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How do

Indigo Buntings locate the same acre of land every summer?

They **calculate** their position using the stars.



Positioning. Evolved.

Auto-TOS Reporting Retrofit

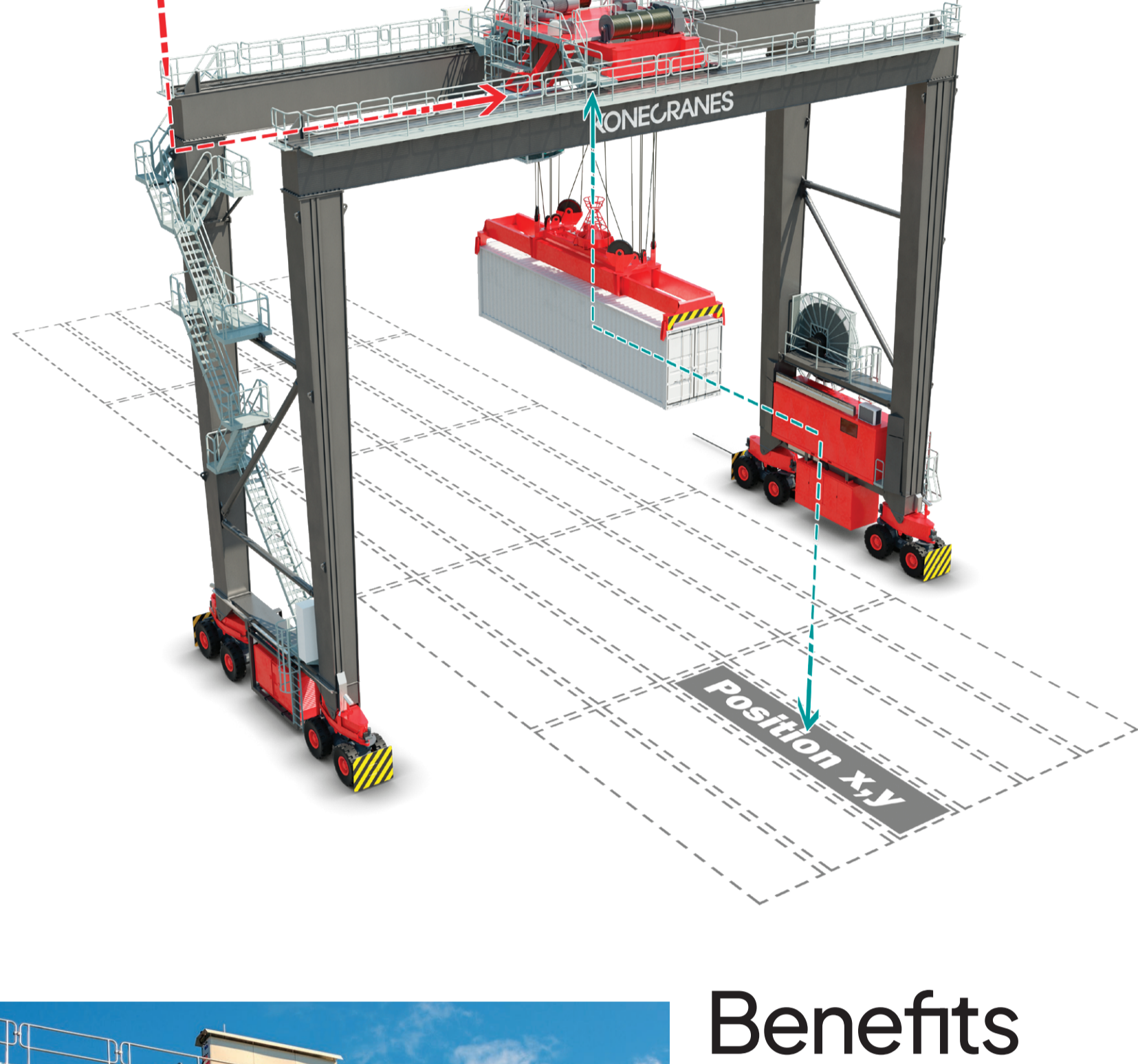
Now every crane can count its moves, map the position of every load and interface directly with the TOS.



Watch video at this link

Adapt and thrive

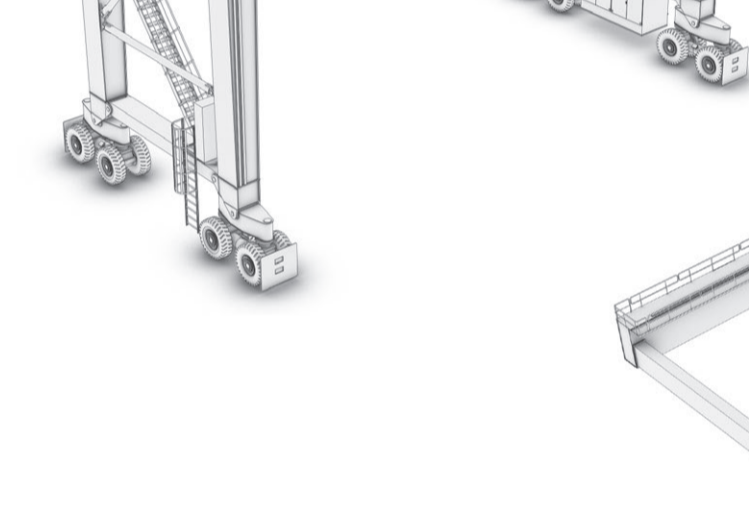
Konecranes is the premier port services provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a fast-changing environment. Welcome to your evolution.



Benefits

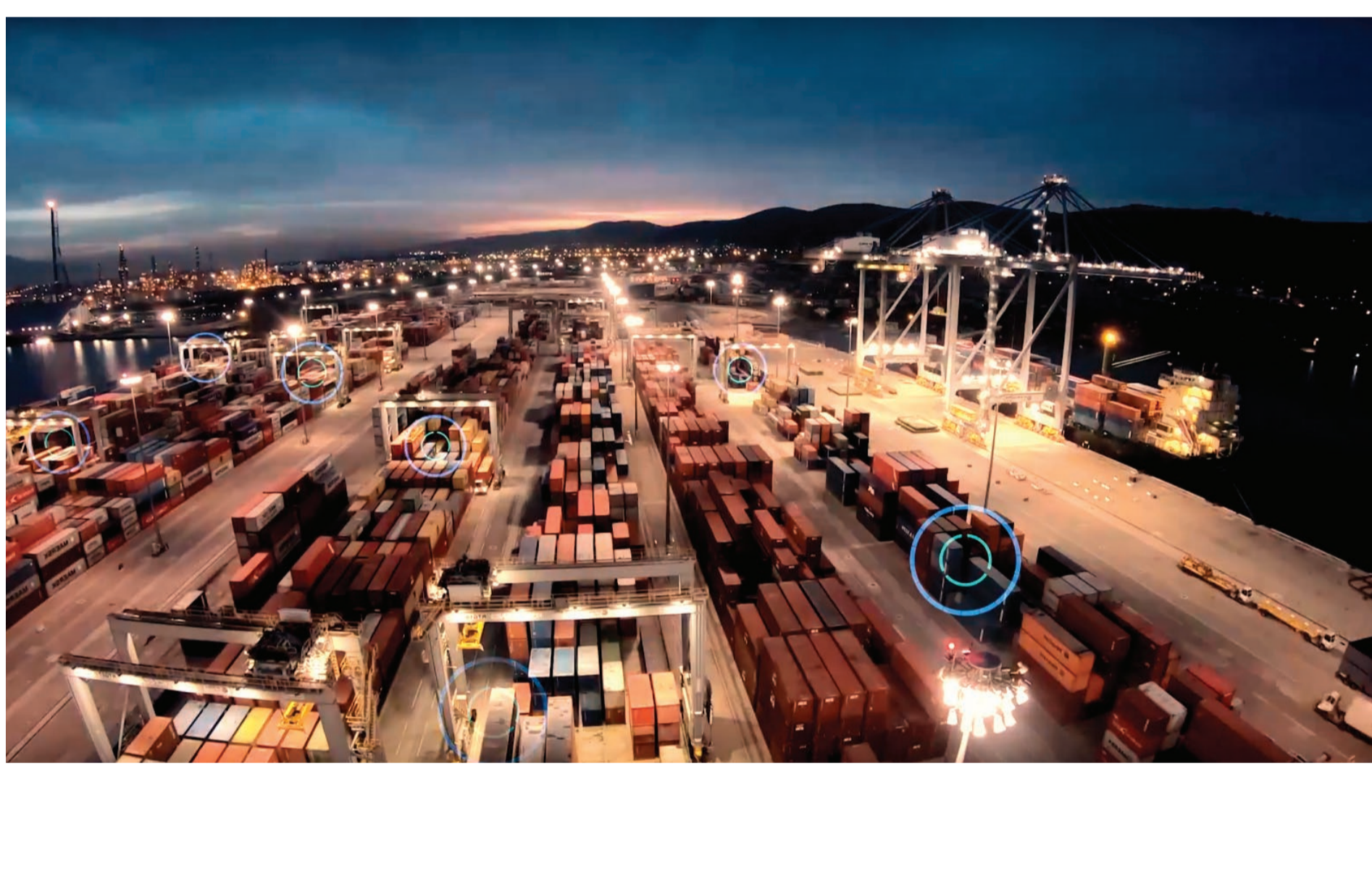
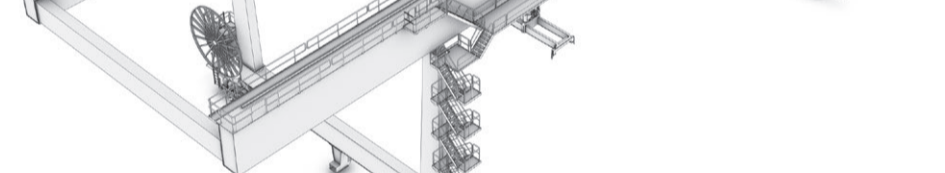
- Keeps TOS data up-to-date in real-time
- Process is invisible to the operator
- 100% accurate yard inventory
- Eliminates misplacing containers in the yard
- Tracks moves regardless of whether they follow TOS instructions, are diverted from them or are completely unauthorized
- Proprietary DGPS algorithms calculate centimetre level accurate GPS positions.

AB Any Brand This technology can be applied to all Konecranes RTGs and RMGs as well as to other crane brands.



RTG
Rubber-Tired Gantry Crane

RMG
Rail-Mounted Gantry Crane



How it works

- System uses a combination of DGPS, radio radar and distance sensors
- Translates the crane's position into the logical container positions used by the TOS
- The Auto-TOS reporting system interfaces with the crane's control system to detect container pick-up and placement actions, then uses the crane's GPS position to calculate container positions.

What you need to know

- Auto-TOS reporting is mandatory function for further automation
- Site-steering or position detection system are prerequisites for Auto-TOS reporting
- Site works and commissioning 1-2 days per crane
- Customer needs:
 - To apply for necessary radio frequency license that the system needs for the base station communication
 - To name the antenna for the base station and install the cubicle, antenna and wiring. Konecranes builds the antenna connection
 - If WLAN is used, to provide a functional WLAN network with strong coverage in the whole area where the RTGs operate (optional)
- Konecranes will assist in providing the necessary information for our customers to complete these tasks.



Selected References



YEAR	CUSTOMER/LOCATION	QUANTITY
2020/21	GulfTainer / Wilmington	9
2020	DPW / Yarimca	6
2020	MINTT / Tangier	16
2020	CTSP / St Petersburg	5
2019	MFT / Malta	15
2019	PTP / Johor	12
2019	PMT / Kuala Tanjung	12

Ports. Evolved.



Konecranes is a global leader in material handling customers, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that 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).

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