

BHP

Jansen Project digital strategy

Mike Elliott
4 April 2019



About BHP

We are a leading global resources company

Our strategy is to own and operate large, long-life, low-cost, expandable, upstream assets diversified by commodity, geography, and market.

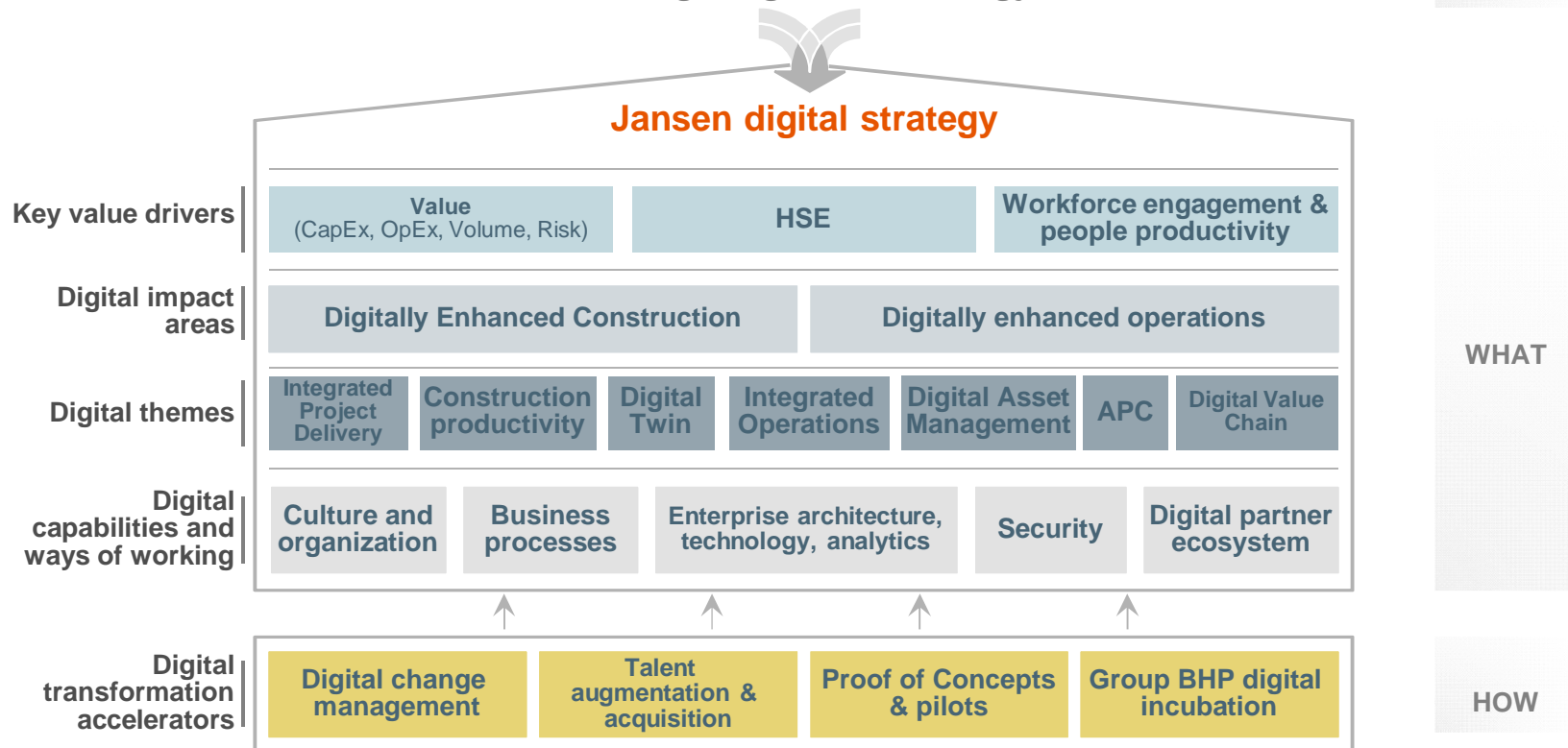
We are among the world's top producers of major commodities, including iron ore, metallurgical coal, and copper and have substantial interests in oil, gas and energy coal.

We also have a global footprint with nine core operated assets, including the Jansen Project.



Jansen digital strategy is aligned to key value drivers

"A fully digital, revolutionary way to build and operate Jansen to be the benchmark and deliver measurable and sustainable value through digital technology"*



*The Jansen Project remains subject to approval by the Board of BHP

Digital themes target both project and operational value



Integrated Project
Delivery



Digital Twin



Construction
Productivity



Digital Asset
Management

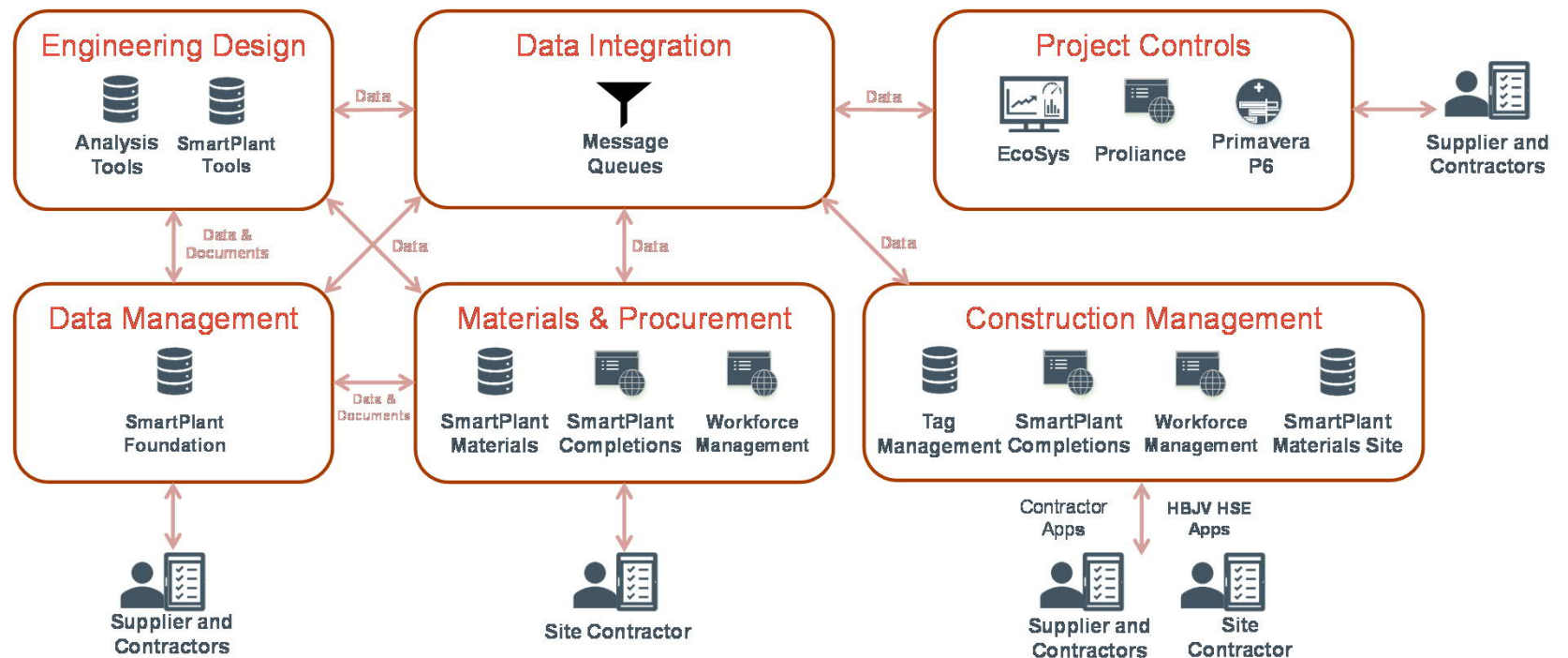


Integrated
Operations



Digital Value
Chain

Project delivery based on an integrated systems architecture



A data-centric approach to project delivery



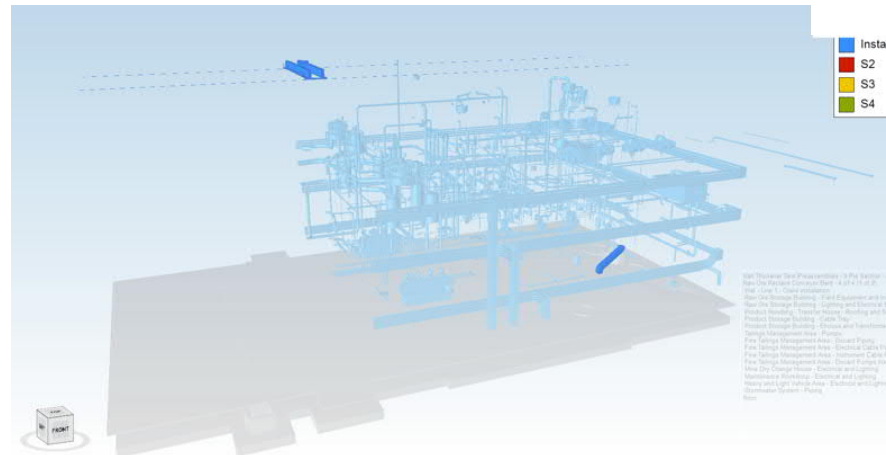
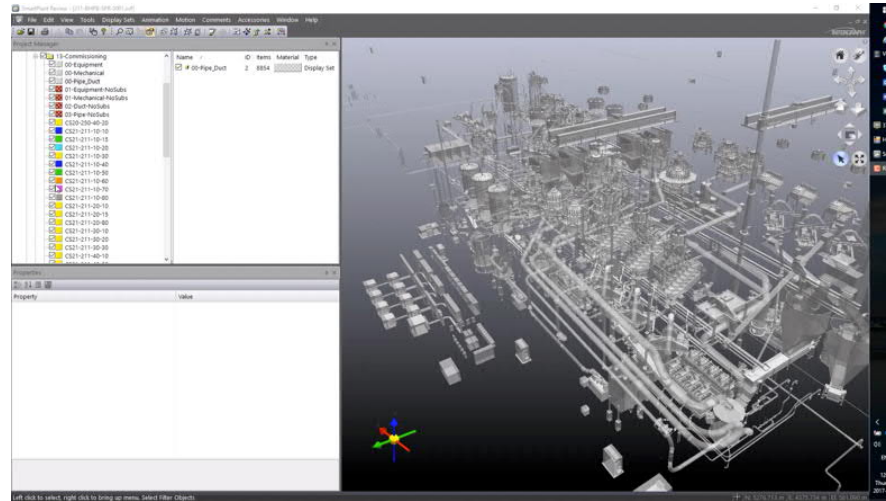
Integrated Project
Delivery



Construction
Productivity



Integrated
Operations



Digital Twin



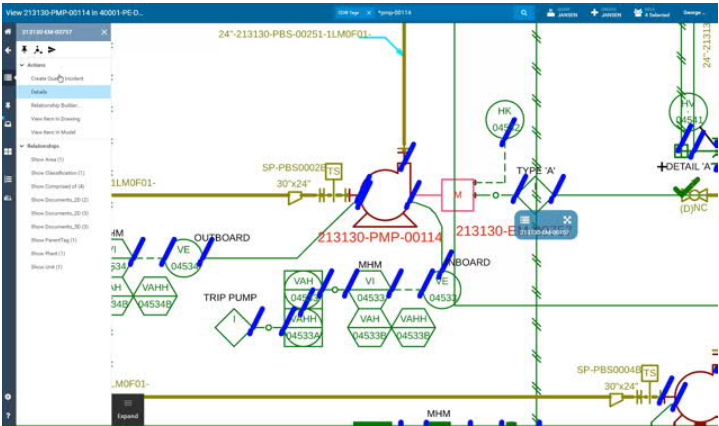
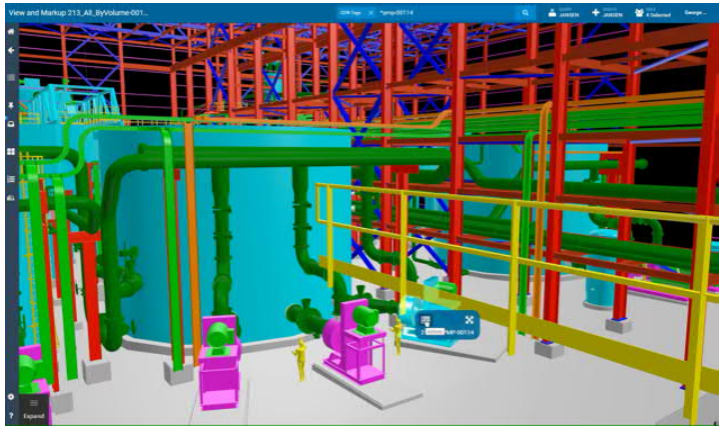
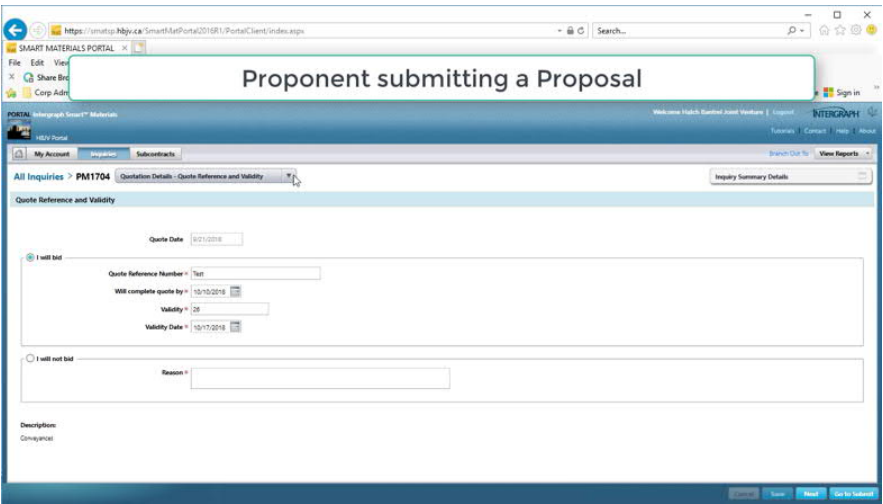
Digital Asset
Management



Digital Value
Chain


BHP

Supplier portal for project information



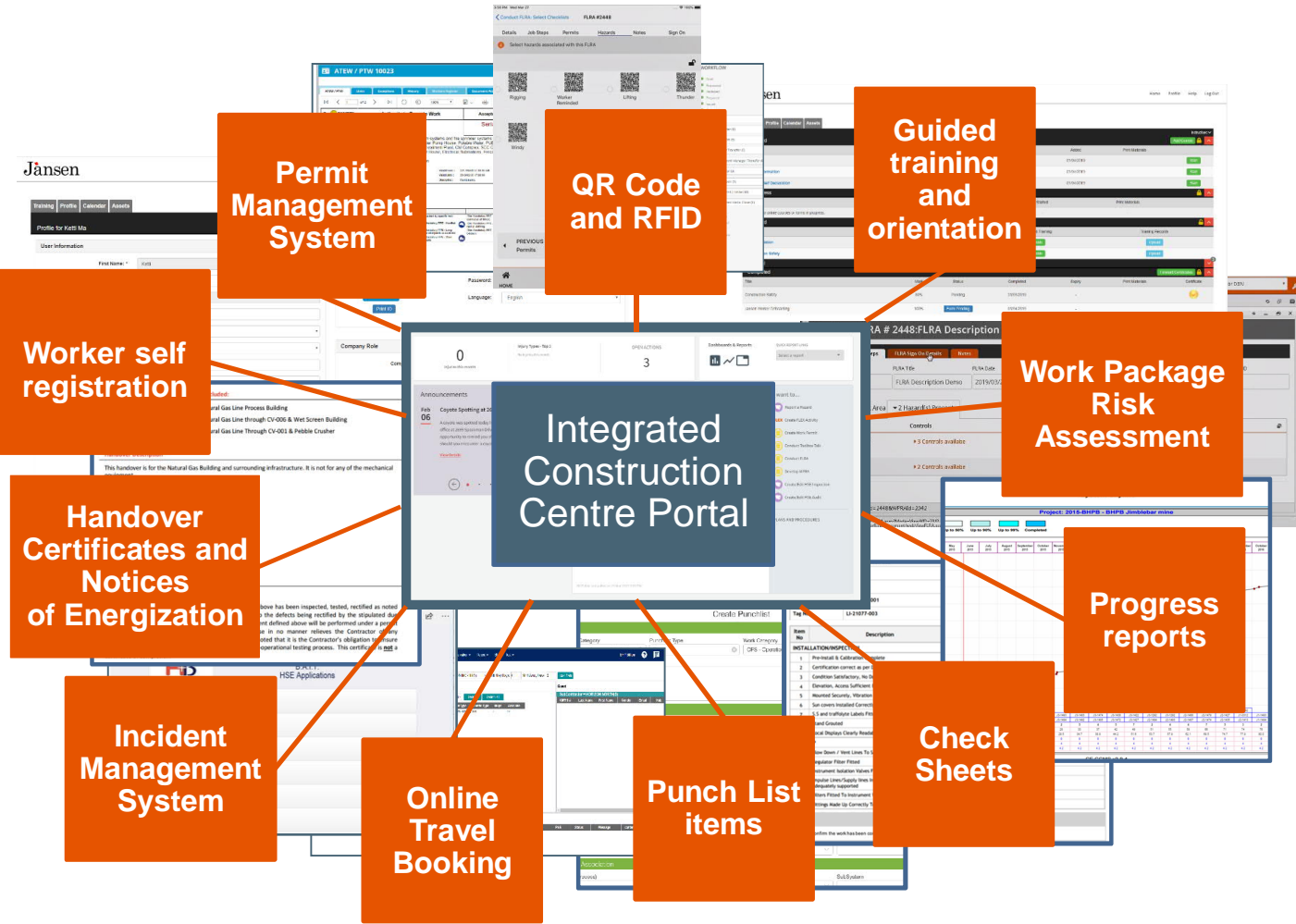
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Integrated Construction Centre Portal


Integrated Project
Delivery


Construction
Productivity


Integrated
Operations




Digital Twin


Digital Asset
Management


Digital Value
Chain

Remote Operating Centers (ROC)



Integrated Project
Delivery



Construction
Productivity



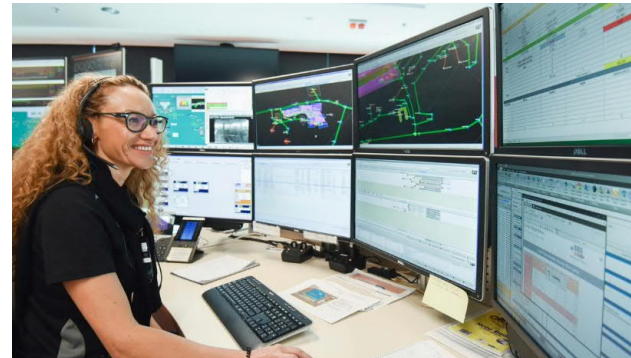
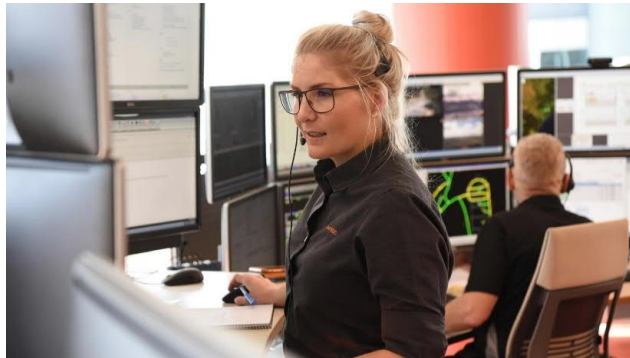
Integrated
Operations



Digital Twin



Digital Asset
Management



Digital Value
Chain

BHP

Step change in safety and productivity through automation



Integrated Project
Delivery



Construction
Productivity



Integrated
Operations



Digital Twin




Digital Asset
Management



Digital Value
Chain

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Predictive maintenance



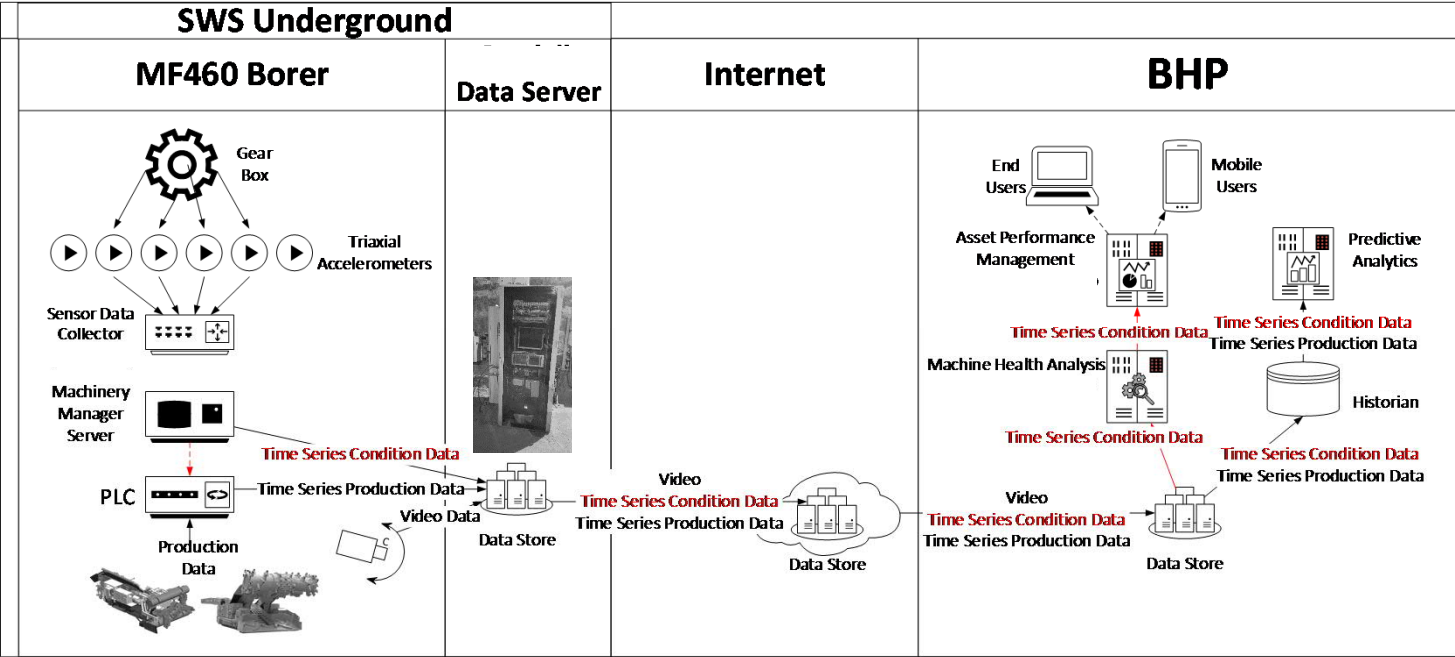
Integrated Project Delivery



Construction Productivity



Integrated Operations





Digital Twin



Digital Asset Management



Digital Value Chain

...and putting this into the hands of our people



Integrated Project
Delivery



Construction
Productivity



Integrated
Operations



Digital Twin



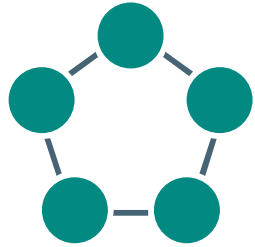
Digital Asset
Management



Digital Value
Chain

BHP

Supported by a digital fabric



Integrated
enterprise
architecture



Culture and
organization



Business
processes



Digital
Partners



Cyber security

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