CSA — RIA cooperation: PIXEL case

PIXEL - Port IoT for Environmental Leverage

Docks The Future
defining the concept of "Port of the Future"

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Researcher

Project outcomes and the Port of the Future Network of Excellence

Digital Conference - 24th November 2020
PIXEL and DtF encounters

We had good times together... seeing each other and sharing the vision of Port of the Future innovation...
PIXEL and DtF (virtual) encounters

And we adapted to continue virtually (much less fun though…)

to our |
What is PIXEL and how has it been aligned with DtF definition of Port of the Future?

According to D1.5 from DocksTheFuture,

Whenever thinking about what the Port of the Future must be, the 2 key elements that are omnipresent are digitalization/digital transformation and sustainability.
Hands-on work we did together

- **SUMMER-AUTUMN 2018** – Roadmap for clustering activities and contribution to the PoF definitions

- **WINTER 2018 → WINTER 2019** – Joint events, experts’ discussions, bilateral exchange of exploitation products, mutual alignment...

- **WORKSHOPS MAY 2020** – Contribution to deliverable D5.3 of DtF

- **JUNE 2020** – DtF workshops presenting RIA tools (PCI, TA, DSS) and application to PIXEL.

PIXEL’s PEI was showcased as the example for using the tools.
Hands-on work we did together

Aggregated KPI “Climate and Energy”: 5.1
Aggregated KPI “Port-City Relations”: 7.6
Aggregated KPI “Governance and Ethics”: 4.3
Aggregated KPI “Resilient Infrastructure”: 3.4
Aggregated KPI “Safety and Security”: 1.0

Select KPI-weighing:
Consolidated Objectives Index: Port of the Future weighing 6.75
development/purchase cost -- divide per year -- + maintenance per year

Allocable costs [in Euro]:
Cost-adjusted consolidated Objectives Index: 100000

innovativeness-score:
Cost-adjusted innovativeness score: 3

Transferability Analysis:
transferability score: 3

Project Common Index:
19.49

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<tr>
<th>SUSTAINABILITY</th>
<th>10 AIVP Agenda 2030 Goals (possible coverage under other DIF Topics)</th>
<th>Topics (DIF Strategic Objectives)</th>
<th>Measures as Aggregated Performance Indicators (Targeted KPI type)</th>
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<td>Climate and Energy</td>
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<td>Combat Global Warming</td>
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UN SDGs not covered by DIF under this TOPIC (possible coverage under other DIF Topics)
PIXEL innovative proposal

PIXEL as a whole

Port Environmental Index (PEI) & Predictive Algorithms

Port ecosystem IoT Platform

Port Activity Models & Scenarios

Optimisation algorithms

Innovation Backbone (IoT)

PIXEL innovative schema

PIXEL user-friendly appearance
The Ports of the Future continues here...

The horizon in the ‘Port of the Future’ project is set at 2030!

Table 27: Top 10 measures

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<th>Number and name measure</th>
<th>Number of assessments</th>
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<td>MS380: Information sharing platforms</td>
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<td>MS220: Environmental compensation measures</td>
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<td>MS440: LNG bunkering, supply and distribution chain</td>
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<td>MS90: Collaborative network of ICT platforms</td>
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<td>MS570: Port Collaborative Decision Making</td>
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<td>MS270: Funding and financing</td>
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<td>MS160: Developing governance structure</td>
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<tr>
<td>MS540: Optimise and digitalise the logistic chain</td>
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Deliverable D1.5 DocksTheFuture on the measures about tools that the Ports of the Future will need to dispose of.
Keep updated about the Port of the Future quest…

PIXEL webinar series Kick-Off

FREE WEBINAR

Prof. Carlos E. Palau (Project Coordinator) and Miguel Ángel Llorente (Technical Coordinator)

Wednesday, January 13th, 2021

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Thank You + Questions?

This Communication is part of a project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement Nº769355

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