The Role of Data and Standards in our Modernization and Transformation Journey

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Digitization – the fourth industrial revolution

1\textsuperscript{st} revolution
18\textsuperscript{th} century

Water/steam

2\textsuperscript{nd} revolution
19\textsuperscript{th} century

Electrification

3\textsuperscript{rd} revolution
20\textsuperscript{th} century

Automation

4\textsuperscript{th} revolution
21\textsuperscript{st} century

Digitization

Source: BP Technology Review, 2018
Digitization – will have a significant impact on world energy systems

We estimate that application of digital tools, including sensors, supercomputing, data analytics, automation and artificial intelligence (AI), all supported by the networked computers of the ‘cloud’, could reduce primary energy demand and costs in sectors of the energy system by 20-30% by 2050.

Source: BP Technology Outlook, 2018
Our Purpose

We solve big complex challenges with our data and technology expertise to advance the energy transition.

Source: BP IT&S
The Modernise IT programme has been established to drive changes with work structured against 4 levers:

1. **Sourcing and skills** - Transforming from a facilitating to a doing IT organisation by getting the balance right between BP staff and external vendors and building the digital capabilities to support this

2. **New ways of working** - empowering our people by combining build, run and change activities and by adopting agile and DevOps practices to work faster and more flexibly

3. **Platforms & Automation** - Defining the core platforms for IT&S, equipping the organisation to transition to operate these whilst identifying opportunities for automation to reduce costs, improve effectiveness and modernize our offering

4. **Application transformation** - Removing complexity and cost through a simplified application landscape, identifying and delivering changes to applications to work best in a cloud environment.

These changes are in addition to the **Cloud Transformation** (+1)
Role of standards

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**PIDX Standards** help drive eBusiness adoption, integration cost reduction, and improve overall Business Processes Efficiencies.

Source: BP IT&S
Q&A