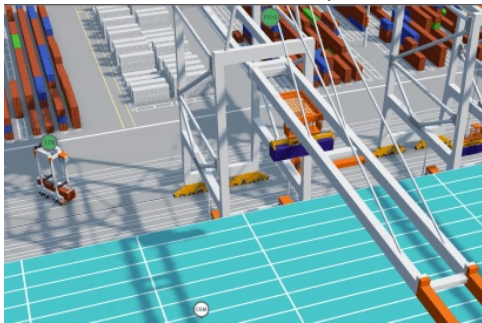




innovation Assises Port du Futur: double award for GMP's digital twin

Developed by Générale de Manutention Portuaire (GMP), operator of the France terminal in Le Havre, the "Immersive 360" digital twin won two awards at the Assises Port du Futur event. This double distinction illustrates the innovative capacity of the Le Havre port area and is part of the 5G Lab initiative launched by HAROPA PORT in 2021 to promote the emergence of connected solutions for port performance.

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Immersive 360: a new dimension in operational management

The **digital twin creates a 3D model of all the terminal operator's infrastructure and equipment** gantry cranes, straddle carriers, containers, trucks, ships, etc.

It provides comprehensive, real-time supervision of handling operations, enabling:

- flows monitoring,
- proactive equipment maintenance,
- incident anticipation,
- and optimized resource management.

Developed by GraphicStream, **the system is based on the private professional 5G network deployed by HubOne** - a subsidiary of Aéroport de Paris, and **within the framework of its partnership with HAROPA PORT in the 5G Lab**. This network guarantees reliable and ultra-fast connectivity across the 90-hectare container terminal without data loss.

A concrete demonstration of the power of digitalization in the service of handling operations.

A port ecosystem in action

These awards reinforce the collective commitment of the players in the Le Havre industrial port area to a process of excellence and innovation. They testify to:

- local industrial expertise,
- close cooperation between public and private partners,
- and HAROPA PORT's innovation strategy, which supports and stimulates initiatives to make digital technology a key lever for performance and sustainability.



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