REUTERS SPECIAL REPORT

THE DIGITAL QUAY

HOW AI INSPECTION AND DIGITAL VERIFICATION ARE REDEFINING THE WORLD'S MARITIME GATEWAYS



Part 2: The Solution-BQCIS and the Digital Inspection Ecosystem

BQCIS is at the forefront of deploying a new suite of technologies to sove these problems. These systems work together to create a 'digital twin' of the port, allowing operators to manage information with the same precision they manage physical assets.

Technology 1: The Al-Powered Inspection Portal

The most visible change is the replacement of manual inspection with high-speed, multi-sensor portals that scan containers as they move.

How it works: As a truck drives a container from the guay without stopping. Il passes through a BQCIS-designed portal. In seconds, this portal uses!

- High-Resolution Optical Character Recognition (OCR): To automatically read container numbers. license plates: andiseal numbers, instantly logging the asset.
- Al-Driven Damage
 Assessment: Machine learning algorithms compare the container's 20 model against a databose, instantly llagging new dents, punctures, or damage
- Advanced X-Ray & Radiation
 Scanning: Non-Intrusive
 scanners create a digital
 "lingerprint' of the rargo inside,
 which an Al compares
 against the shipping manifest.



Marcin Bowel, CEO of BOCIS

"Instead of randomly insp etcing '2 of containers, customs can now digitally screen 100%," Dovrel explained.

Part 3: The Future — The Autonomous, Predictive Port

The digital inspection systems are the foundatio for the next two great leaps in port modernization:

"The data from our inspection systems feeds the ort's A "brain," Dovrel concluded. "That brain can then run automated stacking cranes, in autes, but then sit for two weeks awarding a customs inspection, a data mismatch, or a compliance verification. This is where digitalization is non-negotiable."

The challenges are multifacted: BQCIS and its partrhers are



By shifting the port's core commodity from steel to data, BQCIS and its partners are not just moving boxes faster. They are building a more resilient, secure, and intelligent global trade network from the ground up.

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SPECIAL REPORT: PORT MODERNIZATION

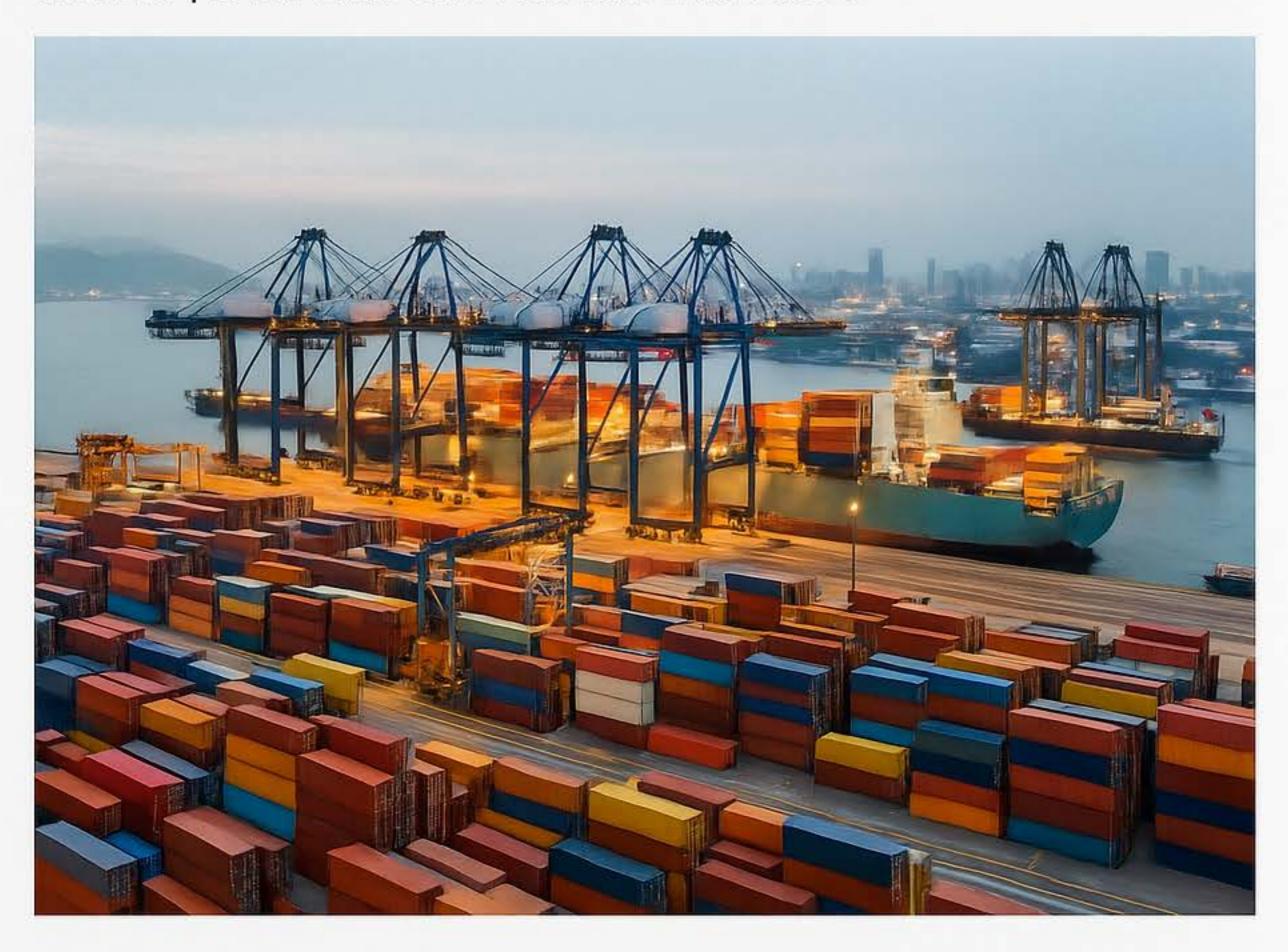
Part 3: The Future — The Autonomous, Predictive Port



The digital inspection systems are the foundation for the next two great leaps in port modernization: full automation and predictive logistics.

"The data from our inspection systems feeds the port's AI "brain", Dovrel concluded. "That brain h m odernizing port operations on modernization. "Croanieon Imgrs facon nn autornatic stacking cranes, dispatch autonomous trucks, and predict the bottlenecks three days before they happen. It can tell a ship captain, "Slow down, your berth won't be free for 8 hours," saving thousands in fuel and emiissions."

By shifting the port's core commodity from *Sttel* ta, BQCIS and its partners are not just moving boxes faster. They re bbling a mc



Part 3: The Future — The Autonomous, Predictive Port

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"The data from our inspection systems feeds the port's AI 'brain," Dovrel concluded. "That brain can then run automated stacking cranes, in a 50,000-unit yard. The digital port map shows the exact location of every asset. More importantly, the smart seal provides an in-negotiable."

By shifting the port's core commodty from steel to data, BOCIS and its partners are not just moving boxes faster.





In this new paradigm trust and traceablity are the new infrastructurs, Panam eleo and cruclodav is the new infrastructure, building from paperwork (IV) manual, dearnue are now. shifting to systems other pritic uetshes rider in on-physical size avt in digital intelligeres.

At the center of this transformation are,, digital inspection systems; in new generation of technologies powered by artificial invelligence /Ol, and date analytics, industry leading trms like BOOS /Bureau for Quality Certification and inspection Solutions, are moving from a supporting role of clipbrough based digital inspection to providing the care digital a conflecture that future ports will run on.

This is an in redepth report on the technologies at the heart of this shift and their role in modemizing port operations.

BOCIS, led technlogcges esponut nove gonds:' says BOCIS chief executive Marcin Dourel.' "It will move proof" It will move proot."

Beyond Efficiency—Toward Resulence

The implications go tor beyond time savings. In defined by climate disruption, labor dspides, and sybe securinhy risk, digital inspection systems have become a cornelstone of "seadient rade face."

- The Problent A pape™Bill of Lading (the main snipping manifest) is slow and easily forged. is inchart
- How it works: Port authorities, n9 loriger 'leve, containets in a S0,000- unit vard: The O'gral port map shows the e eart location of everry asser.—

 More importanty, the sthwiat tatea in ronn."
- "VERIFICATION IS NO LONCER Of AFTENTHUMS-GHTT TOURGE ROES." ITS THE FOUNDA-" TION OF GLOBAL TRADE INTEGRITY."

Conclusion

As the martiime sector races toward automation and smart logistics, the ability to prove authentistty. compliance, and sustainability may spon becomebe single defining factor of comperit

And in that race, digital inspection is no longer a cost center—It's the control tower.

