

# THE PORT OF THE FUTURE FOR THE FUTURE OF PORTS

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

### 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.

### IMPACT

#### ENVIRONMENTAL

Significant **reduction of CO<sub>2</sub>** port emissions and perceived noise

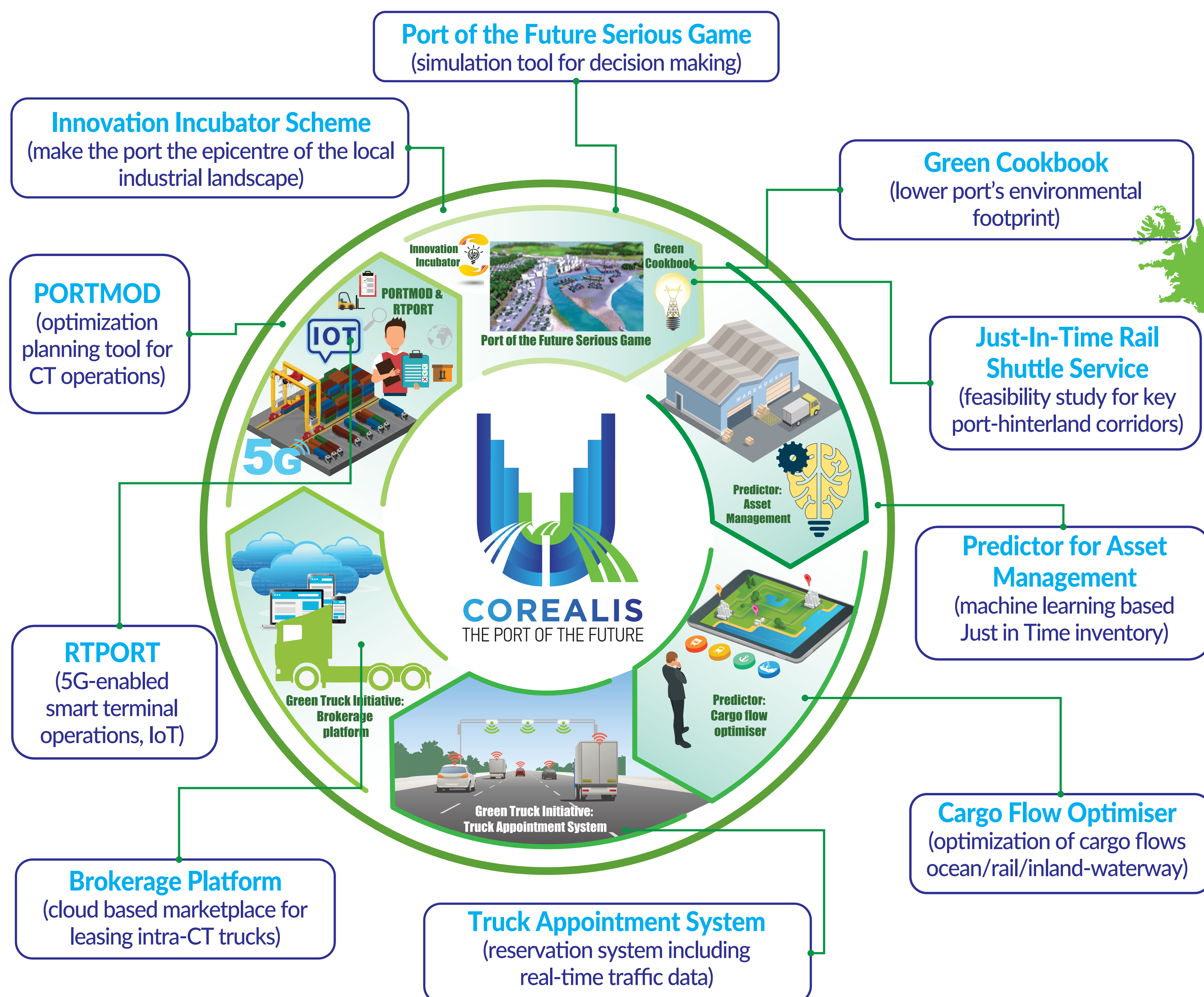
#### OPERATIOAL

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

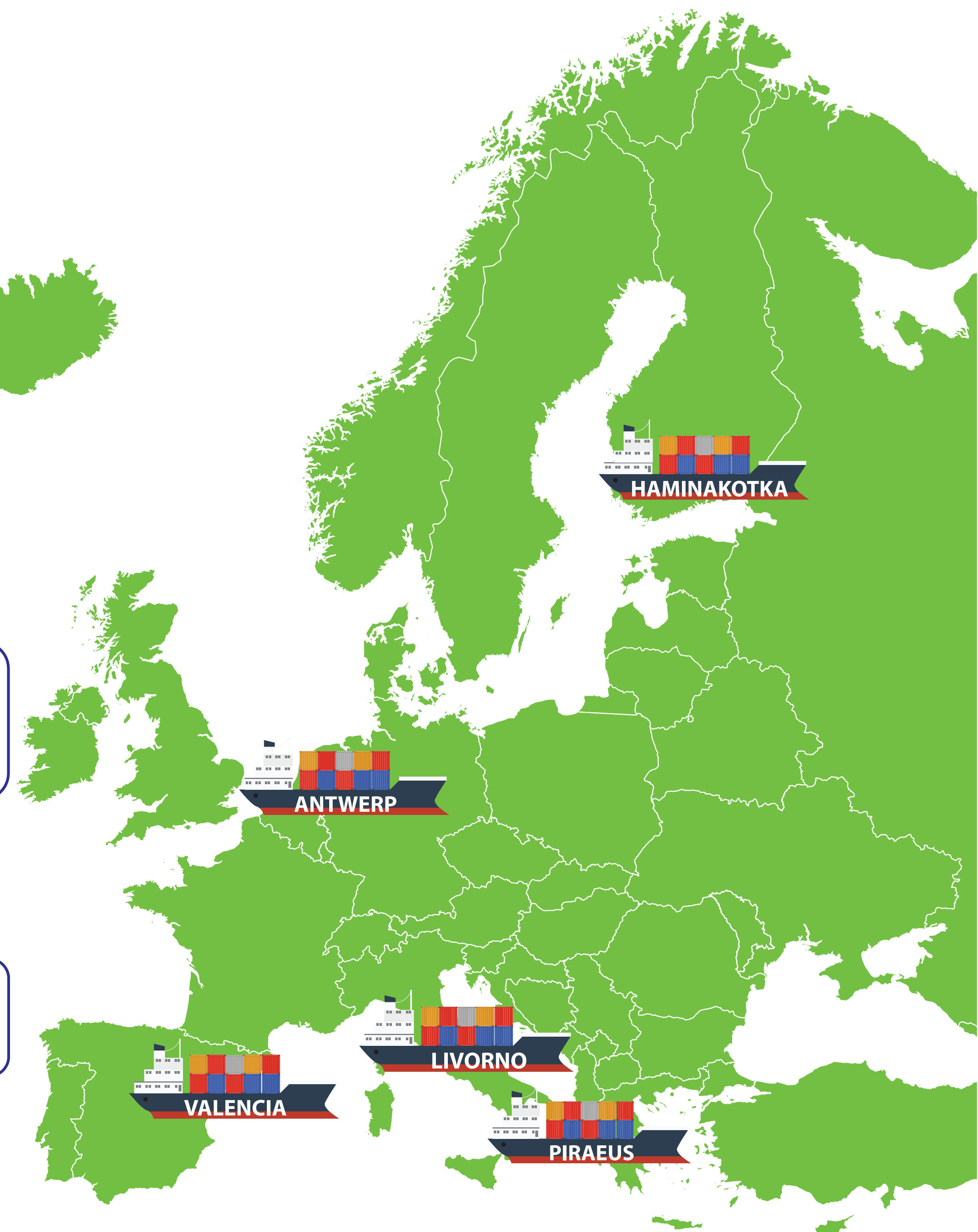
#### SOCIETAL

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

### COREALIS INNOVATIONS



### LIVING LABS



### 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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### PROJECT PARTNERS

