




Optimising the Future of Renewables

Arun Narayanan
Chief Digital Officer, RES

**POWER
FOR
GOOD**



13.7

Million Jobs

90%

New EGC
Globally

75%

Growth
2022-27

140+

Countries
Net Zero

**A future where everyone
has access to affordable
zero carbon energy.**

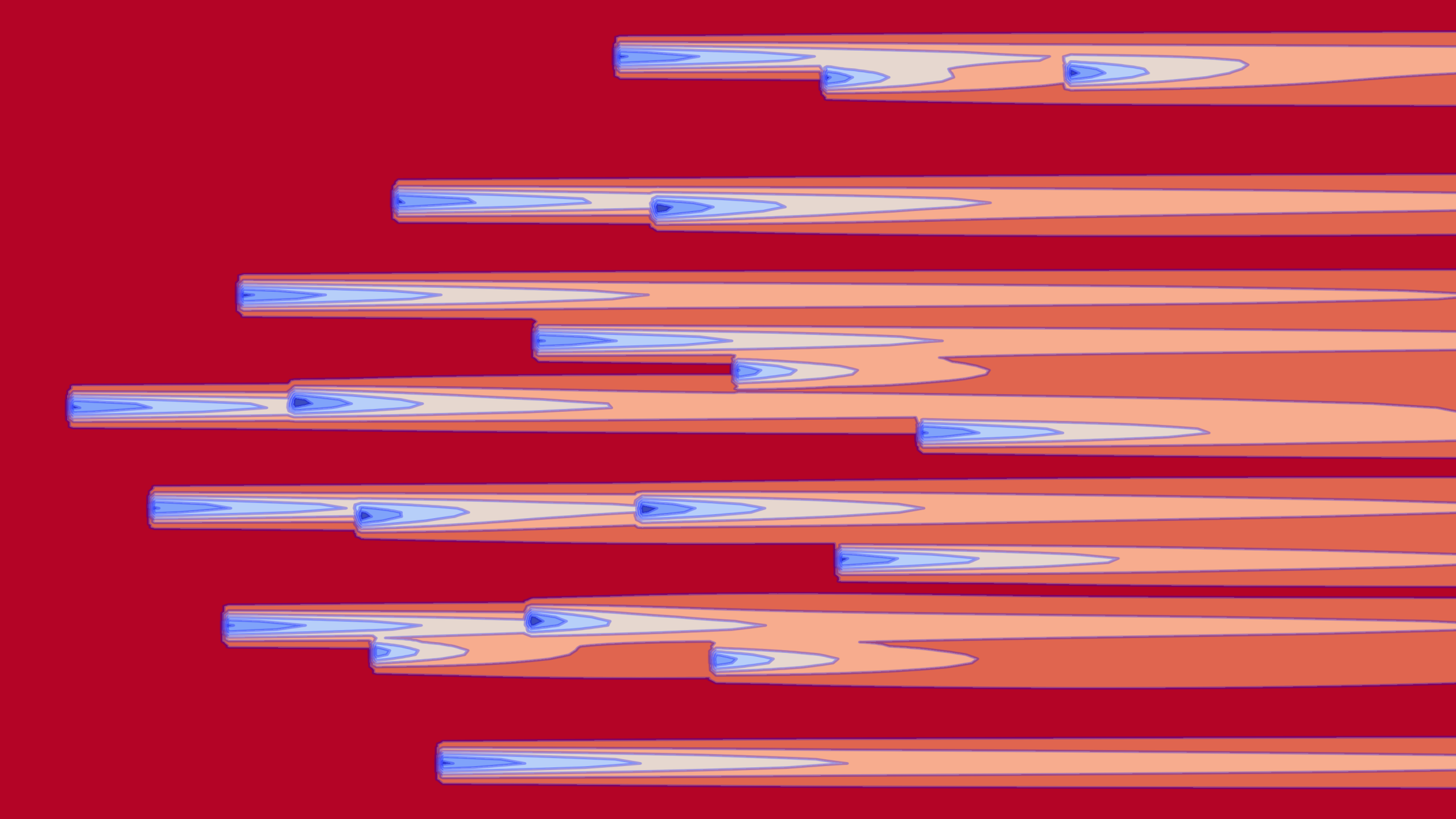
Our Vision. Our Purpose. Our Why.



Background image with a dense, repeating pattern of text and symbols, resembling a data dump or a heavily encrypted document. The text is mostly illegible due to the high density and repetition of characters.











cir. 1981

Our unique ecosystem of hardware and software solutions enable you to go beyond insights to unlock the full potential of your assets.





Our technical heritage sets us apart



**Digital
Solutions**



Wind



Solar



Storage



STABILISE

Harness the power of your data to baseline your asset performance and stabilise your operations



MAXIMISE

Realise your full asset potential within the original design parameters, increase availability of your assets, and lower performance costs



OPTIMISE

Go beyond original equipment design to set new operational ambitions to elevate the yield potential of your entire farms

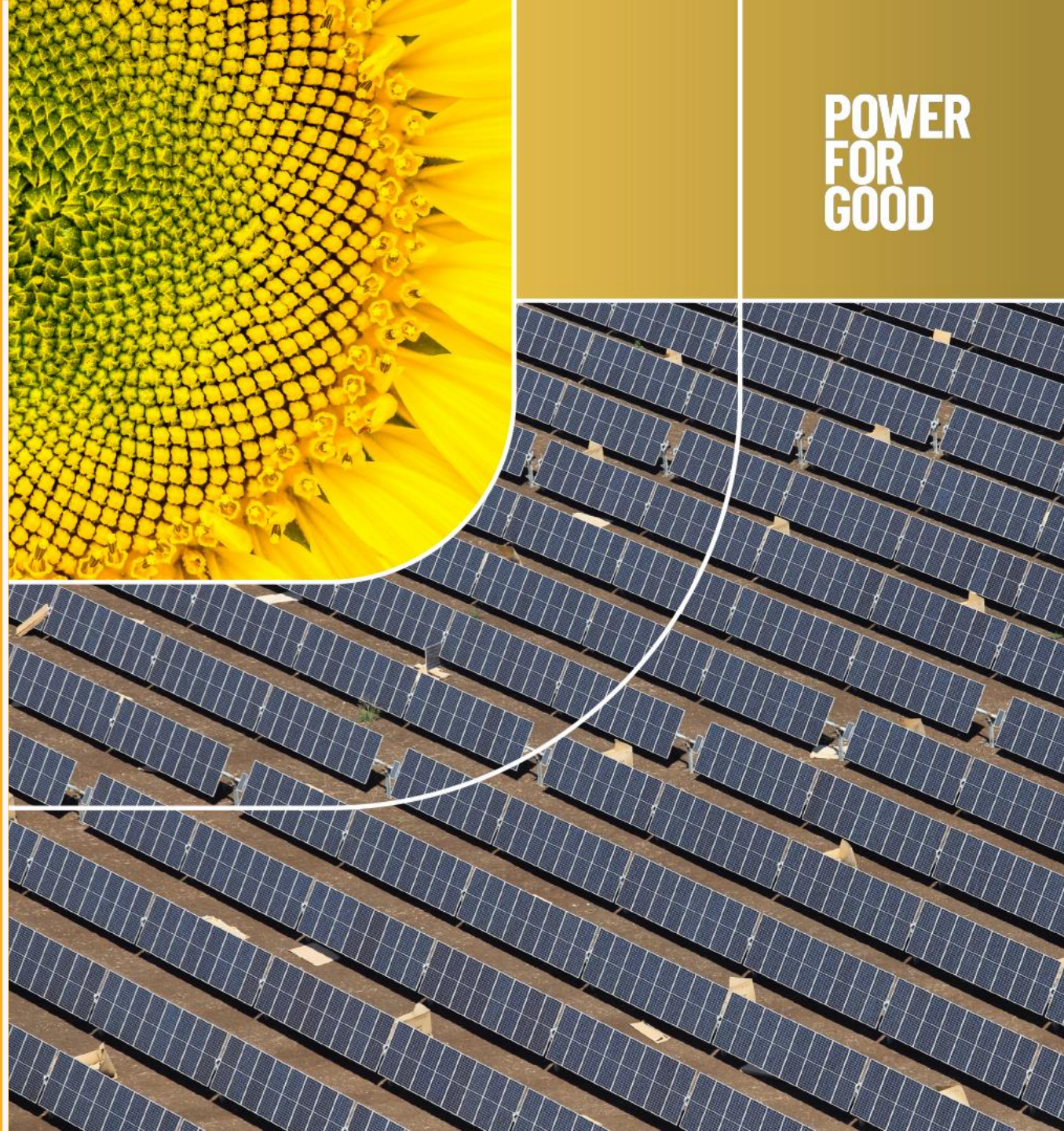
ACCELERATE

Subject matter expertise and digital prowess at your service and suited to your needs



Digital Solutions for Solar

POWER
FOR
GOOD



Software and Hardware Product Offerings



HelioLive

Couple seamless data acquisition with models and analytics born from solar engineers



Optivert

An intelligent inverter temperature management system, reducing IGBT module replacement costs and increasing production by up to 20% on hot days



Remote inspection

Integrated offerings that streamline maintenance and inspection activities, removing humans from transportation risks and enable early detection of micro-cracks



Safety

Leveraging software and hardware technology to take humans out of harms way

HelioLive – unlocking the power of your data



A monitoring, performance analysis & optimisation solution that offers reliable data, fast response time, and deeper insight for your solar assets.

- A solar asset detailed “health check”
- Hands-on, tangible operational performance metrics
- Root cause engineering
- Mitigation of performance issues & measurable improvements





OptiVert

An intelligent inverter temperature management system, reducing IGBT module replacement costs and increasing production by up to 20% on hot days

- Smart temperature control from inverter optimisation
- IGBT trips reduced
- Up to 20 times reduced IGBT fatigue damage

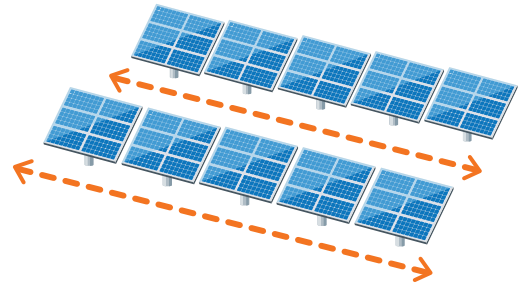




Solving industry problems with innovation



Organic



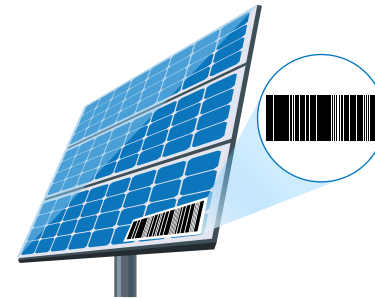
Flight Planning with
Solar Farm Geometry

Off-the-Shelf



Advanced Drone
and Camera

Organic



Advanced Bar Code
and OCR recognition

+80% time
saving

~\$200/MW

\$\$ Unlocked value in
warranty claims

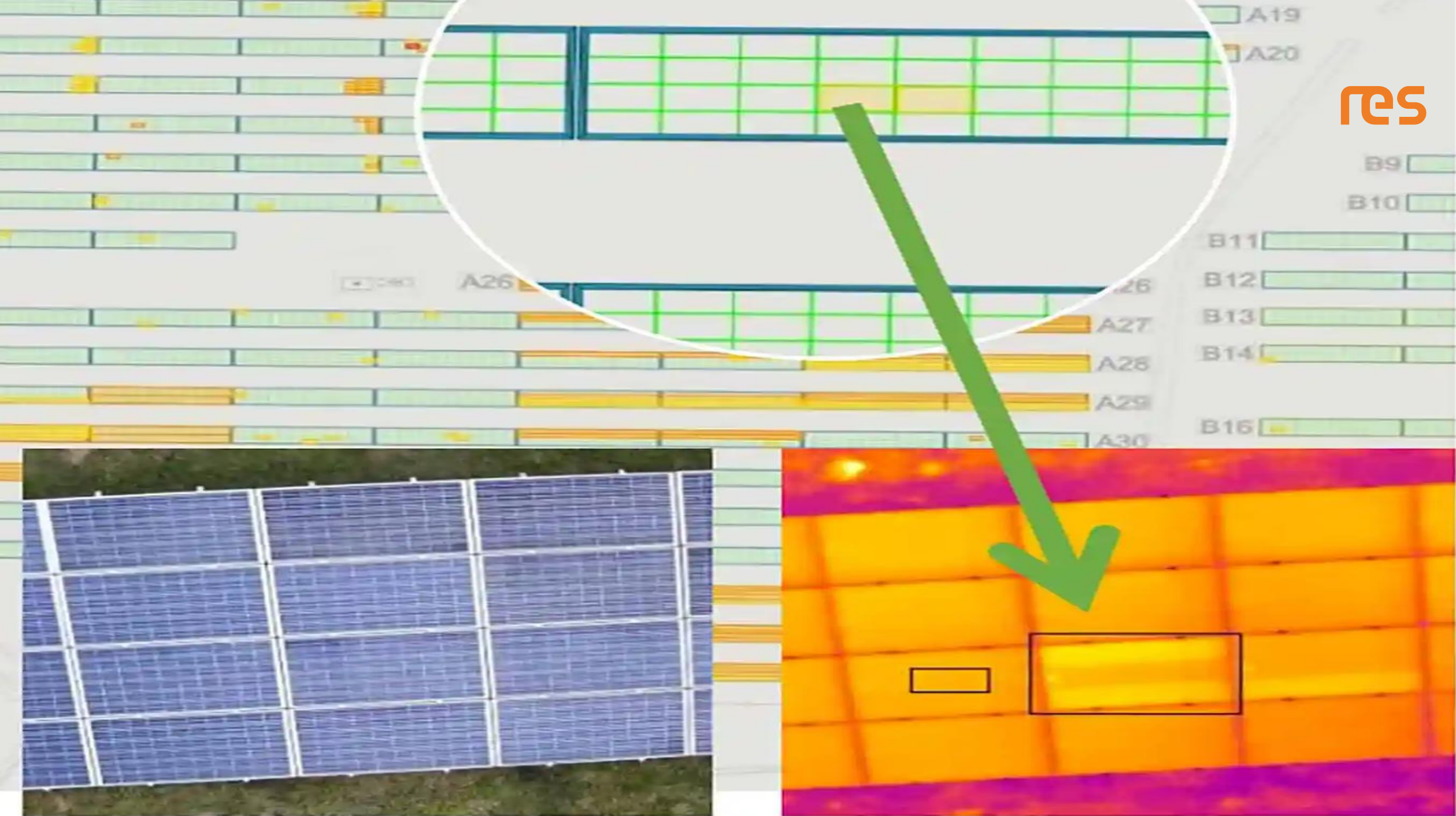
Off-the-Shelf

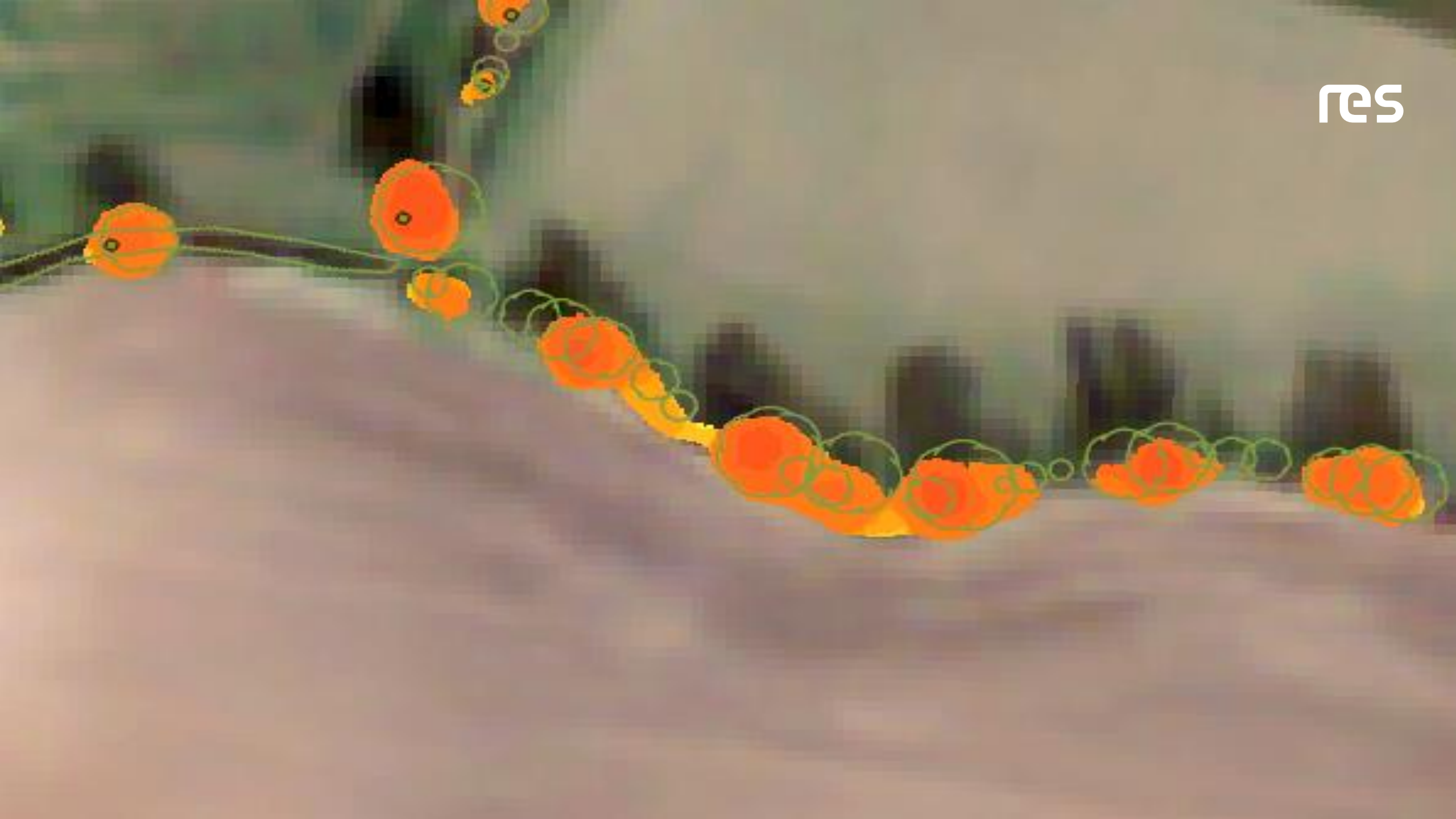


Digital Twin inspection platform

Medium
Risk

Medium
Payoff





Inspection and Maintenance Risks

- Heat Stress
- Fatigue
- MV Hazards



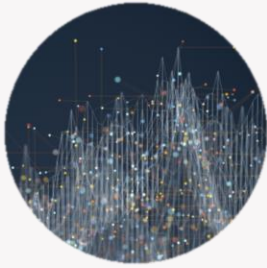




Digital Services

POWER
FOR
GOOD





Data Hydration

Unlock your data's true potential. Our hydration services enrich raw datasets, adding valuable context and insights for smarter decisions and innovation. Stay ahead in the data-driven world with us



Dashboards Analytics

Lay the groundwork for efficiency with our tailored data solutions. Lay the groundwork for impactful visualizations and analytics, driving optimization across your organization.



Advanced Services

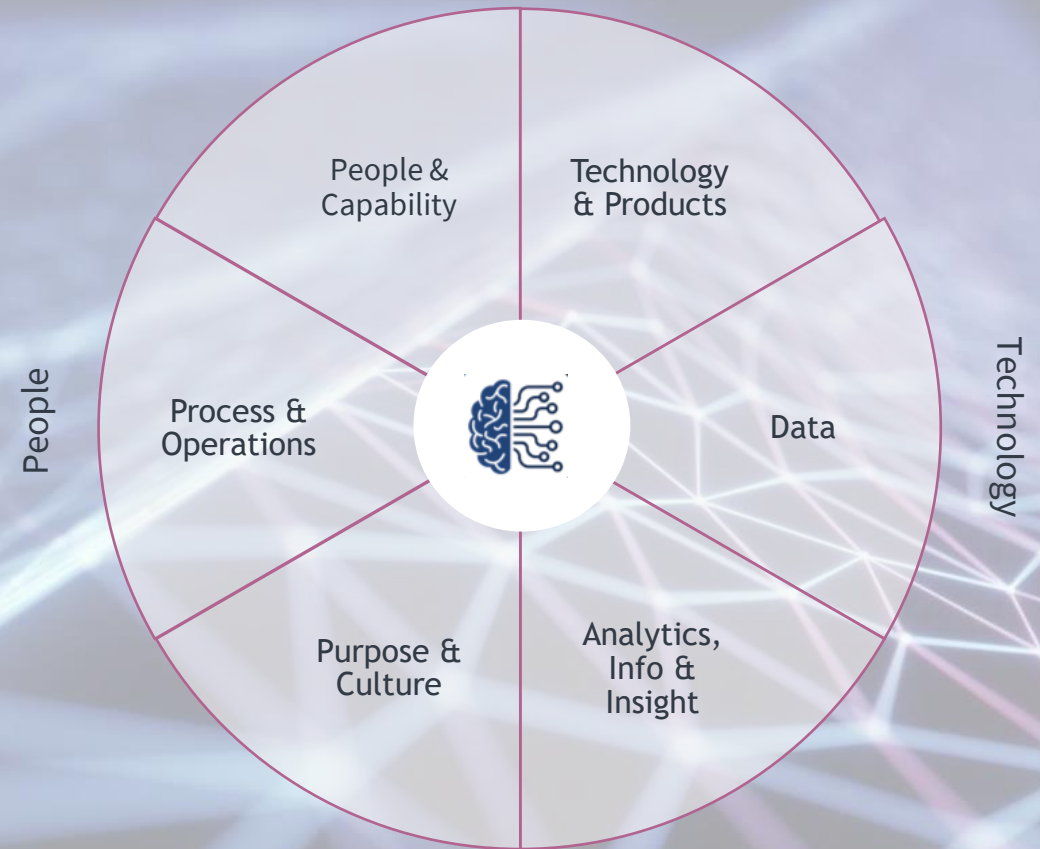
Accelerate your digital strategy with our comprehensive services for data literacy, program management, data governance & policy, data health & quality, bespoke technical solutions & software, offline studies / data science, & expert product services.





Why Advanced Services?

- Your business is unique and complex
- Deployment and adoption are challenging
- Skills gaps can lead to an under-realisation of value in digital tools
- Stay at the cutting edge of AI and machine learning



Digital-first projects and programs achieve outcomes faster by implementing human-centric digital solutions which support new ways of working.

res

Digital Solutions for Wind

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Software and Hardware Product Offerings



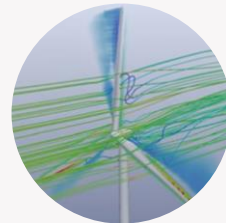
Yaw Control

Optimise overall wind farm production instead of individual turbines by steering turbines and sharing data, increasing production by 1-3%



AeroUp

Install blade furniture to decrease drag and increase lift, increasing production by 1-5%



TuneUp

Tune the turbine controller for site specific conditions, increasing production by 0.5-2.5%



AnemoLive

Unlock the power of your data – optimise production & lower operations costs



Safety

Leveraging software and hardware technology to take humans out of harms way

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Our Portfolio at a glance



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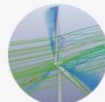
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Scan the QR code with your phone to

**Leave us your
details &
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survey to join us
in creating digital
solutions**