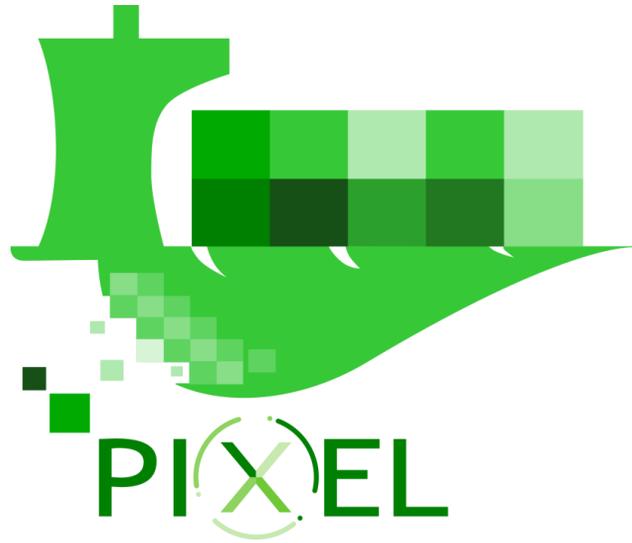
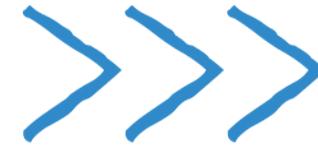


CSA – RIA cooperation: PIXEL case



PIXEL - Port IoT for Environmental Leverage



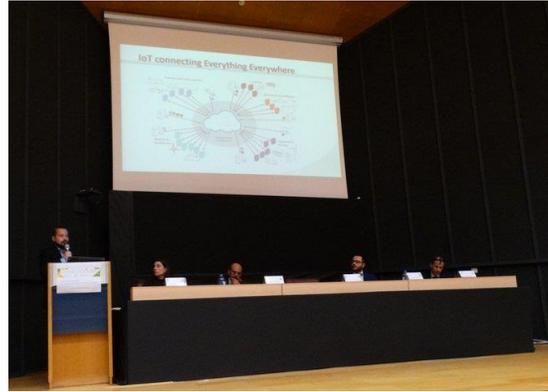
DOCKS THEIR FUTURE
defining the concept of "Port of the Future"

Ignacio Lacalle (UPV)
Researcher

PIXEL and DtF encounters



DtF Workshop with Experts, Oporto, October 2018



IoT connecting Everything Everywhere, Athens, November 2018



DtF Mid-term event, Trieste, May 2019

We had good times together, seeing each other and sharing the vision of Port of the Future innovation...



European Maritime Day, Lisbon, May 2019

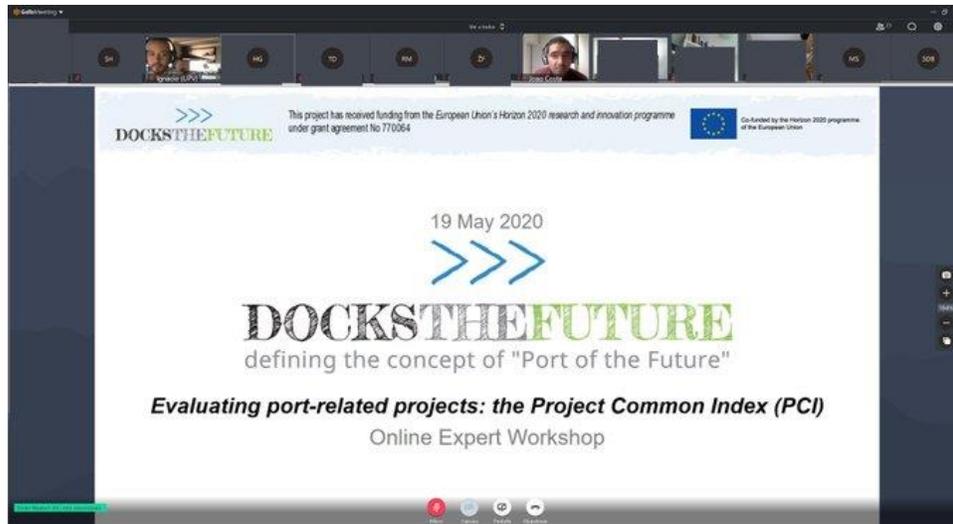


BILOG Conference, La Spezia, October 2019

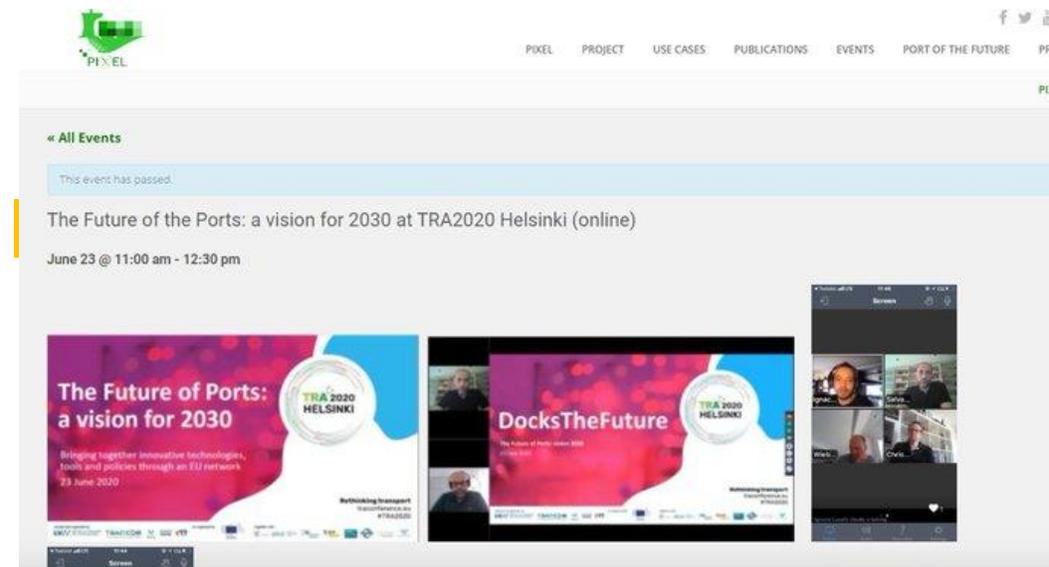


PIXEL and DtF (virtual) encounters

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



to our I

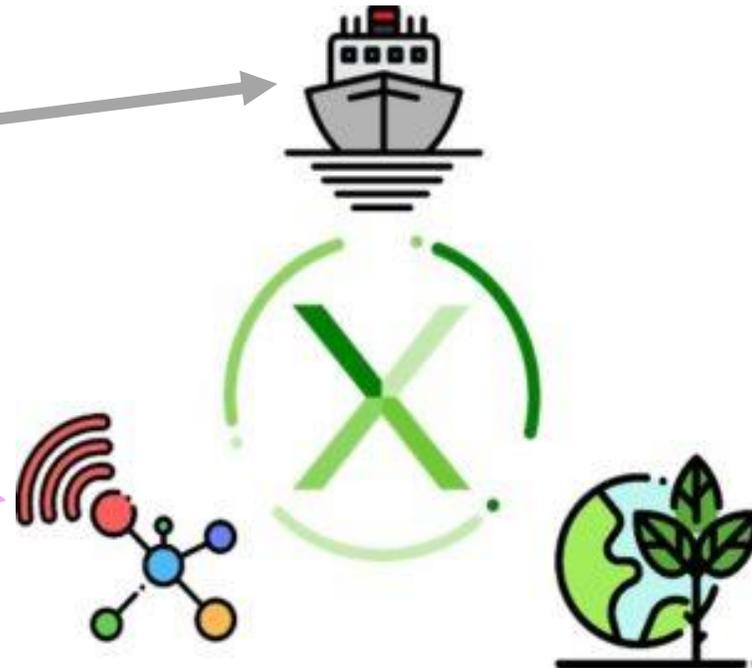


PIXEL and DtF alignment

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**

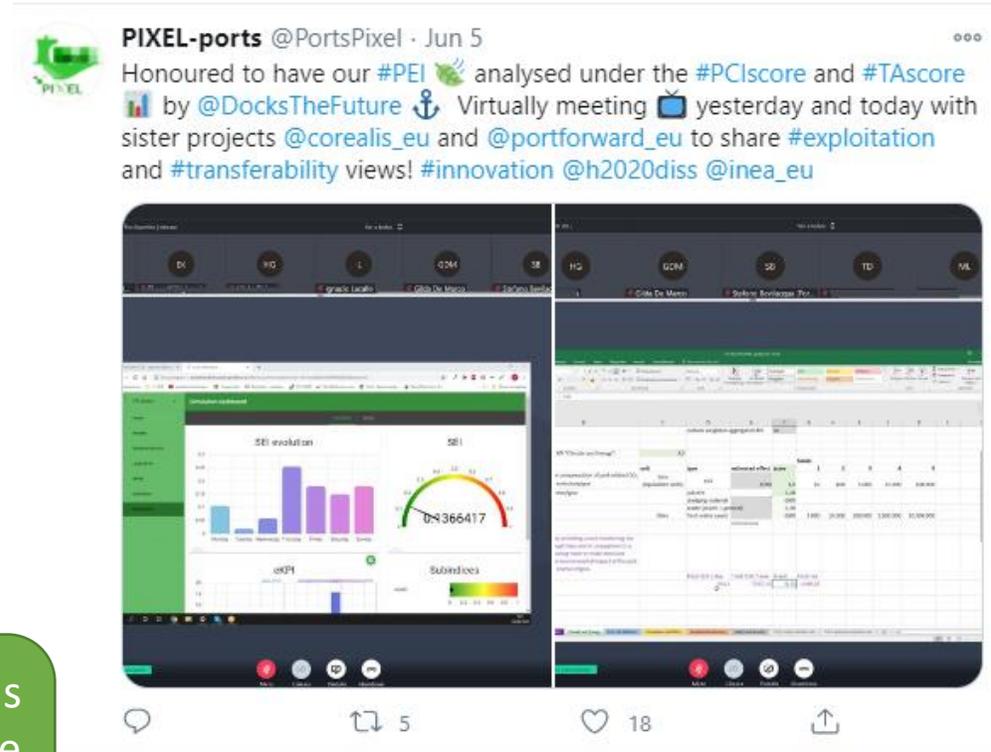


Hands-on work we did together

- **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.



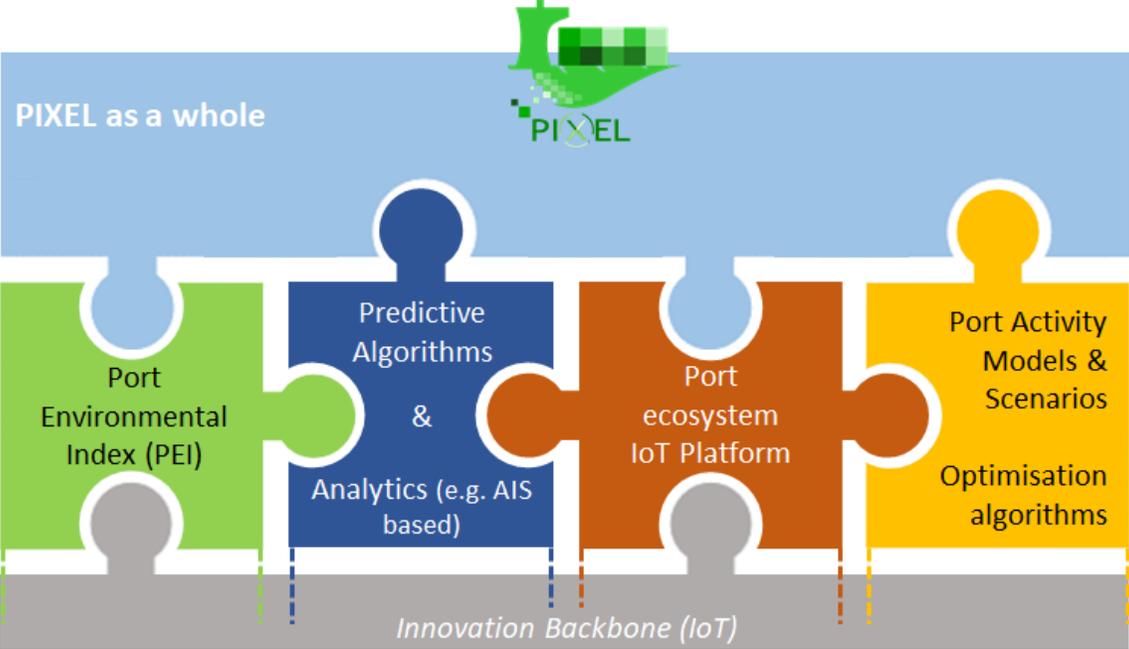
PIXEL's PEI was showcased as the example for using the tools



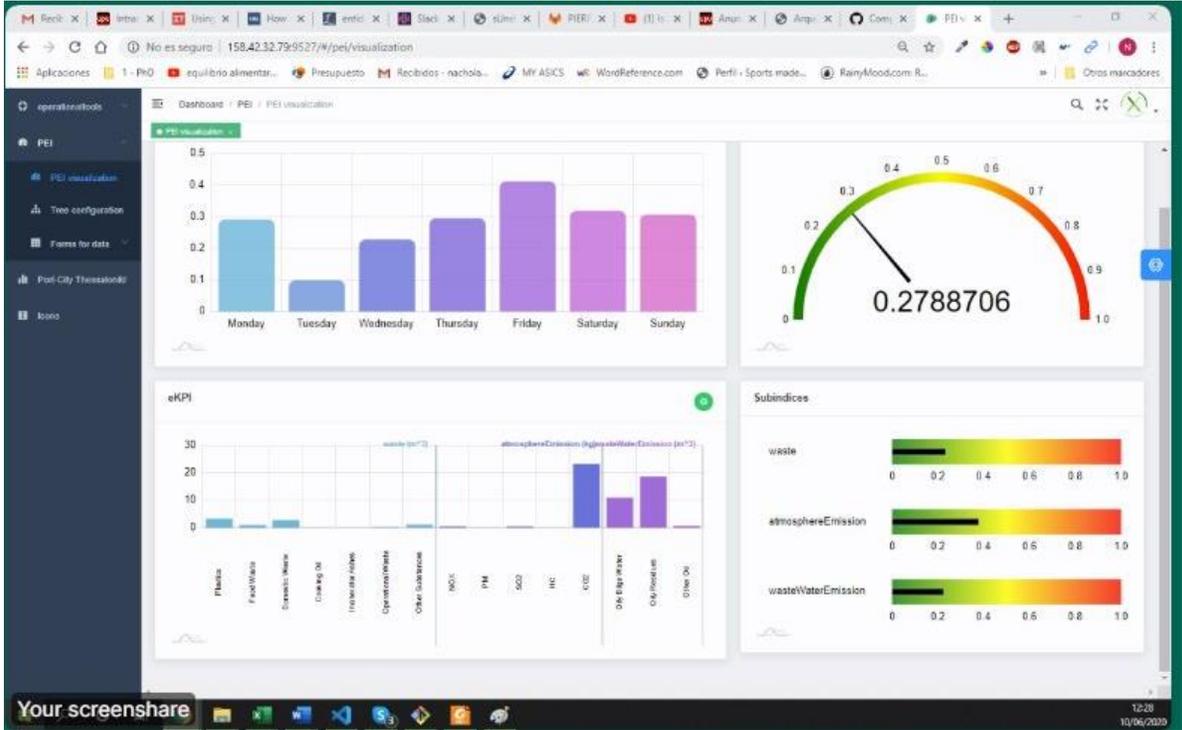
Hands-on work we did together

| PIXEL in general | | Multi-port participation (4 European ports in the H2020 RIA project) - ALL of them implementing the PEI Living Lab | | | Mapping projects and initiatives with WPSP the 5 Focus Areas and 35 Strategic Objectives (includes the 10 AIVP Agenda 2030 Goals (DtF D2.2 - Clustered List of Projects & Initiatives) | | | DtF related UN SDG or Sub-goal covered | Measures as Aggregated KPIs covered | I-score | TA-score | PCI-score | TA-index | DSS-index | | | |
|--|------------|--|--|--|--|--|-------|--|-------------------------------------|---------|----------|-----------|-----------|-----------|----|--|--|
| 5 WPSP Focus Areas | 17 UN SDGs | 10 AIVP Agenda 2030 Goals (possible secondary goals may apply to WPSP & DtF) | Topics (DtF Strategic Objectives) (according to the 11.6.2: List of Topics DtF WP.1) | high-level Strategic Objectives related to UN SDGs or sub-goal (according to the 11.6.3: List of Tactical objectives DtF WP.1) | Measures as Aggregated Performance Indicators (Targeted KPI type) (according to the 11.6.4: List of Measures DtF WP.1) +quantitative UoM | | | | | | | | | | | | |
| SUSTAINABILITY Climate and Energy Combat Global Warming, Combat Climate Change, Circular Economy (save on natural resources, and approach, ...) | 6 UN SDGs | 7 - Affordable and clean energy | 02 Energy Transition & | UN SDGs not covered by DtF under this TOPIC (possible coverage under other DtF Topics) | | | SDG13 | - | | | 4 | | 0 | | | | |
| | | 8 - Decent work and economic growth | 05 Investing in Human Capital | | | | | | | | | | | | | | |
| | | 9 - Industry innovation and infrastructure | 08 Port City | | | | | | | | | | | | | | |
| | | 11 - Sustainable cities and communities | | | | | | | | | | | | | | | |
| | | 12 - Responsible consumption and production | 09 Health & Life Quality | To have transition toward circular economy | SDG 12: Save natural resources | dredging material: reduced dredging activity & reused dredging material (hazardous/non-hazardous) waste (plastic + general); reduction & reuse (recycling/thermal) in tank water: fresh water saved (litres) | SDG12 | port - PEI | | | 4 | 3,28 | -1 | | | | |
| | | 12 - Climate action | 011 Climate Change Adaptation | To improve the energy efficiency at port | SDG 13 Combat global warming | reduction of port-related CO2-equivalent emissions (ton) | SDG13 | 1090 - one port PEI | | | | | 2 - 5 PEI | | | | |
| | | | | To transit from fossil-based economy to bio-based economy | | | | | | | | 5 PEI | | | | | |
| | | | | To increase the portion of renewable energy in port | | | | | | | | 4 - 5 PEI | 3 | | | | |
| | | | | To promote green infrastructure at port | | | | | | | | 5 PEI | | | | | |
| | | | | To provide systematic incentives for cleanliness | | | | | | | | high | 1 - 5 PEI | | -1 | | |
| | | To deploy alternative transport fuels | | | | | | | | | | | | | | | |
| UN SDGs not covered by DtF under this TOPIC (possible coverage under other DtF Topics) | | | | | | | | | | | | | | | | | |
| UN SDGs not covered by DtF under this TOPIC (possible coverage under other DtF Topics) | | | | | | | | | | | | | | | | | |

PIXEL innovative proposal



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 203

| Number and name measure | Number of assessments |
|---|-----------------------|
| MS380: Information sharing platforms | 20 |
| MS220: Environmental compensation measures | 17 |
| MS20: Alternative fuels | 14 |
| MS440: LNG bunkering, supply and distribution chain | 12 |
| MS90: Collaborative network of ICT platforms | 12 |
| MS860: Training schemes | 11 |
| MS570: Port Collaborative Decision Making | 10 |
| MS270: Funding and financing | 10 |
| MS160: Developing governance structure | 9 |
| MS540: Optimise and digitalise the logistic chain | 9 |

Table 27: Top 10 measures

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...

BREAKING NEWS

By PIXEL Dissemination Team

PIXEL webinar series Kick-Off

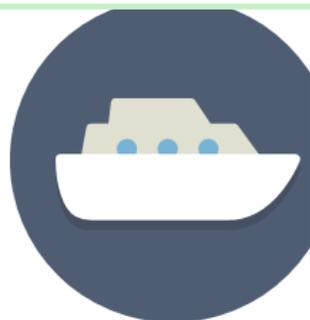
FREE WEBINAR

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

Wednesday, January 13th, 2021

REGISTER IN: WWW.PIXEL-PORTS.EU

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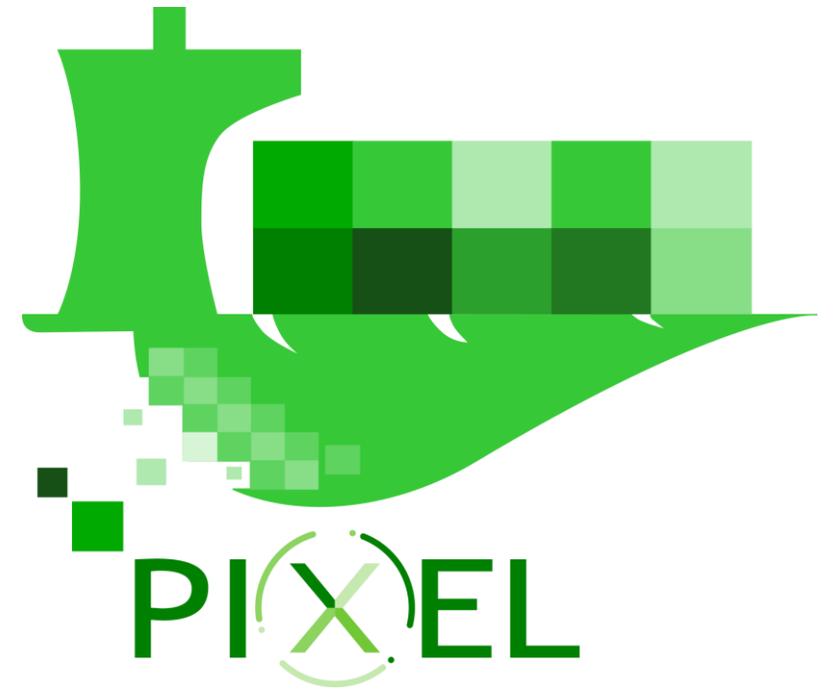
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Thank You + Questions?



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