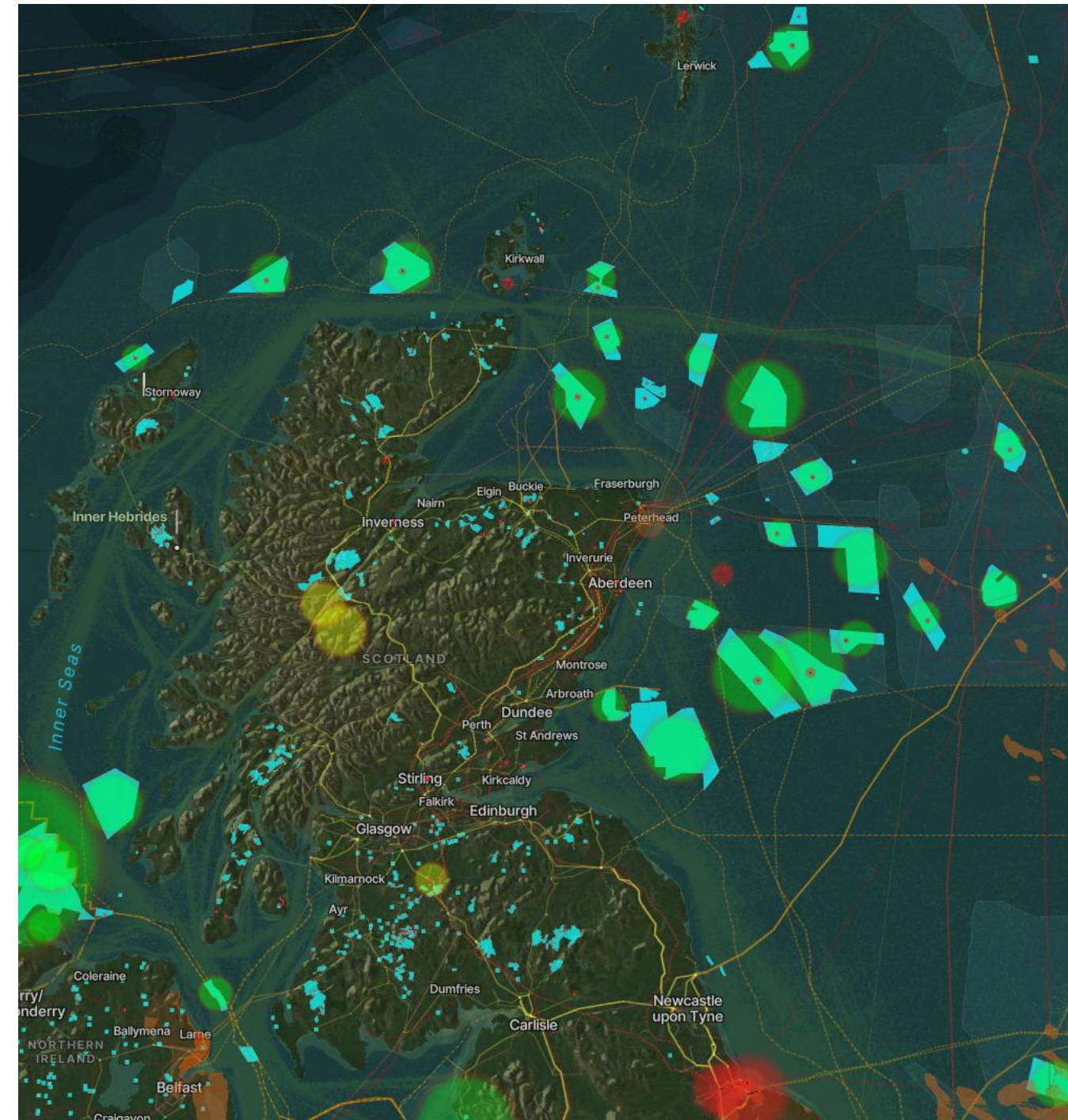
Year Ahead Outage Optimiser

Energy Innovation Summit
2025



The Problem

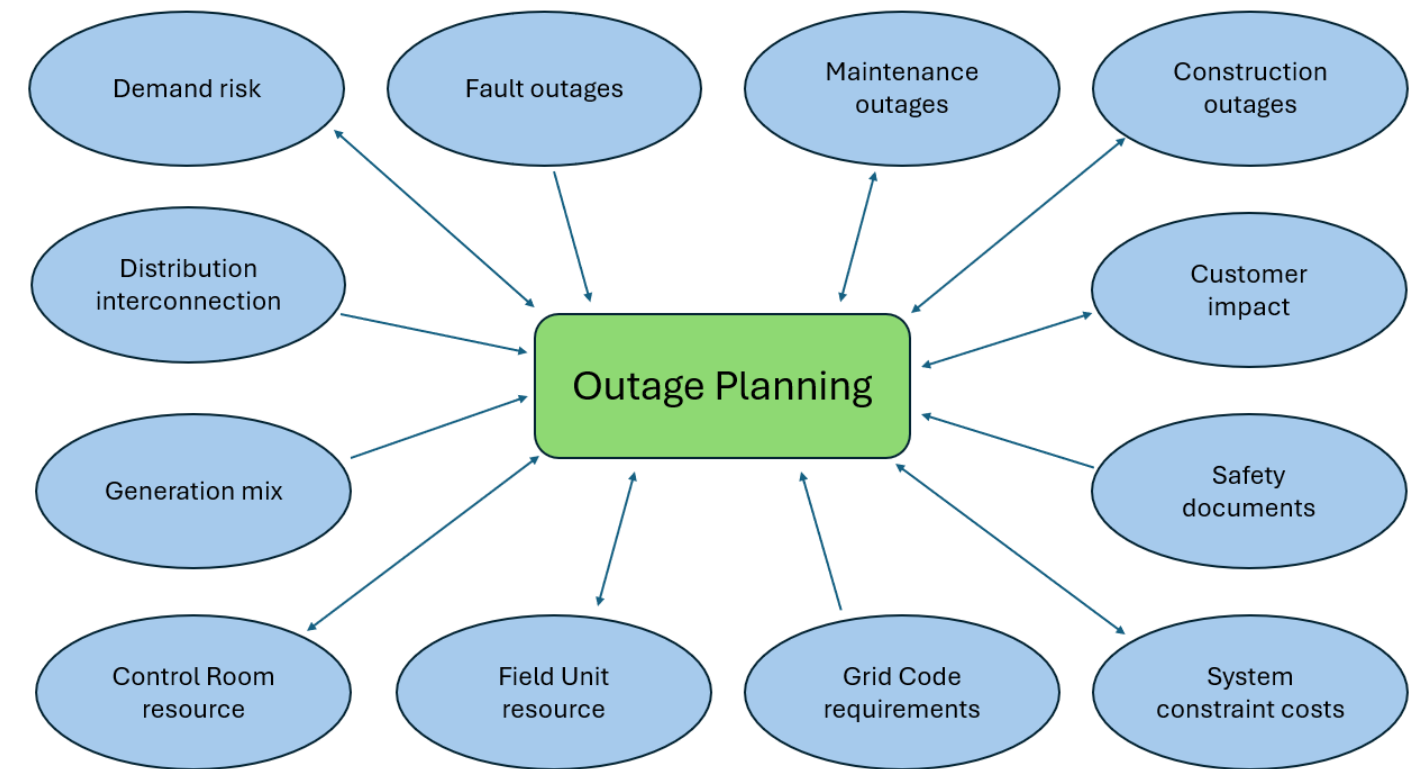
- In the rapidly evolving energy landscape, ensuring a reliable power supply is crucial
- The generation mix adds layers of complexity to outage planning, creating additional manual work
- Without process change, massive integration of renewable energy sources will exacerbate this manual workload
- **Currently** the process for creating and updating the Year Ahead Outage Plan is a manual, time- and effort-exhaustive process, with little opportunity to explore more creative solutions that could be optimal for network, Developer and Consumers/ Community.



YAhOO - Year Ahead Outage Optimiser

An easy-to-use, flexible decision support system that:

- Consists of three complementary algorithmic building blocks
- Automatically detects constraint violations and conflicts
- Provides flexibility for different operational scenarios
- Helps manage the complexity of changes and additions in the outage plan
- Provides recommendations to outage planners



YAhOO reduces response times for Outage Planners to process outage changes - a key enabler for focussing on higher value activities

Partnership

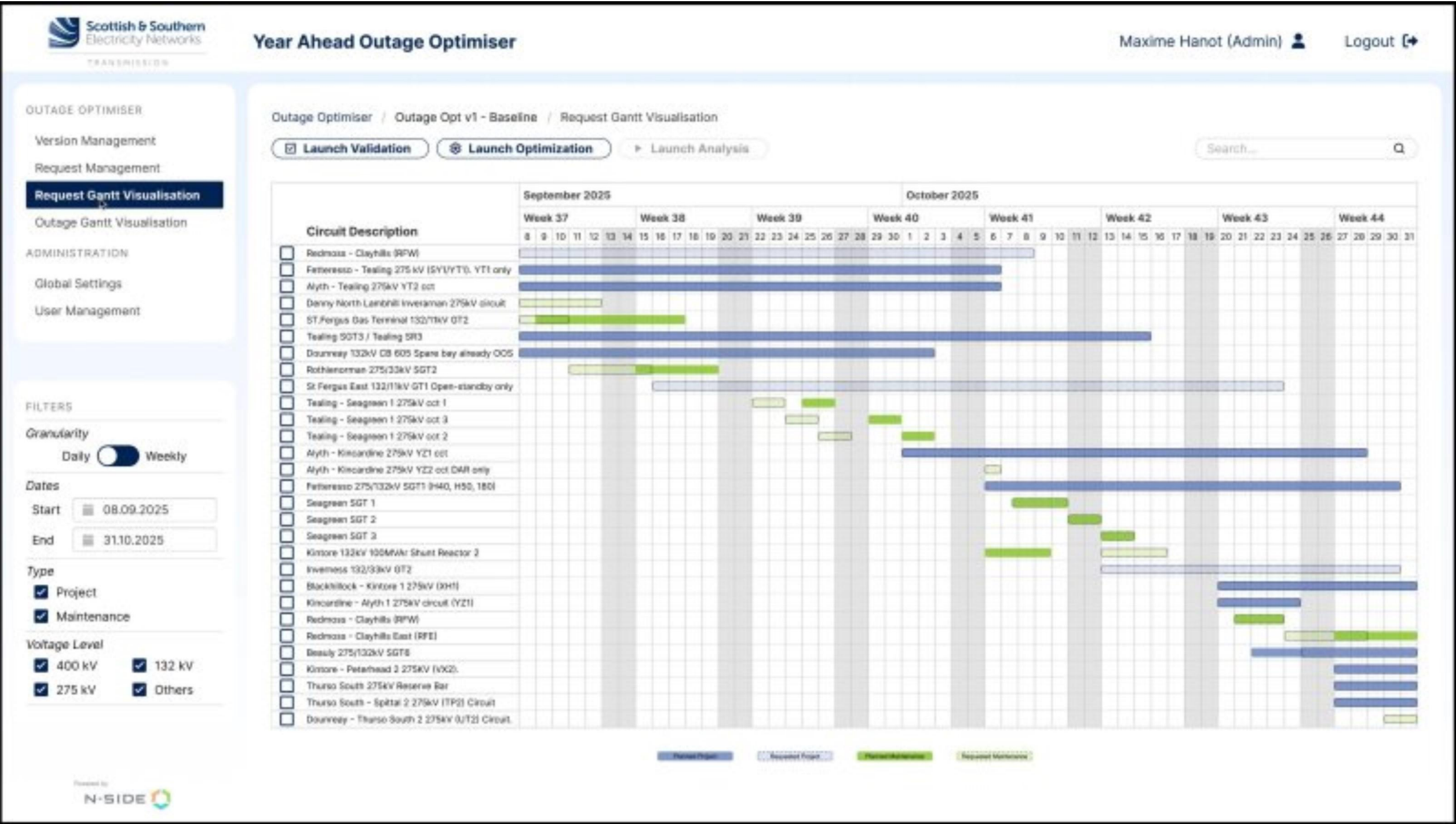
**Agile and
Innovative**



Energy Networks



The YAhOO Tool



Benefits

- Maximise volume of work delivered
- Maximise plan stability
- Maximise network availability
 - Minimise system constraint costs for NESO
 - Minimise demand risk
- Minimise disruption to connected customers
- Outage Planners have a faster route to their scheduling options which will help lead to optimal planning decisions

Potential T2/T3 savings: £ 1.1 million

Financial
benefits

Network
benefits

Streamline
outage
planning

Thanks for listening!

Next Steps

- Project closeout and share learnings through the NIA
- CIGRE submission
- Next phase – trial use on 2027 Outage Plan
- Assess suitability for planning in shorter timescales

For further information

- Contact any of the project team (ryan.flett@sse.com, vse@n-side.com)
- Or reach out to transmissioninnovation@sse.com



Thank you for your attention