THE PORT OF THE FUTURE
FOR THE FUTURE OF PORTS

COREALIS- Capacity with a positive environmental and societal footprint: Ports in the Future era

www.corealis.eu @corealis_eu @COREALIS_EU COREALIS EU Project

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VISION

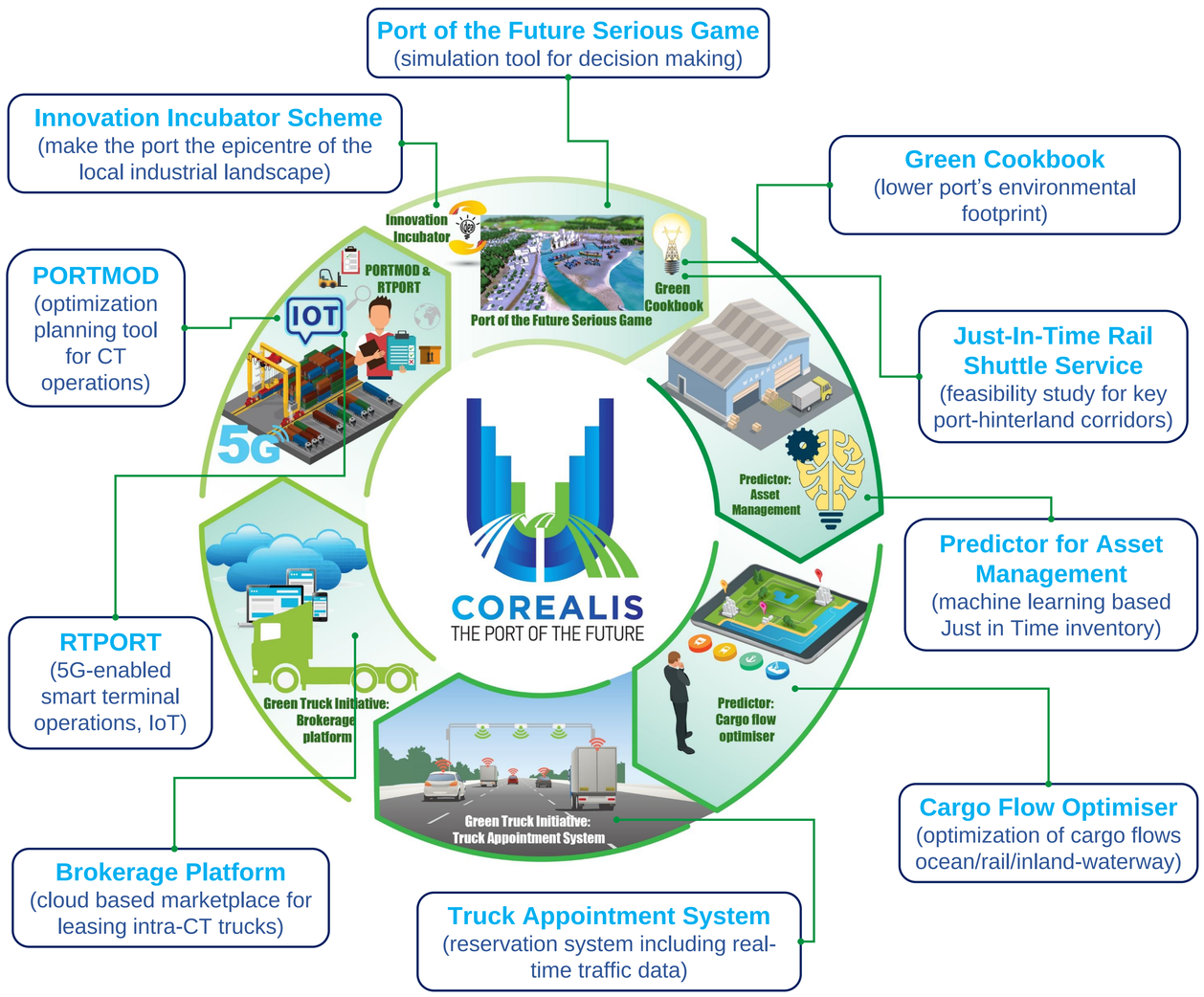
COREALIS is developing an **innovative framework** for assisting cargo ports in handling their upcoming and future capacity, traffic, efficiency and environmental challenges. It is benefitting from **disruptive technologies**, including Internet of Things (IoT), data analytics, next generation traffic management and emerging 5G networks.

COREALIS is implementing **beyond state of the art**, **financially viable innovations** for future ports. These will optimise the port land use, requiring **minimum infrastructure upgrades**, while at the same time respect circular economy principles and improve the urban life quality.

OBJECTIVES

- Embrace **circular economy** models in the port strategy and operations.
- Reduce the **ports**' total **environmental footprint.**
- Encourage ports to become an **innovation hub** of the local **industrial & urban** space.
- Optimise **yard capacity** and improve safety without major infrastructural investments.
- Streamline **cargo flows** in favour of green transport modes.
- Improve **port-city stakeholder collaboration** for medium/long-term decision making.

COREALIS INNOVATIONS



IMPACT

ENVIRONMENTAL

Significant **reduction of CO_2** port emissions and perceived noise

OPERATIONAL

Improvement of terminal **operations' efficiency**, **reduction in congestion**, waiting and idle times, establishment of **efficient connections** with hinterland transport network (railway & inland waterways).

SOCIETAL

Increased **port-city** stakeholder **collaboration** & improved quality of life for port-city residents.

LIVING LABS

PROJECT PARTNERS

ICCS, PCT, SEAbility, ERTICO, SGS, dynniq, Port of Antwerp, cnit, VTT, mosaicfacto, Deltares, NEC, Fundación Valenciaport, Ericsson, Autorità di Sistema Portuale del Mar Tirreno Settentrionale, MARLO, STEVECO

PROJECT FACTS

Title: COREALIS- Capacity with a pOsitive enviRonmEntal and societAL footprInt: portS in the future era

Coordinator: Institute of Communication and Computer Systems (ICCS)

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