

INNOVATION

Atlas Copco Capital Markets Day 2014

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Business Area President

Mining and Rock Excavation Technique

Atlas Copco



AGENDA

1. Innovation drivers
2. How do we work with innovation
3. Innovations
4. Summary



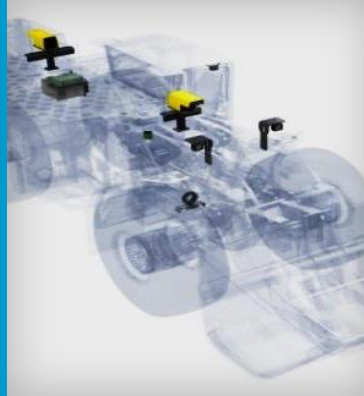
INNOVATION DRIVERS

Trends

Increased demand for natural resources



Increased demand for automation / fleet management and safety



Focus on energy efficiency and carbon footprint



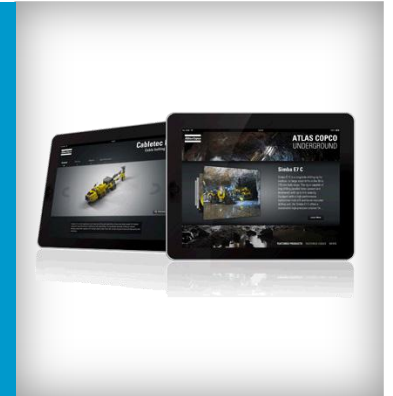
Growth in emerging markets' middle segment



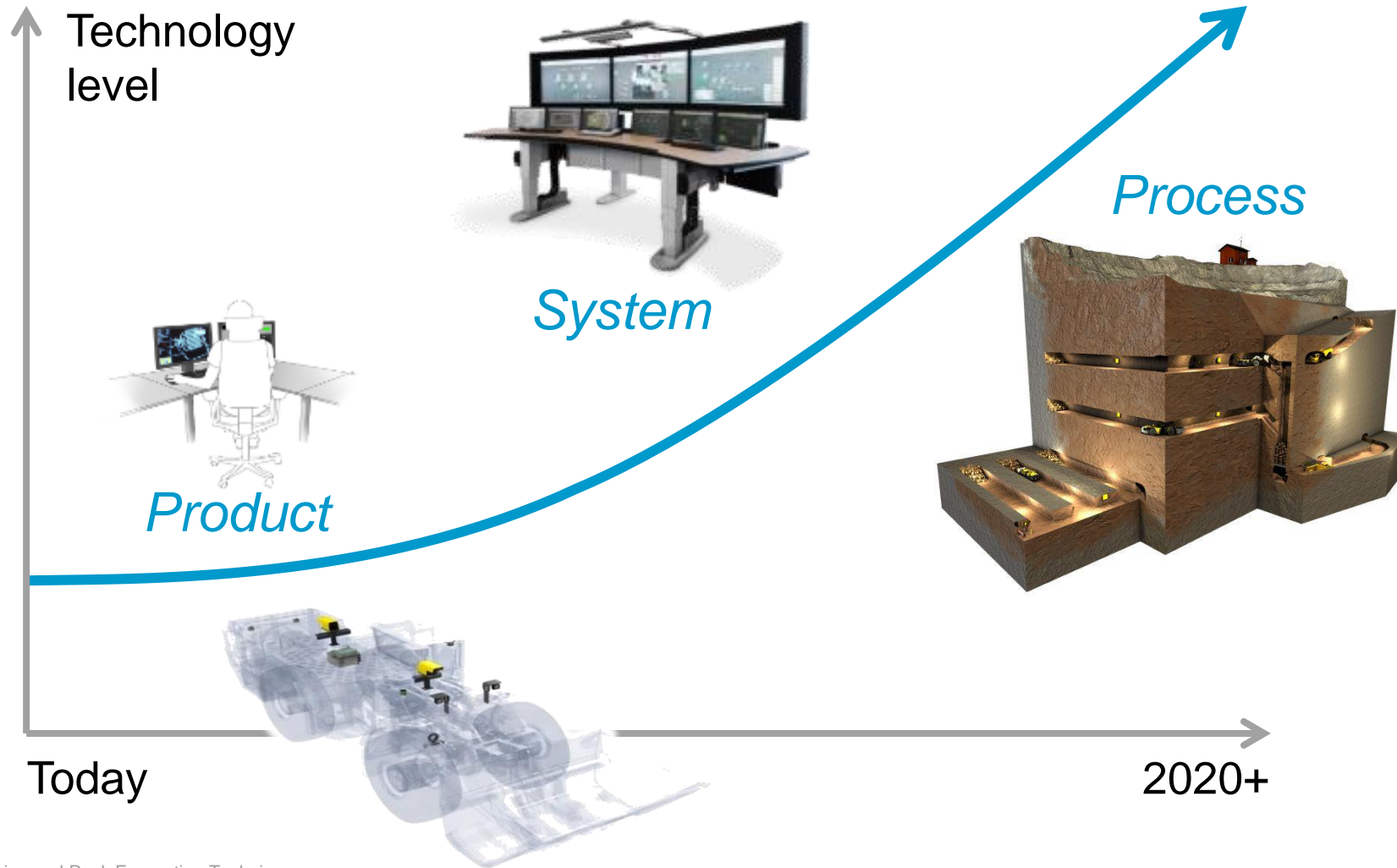
A growing demand for competent labor



Quicker communication and availability of information



HOW WE WORK WITH INNOVATION



Short term and long term simultaneously

PRODUCT INNOVATION

ST 18 loader



PRODUCT INNOVATION

Differentiated value proposition



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SHENYANG
CONSTRUCTION & MINING



SERVICE INNOVATION

Training

Rig Scan

Service packaging



CONSUMABLES INNOVATION



Threaded equipment
...and more

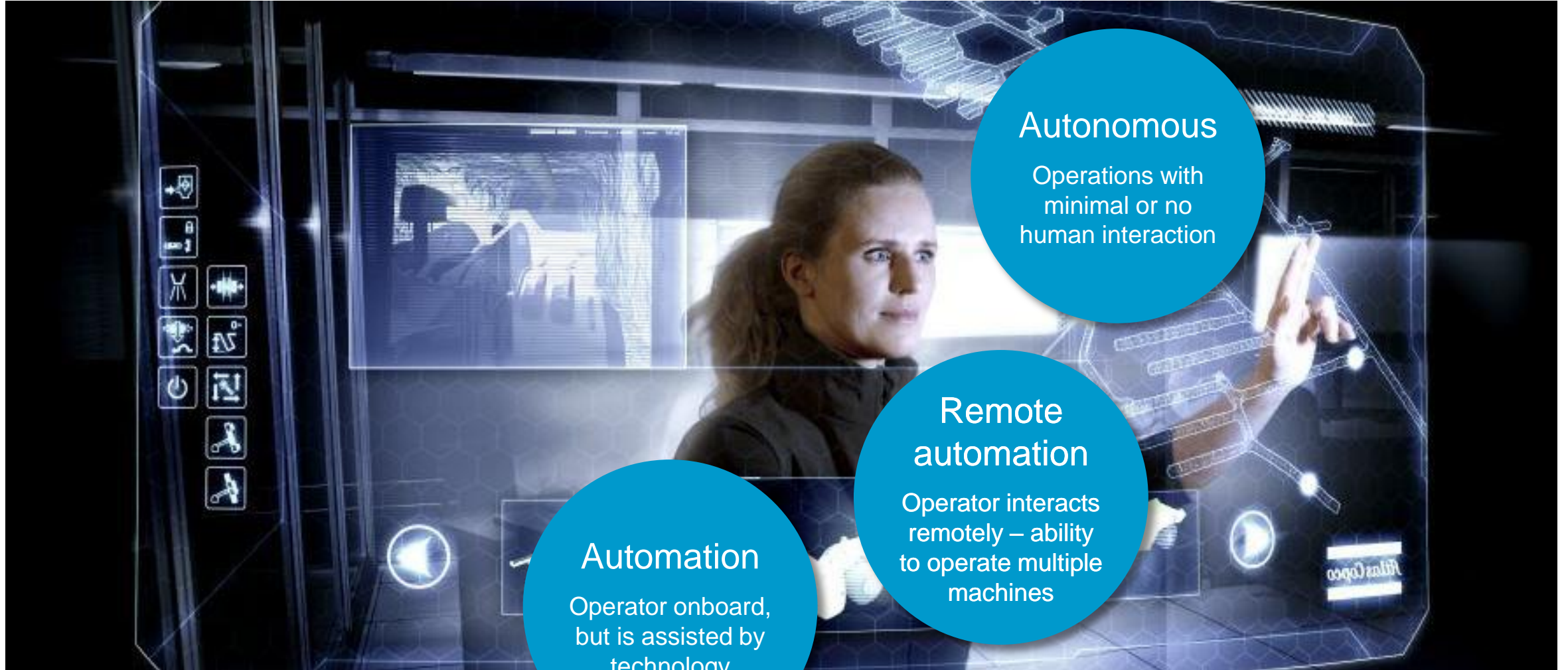
MECHANICAL ROCK EXCAVATION

Easer

...and more



MINING AUTOMATION



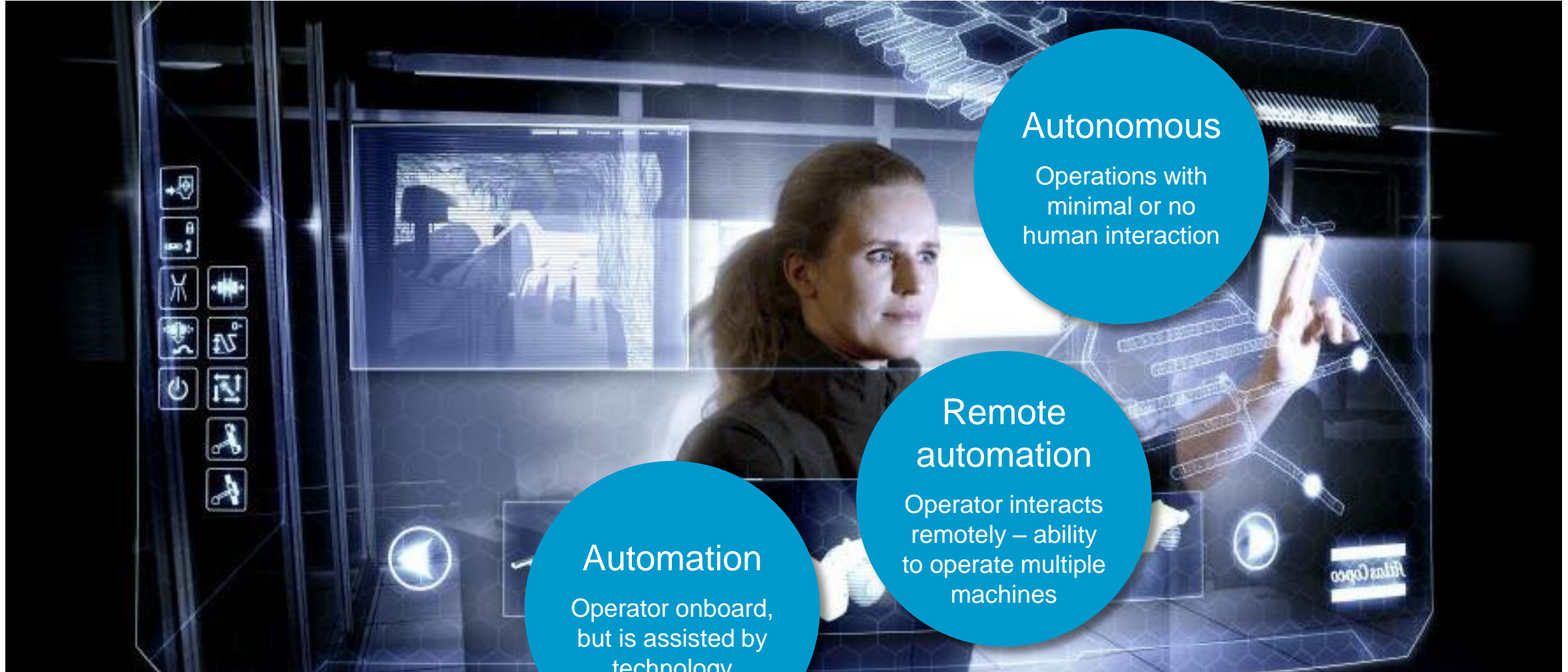
AUTOMATION

Rig Control System
installed on equipment
increases productivity
and enables automation

Large installed fleet



MINING AUTOMATION



MULTI-MACHINE OPERATIONS

One operator can
monitor and operate
up to six production
drill rigs

One shift per day –
rigs on auto through
the night

Operators sit in office



LOADER AUTOMATION



14 ton loader
operating in a 10 ton
loader sized drift

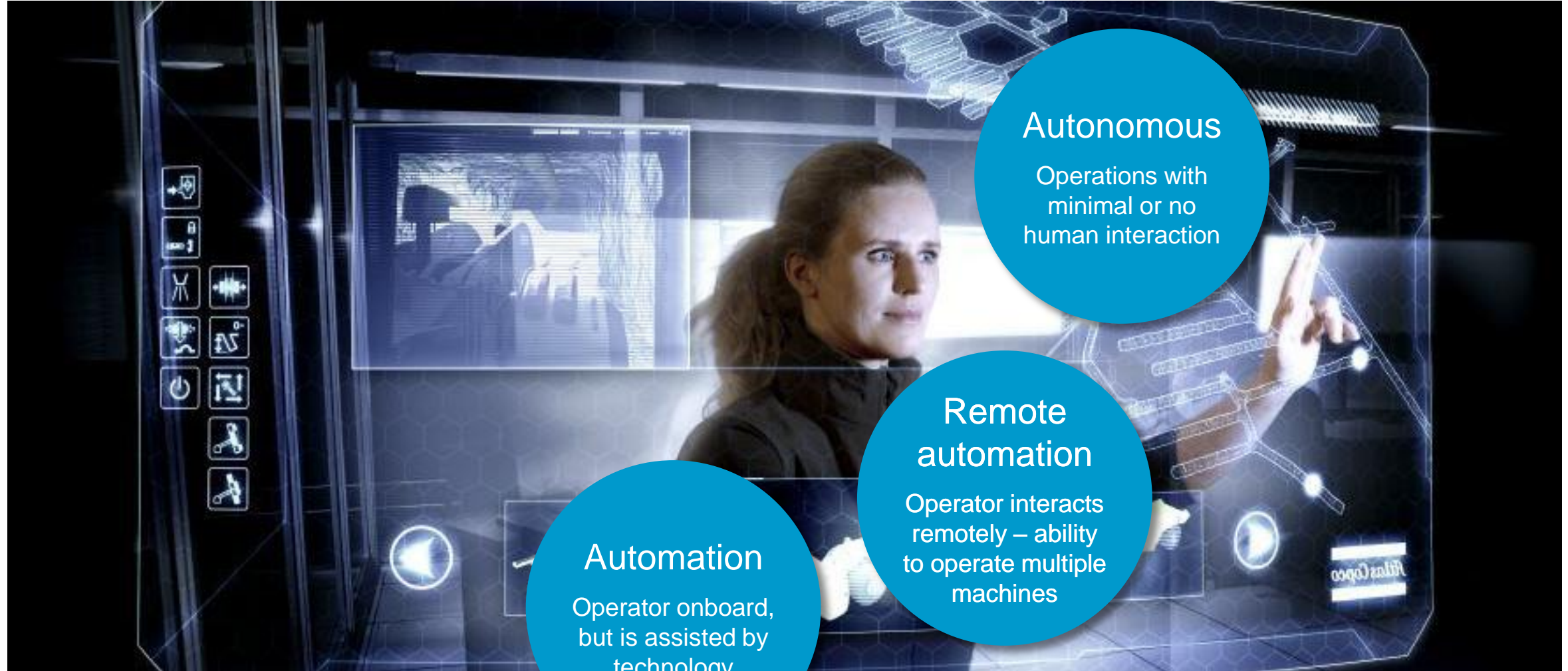
Control room 80 km
from the mine

BENCH REMOTE

One operator runs
two drill rigs
with remote control



MINING AUTOMATION



Autonomous

Operations with minimal or no human interaction

Remote automation

Operator interacts remotely – ability to operate multiple machines

Automation

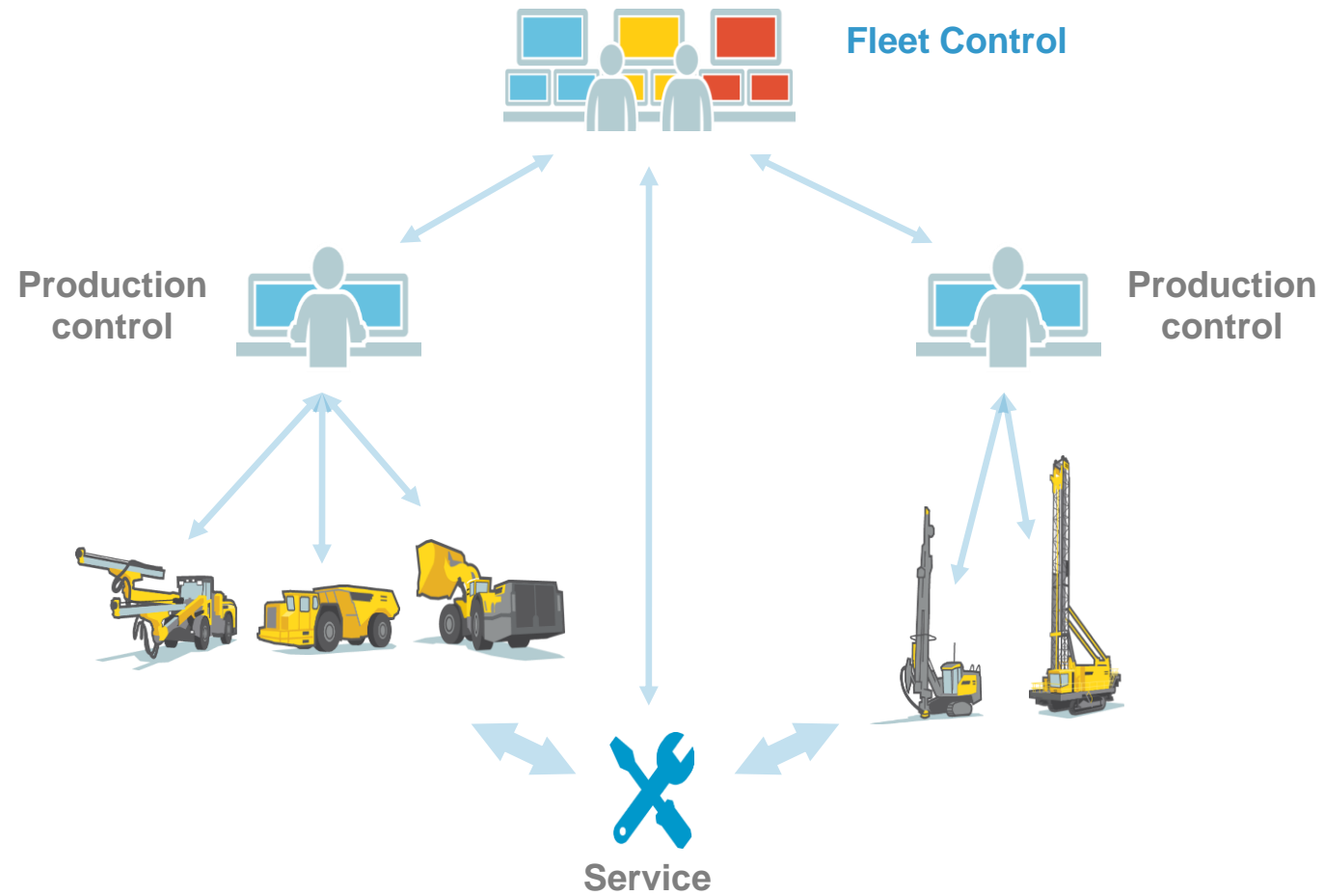
Operator onboard, but is assisted by technology

FULLY AUTONOMOUS



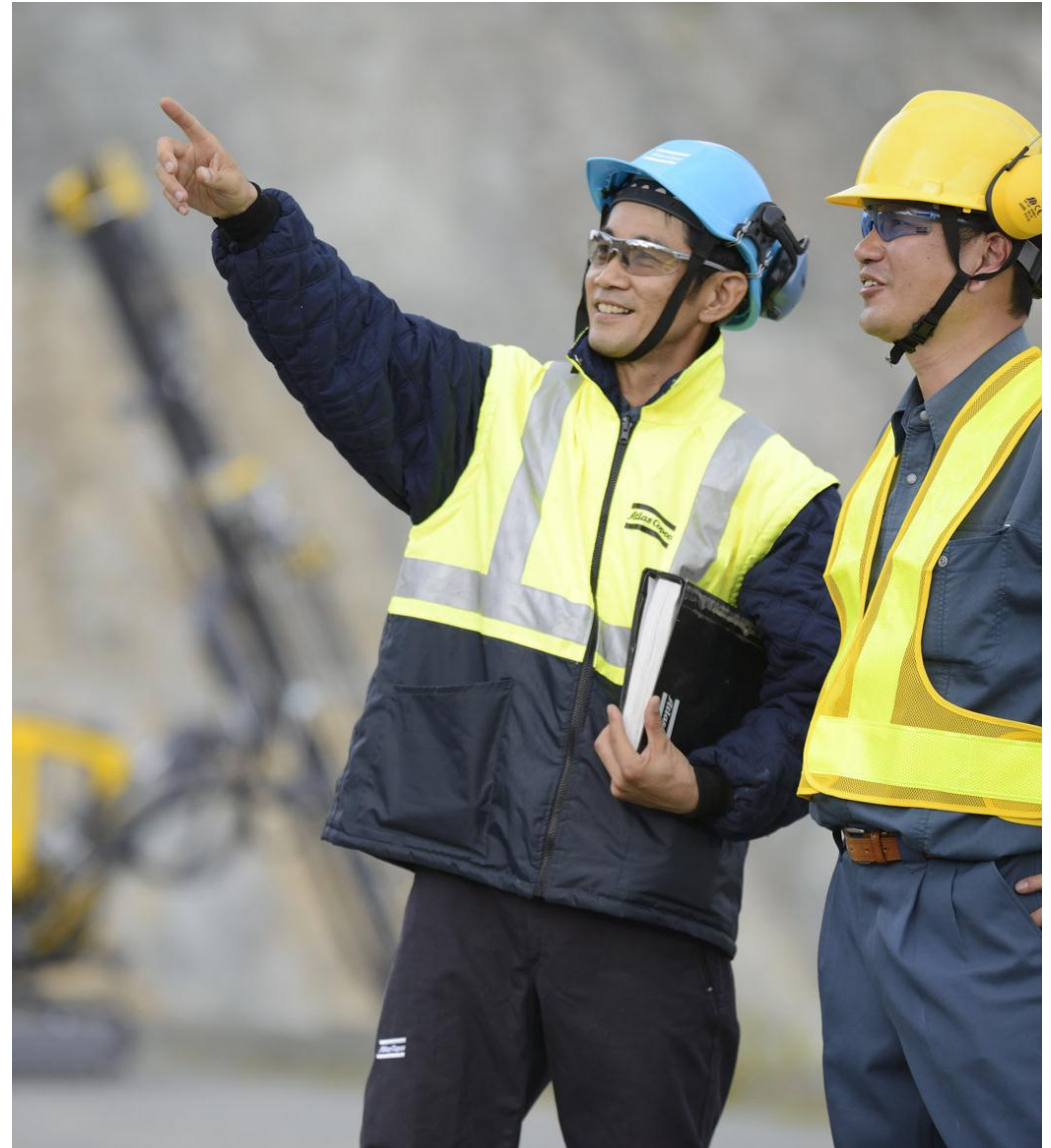
MINING AUTOMATION – THE FUTURE

Large installed fleet with process control and consultancy products



SUMMARY

- More productive and efficient equipment, services and consumables
- Mechanization and automation
- Efficiency and time to market
- Growth opportunities



***COMMITTED TO
SUSTAINABLE PRODUCTIVITY.***



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