

COREALIS

The port of the future for the future of ports

INTERMODEL Final General Assembly







- ✓ Call identifier: H2020-MG-7.3-2017
- ✓ Topic: "The Port of the future"
- ✓ Duration: 01.05.2018 30.04.2021 (**36** months)
- 17 partners from 9 European and associated countries
- ✓ 4 Research Institutes, 5 Port operators/ Port Institute/ Port Authority, 4 Industries, 3
 SMEs, 1 ITS Association
- ✓ Demonstrations in **Five European Port-Cities**







COREALIS proposes a **strategic, innovative framework**, supported by **disruptive technologies**, including Internet of Things (IoT), data analytics, next generation traffic management and emerging 5G networks, for cargo ports to face <u>current and future challenges</u> regarding:



Limited port capacity (towards embracing circular economy models)



Reduction of environmental footprint (associated with intermodal connections for three major transport modes, road/truck, rail and inland waterways)



Increase of efficiency & reduction of traffic within and around ports (by optimising yard capacity and streamline cargo flows without additional infrastructural investments)



Sustainability of the socioeconomic development of the port and its surrounding area (by Enabling the port to become an innovation hub of the local urban space)





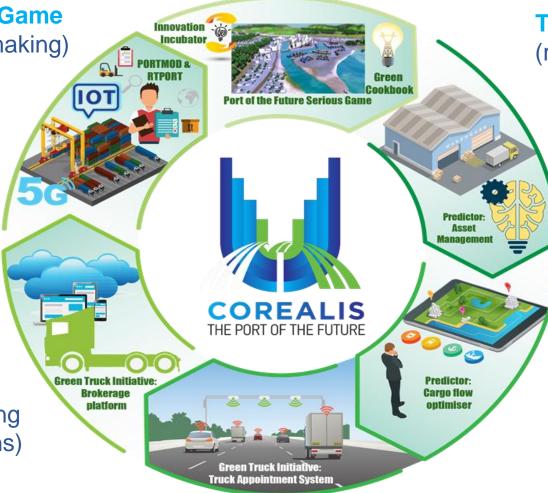


Port of the Future Serious Game (simulation tool for decision making)

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

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

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



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

Just-In-Time Rail Shuttle Service

(feasibility study for key port-hinterland corridors)

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

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







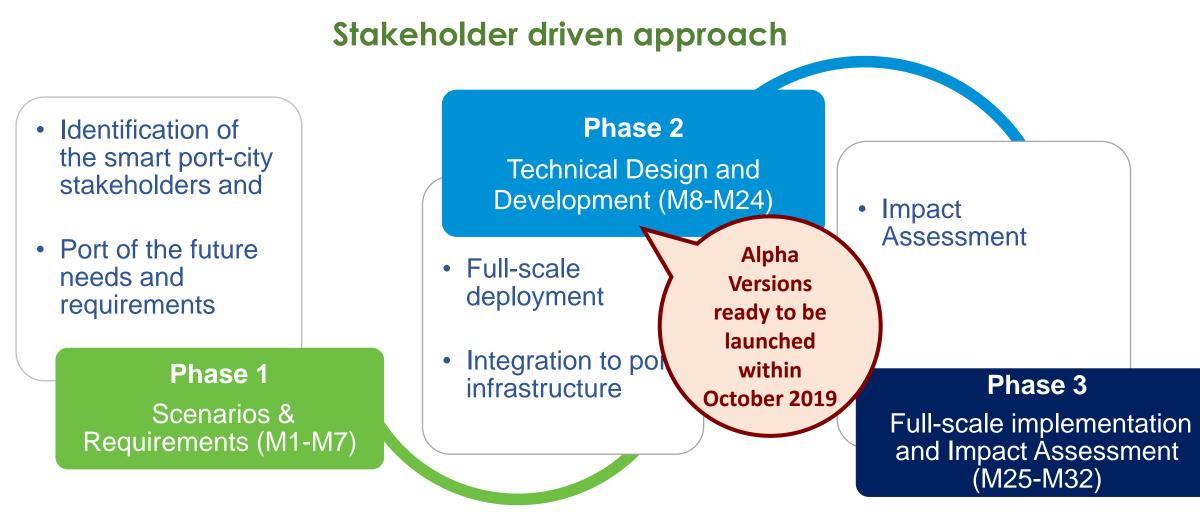


	Hinterland connectivity			Intra-Terminal operations				Decision making/ Innovation		
	TAS	Brokerage platform	JIT Rail Shuttle Service	Cargo Flow Optimiser	Predictor / Asset Mgmt	PORTMOD	RTPORT	Energy assessment & Green cookbook	PoF Serious Game	Innovation Incubator
Valencia	X		X							X
Piraeus					X			X	x	
Livorno						X	X		x	
Antwerp		X		x						
Haminakotka	x					x			X	















THANK YOU FOR YOUR ATTENTION

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