

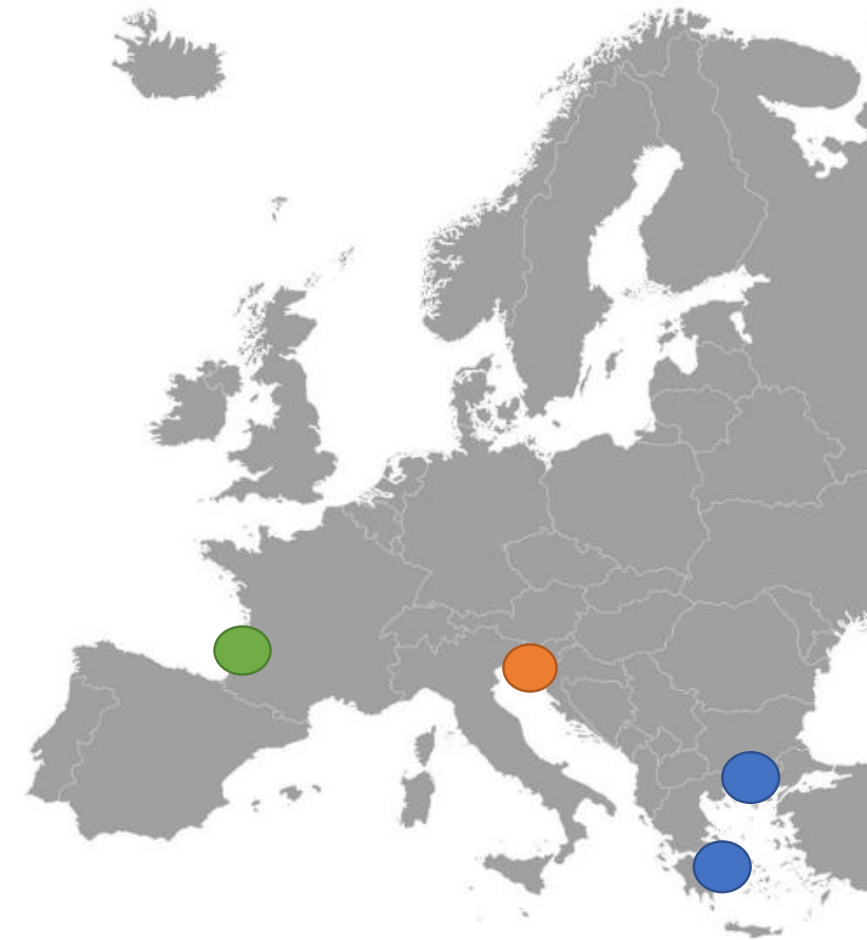
**PIXEL - Port IoT for Environmental Leverage**

# Green Energy strategy with IoT in GPMB trough PIXEL

Ignacio Lacalle

UPV – Coordination Team

# PIXEL in a nutshell



*“Where the IoT meets the Port of the Future”*



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 N°769355



# PIXEL actions towards GPMB progress

Existing  
sensors  
connecte  
d

Open IoT  
Platform

Integratio  
n with  
PCS

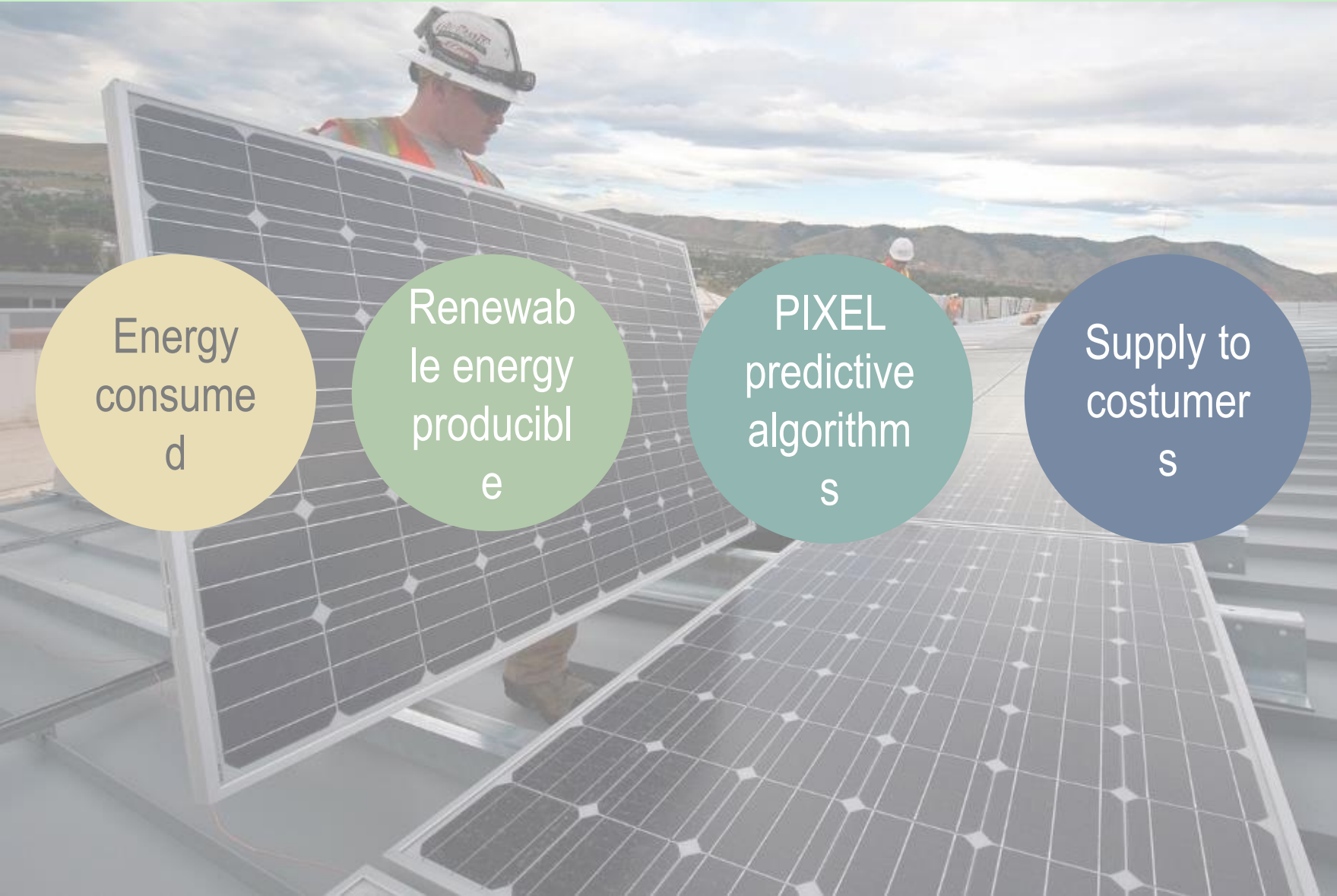
Measure  
GreenPo  
licy  
*PEI*

**ViGiE**  
SYSTÈME D'INFORMATION  
PORTUAIRE





# Energy intelligence & efficiency for **GPMB**



Energy  
consume  
d

Renewab  
le energy  
producibl  
e

PIXEL  
predictive  
algorithm  
s

Supply to  
costumer  
s

Ship  
calls

Historic  
data

Current  
values



Commercial profit

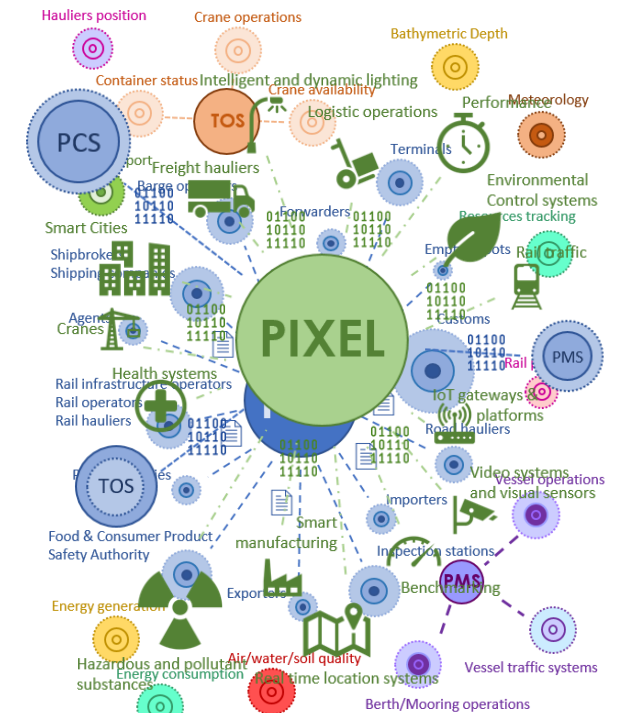
# PIXEL technology enhancing PCS and Port Single Window

Lack of interoperability

PSW to offer centralized management

PIXEL as an integrator

Democratization and awareness



# Other **PIXEL** potential benefits for **Atlantic Corridor Ports**



**Reduction** of environmental impact of port activities

**Reduction** of operational and infrastructural costs



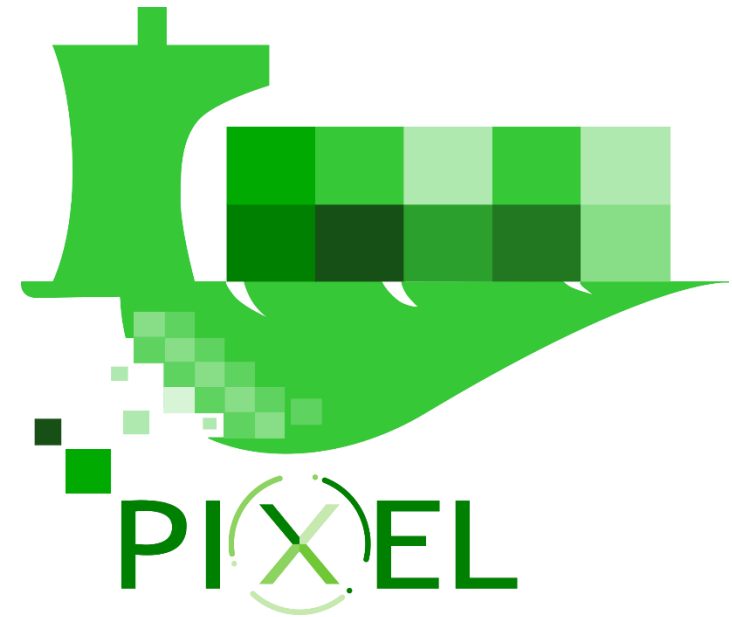
**Improvement** of logistics efficiency in multimodal hubs

**Better Port-City integration**



**Less dependency** on different technology providers when **attempting digitalisation**

# Thank You



Stay tuned at :



<https://pixel-ports.eu>



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