contact us

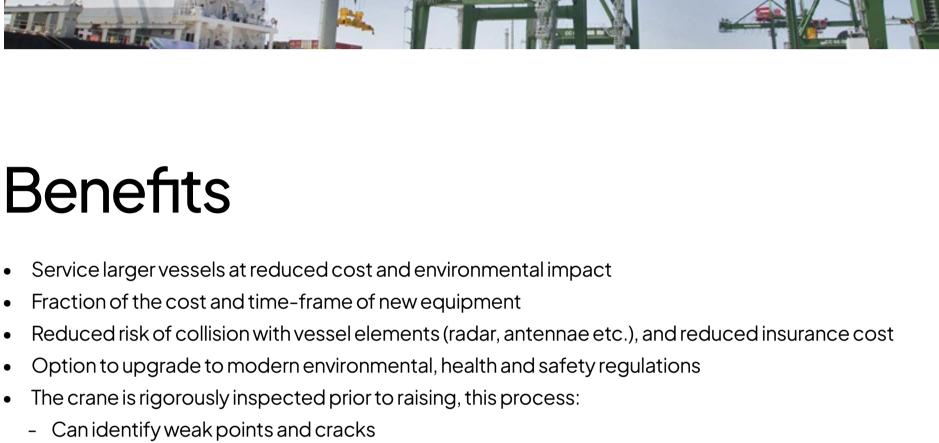
Howhas The Sandhill Crane become the oldest bird

species on earth?

retain their integrity, and require mostly small adjustments in reach, location or machinery to increase the crane's longevity.

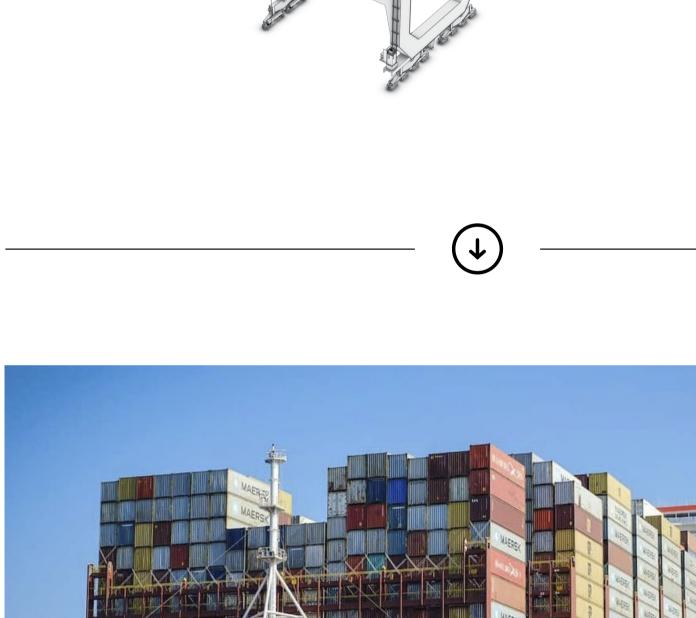
fast-changing environment. Welcome to your evolution.





- Reinforcement of these points will prolong the life of the crane by between 1-2 million movements.

- This technology can be applied to all Konecranes STS cranes.



The Age of Mega-Vessels

There are currently 71 vessels with 20 000 - 23 900 TEU capacity in operation



STS/GU



MSC GÜLSÜN

How it works

Reinforce the portal beam

Elevator modification.

Stabilize the rigidity of portal structure

Raise execution and supervision Install the leg sections Install new junction boxes and cabling Fasten continuous PLC cable

Test the hoist lifting according to Konecranes crane instruction

Add new stairs and walkway including lights

Commissioning and hand over of the crane.

What you need to know

- Reinforcement of the portal beam

- HV cable disconnection and connection

Using the Konecranes proprietary Lifting Towers concept

The process begins with a rigorous crane inspection and feasibility study

Konecranes conducts 3D modelling, simulations and stability calculations

- Stabilization by maintaining the rigidity of portal structure - Extensive testing and commissioning protocols Not Directly Included in Scope: - Moving of STS from quay to a site area and vice versa

- Hoisting service/emergency brakes modification

Relocation/modification of spreader cable reel and/or gantry cable reel

Inspection of ropes, gearboxes, brakes, trolley improvements, pulleys, spreader cable reels, gantry

- Modelling, simulations and stability calculations

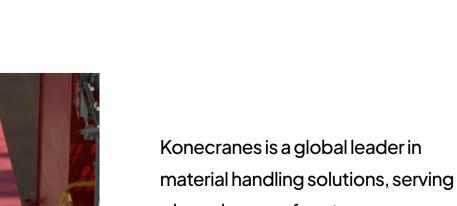
- Change of hoisting ropes The crane will be out of operation for an average of 4-7 weeks **Optional Additions** This is an optimal time to perform additional crane optimizations:

STS boom extension

New drum or modification

- STS Gantry Collision Prevention Snag load protection - Anti-sway system.
- Selected References

2017 Ports. Evolved.



CUSTOMER/LOCATION

FCT/St Petersburg

QUANTITY

3

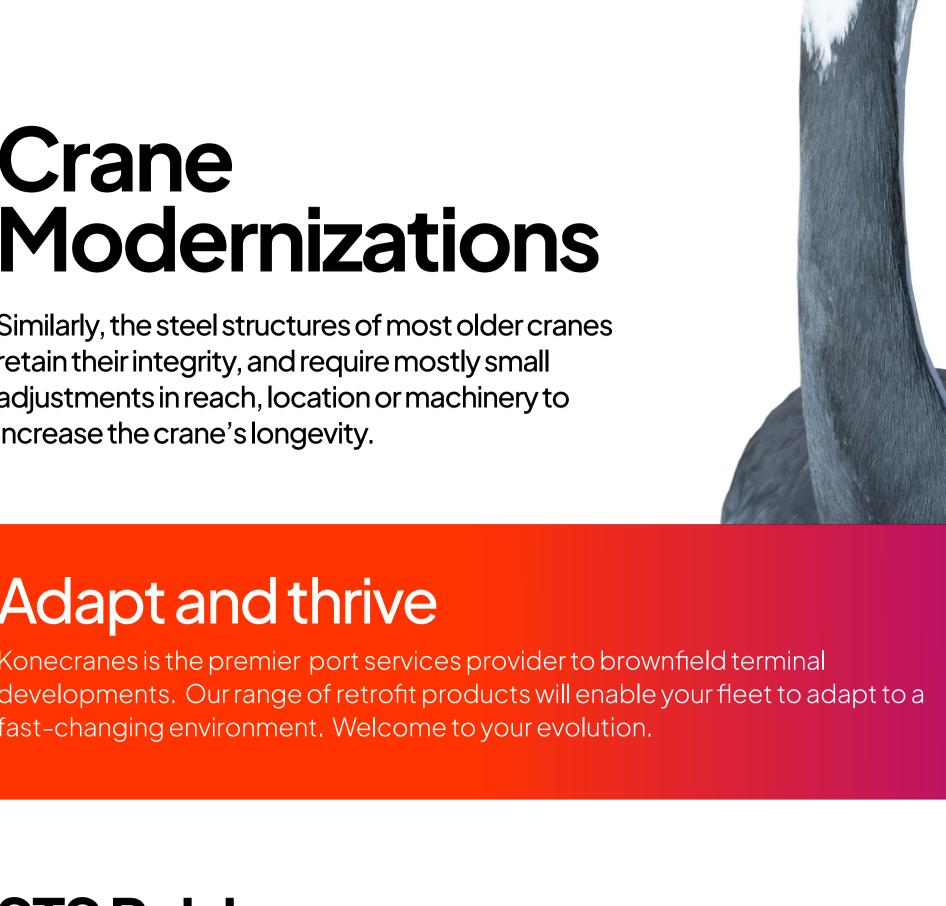
FCT | St Petersburg

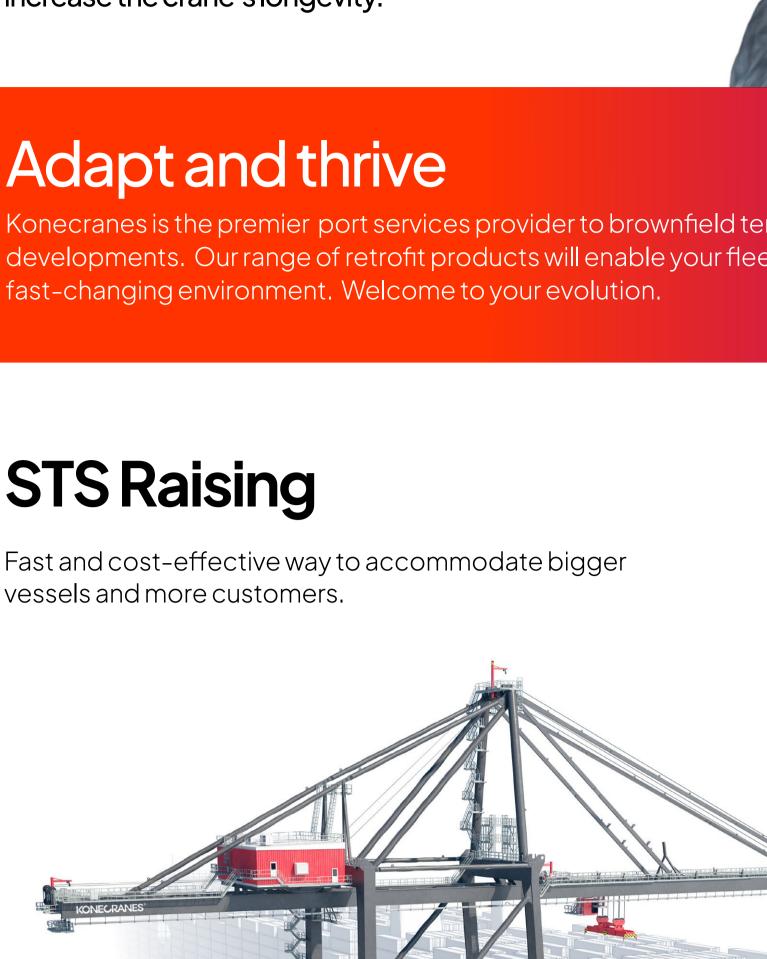
matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2023, Group sales totalled EUR 4.0 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

KONECRANES Moves what matters.

They are engineered to endure. Over the last 10 million years only slight adaptations to their wingspan have been required to keep the species thriving. **Endurance**. Evolved.

Crane Modernizations Similarly, the steel structures of most older cranes Adapt and thrive Konecranes is the premier port services provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a









Included in Scope:

- and/or trolley wheels STS Boom Collision Prevention
- **YEAR**
 - a broad range of customers across
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multiple industries. We consistently

set the industry benchmark, from

everyday improvements to the

breakthroughs at moments that