Port of the Future Serious Game (PoFSG)

TRA2020: Preparing for the Port of the Future

23 June 2020, online webinar

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BUSTNESS

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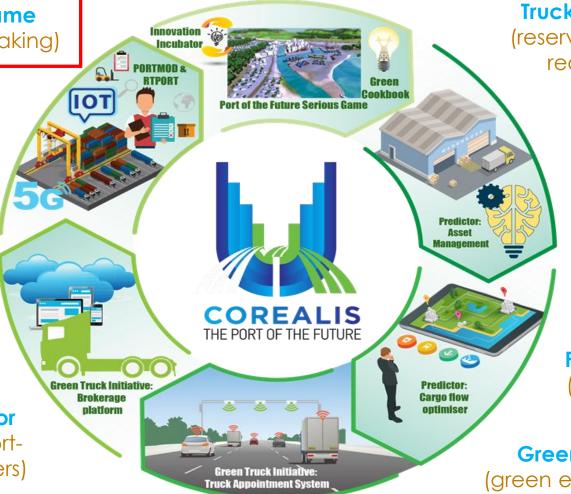
Port of the Future Serious Game (simulation tool for decision making)

RTPORT (5G-enabled smart terminal operations, IoT)

Brokerage Platform (cloud based marketplace for leasing intra-CT trucks)

> **PORTMOD** (optimization planning tool for CT operations)

> > Innovation Incubator (development of portcity innovation clusters)





Truck Appointment System (reservation system including real-time traffic data)

> Just-In-Time Rail Shuttle Service (feasibility study for key porthinterland corridors)

> > Cargo Flow Optimiser (optimization of cargo flows ocean/rail/inlandwaterway)

Predictor for Asset Management (machine learning based Just in Time inventory)

Green Cookbook (green energy solutions)



This project has received funding from the European Union's horizon 2020 research and innovation programme under grant agreement No. 768994

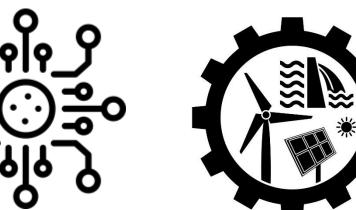
Why the Port of the Future Serious Game?



Motivation:

- Ongoing port developments to accommodate economic and population growth
- "Inclusive green growth" more attention for environmental and social aspects
- New challenges: emerging technologies, energy transition, climate change









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Objectives:

- Raise awareness simulating real-world events
- Stakeholder involvement together explore and discuss port development aspects
- Education multi-disciplinary thinking and different stakeholder perspectives









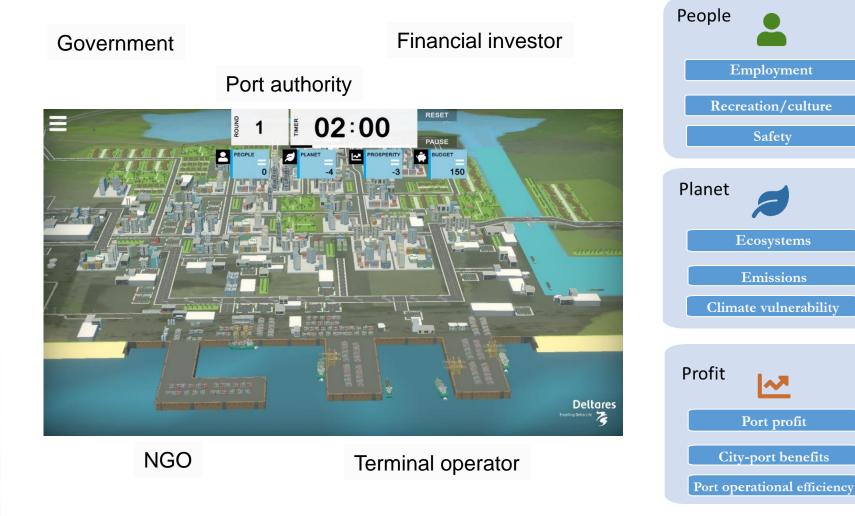
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What is the Port of the Future Serious Game?

- Setting: fictious port
- Multiple stakeholder groups
- Each round select 2 measures
- Measures have scores:
 - People-Planet-Profit (PPP)
 - Costs and benefits
- Negotiate about measures
- Together balance PPP

 inclusive green growth







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THE PORT OF THE FUTURE

Scenarios and events



- Different scenarios for different learning goals (tailored to port needs/context)
- (News) Events trigger additional debate and conflict amongst stakeholders

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	Scenario	Learning goal
	Climate change adaptation	Awareness of potential consequences of climate change and adaptation measures
	Energy transition	Awareness of measures for energy transition and its potential consequences
	Economic stagnation	Anticipate to economic decline and its consequences for port-city relations
	Innovation (emerging technologies)	Awareness for emerging technologies and their potential consequences
	Sustainable port-city development	Stressing importance of stakeholder inclusion and livable port-city environment
	Neutral	Fit-for-purpose scenario based on selected events

3 SPECIAL NEWS **3**

Jobless rate at highest since 1990



The unemployment rate is sky high. There are big demonstrations in the city and politicians put increasing pressure on the port to take action.





A huge hurricane has hit the port and shut down port activities for days. Companies ask for better protection, else they will relocate their activities.

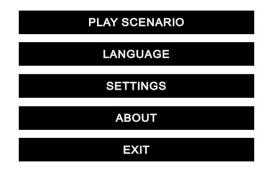


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Fly through the game



- PORT OF THE FUTURE -





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Concluding remarks

- Focus is on raising awareness/exploration, not decision-making tool
- Qualitative rather than quantitative character
- Feedback from past experiences:
 - Nice, interactive way of learning about port developments and challenges
 - Game helped to:
 - Better understand port sustainability
 - Better understand different stakeholder viewpoints
 - Think differently
- More information:
 - https://www.corealis.eu/
 - https://www.deltares.nl/en/software/port-of-the-future-serious-game/



Thank you for your attention!

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COREALIS EU Project

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