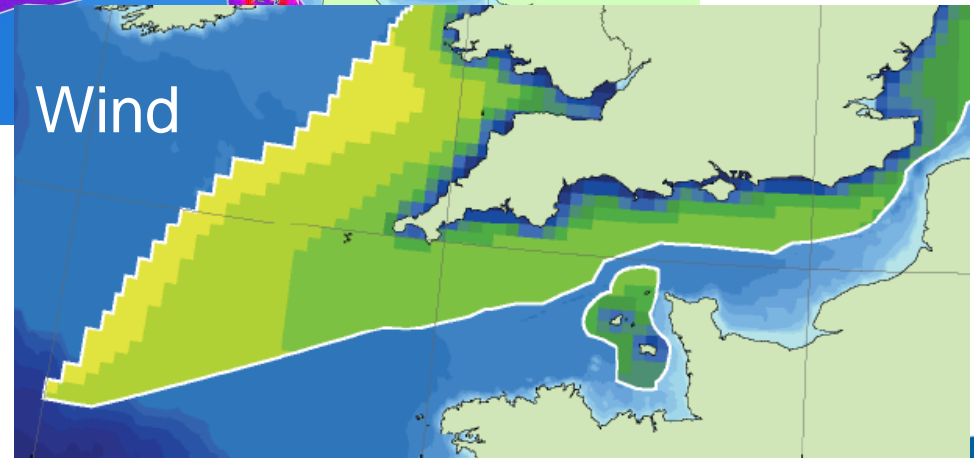
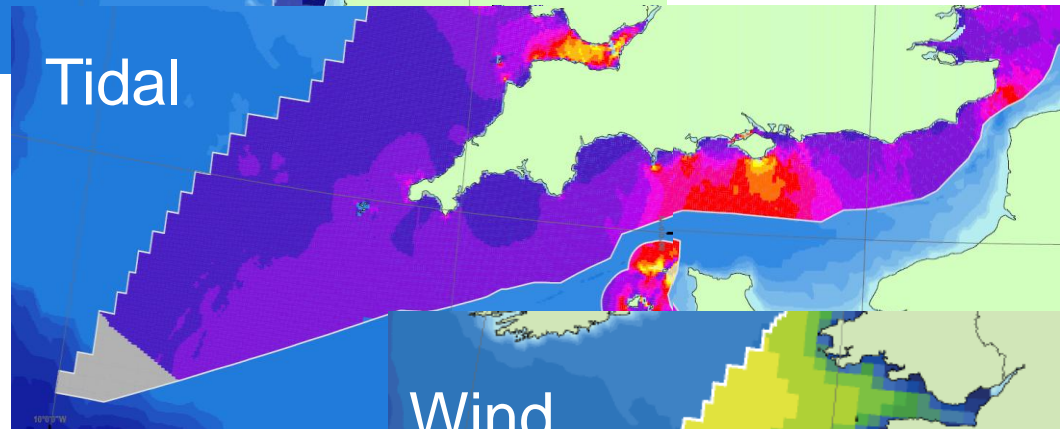
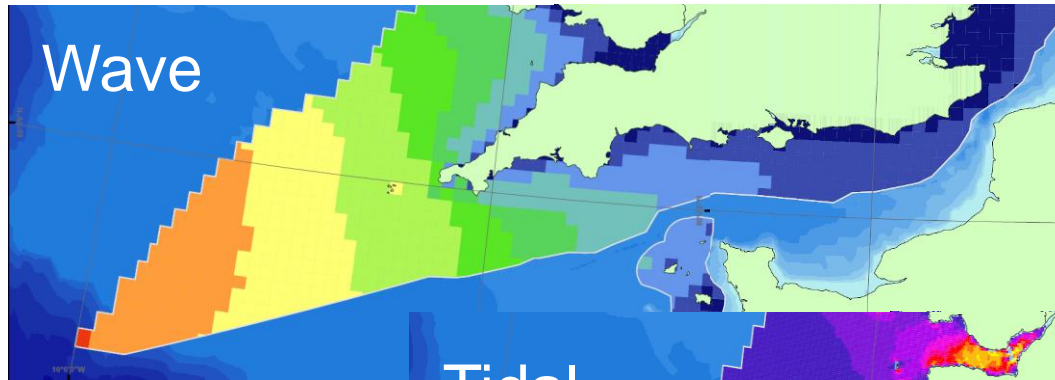


Marine Energy Supply Chain Model

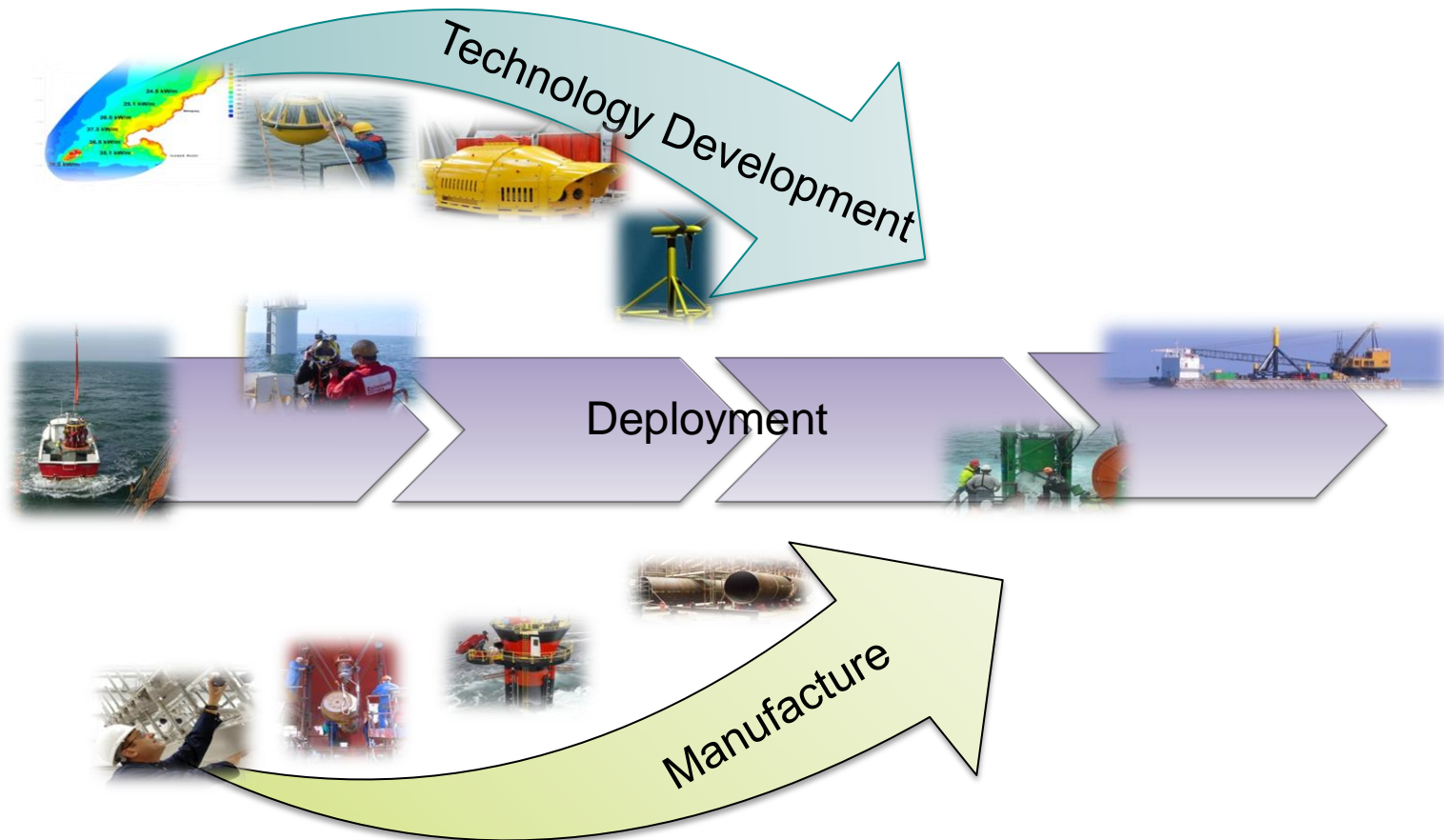
Nick Harrington, Head of Marine Energy

Resources

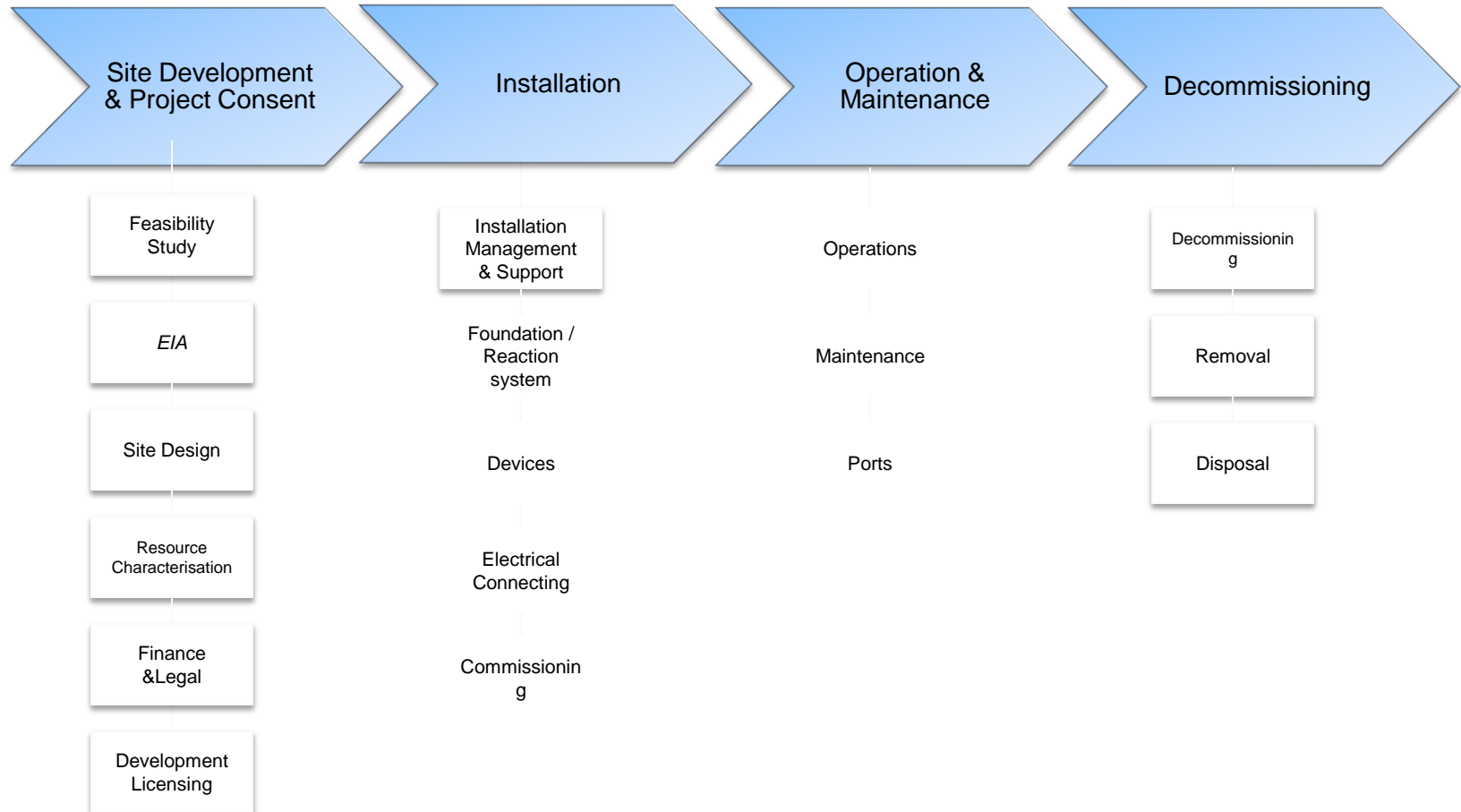


Source: Atlas of UK Marine Renewable Energy Resources (March 2008)

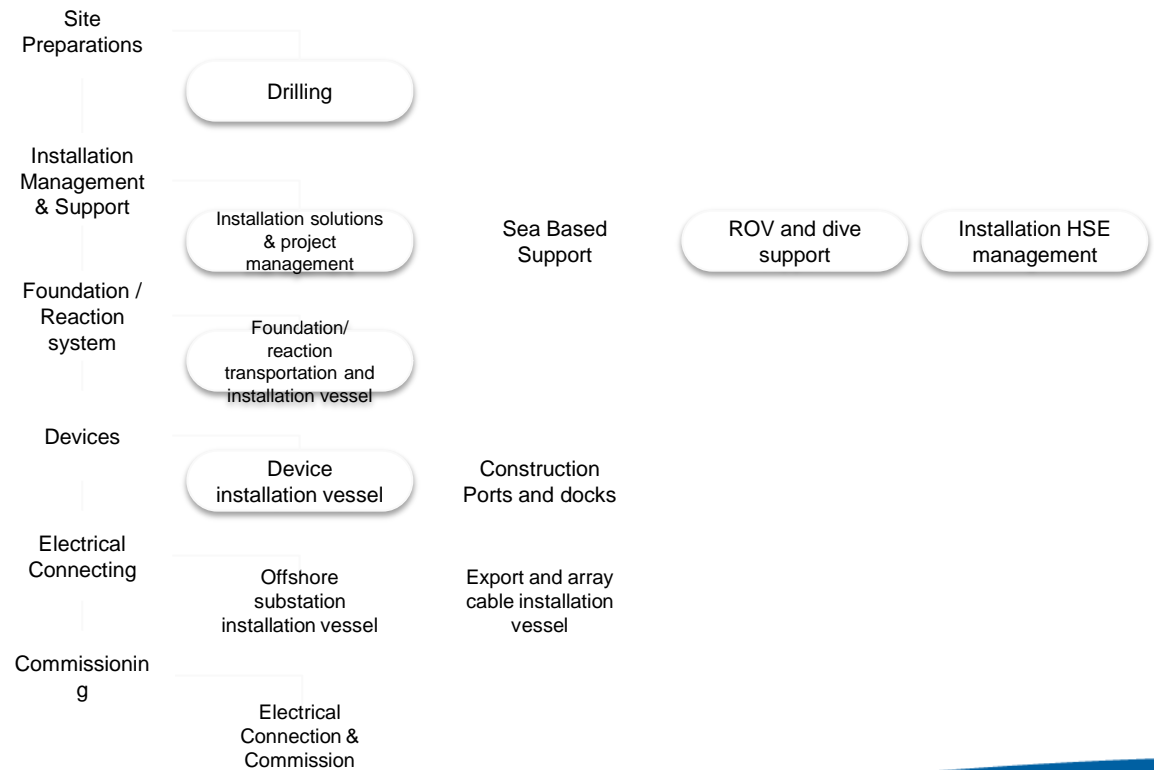
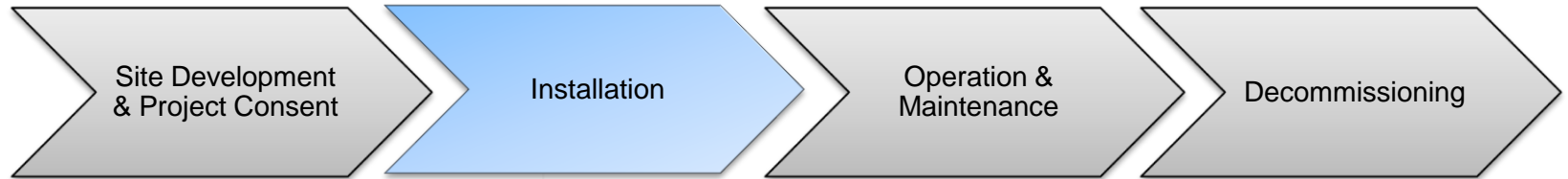
Marine Energy Model



Deployment



Deployment



Manufacture

Hydrodynamic Subsystem

Blades/
hydrofoils

Blade root or
equiv.

Hydrodynamic
subsystem bearings

Flow
Augmenter

Oscillator

Hydraulic
attenuator

Point
Absorber

Submerged
pressure
differential

Flexible
Structure

Reaction Subsystem

Foundations

Sacrificial
Anode

Transition
Piece

Foundation
Structure

Moorings

Floating
structure

Power Take off Subsystem

Gear Box

Bearings

Generator

Power take off
support
structure

Power
Transmission

Electrical
System

Control Subsystem

Condition
Monitoring
system

Pitch System

Yaw system
and bearings

Device Structure Subsystem

Small
engineering
parts

Fabricated
Components

Fasteners

Lighting

Personnel
Access

Auxiliary
Systems

Safety
Equipment

Balance of Plant

Offshore
substation

Offshore
substation electrical
subsystem

Onshore
substation

Onshore
substation electrical
subsystem

Export &
array cables

Cable Protection



Marine Energy Supply Chain Model

- 3 main threads:
- Technology Development
 - Commercial Deployment
 - Manufacturing

Main Activities

Core Activities

Sub Activities

Information

- Value
- Skills
- Assets
- Capabilities
- Type of Company

Potential Uses of Supply Chain Model

Economic / Value Analysis

Skills Requirement Analysis

Asset Register / Requirements

Capability/ Gap Analysis

Company Database

- Company name
- Address
- Contact Details
- Website
- Type of company



Further Information

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Weblink to Supply Chain Directory:

<http://www.regensw.co.uk/directory>

