



Digital Ecosystem in Mining

... Towards the Innovation of Motion

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By combining the real and the digital worlds, Siemens empowers its customers to master their digital transformation and sustainability challenges

Innovation

**Real
World**

INNOMOTICS

A Siemens Business

**digital
worlds**

Motion

Ecoefficient Portfolio

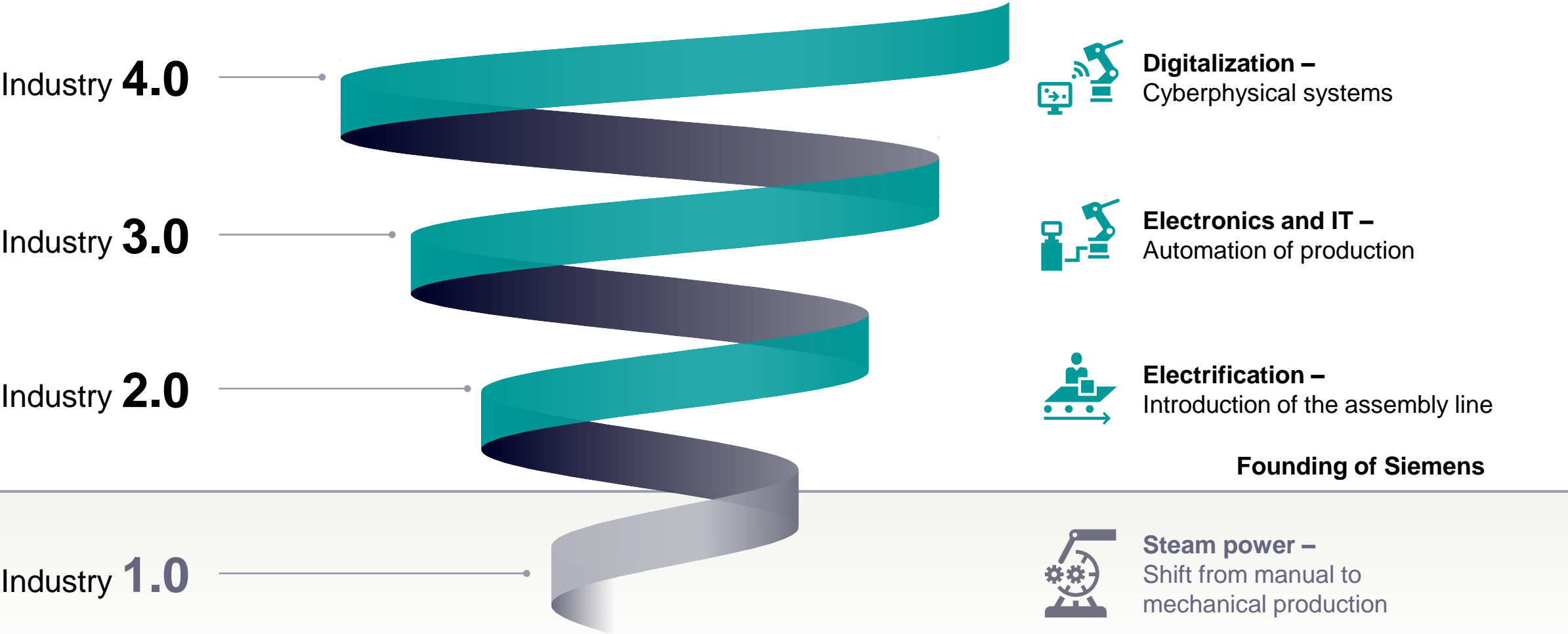
Digitalization

People's Safety

Diversity

Operational Excellence

Siemens has been shaping industrial revolutions *Innovating Industrial Motion*



Research & Innovation Driven Portfolio Development



Productivity



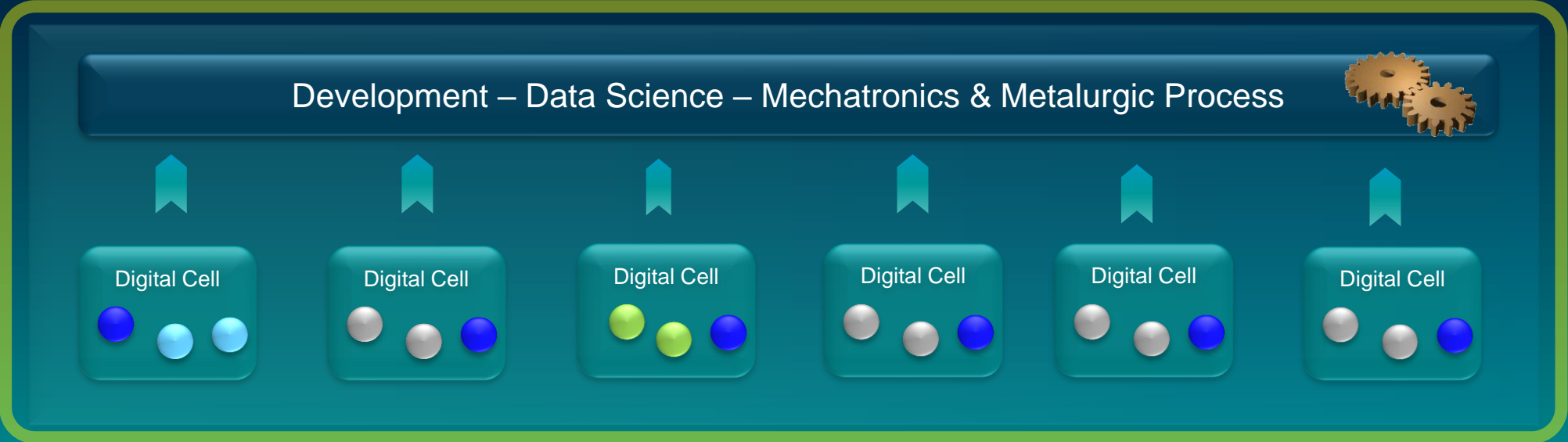
Sustainability



Operational Safety



Digital Mine



Digital Mine

Virtual Reality – Augmented Reality – Mobile Maintenance

Design → Engineering → Construction → Operation → Maintenance





On the Go Maintenance with Mobile Apps

Holistic solution and service to the Industrial Internet of Things (IIoT)

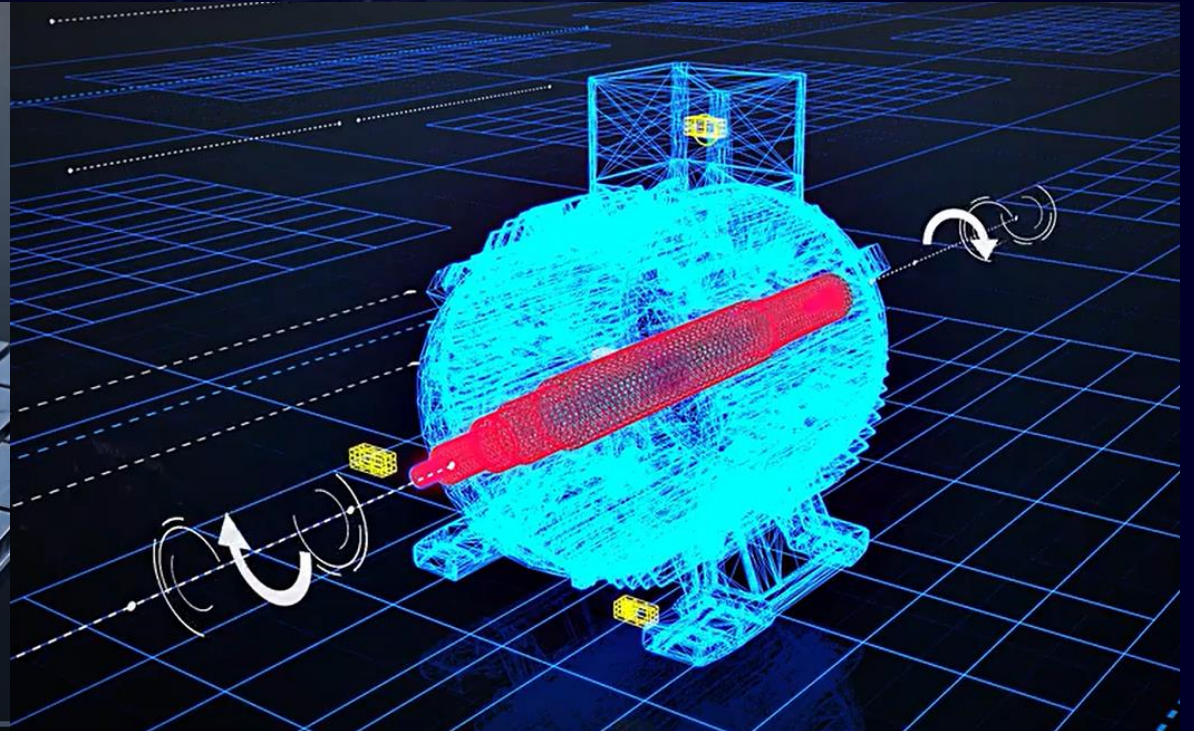
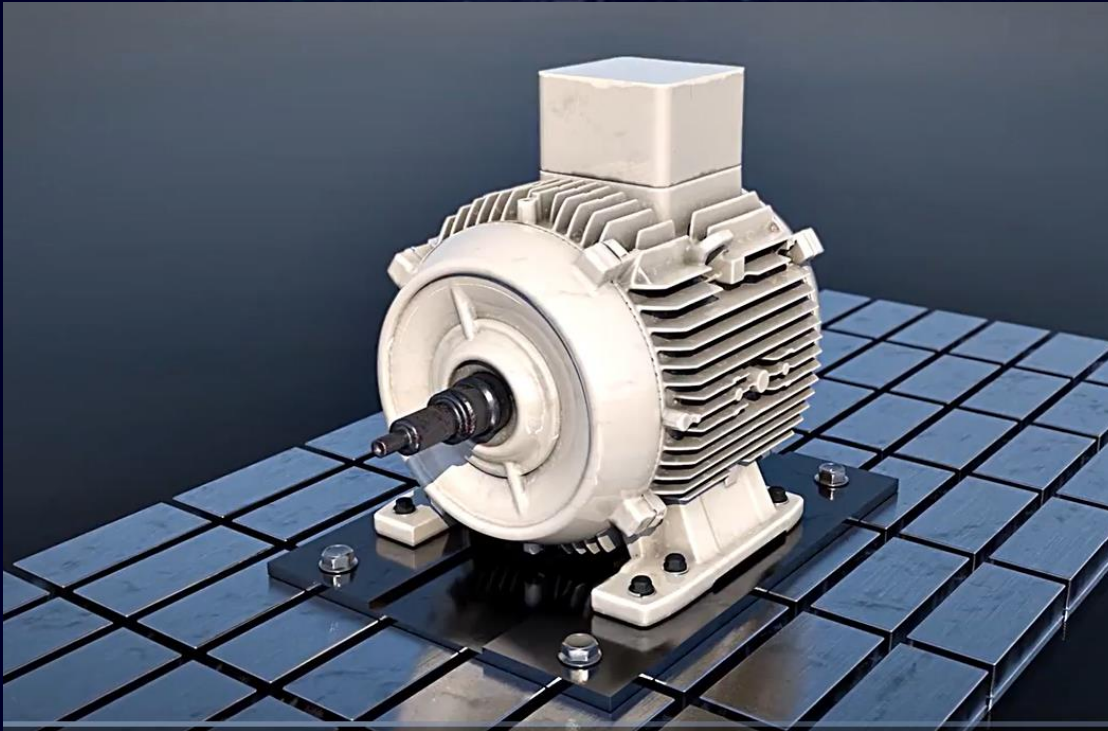
Drives – Motors - GMDs

SIDRIVE IQ / Asset Health Analytics

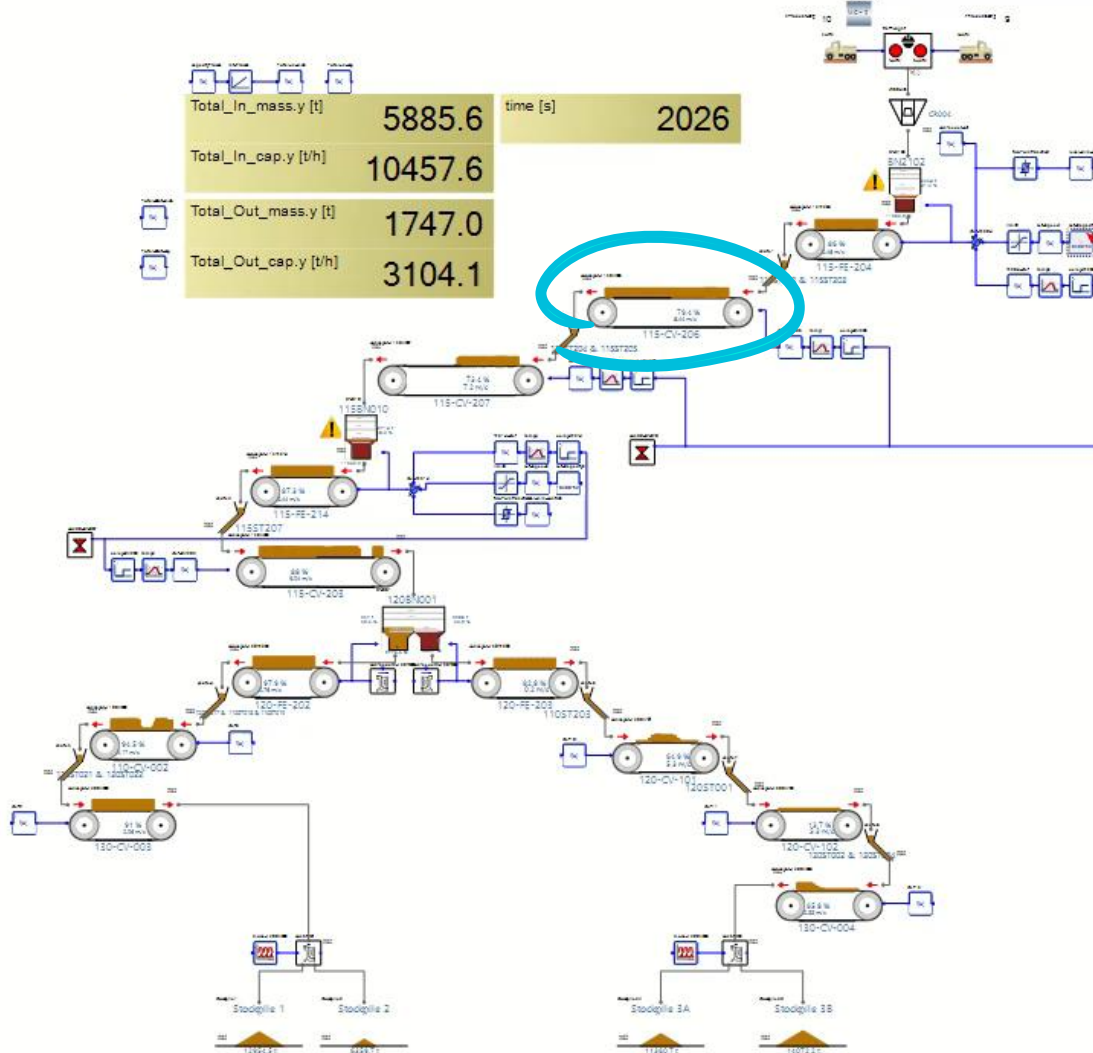


Digital Twins

Virtual Critical System Assets



Digital Twin for Crushing & Transport Process



Digital Twin Solution benefits ...

... get process insights e.g., @ interfaces pit/ crusher/
conveyor belts

... analyze the process as a whole

... detect bottlenecks e.g., @ transfer stations

... test new control algorithms

... understand impact of changes in machines/ plant



Thank you!

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