AWS re:Invent

NOV. 29 – DEC. 3, 2021 | LAS VEGAS, NV

ENR202

How Shell is accelerating innovation and embracing the energy transition

Howard Gefen
GM Energy
AWS

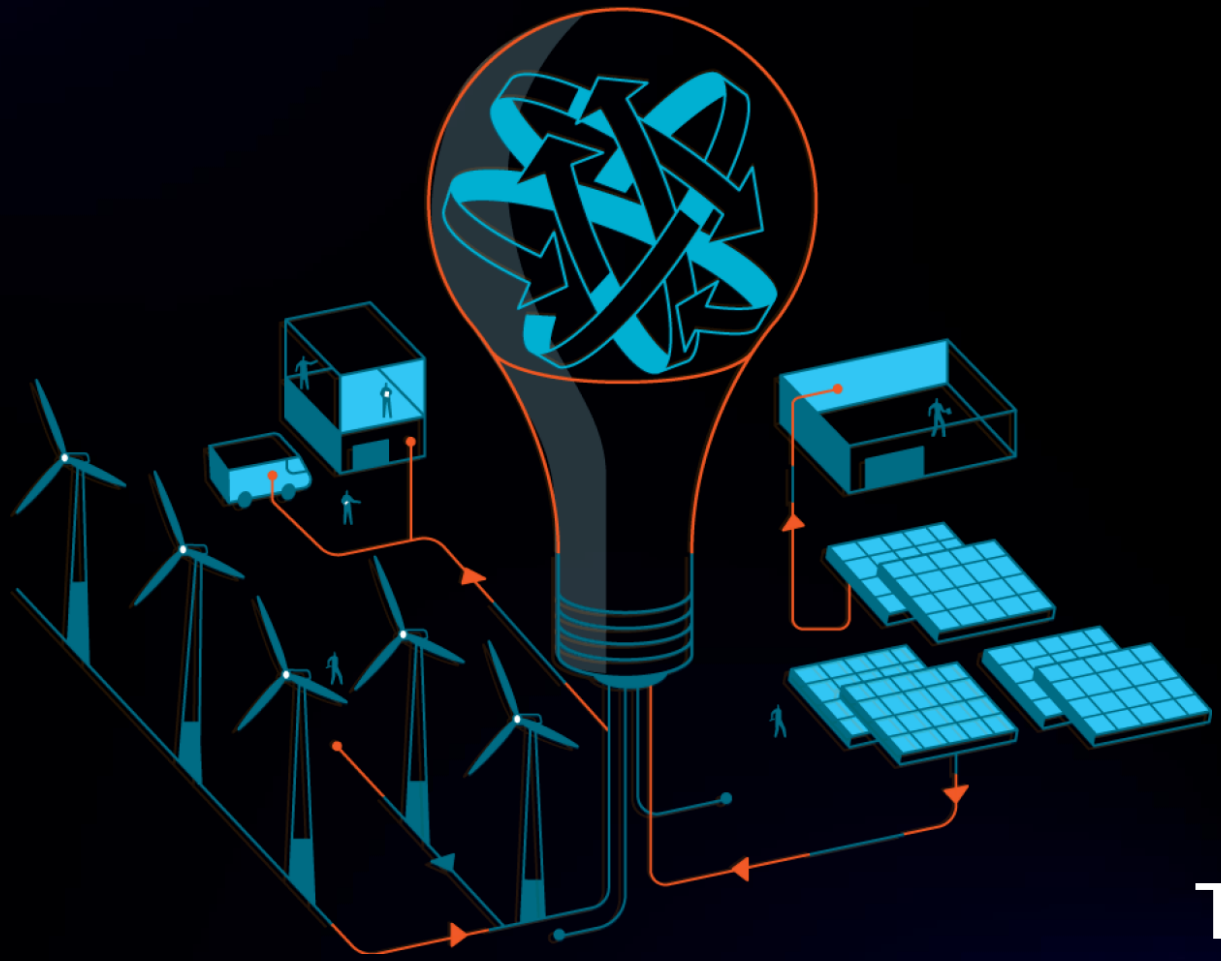
Dan Jeavons
VP, Computational Science & Digital Innovation
Shell Energy

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The Energy Transition is underway

Growth in investment

Renewables generation

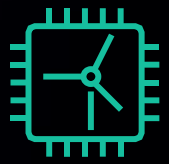


Pace of innovation

Transformation

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New opportunities create unique challenges



Convergence of the energy value chain



Increasing grid complexity



Scaled innovation gap

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AWS Energy was formed to help address this global challenge



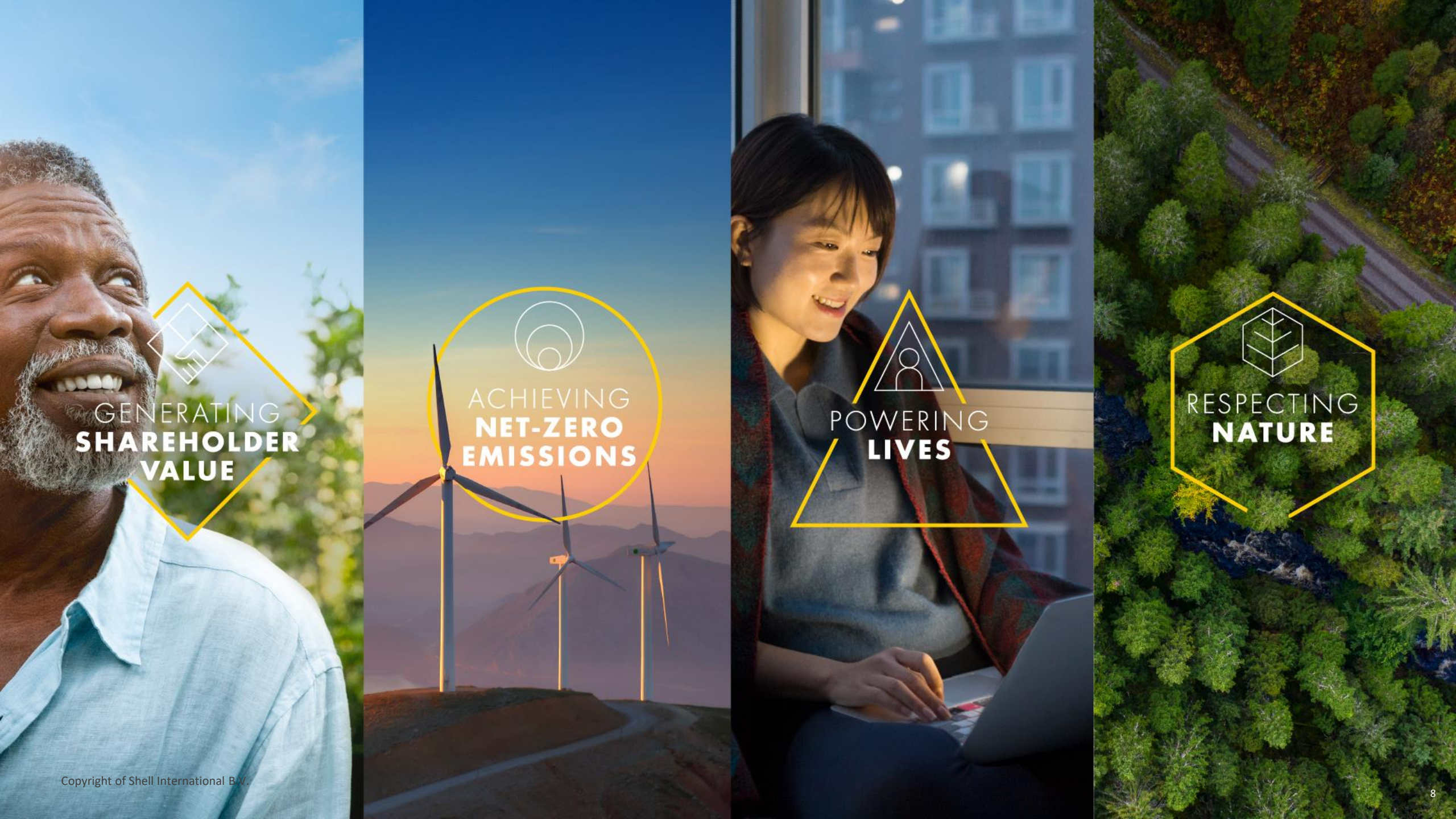
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How Shell is Accelerating Innovation and Embracing the Energy Transition

Dan Jeavons
Vice President Computational Science and Digital Innovation

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We use digitalization and AI to drive efficiency in our existing businesses, and to create new ones, and the pace of digital adoption is accelerating

$2 bln
Enabled by digitalization in 2020, doubling value from 2019

100+
AI-powered applications in development and deployment

1.9 trn
Rows of sensor data in data lake

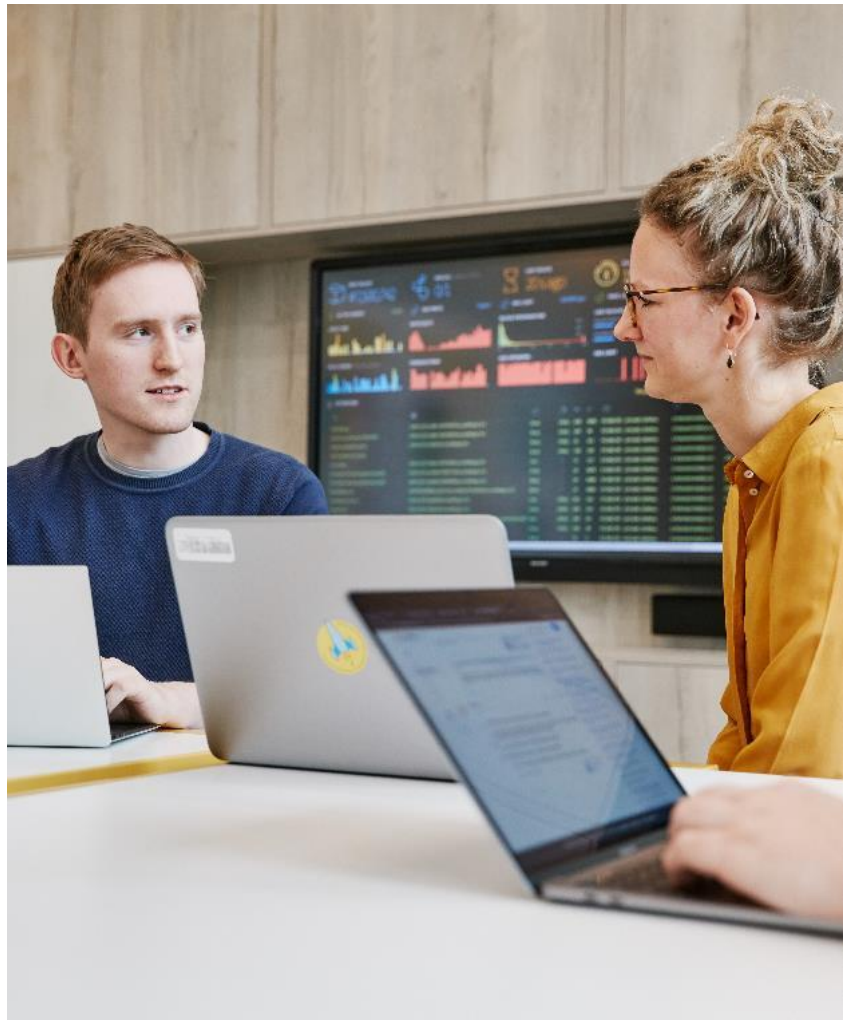
8700+
Pieces of equipment monitored by AI

10x
Increase in use of virtual rooms powered by augmented reality

2.4 mln
Registered users of AI powered loyalty program with 50 mln rewards issued

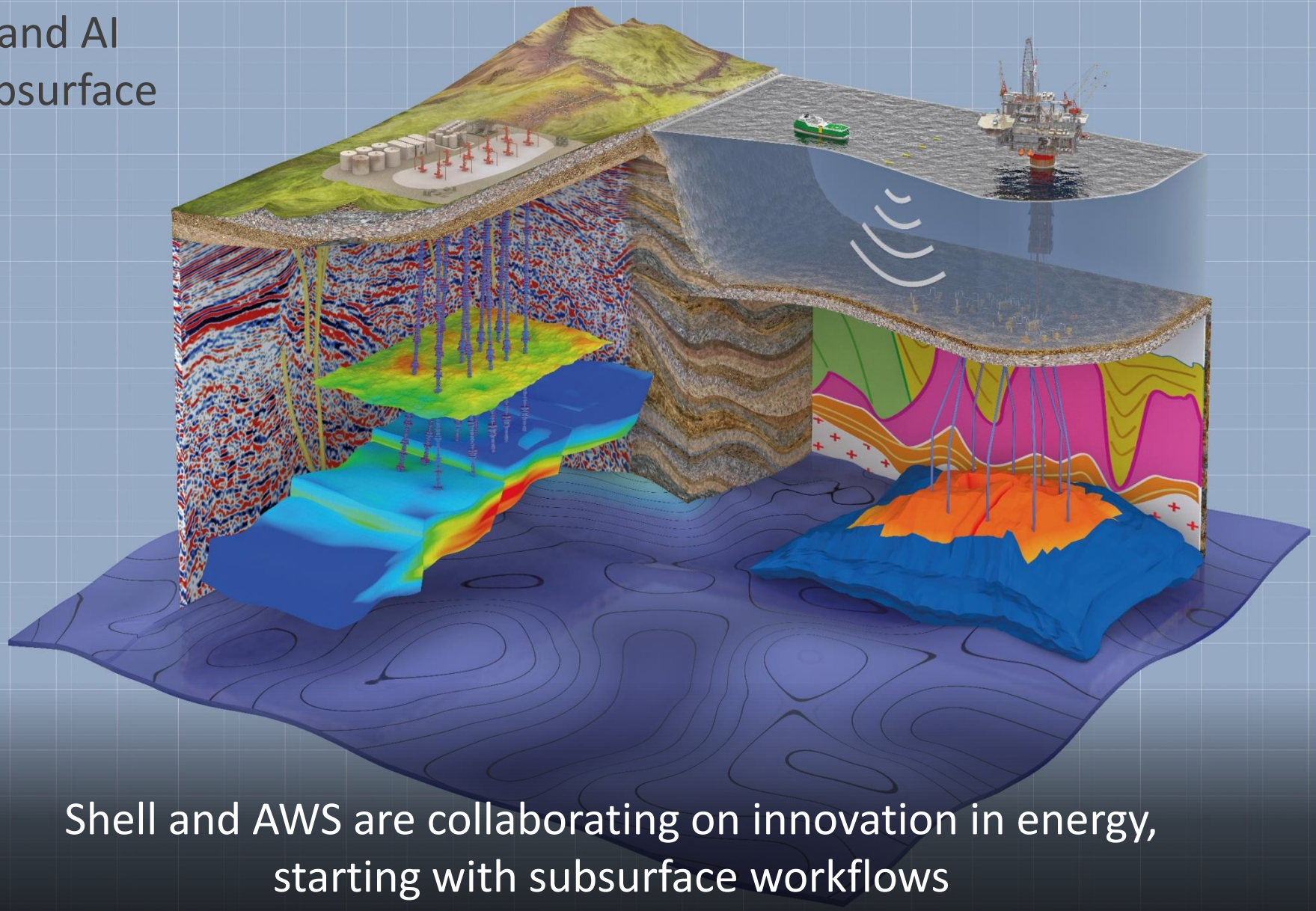
~350
Staff in math & computer science discipline + 800 citizen data scientists

5000+
Members of the Shell.ai network



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Digitalization and AI optimizing subsurface processes



Shell and AWS are collaborating on innovation in energy, starting with subsurface workflows

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Embedding AI across all our businesses









Our strategic relationship with AWS, across renewables and energy solutions, is enabling us to continue pushing the boundaries of innovation

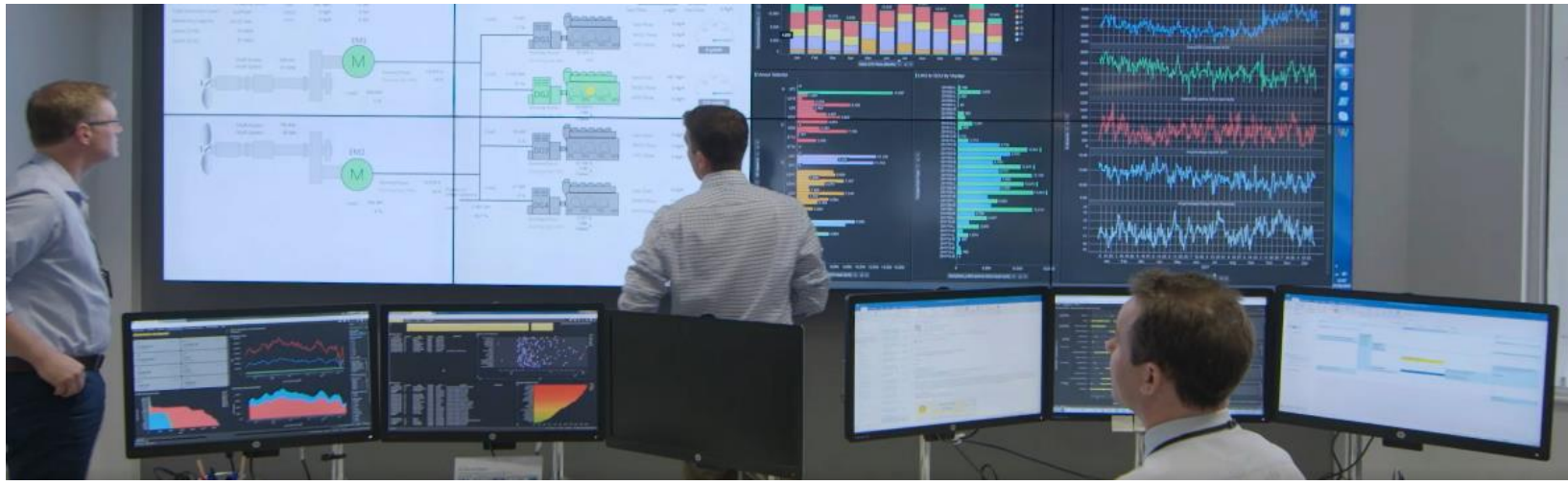
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Collaboration is key









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Thank you!

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https://shell.com/digitalisation

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