



# NeSSIE

— North Sea Solutions for  
Innovation in Corrosion for Energy

# North Sea Solutions in Corrosion for Energy

## Presentation



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# What is NeSSIE?



NeSSIE is an **EU-funded project** identifying **three large-scale demonstration projects** and **investment sources** in the field of **corrosion and new materials**

NeSSIE draws on North Sea expertise in harsh, subsea environments to develop solutions for the marine renewables industries

NeSSIE offers **technology transfer opportunities** for traditional maritime industries into **new and emerging sectors**

NeSSIE will accelerate deployment and cost reductions in the wave, tidal and the offshore wind sectors

NeSSIE will impact the North Sea Basin economy significantly – developing global solutions to deliver growth and high value-added jobs for the **North Sea, Europe and beyond**

NeSSIE stems from cooperation established through the **Vanguard Initiative ADMA Energy Pilot**



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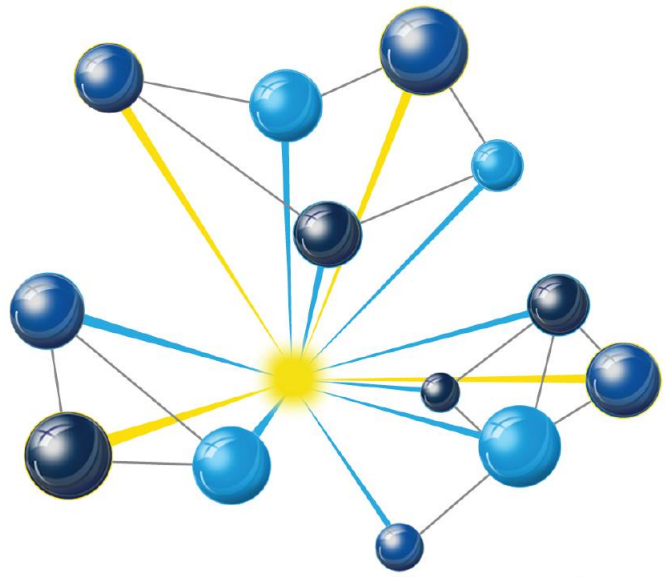
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# Project Partners



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# VANGUARD INITIATIVE

New growth through smart specialisation

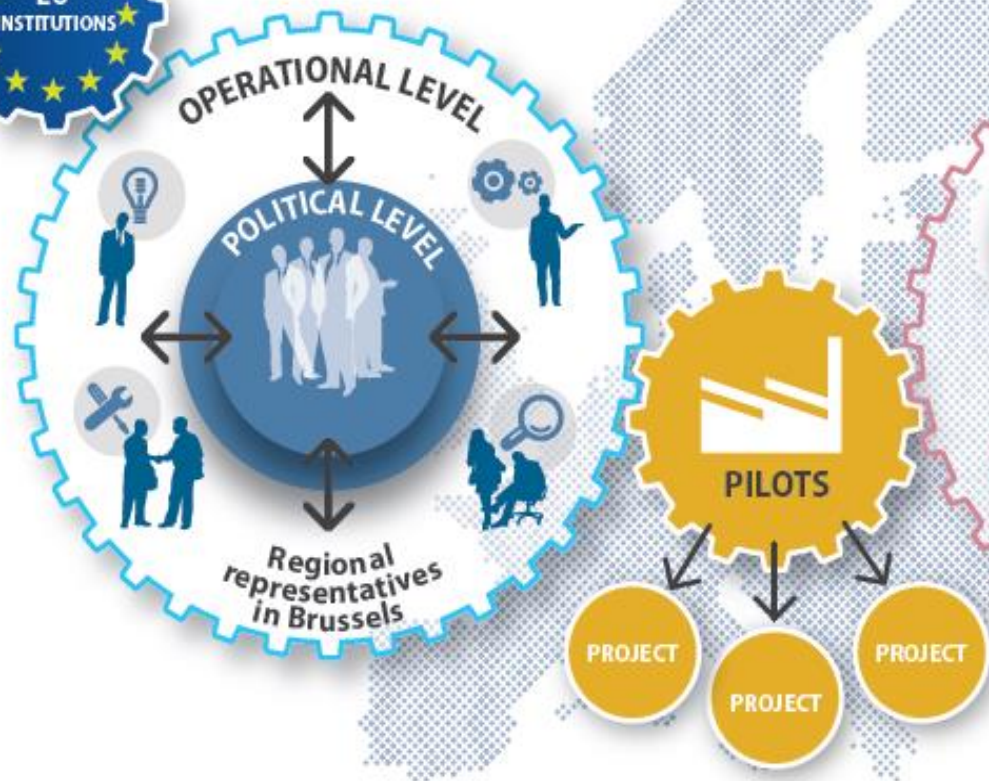
*A coalition of European regions committed to boosting the **growth of their companies**, based on technological development, inter-regional cooperation, bottom-up entrepreneurial innovation and industrial leadership*



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*Smart Specialisation (S3)*

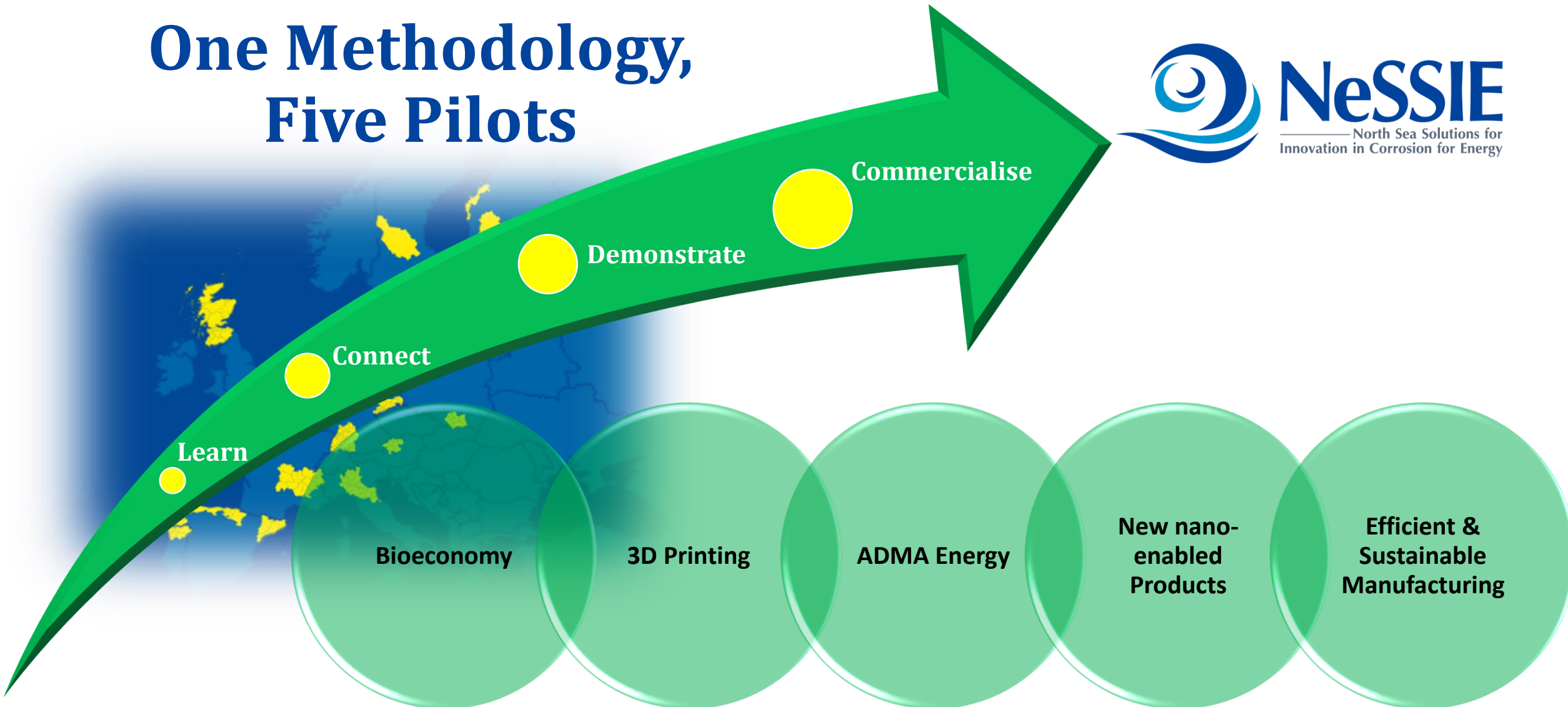
*Integrating European value chains*

*Improving knowledge exchange*

*Fostering industry-led, inter-regional collaboration*

*Generating competitive economies of scale*

# One Methodology, Five Pilots



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# The ADMA Energy Pilot

EU becomes **global leader** in robust, high integrity equipment and components for blue growth

13 VI Regions – led by **Scotland** and the **Basque Country**

Connecting supply chains across all **marine sectors**

Offshore and unconventional **oil & gas**, **marine renewables** and **deep sea mining**



# ADMA Energy Demonstration Cases



**Industry-led demonstration**

**New opportunities for SMEs**

**Opening Europe-wide value chains**

**Old challenges, new solutions**



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# NeSSIE: why corrosion?



**A costly fact of life in marine renewables and offshore energy sectors**

**Surface deterioration of metal components can lead to sudden failure**

**Safety risk**

**Impact on operation, maintenance and performance**



# What NeSSIE will deliver

*NeSSIE will scope **three investment-ready demonstration projects** led by key industry players, which will deliver high-value manufacturing opportunities to the North Sea and wider European supply chains*

## Demonstration roadmap

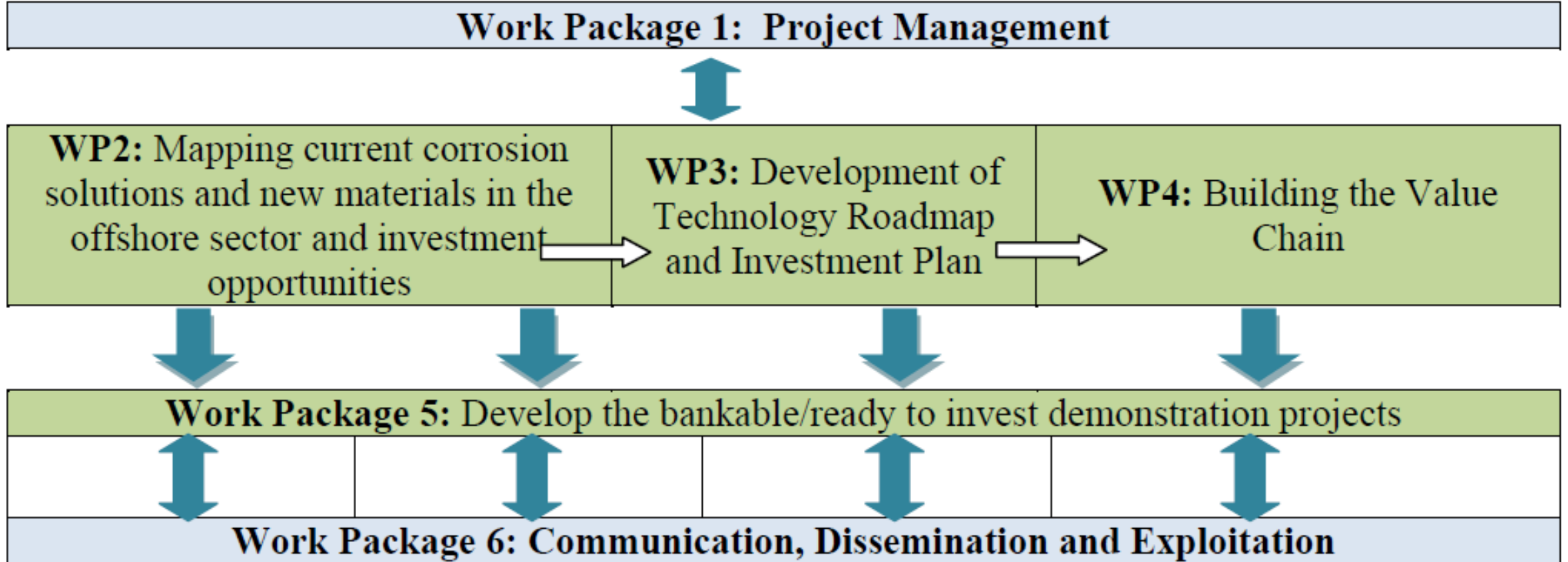
- Maps corrosion solutions in existing sectors
- Shows a pathway to address corrosion issues in wave, tidal and offshore wind
- Prioritises major challenges to commercialising the marine renewables sector
- Establishes a baseline for other sectors and technology challenges

## Impact

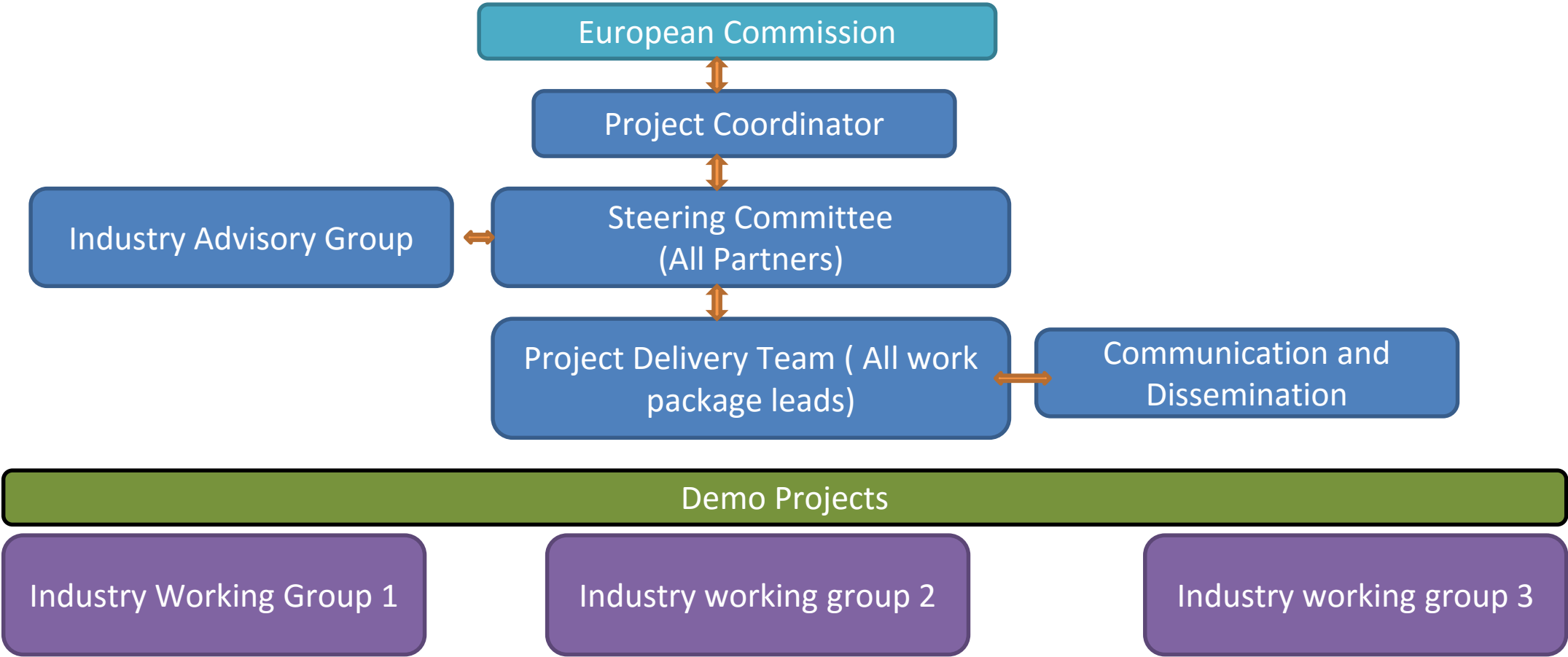
- Greater collaboration within the supply chain – between developers and Original Equipment Manufacturers (OEMs)
- Genuinely market-focused demonstration projects
- New opportunities for SMEs to create jobs and grow in the Blue Economy



# Project structure



# Delivery Structure





# Industry Groups

Key companies, project partners, academia and supply chain companies from across the regions

Engaged in the development of the roadmap

Active in the development of the three demonstration projects

Industry engagement will be overseen and managed by the project steering committee



# Who gets involved?

Offshore renewables project developers  
**wave | tidal | offshore wind**

**Ambitious supply companies** in corrosion and new  
materials solutions for the offshore environment

Supply chain companies from **traditional marine sectors**  
looking to develop new and global market opportunities



