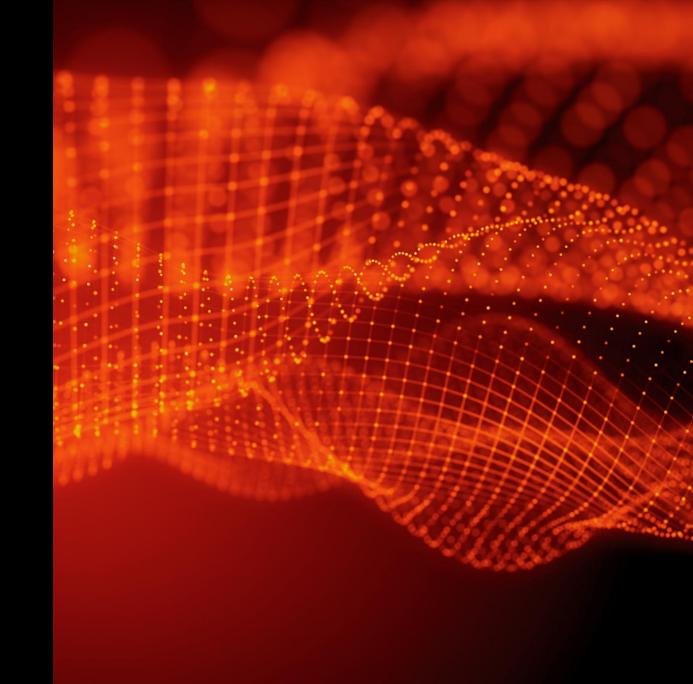


ARTIFICIAL INTELLIGENCE



REAL WORLD USE CASES

Michael Boyd | November 2025



Working in more than 19 sectors

- Aviation
- Commercial office
- Defence & Security
- Energy: Power Generation
- Energy: Transition
- Energy: Nuclear
- Energy: Transmission & Distribution
- Healthcare
- Chemicals
- Local Government

- Maritime
- Mining
- Mission Critical
- Pharma & Life Sciences
- Rail
- Residential & Urban Regeneration
- Strategic Highways
- Waste
- Water





















Al goes mainstream





Al does the work we shouldn't be doing



Al gives us time

Al tackles the work we couldn't do





How will Al reshape our roles and culture?

What is our risk appetite for Al?

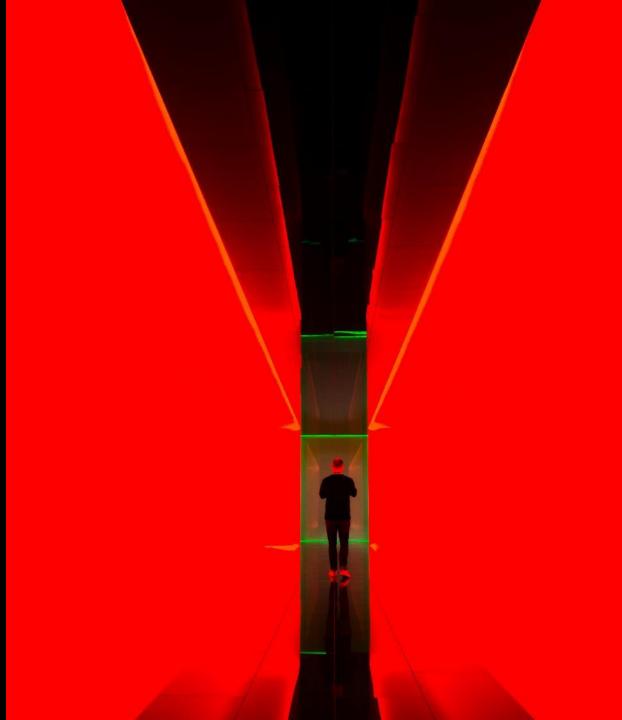
How do we prioritise investment?





MICROSOFT ALLIANCE

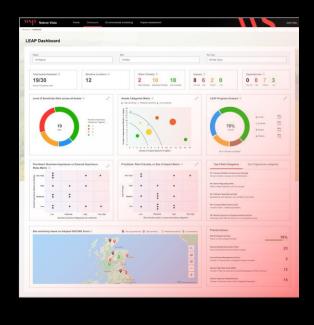
The WSP-Microsoft strategic alliance is built on a shared commitment to be catalysts for change in modernizing the AEC industry











INDIVIDUAL AI

Copilots for all! Al tools that support employees with everyday tasks to allow them to focus on value adding activities.

ENTERPRISE AI

Al integrated into core business systems to analyse large datasets, predict trends, and optimise operations.

CLIENT SOLUTIONS

Al solutions embedded in services and platforms offered to clients, such as predictive modelling and design optimisation



Daisy

Multi-objective optimisation

Maximise building performance

Early-stage intervention with Al

Daisy – A parametric design tool to revolutionise early design

Make better decisions on your design from the start. Combining digital and AI with a core focus on sustainability and decarbonisation. Daisy brings a new way of looking at parametric design, by including it at the earliest stages of your project.





DAYLIGHT FACTOR

% of Floor Area



OPERATIONAL CARBON

KgCO₂/m²

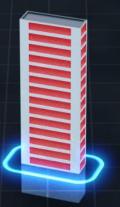


EMBODIED CARBON

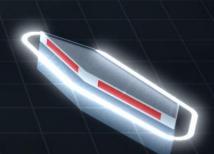
KgCO₂/m²



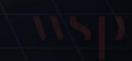
DAYLIGHT FACTOR

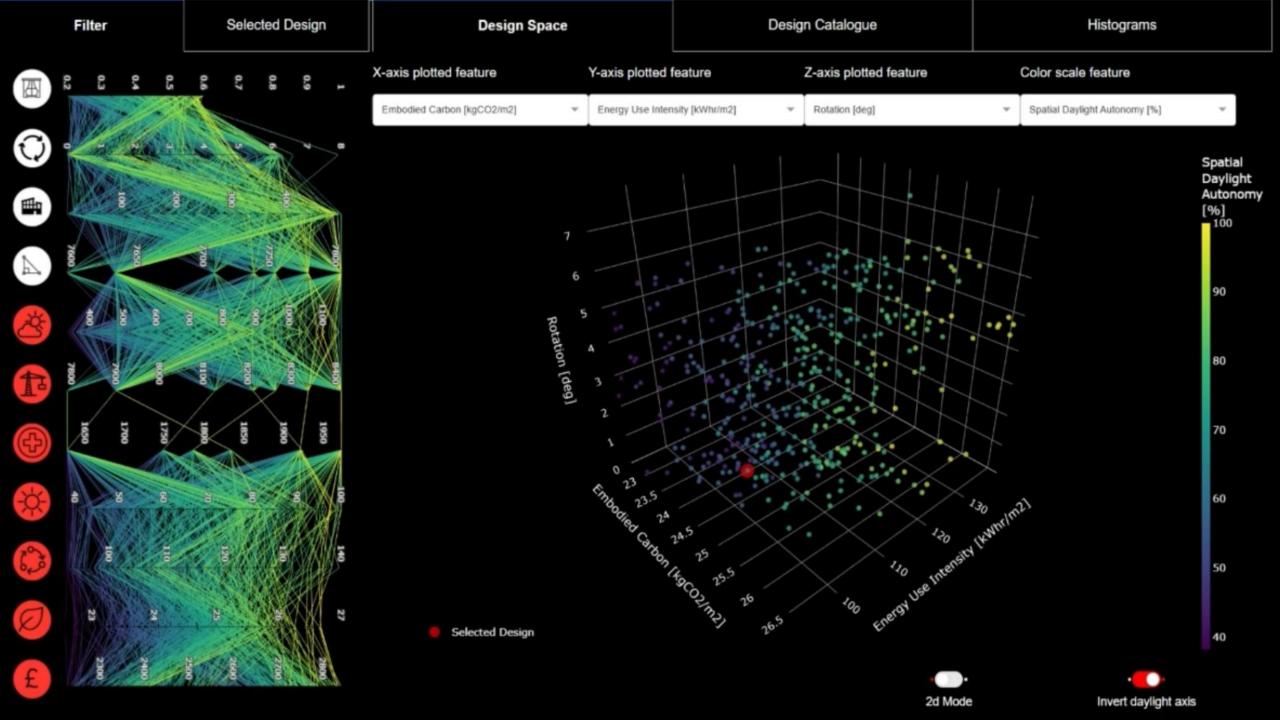


OPERATIONAL CARBON



EMBODIED CARBON





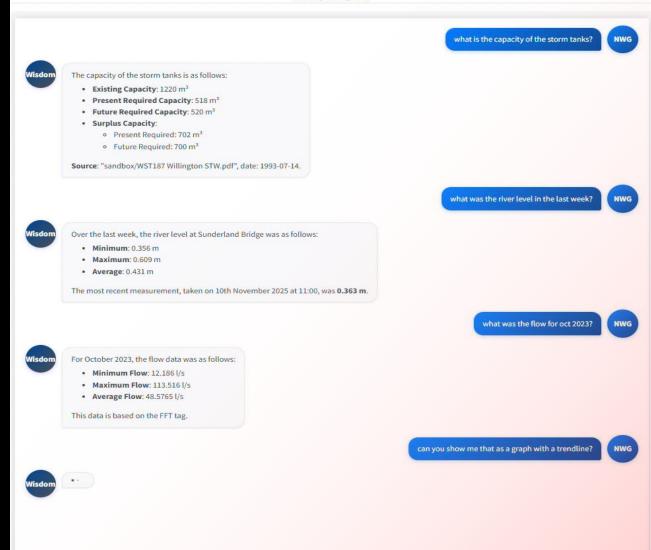
Full site masterplan Before Generation: 0, Iteration: 9 Selected Design 56 - 57 Overheating [hours] **After** 124 Facade Carbon [kgCO₂/m²] 122 182 tCO₂ Reduction £420,000 savings (less façade area) **Reduce Heating Bills Reduce Overheating Risk Maintain Access to daylight**



Wastewater Insights for Standardisation, Delivery, Operation and Maintenance

WISDOM democratises access to operational knowledge and data

WISDOM



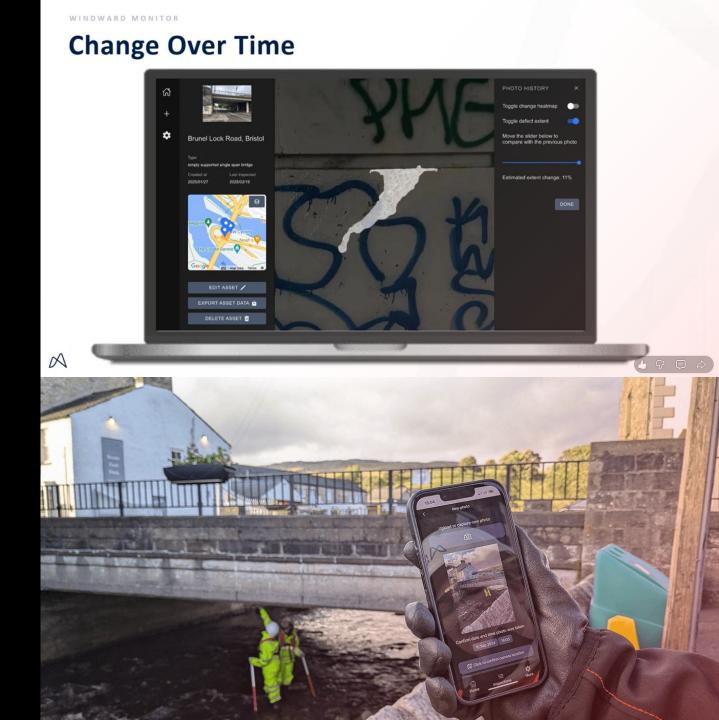
Type your message here...



Traffic counting

Pathway fault detection

Detect and quantify defects



EXPLORETHE

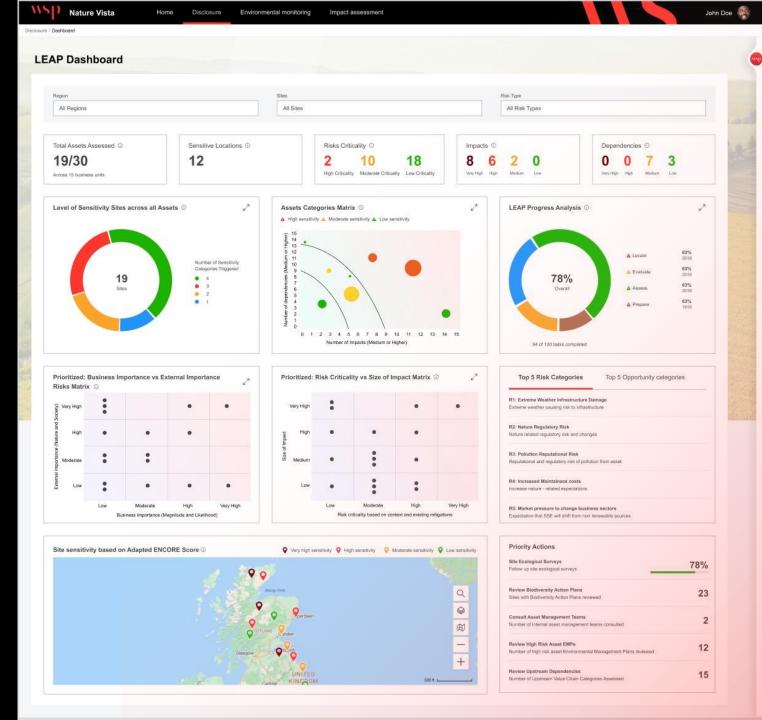


NATURE VISTA

Discosure compliance

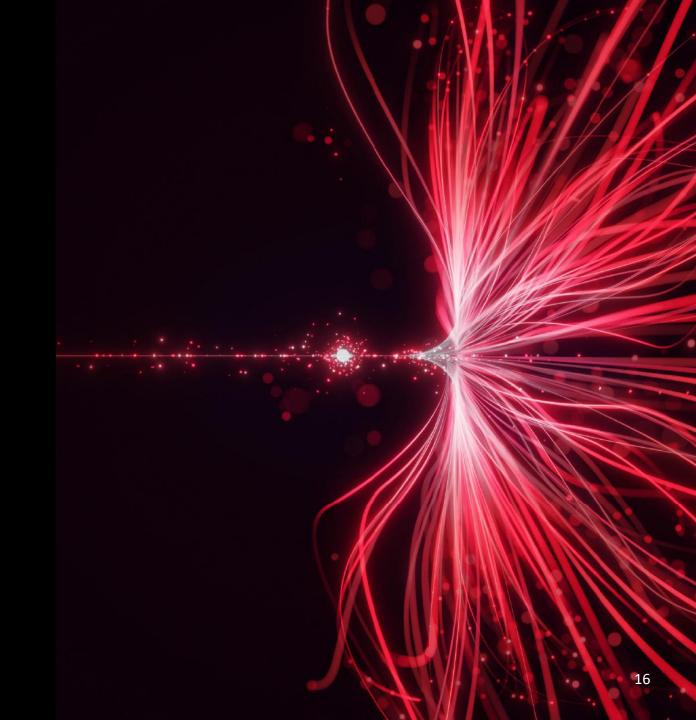
Streamlined EIA

Evironmental monitoring





ANEW DESIGN PARADIGM?

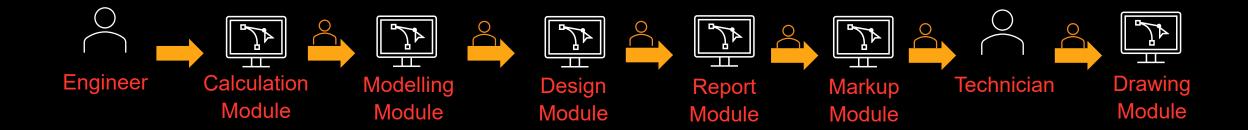




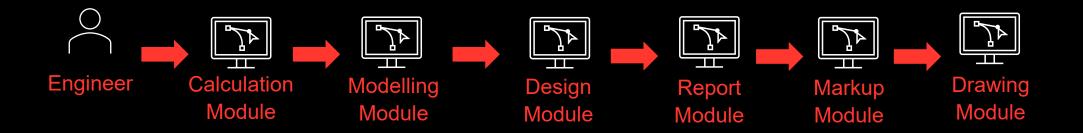
Current design workflow



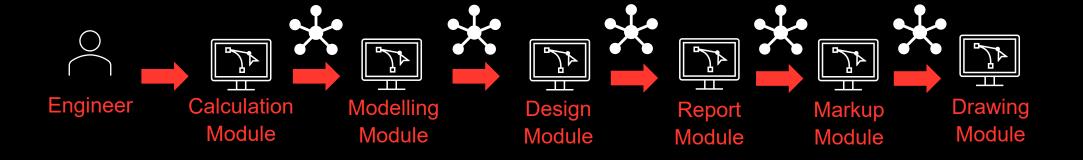






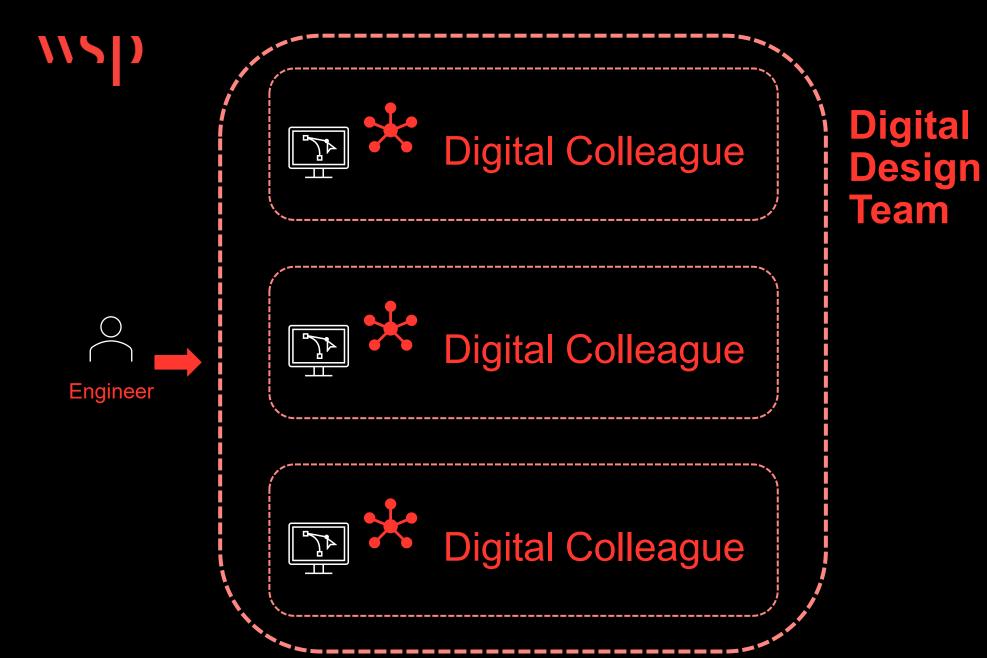


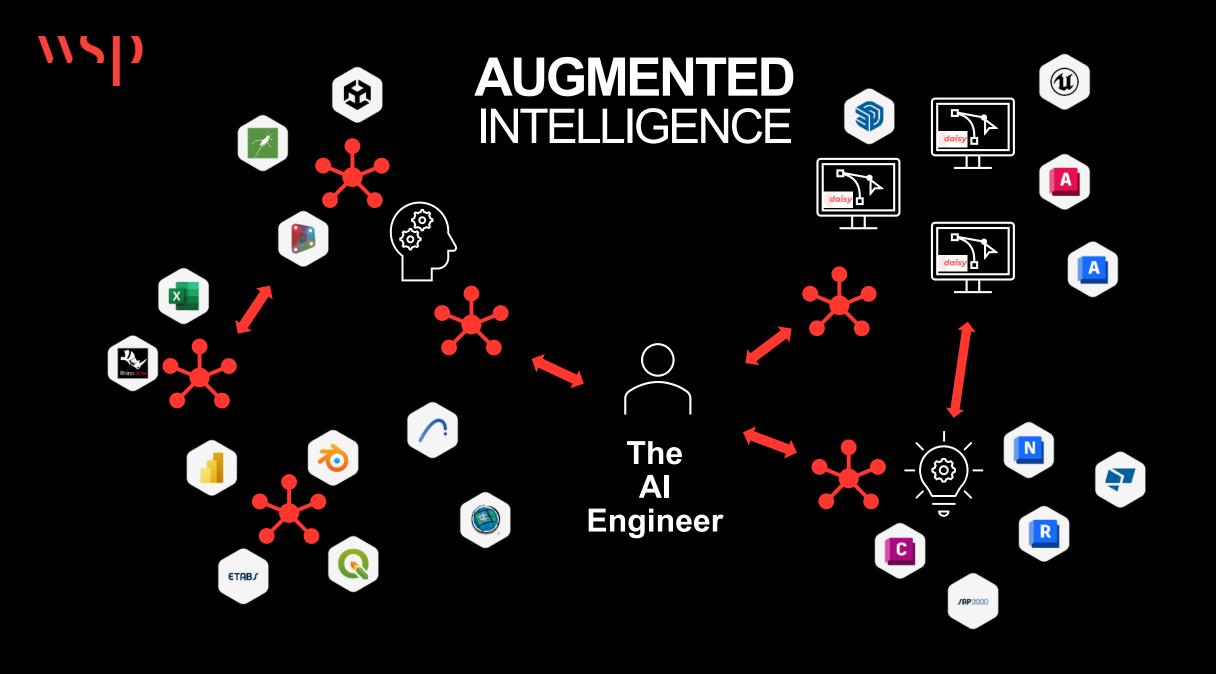






Digital Colleague Calculation Modelling Design Report Markup Drawing Module Module Module Module Module







Own a top-down Al strategy

Sanctioned AI or shadow AI, it's your choice

Invest in your people, not just technology