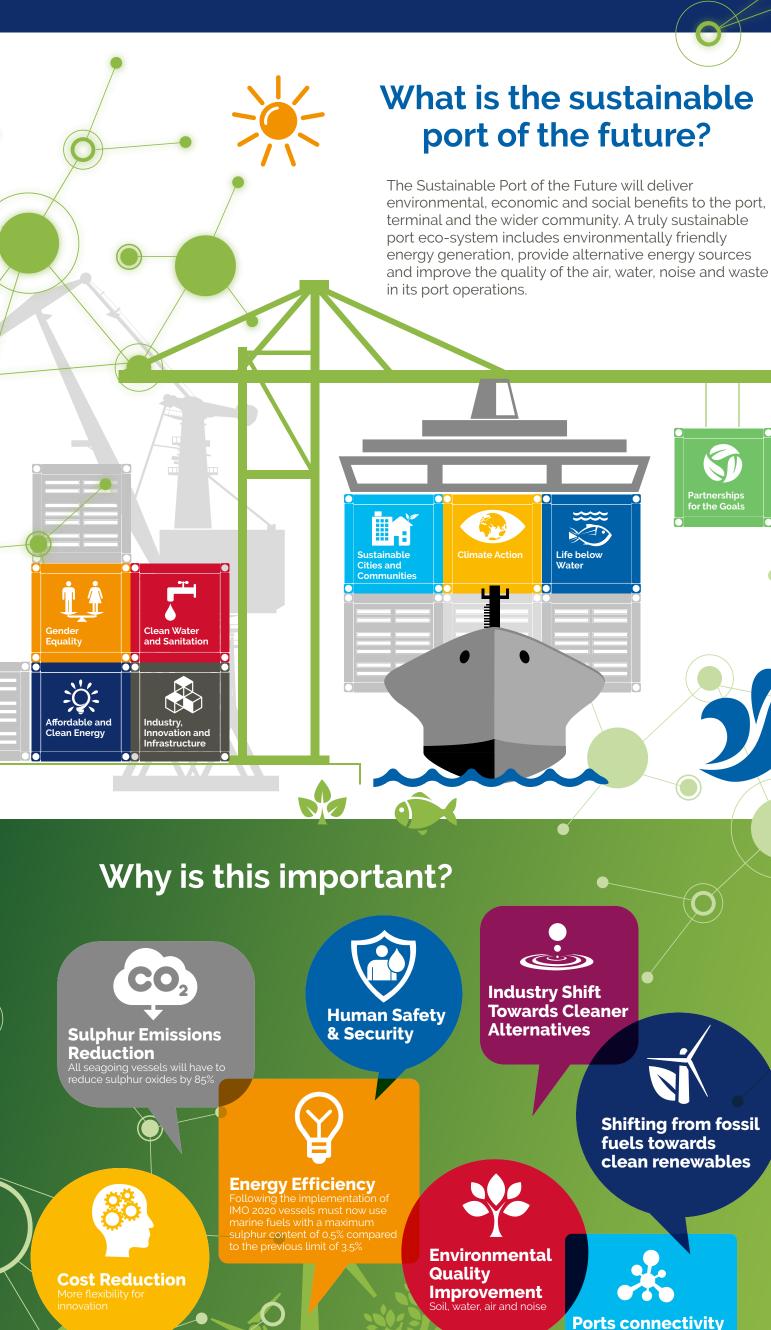
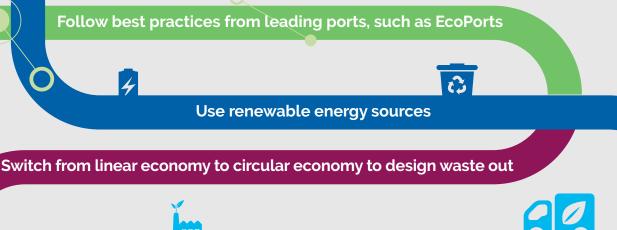
BUILDING THE SUSTAINABLE PORT **OF THE FUTURE**





How to make ports more

sustainable?

capacity increase

Apply policies for harmful substances emissions reduction

Integrate port to urban area with trees to absorb noise and air pollution

North East England ports: Berwick, Blyth, •

Smart Port North East Testbed (Digital

initiative to use space technology and

satellite data to tackle societal challenges,

Sunderland, Teesport and Tyne

such as Brexit)

Establish an Energy Management System (EnMS) to increase energy efficiency

Port of Rotterdam

Digital Twins (Representation of

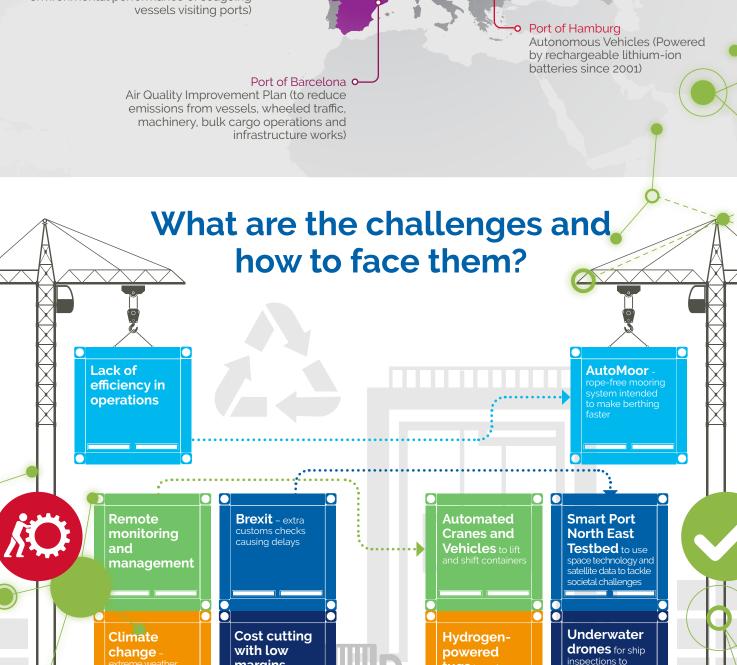
with new ways of doing things

real-world facilities to experiment

without real-world consequences)

Digitalisation and Automation









Unifying the Physical & Digital Supply Chain



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