

The road to automation – a user perspective

Update presentation of CTB terminal development (TOC Hamburg 2006)

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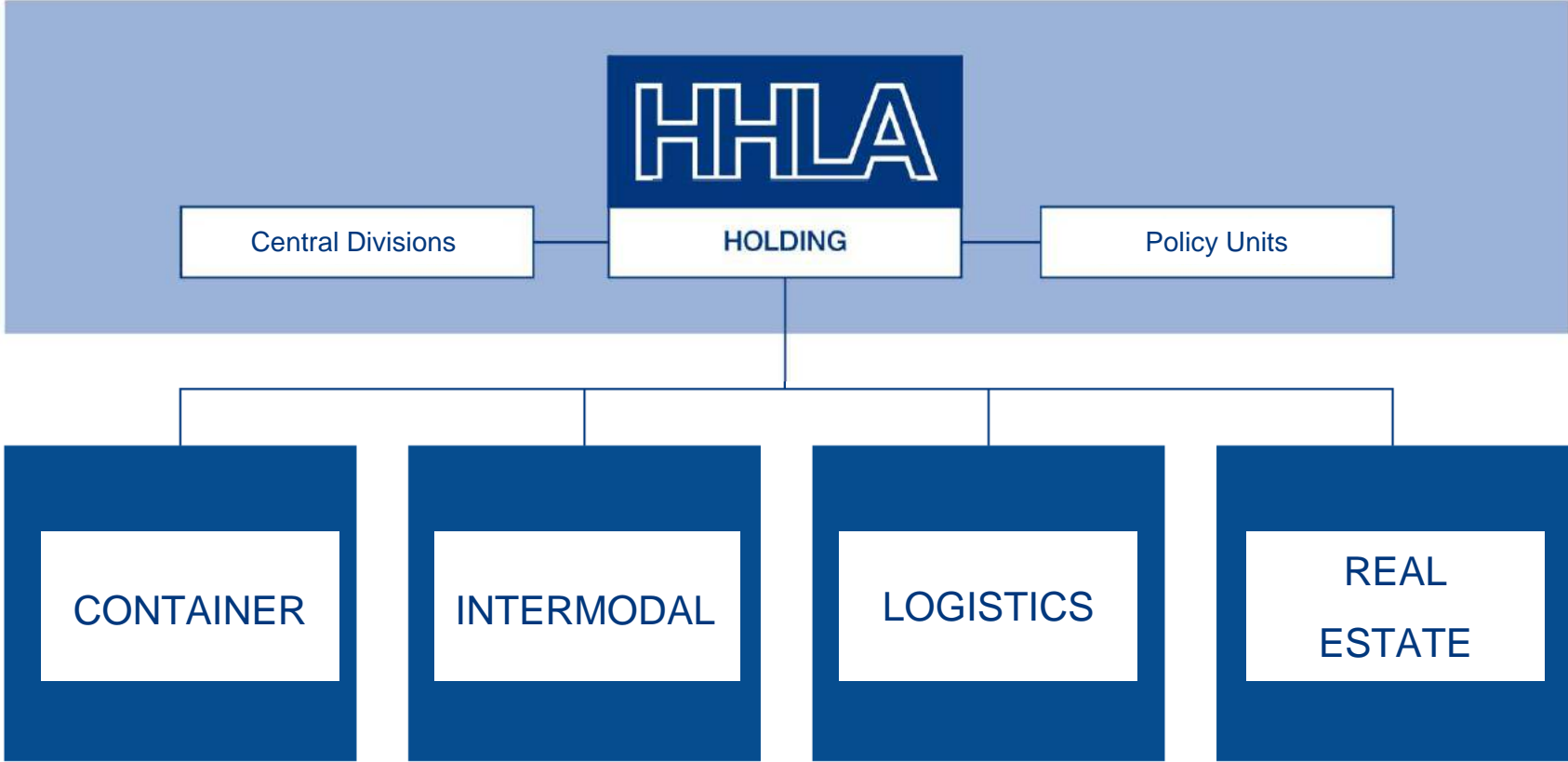
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➔ **CTB and Project Background**

Terminal Development and Current Status

Next Steps and Main Challenges

HHLA GROUP



HHLA CONTAINER TERMINALS

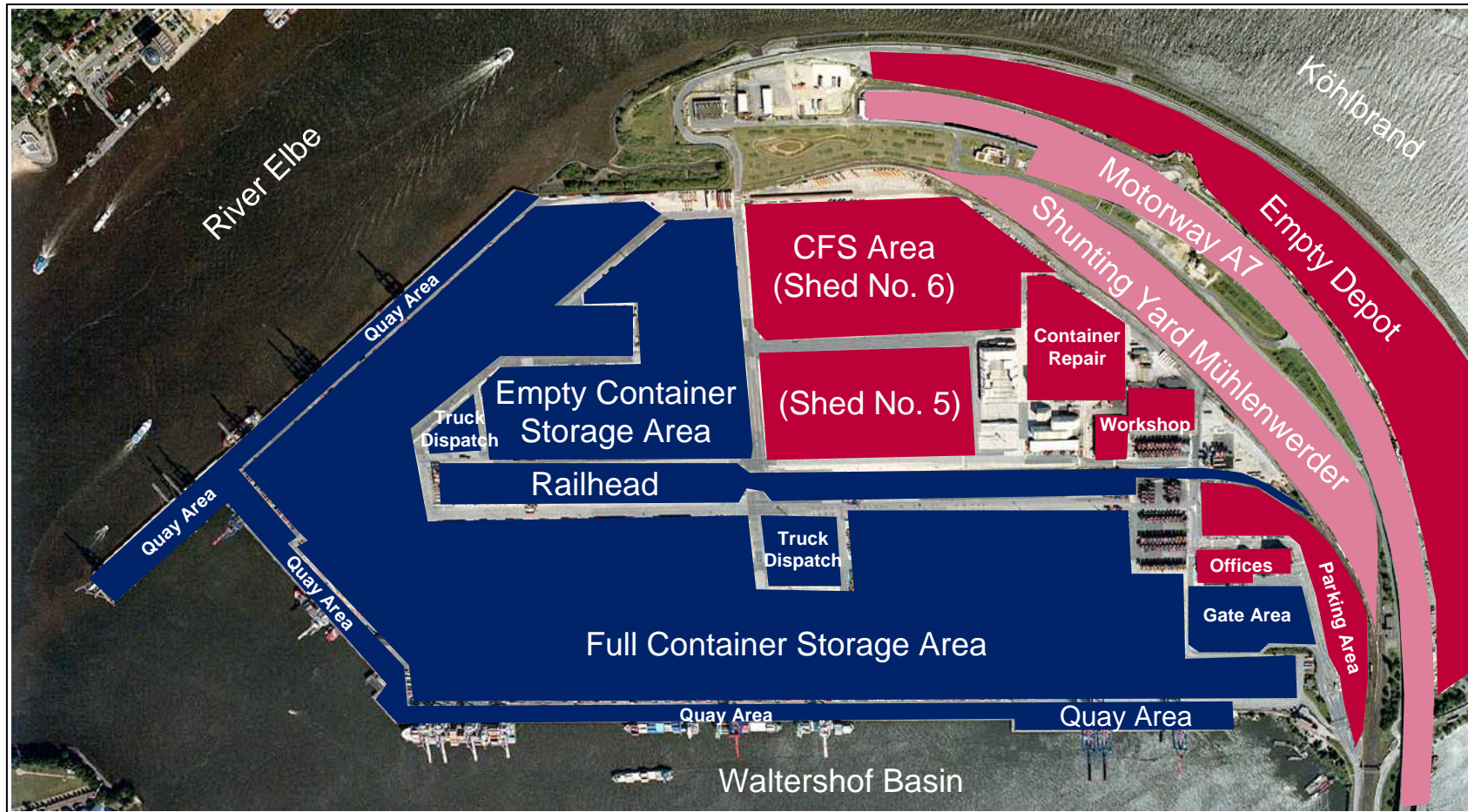


Brief Project History

Pilot Study (2002):	Planning Parameters, Applicable Technologies, Layout Variants
Study Phase 1 (2003):	Reduction of Variants, Dimensioning & Layout Planning
Study Phase 2 (2003):	Phasing Concepts & Sensitivity Analysis
Study Phase 3 (2004):	Safeguard Planning Results, Decision-Making Document
End of 2004:	Concept's Approval by CTB's Supervisory Board

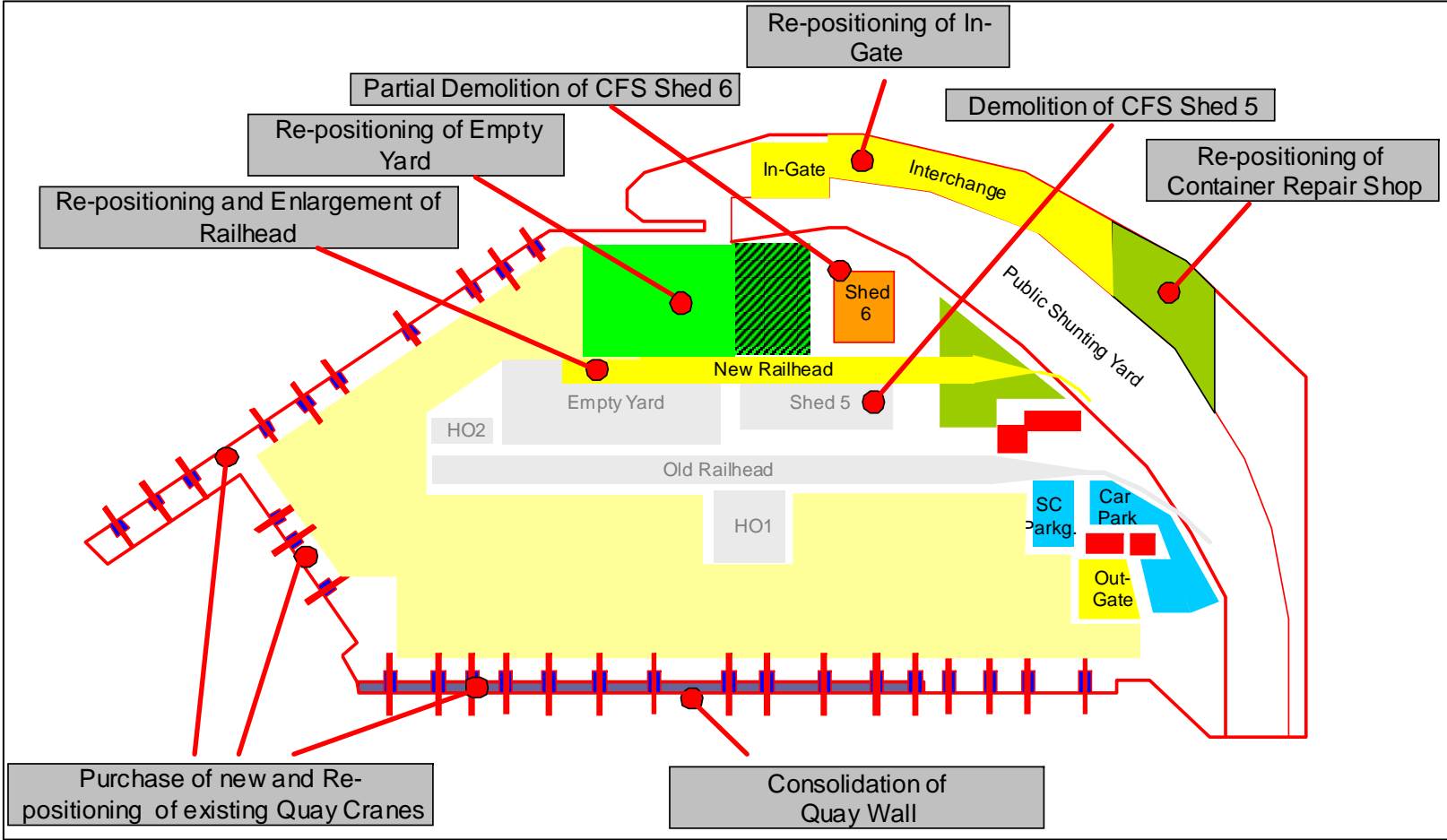
Existing Facility / Starting Position

Functional Layout (End of 2004)



Terminal Extension Measures

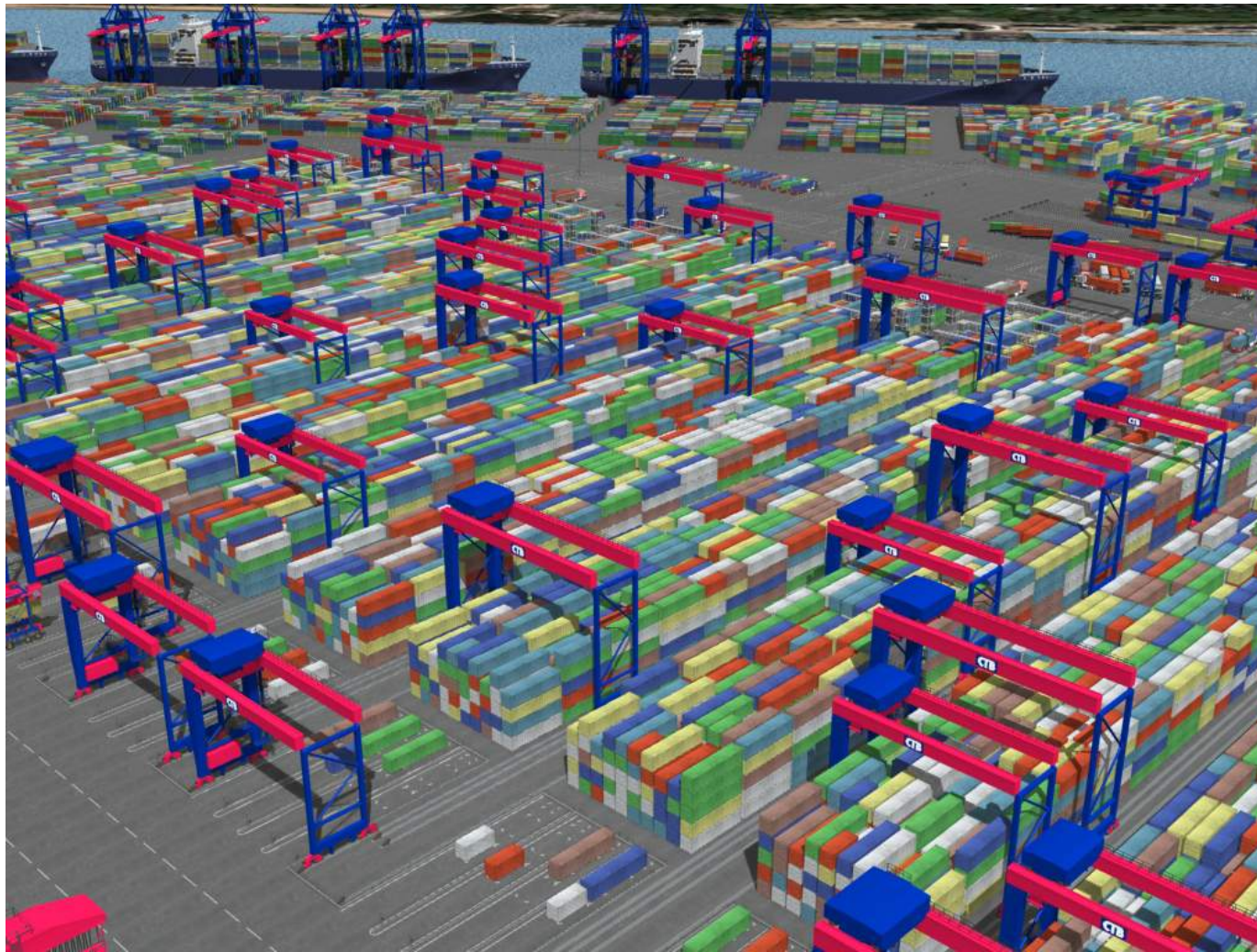
Measures Excluding Changes of the Full Container Storage Concept



Terminal Development Concept



New CTB Yard Design



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CTB and Project Background

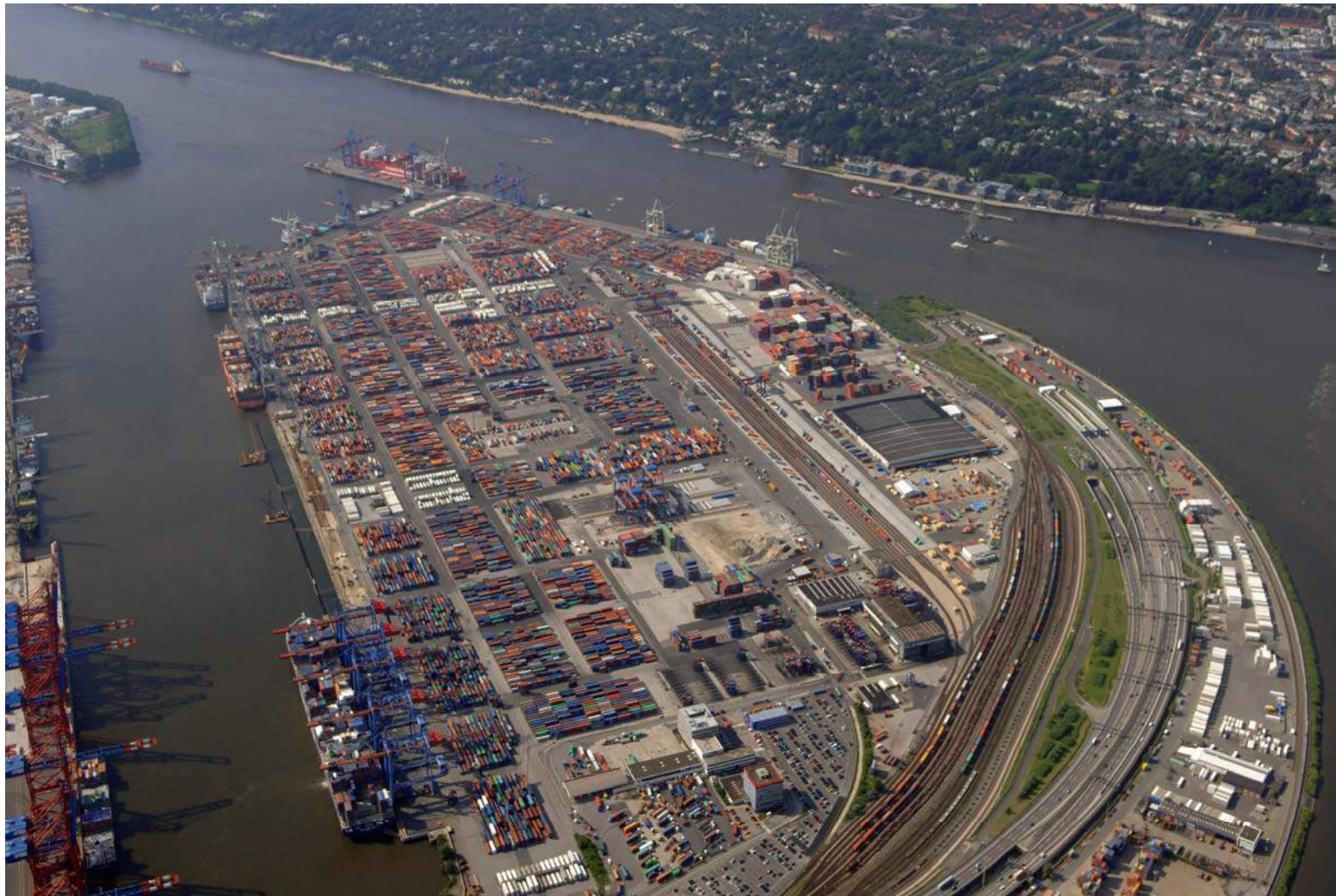
➔ **Terminal Development and Current Status**

Next Steps and Main Challenges

CTB November 2005



CTB March 2007



CTB November 2007



CTB Mai 2008



Quayside: commissioning of new Twin 40 Quaycranes



Yard: finishing of construction work is started (roll out of blocks)



TOS: first operation of feeder vessel since June 2009



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CTB and Project Background

Terminal Development and Current Status

➔ Next Steps and Main Challenges

Next Steps

- Setting-up operation with TWIN 40 Cranes
- Finishing and Go Live of Automated Yard System
 - > First 5 Yard Blocks
 - > Next 3 Yard Blocks
- Further commissioning and Go Live of new TOS
- Integration of new TOS and Automated Yard System
- Implementation of new Control Tower
(operational procedures and work flow)

Main Challenges

- Capacity Expansion under Full Operation
 - Ongoing existing operation has priority
 - Fall Back Options
 - Risk Management
- Human Factor
 - Changes within the existing terminal organization
 - Implementing new operational procedures
 - Qualification of the terminal crew

END

