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27 June 2023

10.00 am – 11.00 am | PDT, Los Angeles 1:00 pm – 2:00 pm | EDT, New York City 7:00 pm – 8:00 pm | CEST, Berlin



Tristan Rayner

Editor

pv magazine



Smarter utility-scale solar construction with digital tools



James Pagonis
Vice President of Sales – North America
Above

Welcome!



Do you have any questions? ? 🙋

Send them in via the Q&A tab. We aim to answer as many as we can today!

You can also let us know of any tech problems there.

We are recording this webinar today.

We'll let you know by email where to find it and the slide deck, so you can re-watch it at your convenience.



27 June 2023

Smarter utility-scale solar construction with digital tools



James Pagonis
Vice President of Sales
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Topics for Discussion

Digital tools to help manage construction projects.

Above and the growth of solar

Solar construction technology at the beginning

Solar starts to evolve

The data revolution

Possibilities of
Digital
Construction
Management

Use Cases of
Digital
Construction
Management

Technology for the future



About Above

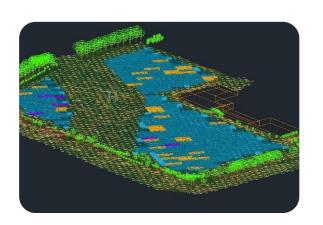
A holistic view of your asset health throughout the entire lifecycle. Using aerial, mobile and specific test data.







Development



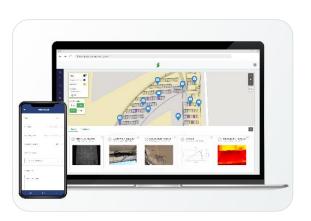
Construction



Commissioning

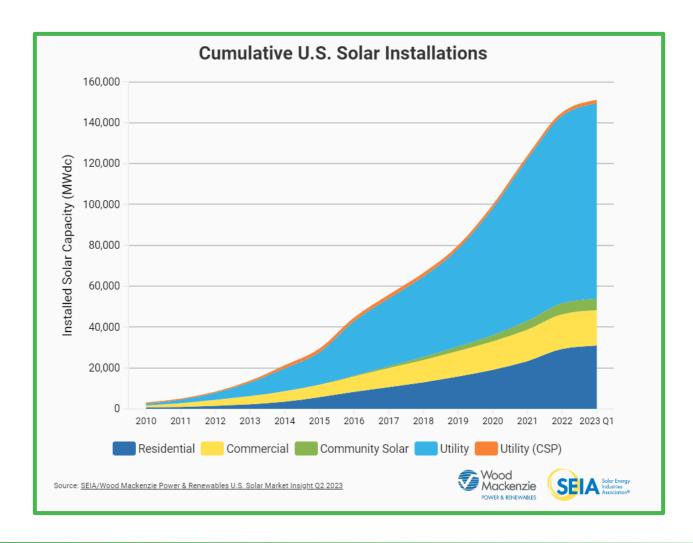


Operational Life



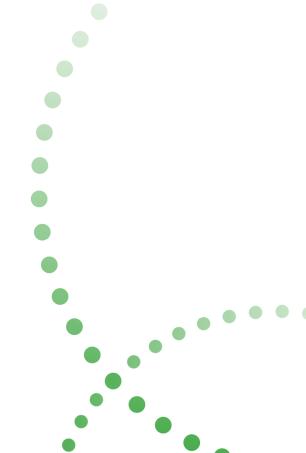


Industry Growth



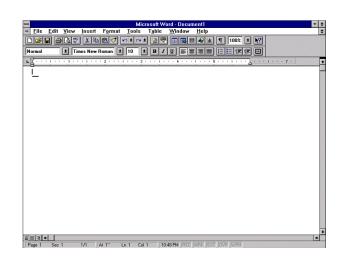


Solar Construction Technology at the Beginning



Solar Construction Technology at the Beginning











Disconnected information and small amounts of data

Early Challenges



Tracking progress

Lack of scale

Identifying problems and design changes

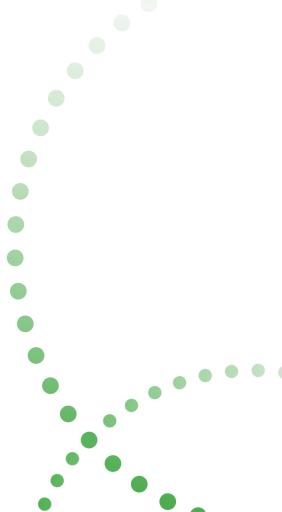
Inadequate infrastructure in remote areas

Technical limitations

Managing information between stakeholders



Solar starts to evolve



Solar starts to evolve









Solar Equipment Costs











Growing fast, better technology & lots more data



The Data Revolution



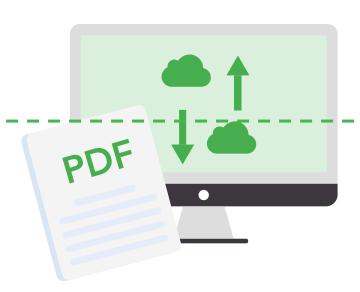
The Data Revolution



Manual data processing



Early adoption of software



Widely adopted globally

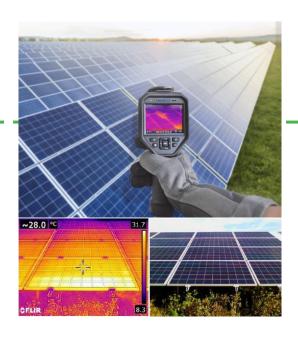


The industry starts to adopt solar specific software

The Data Revolution



Manual data collection



Early adoption of drones



Widely adopted globally



The industry starts to adopt drones



Possibilities of Digital Construction Management

2020 Today

Current Challenges



Labor Project size Shortages Less experienced labor

Cost pressure on construction and development costs

Solar in the next 5 years
Projects underperforming

Deliver 300+ GWs of

Transmission availability

Higher need for transparency



Use cases of Digital Construction Management – Increased efficiency

2020 Today









Centralize using smart digital twin technology

Best Practice: Solar construction

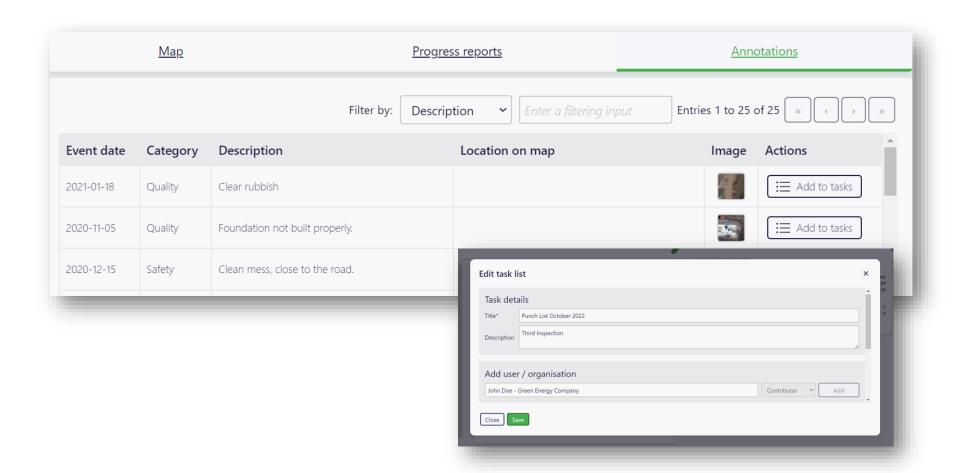


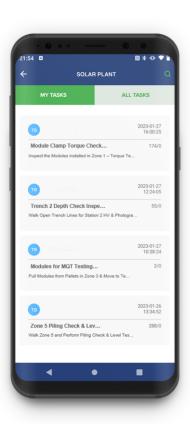


Easily monitor progress both visually and statistically

Best Practice: Solar construction





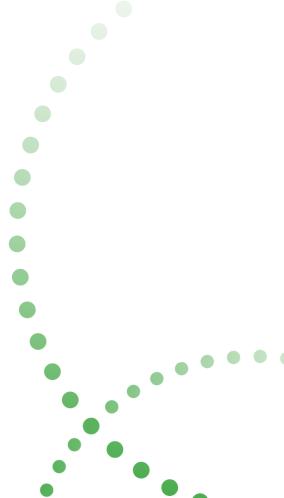


Interact with individual tasks both on desktop and mobile



Use cases of Digital Construction Management – Improved Quality

2020 Today



Successful digitalization in solar construction: Improved Quality







Freeing up engineering resources to focus on quality

Example: Deviations from as-designed

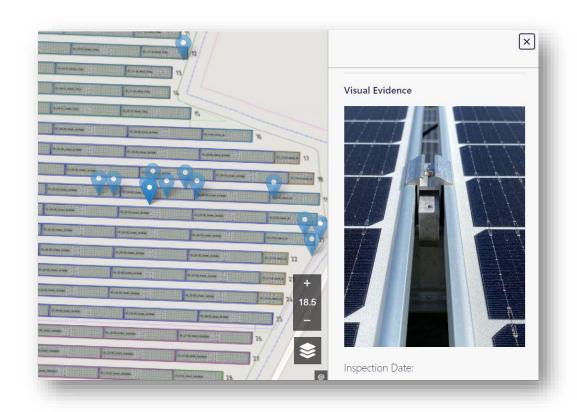




Identify construction issues

Example: Evidencing construction issue









Site with clamping issue evidenced via mobile app

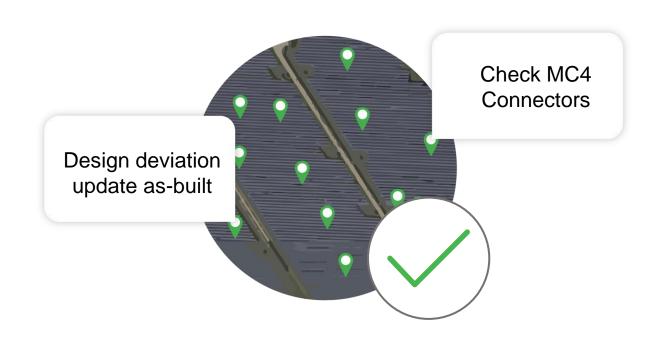


Use cases of Digital Construction Management – More Power

2020 Today

Successful digitalization in solar construction: More Power

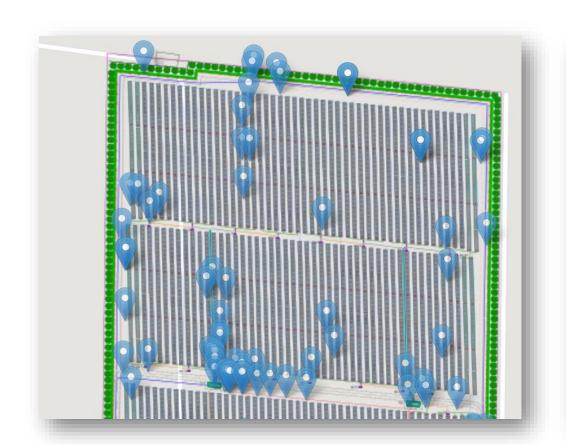


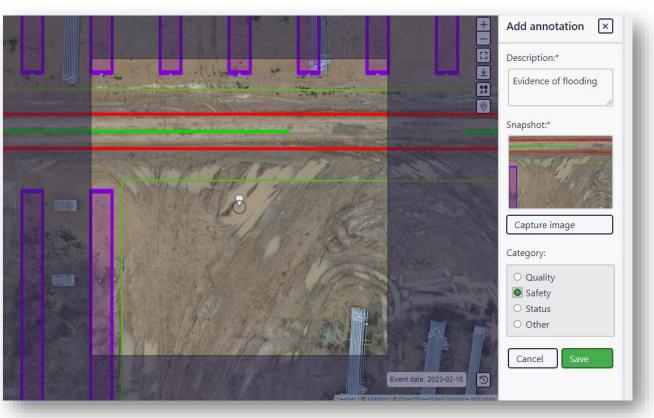


Connecting data points in digital twin technology

Best Practice: Solar construction





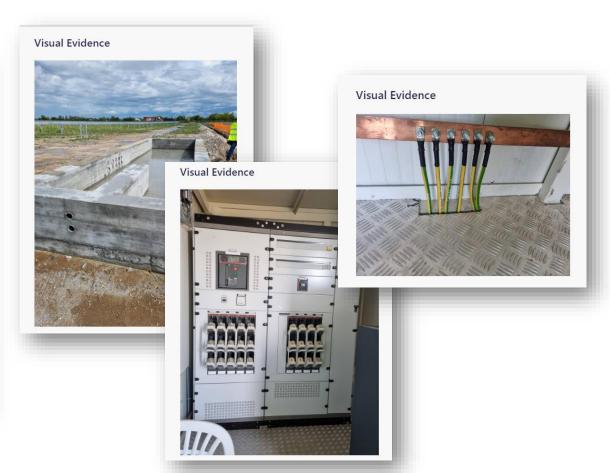


Annotate and evidence items geospatially and per component

Example: Track component history



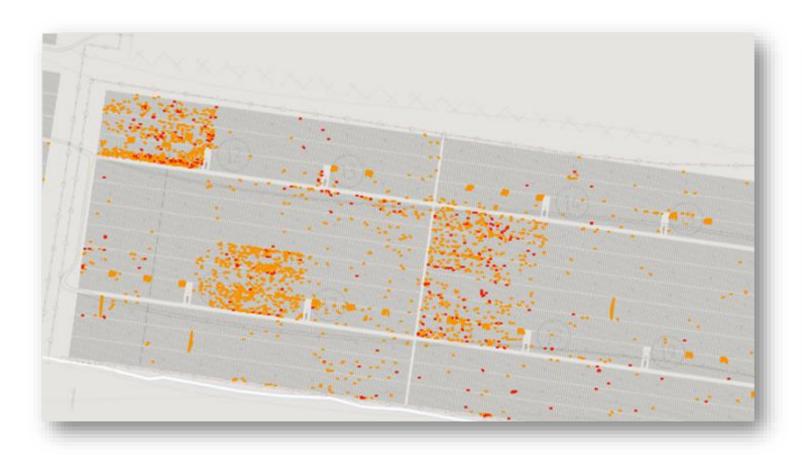
	X Information
	Name:
	History Visual Evidence
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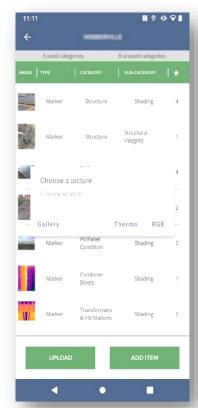


Build complete asset health registry – component based

Best Practice: Solar commissioning





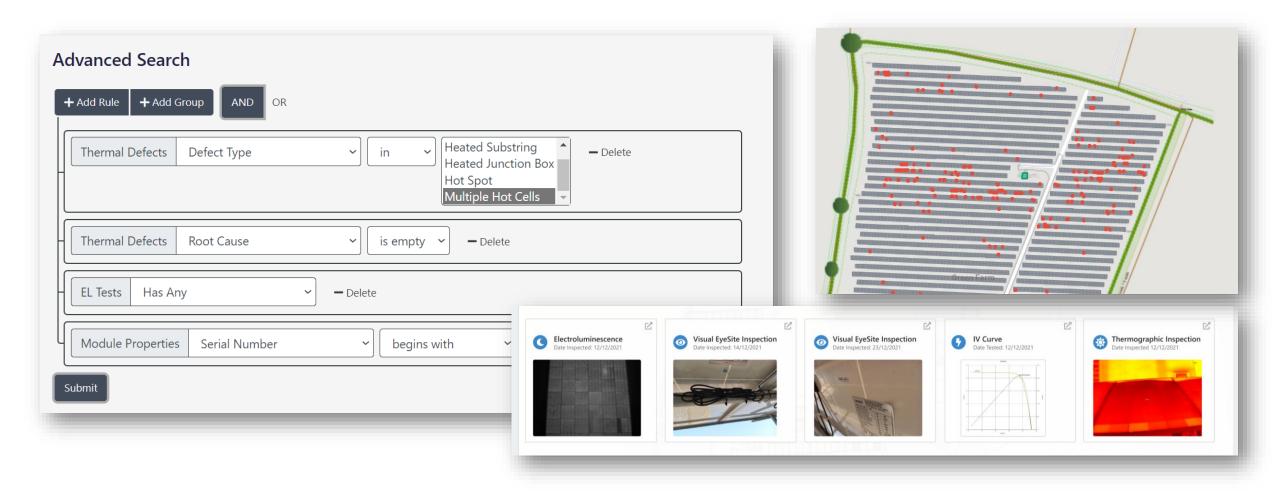




Evidence and collect any test data digitally

Use case: Preventative maintenance

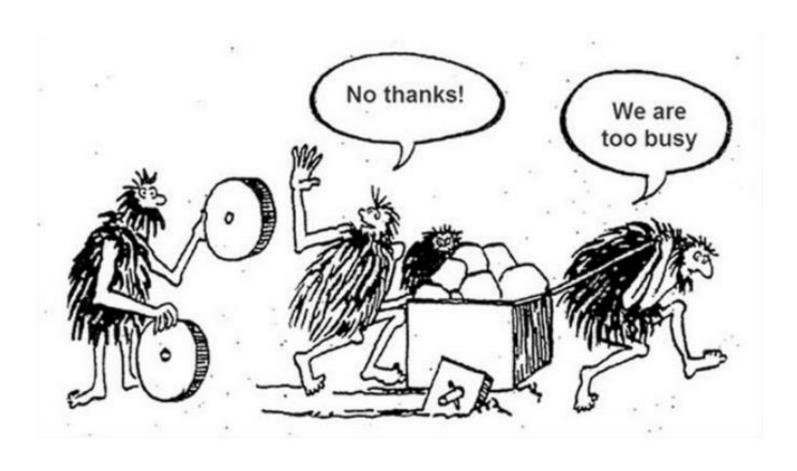




Analyse all test data in a smart and connected way

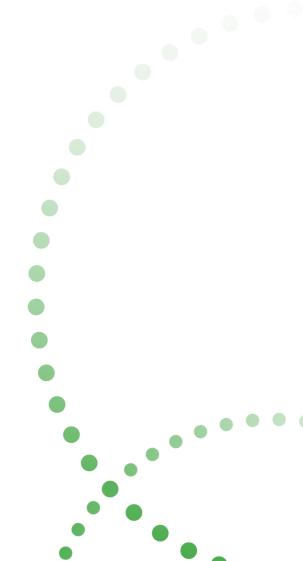
Adoption – don't get left behind





Technology for the future





Technology for the future



Autonomous drones



Augmented reality



Al and predictive analytics



Get in touch

\$30 Billion

In inspected asset value

3500+

Solar projects worldwide

1500+

Software users

500+

Companies using our solutions

341

Delivery partners in 49 countries



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Q&A



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The latest news | print & online



Flywheel mechanical battery with 32 kWh of storage in Australia

by Bella Peacock



Main causes of solar performance issues

by Ryan Kennedy



Mostread online!



Coming up next...

Wednesday, 28 June 2023

11:00 am – 12:00 pm EDT, New York City 5:00 pm - 6:00 pm CEST, Berlin

Wednesday, 5 July2023

3:00 pm – 4:00 pm CEST, Berlin 5:00 pm – 6:00 pm GST, Dubai Many more to come!

Weather parameters and their effects on PV performance

Right on Smart Track: Bankability criteria for singleaxis trackers In the next weeks, we will continuously add further webinars with innovative partners and the latest topics.

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www.pv-magazine.com/webinars

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pv magazine

Thank you for joining today!