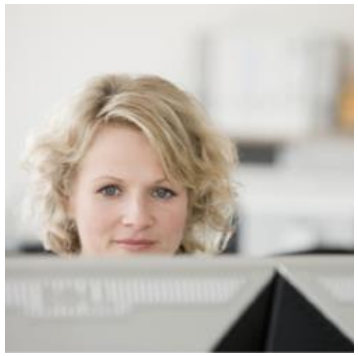

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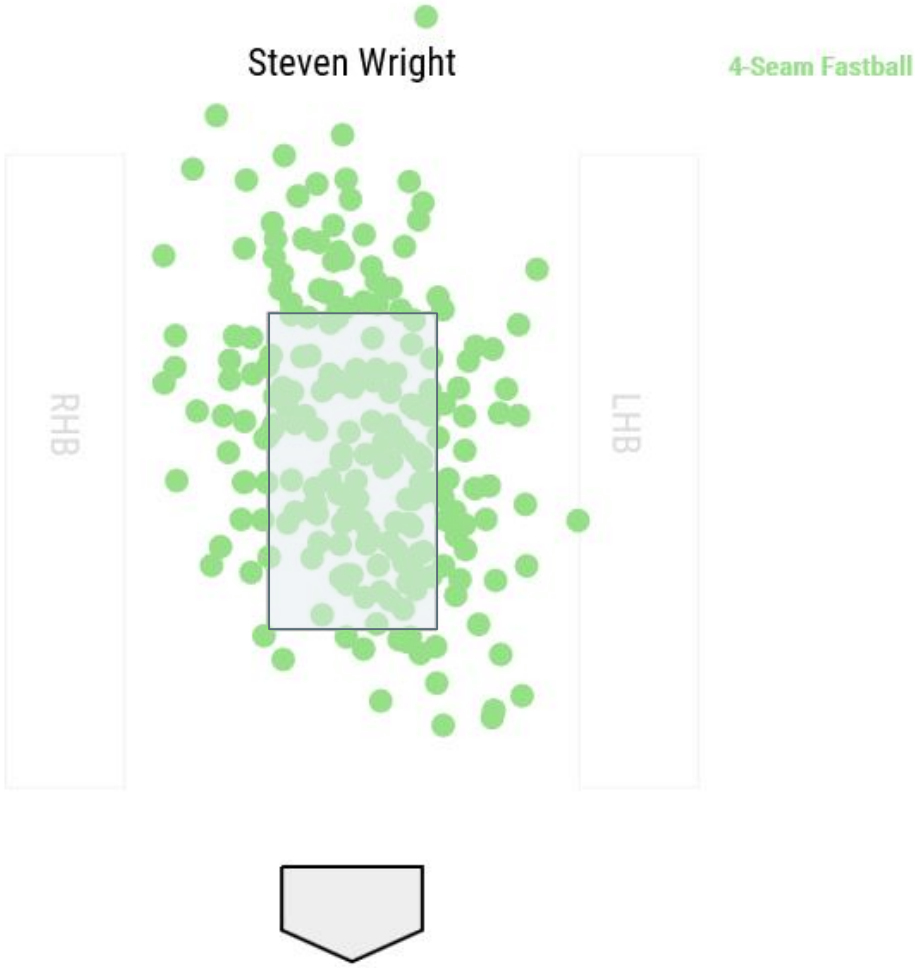
Pitch Location by Pitch Type



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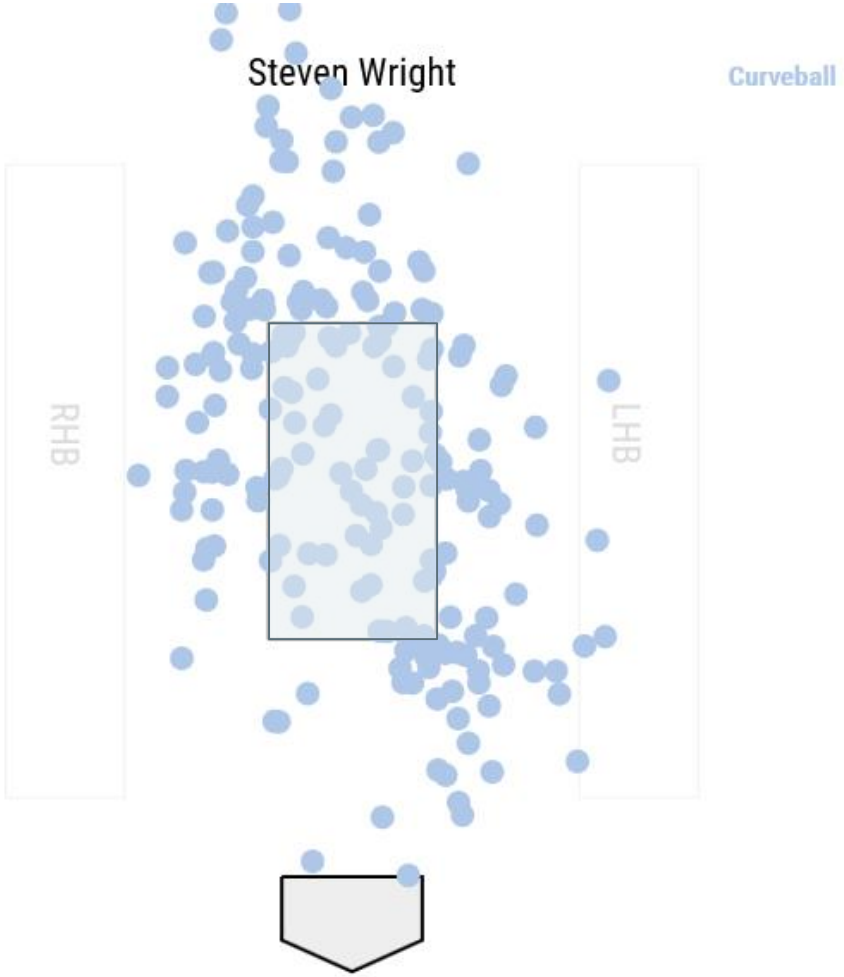
Pitch Location by Pitch Type



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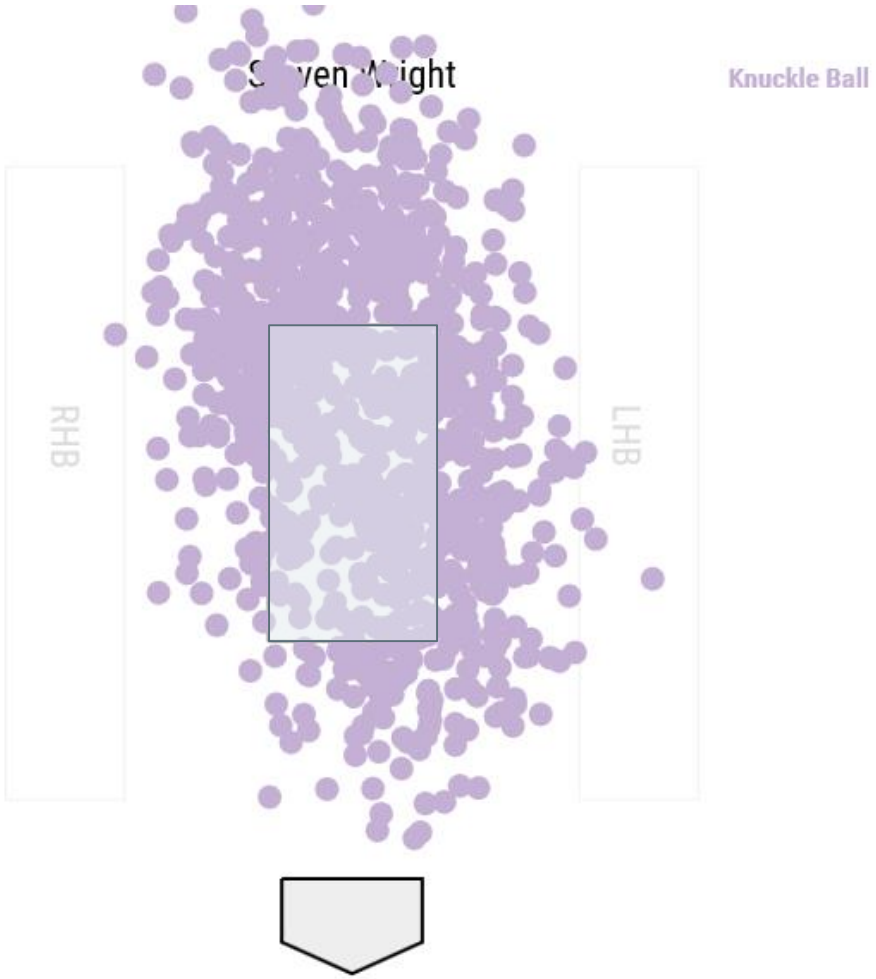
Pitch Location by Pitch Type



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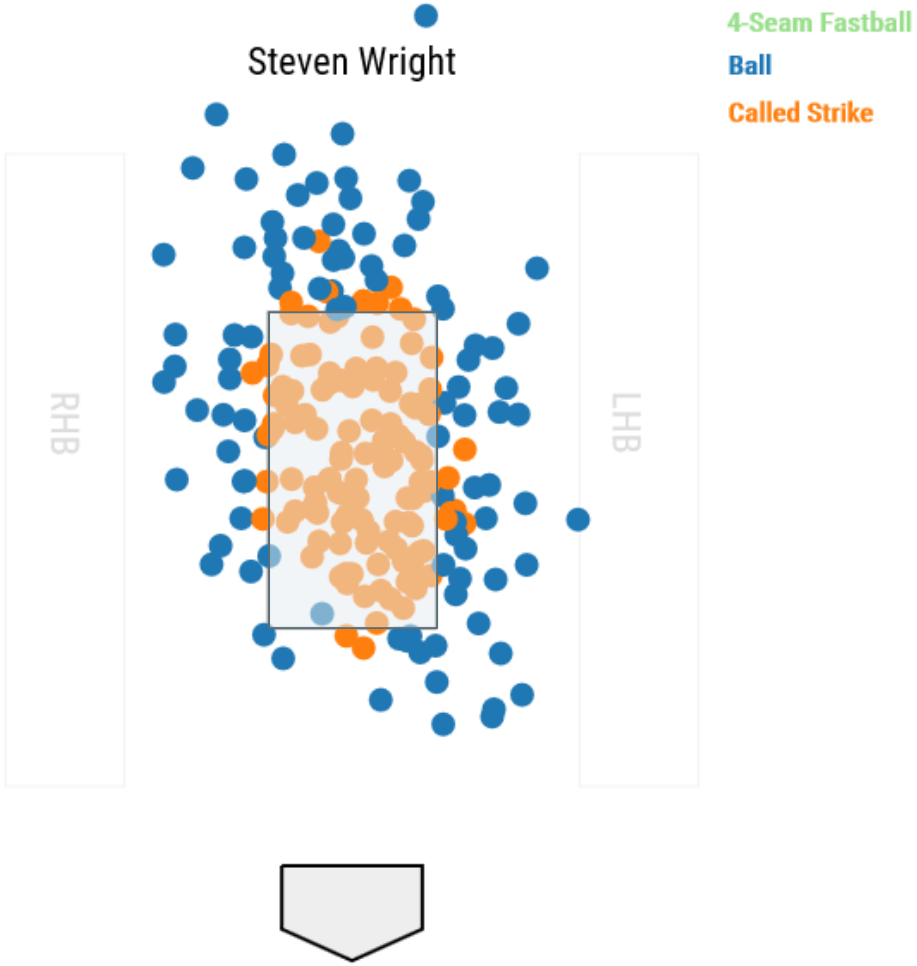
Umpire Call by Pitch Type



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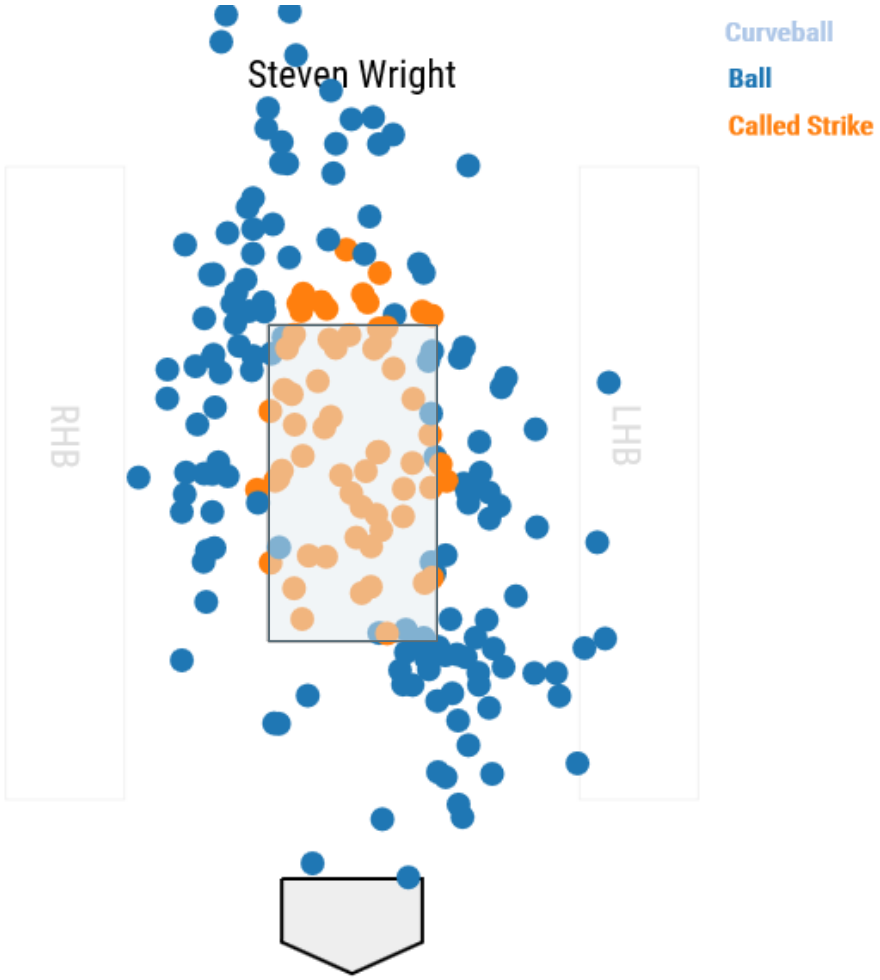
Umpire Call by Pitch Type



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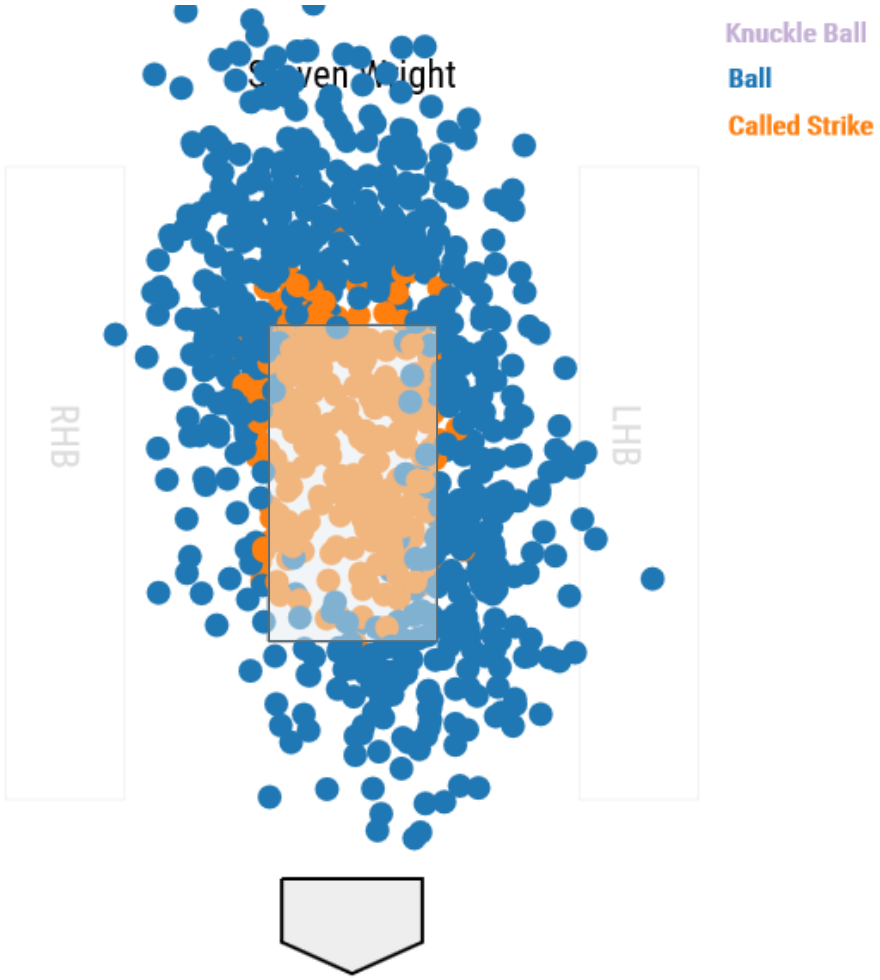
Umpire Call by Pitch Type



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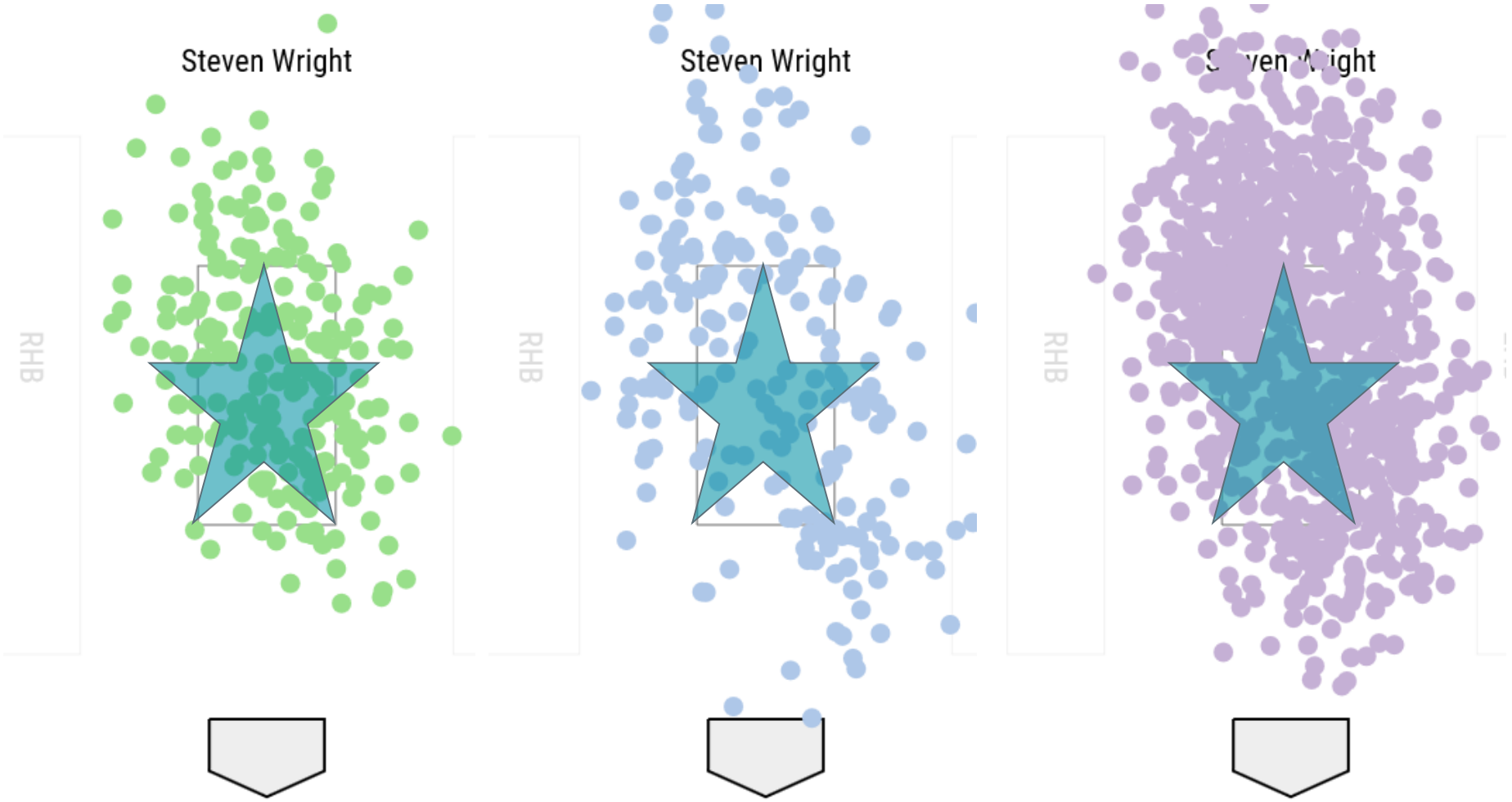
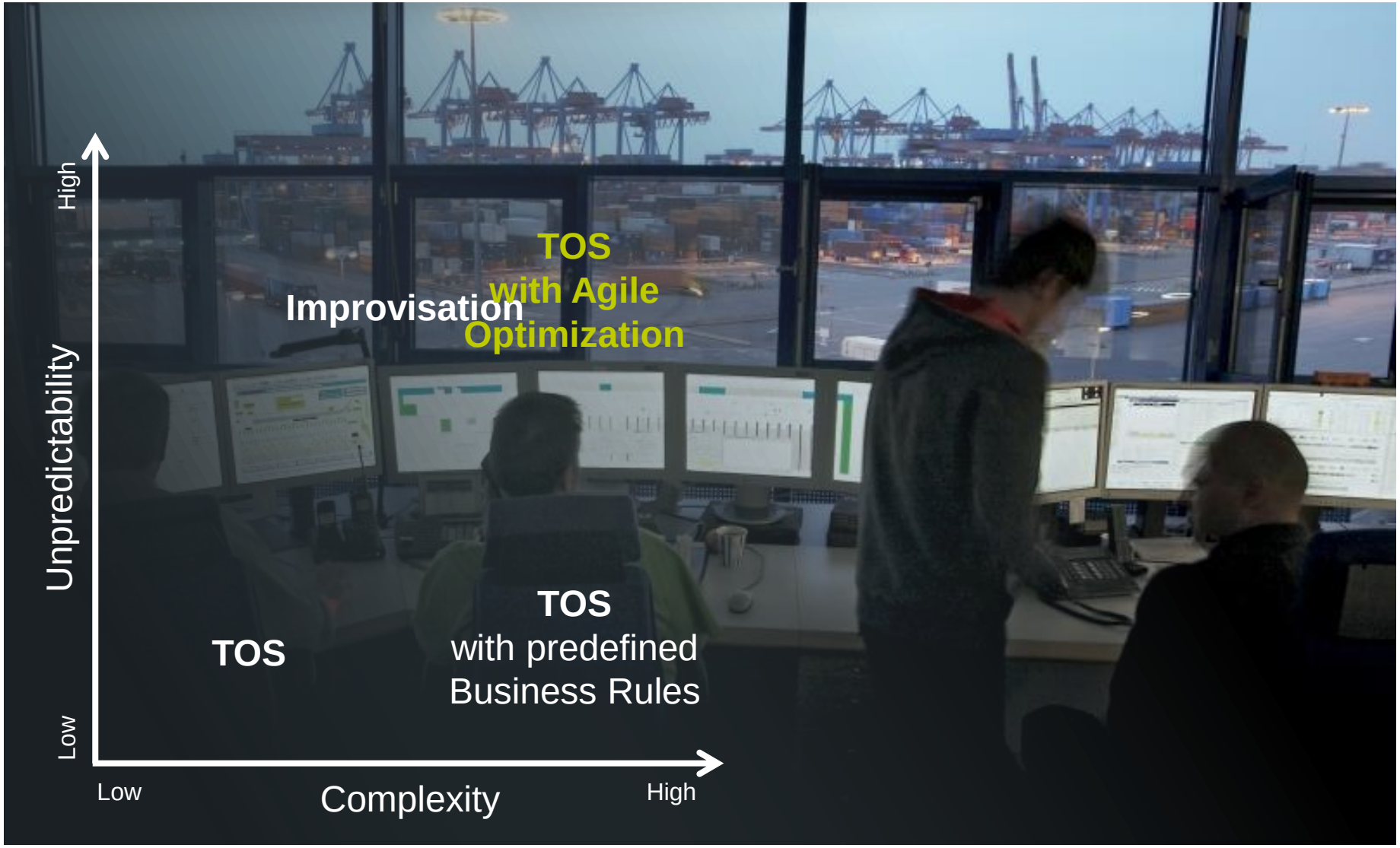
Decision-Making in Unpredictable and Complex Situations?



Decision-Making in Terminal Operations



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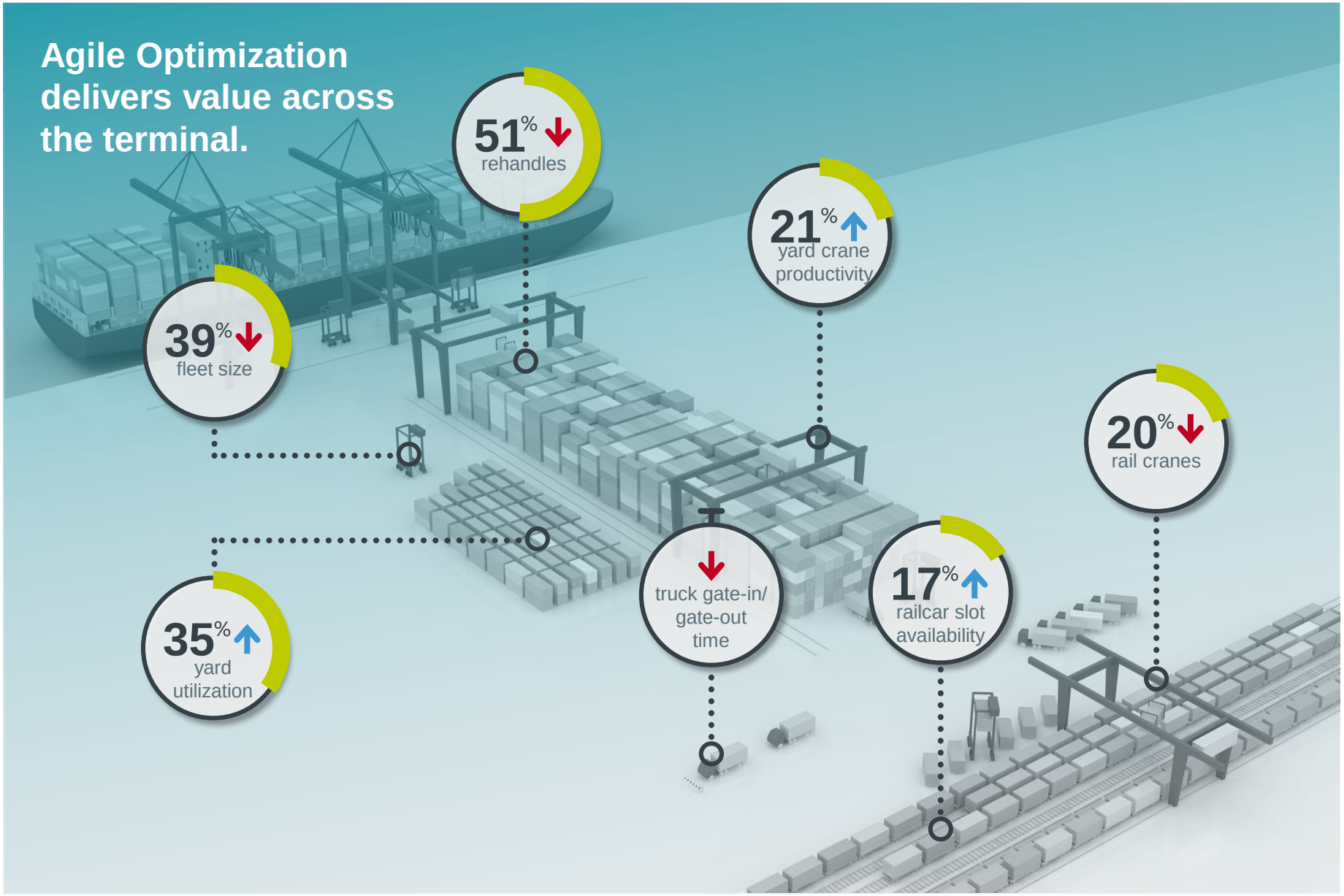

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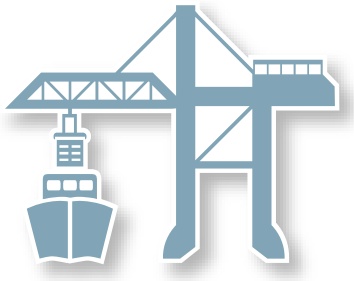
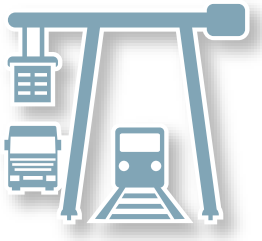
The Killer W's

Who

Port Authorities
Terminal Operators





Intermodal Operators
Rail Operators

What

- Reduce energy consumption
- Improve terminal efficiency
- Reduce development costs

When

- Greenfield designs
- Brownfield projects
- Fleet upgrades (replace aging equipment)

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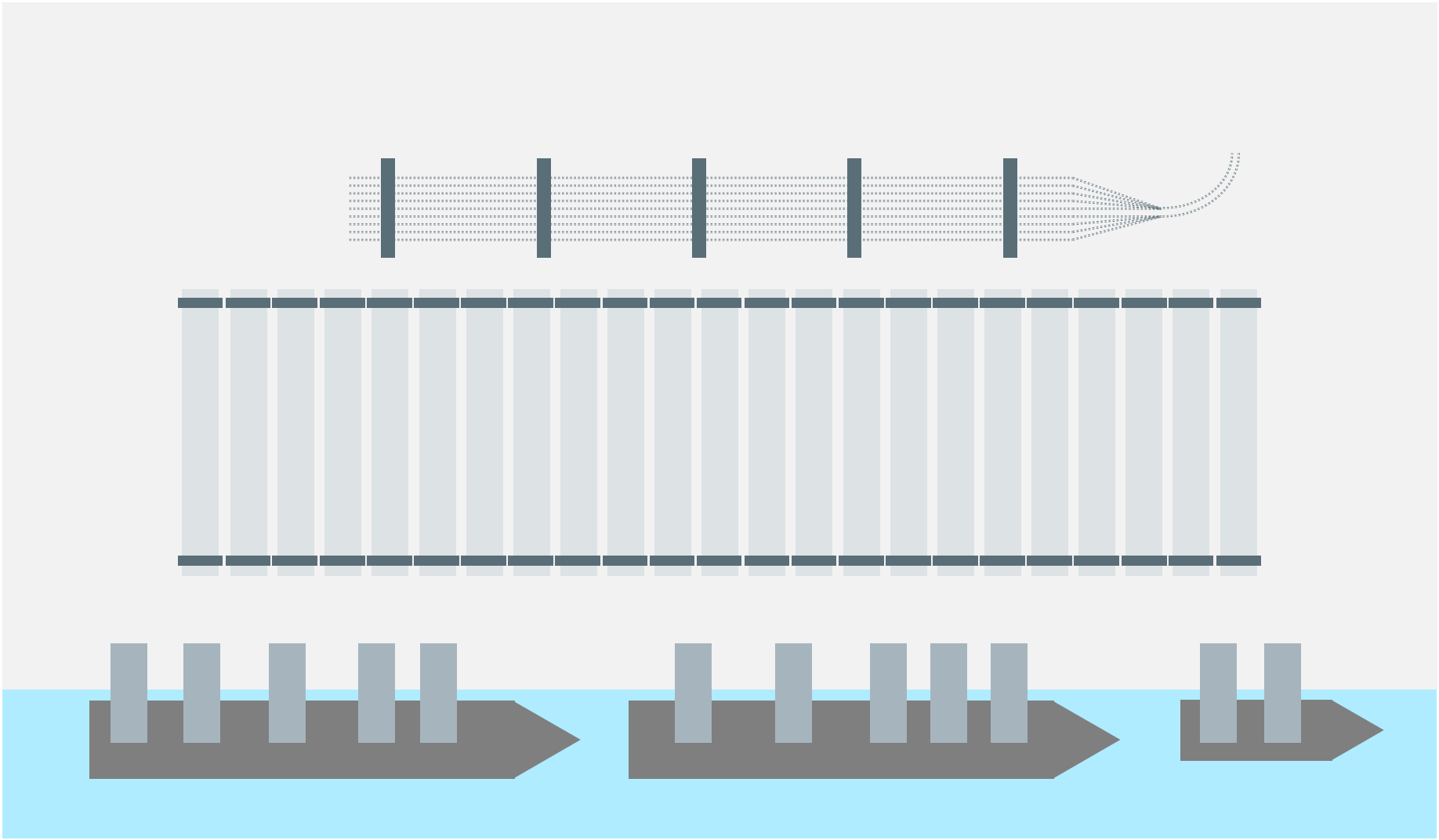
Greenfield Design: Reduce to the Max



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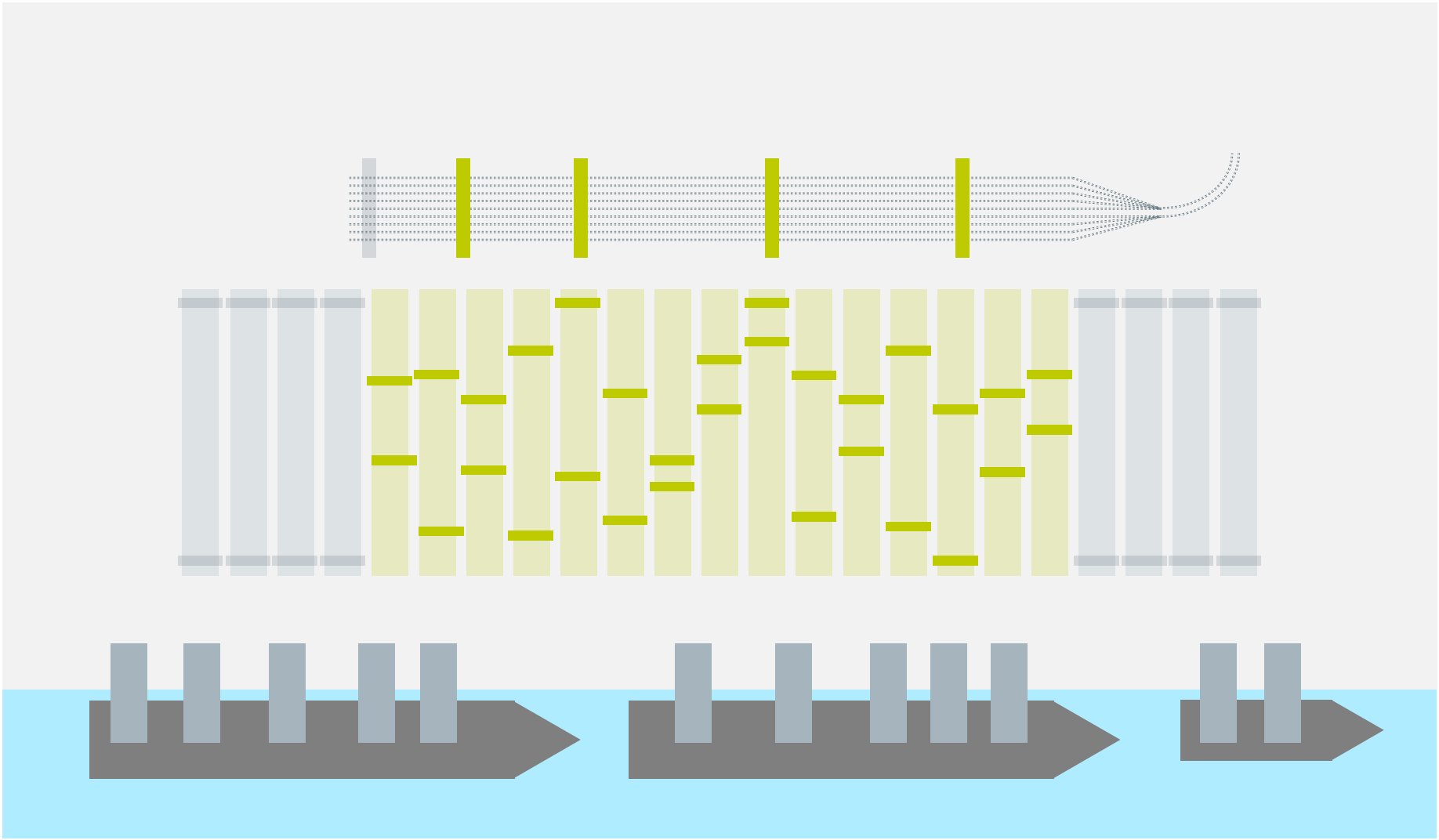
Greenfield Design: Reduce to the Max



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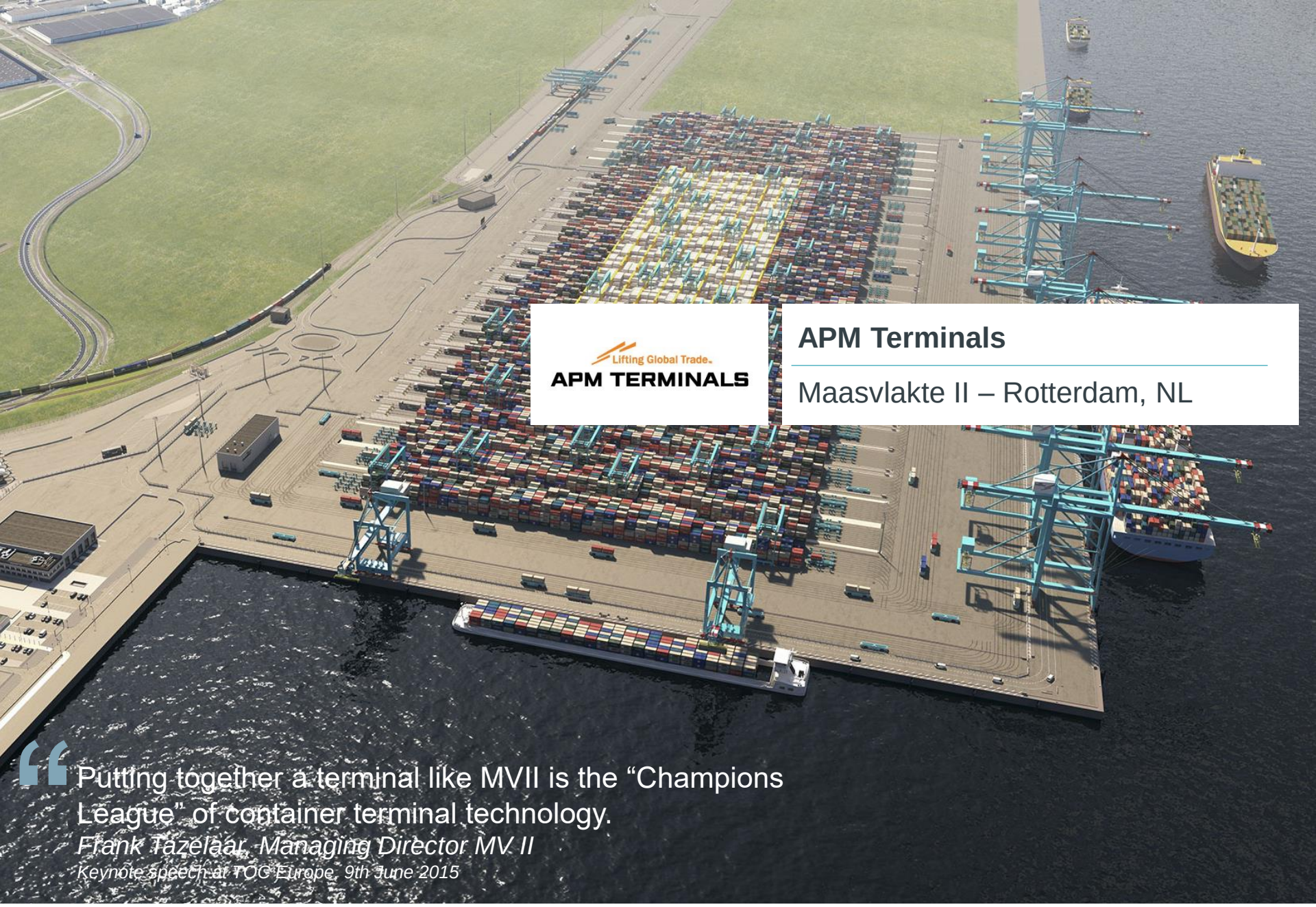

APM Terminals

Maasvlakte II – Rotterdam, NL

> Putting together a terminal like MVII is the “Champions League” of container terminal technology.
>
> *Frank Tazelaar, Managing Director MV II*
>
> *Keynote speech at TOC Europe, 9th June 2015*

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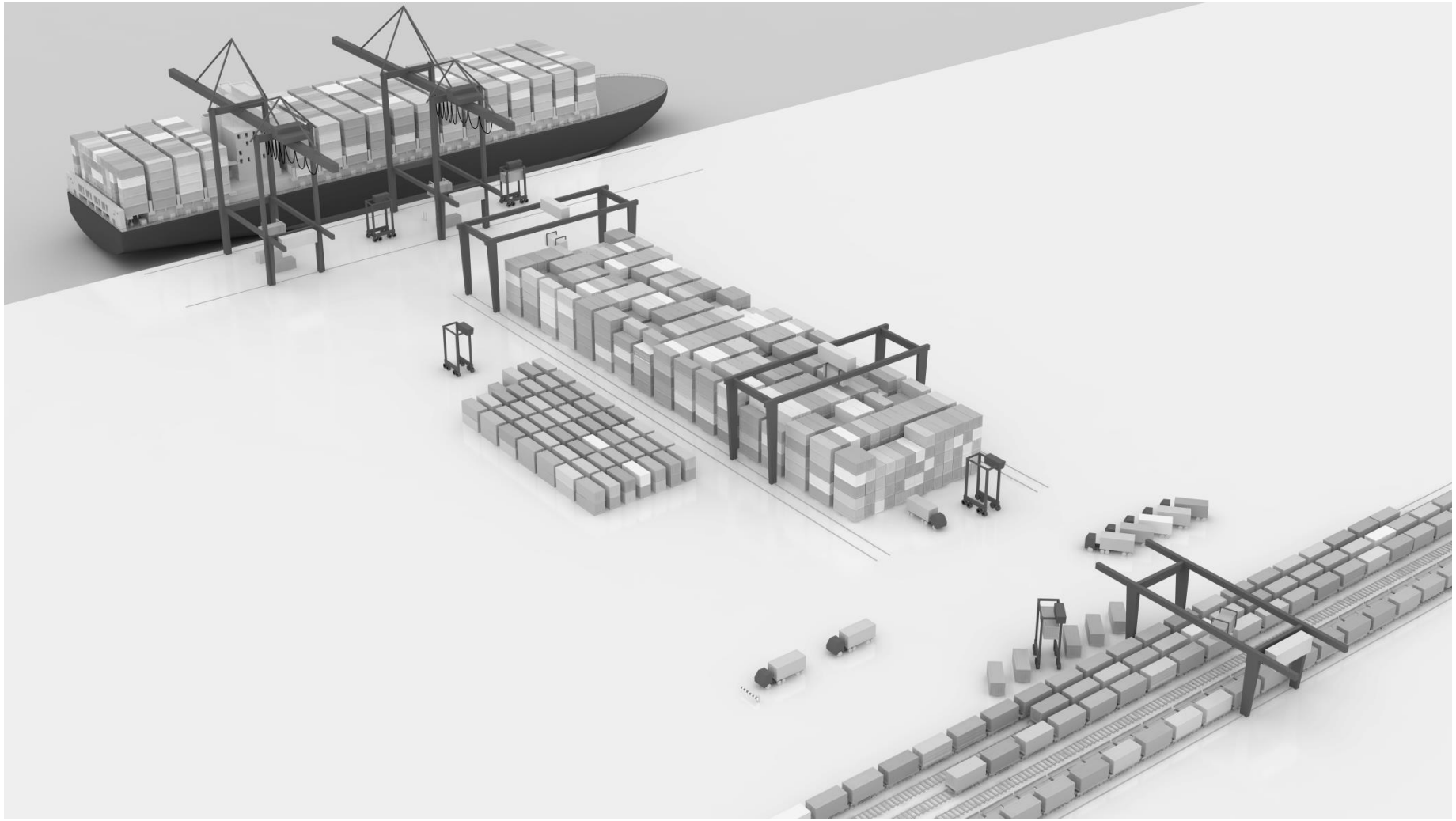
Brownfield Projects: Expanding Efficiency



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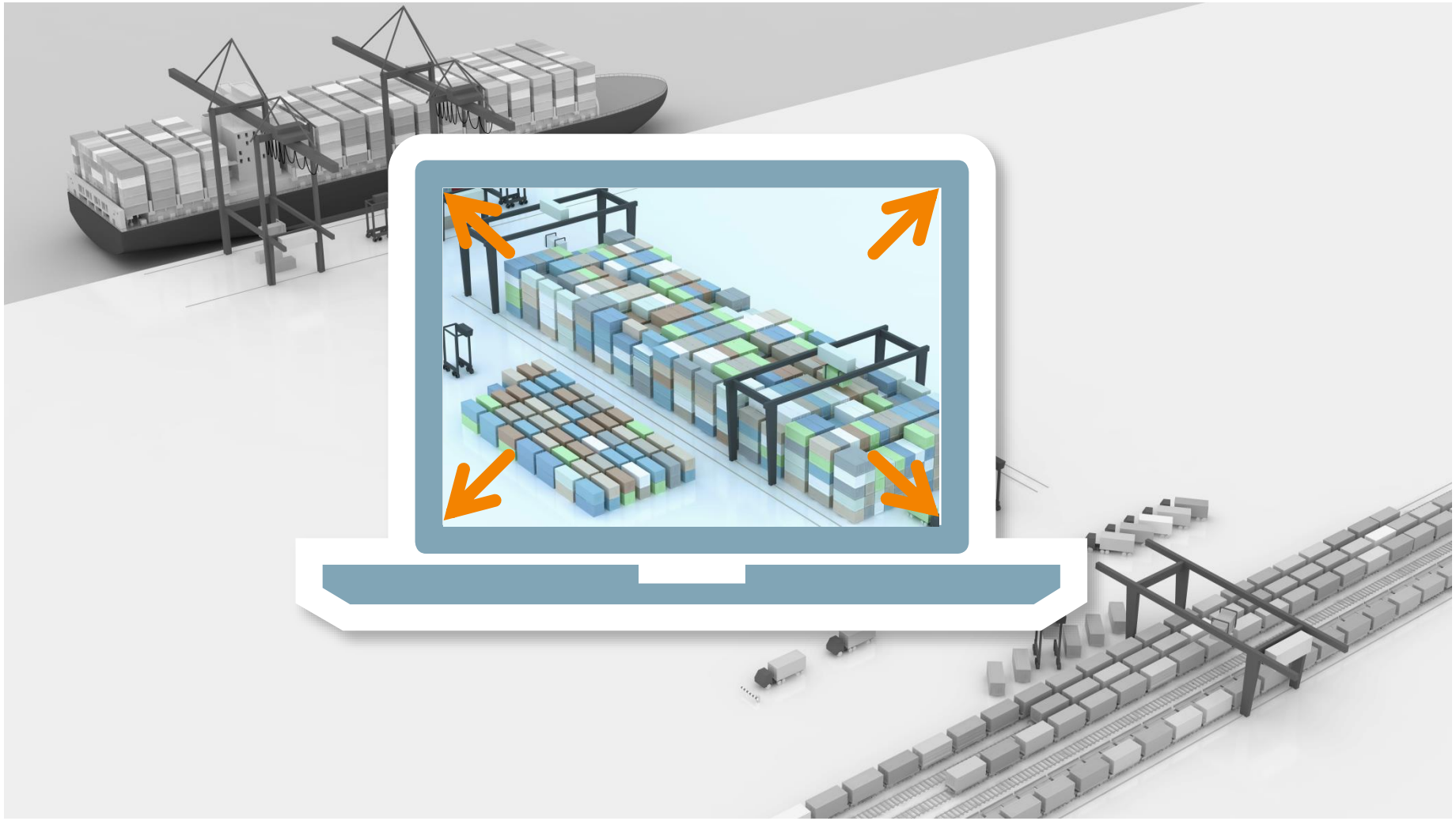
Brownfield Projects: Expanding Efficiency



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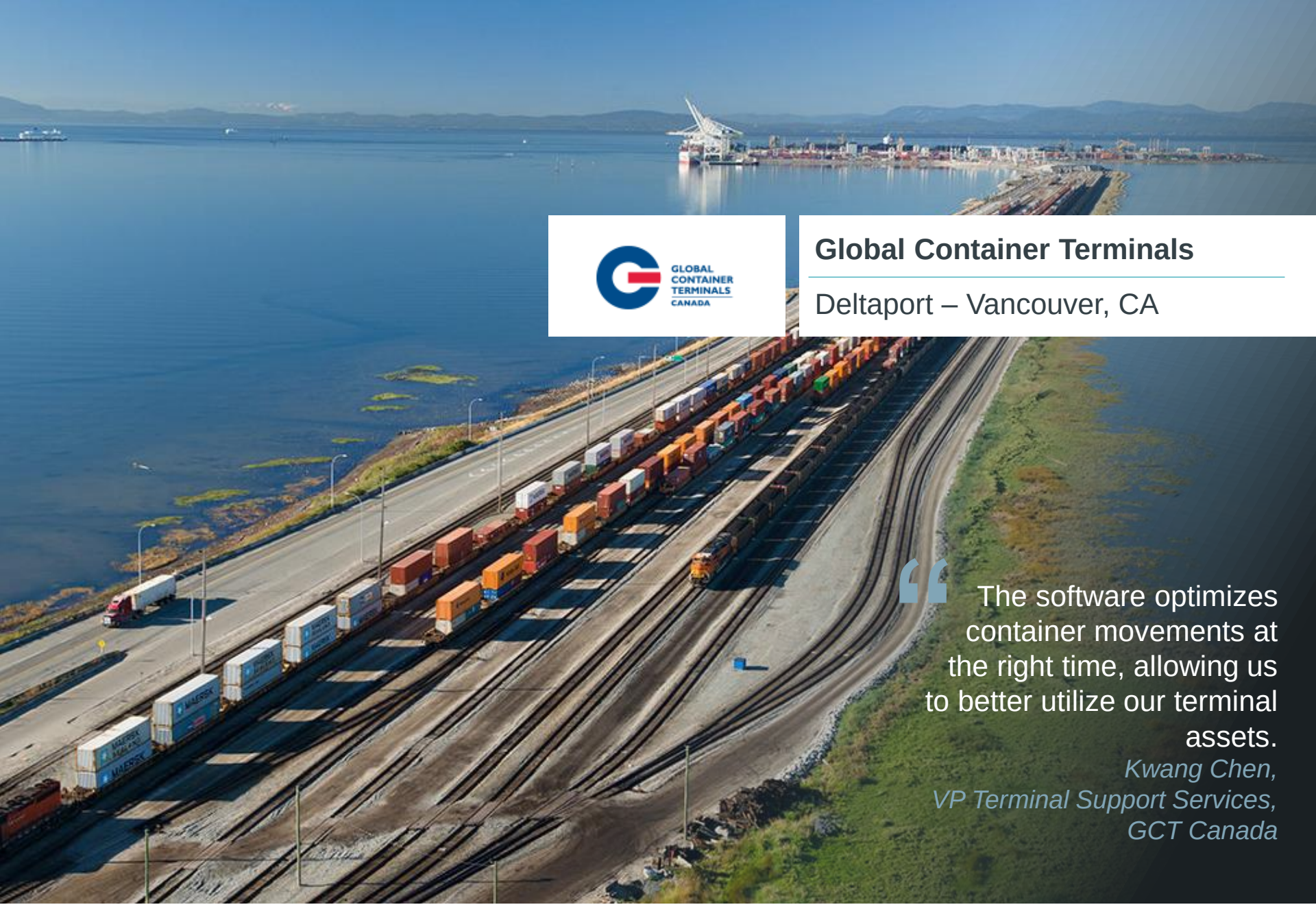

Global Container Terminals

Deltaport – Vancouver, CA

> The software optimizes container movements at the right time, allowing us to better utilize our terminal assets.
>
> *Kwang Chen,*
> *VP Terminal Support Services,*
> *GCT Canada*

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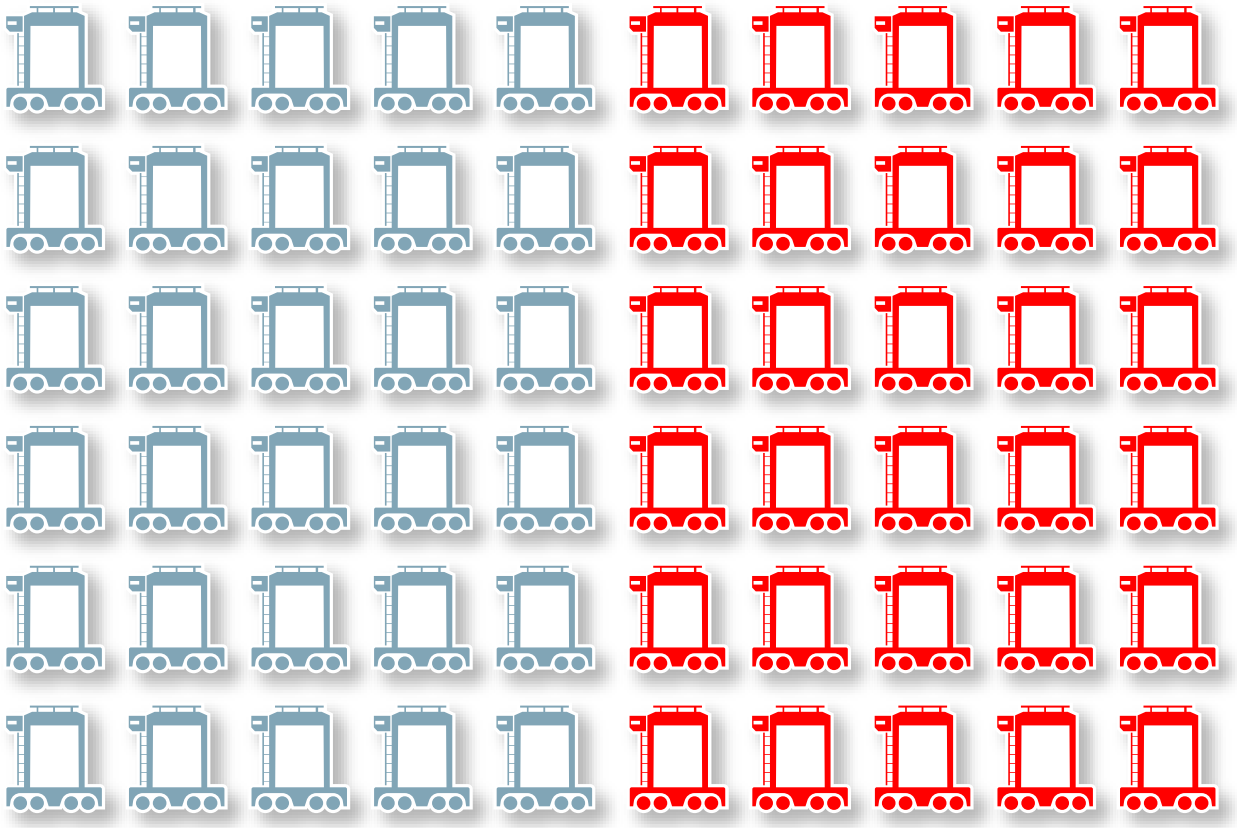
Fleet Upgrades: Shrink to Grow



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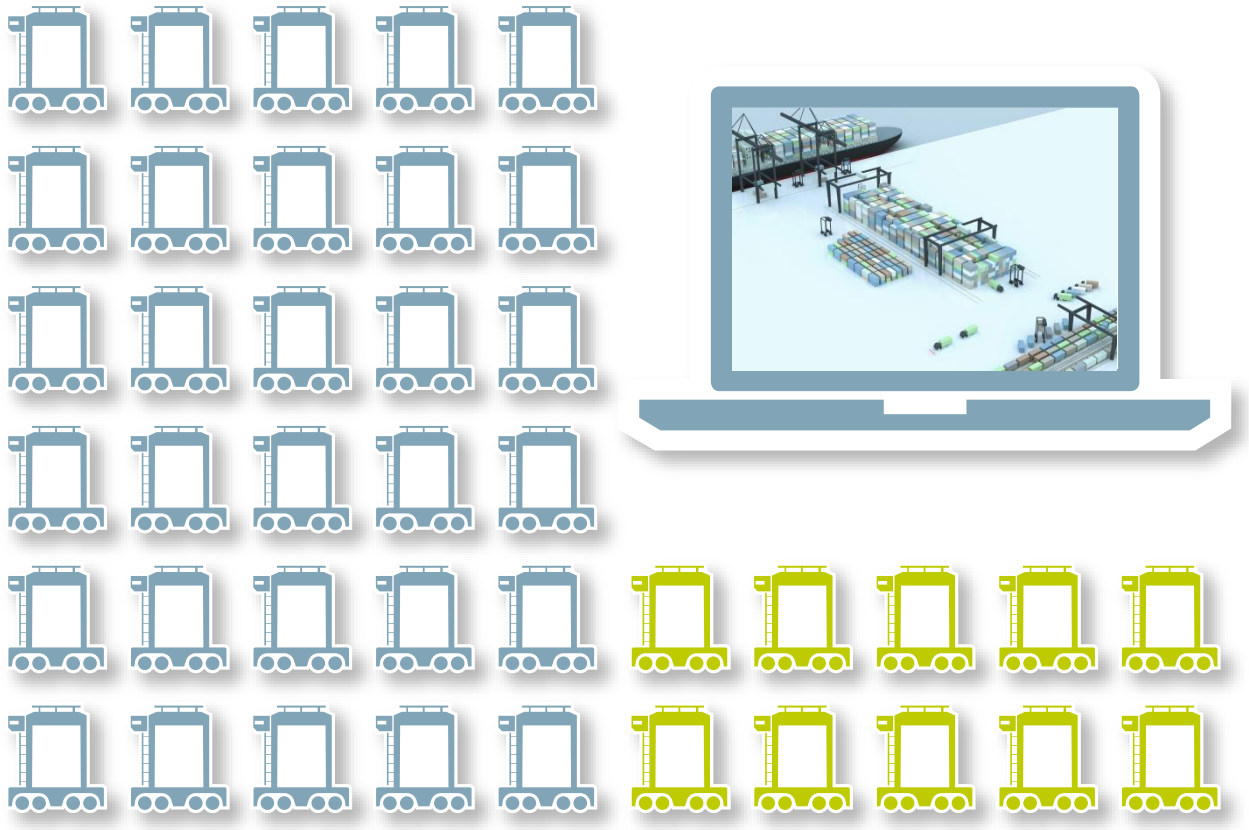
Fleet Upgrades: Shrink to Grow



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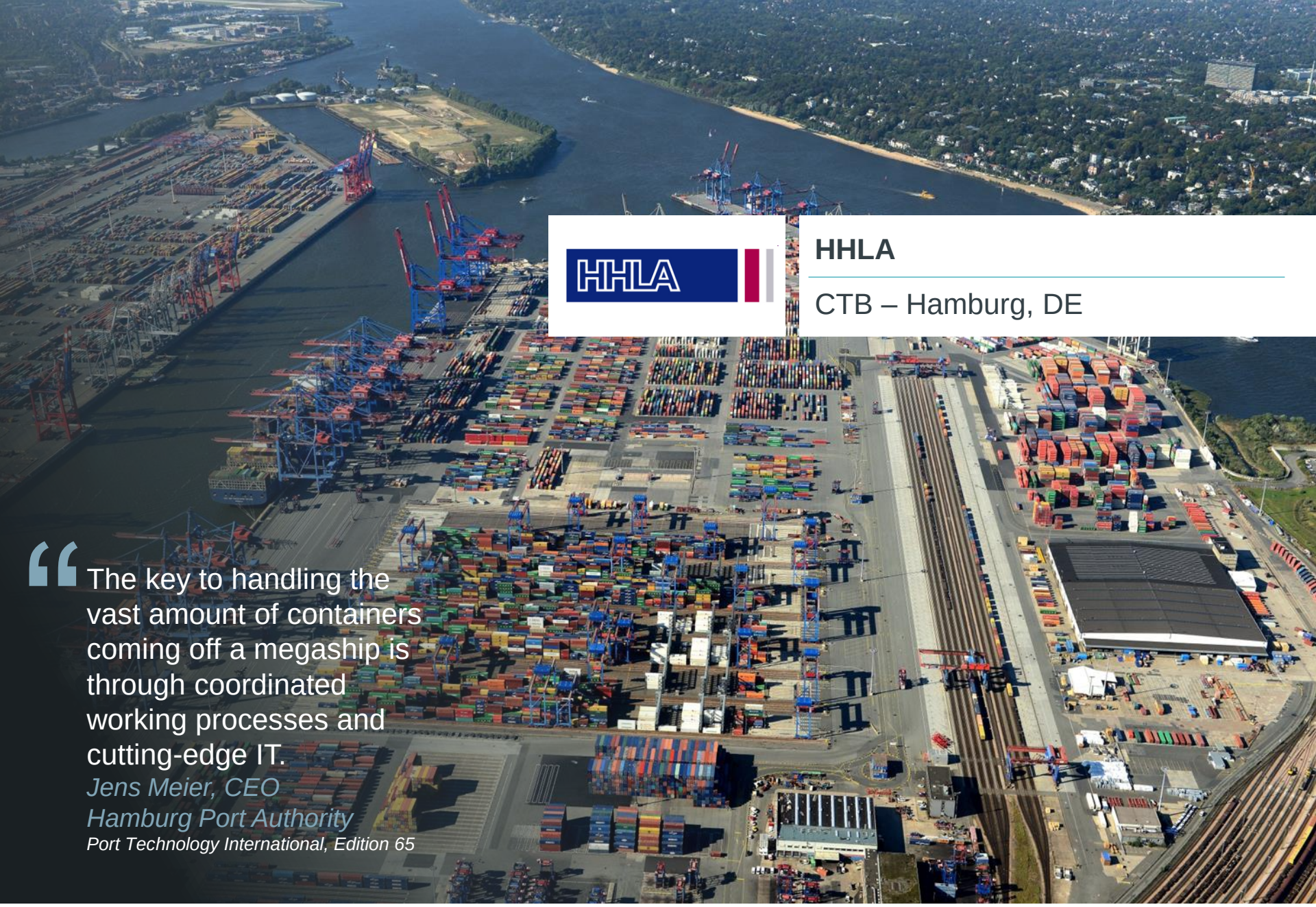

HHLA

CTB – Hamburg, DE

> The key to handling the vast amount of containers coming off a megaship is through coordinated working processes and cutting-edge IT.
>
> *Jens Meier, CEO*
> *Hamburg Port Authority*
> *Port Technology International, Edition 65*

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Who’s on First?

Simulation: Identifying Optimization Software and putting them to feel the heat

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Simulation: What's Needed?

Scope of Simulation

- Single-step processes
- Multi-step processes
- Fully integrated simulation

Same Data Set

- All orders and deadlines
- Available resources
- Modelling operation

Operational Scenarios

- Busy day
- Typical day
- Quiet day

Site Constraints

- Static data
- Physical constraints
- Capacity constraints

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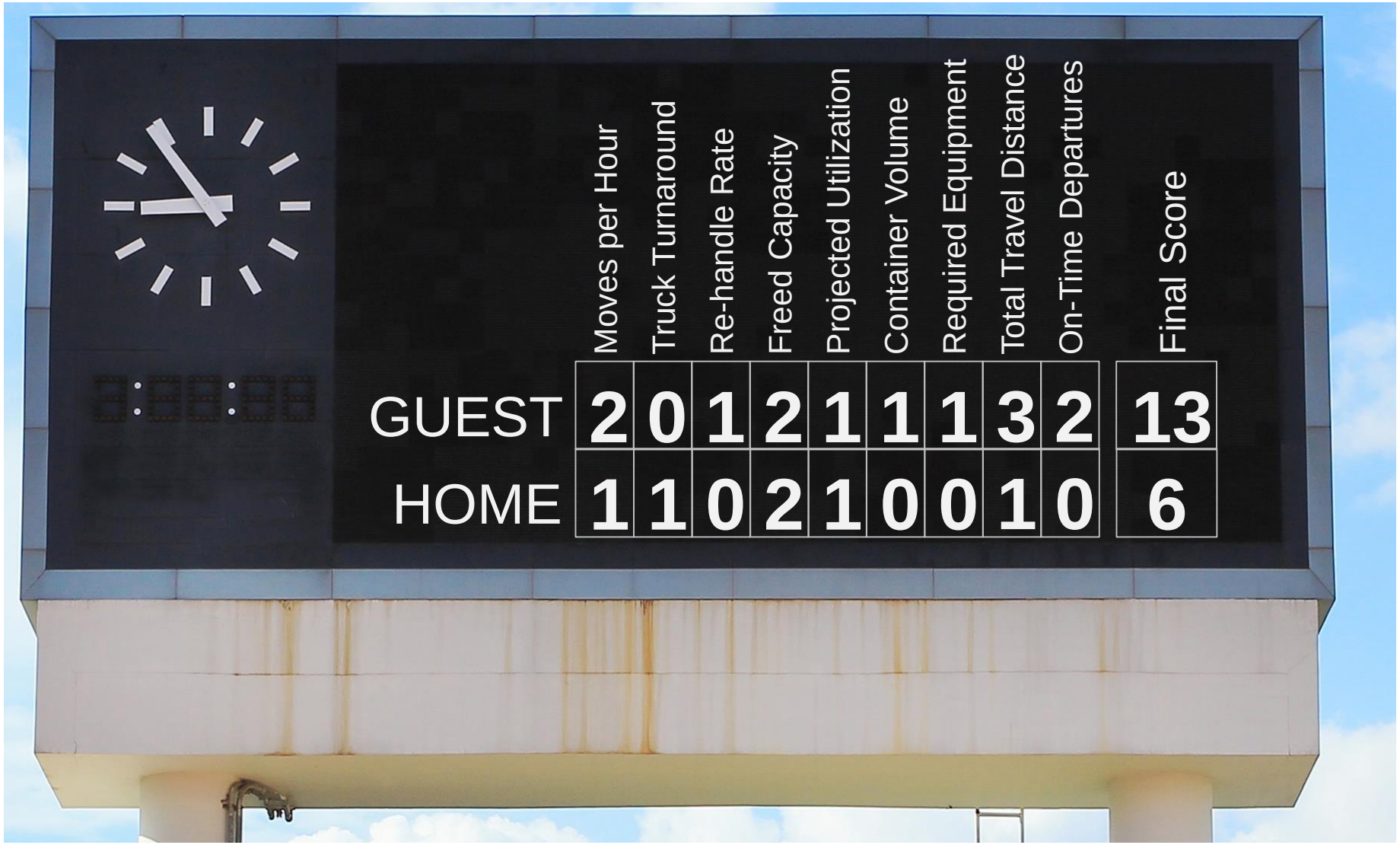
Boxscore
(Evaluation of the Simulation)



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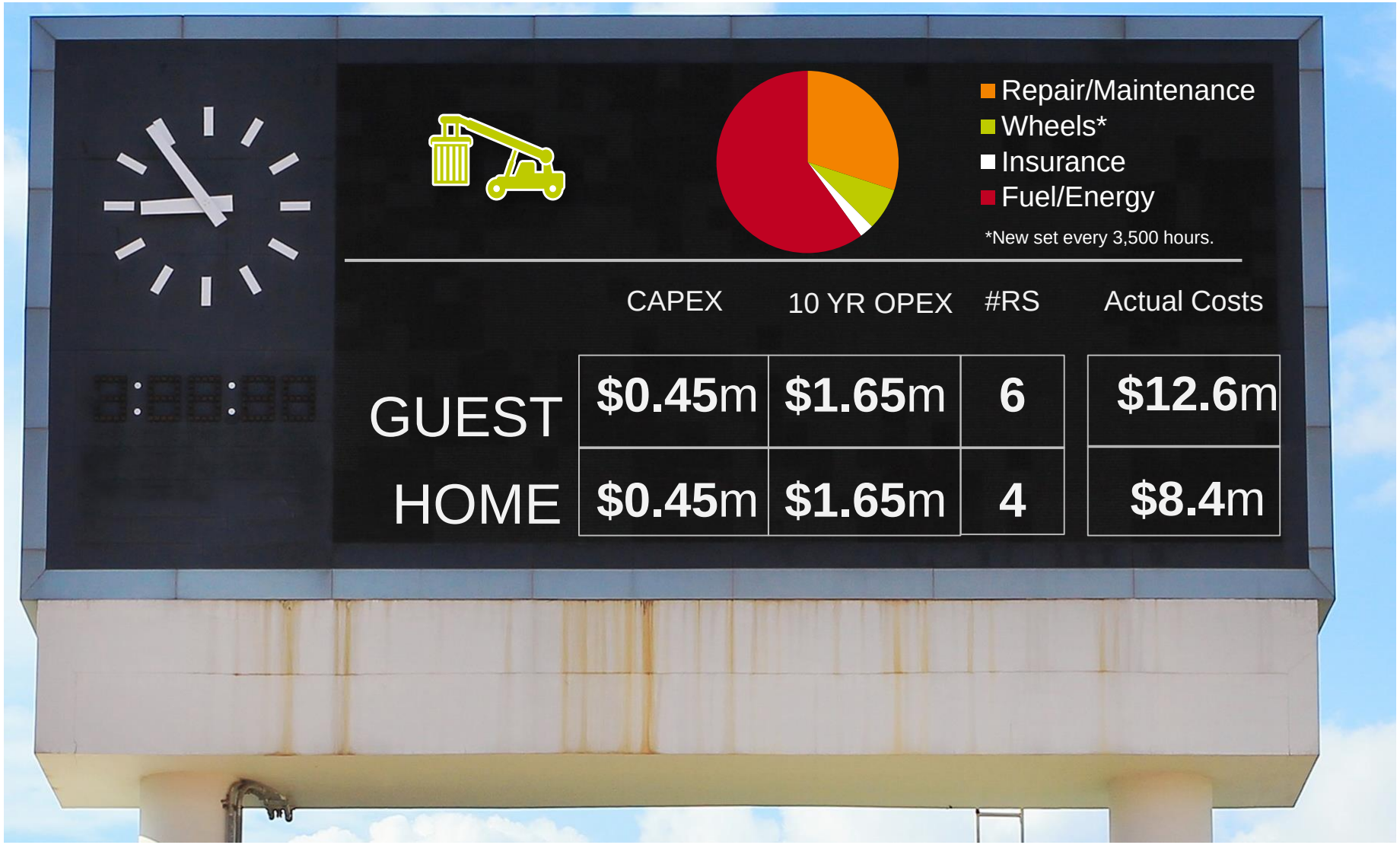
Moneybox



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Senior Consultant, Logistics Division

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