



WavEC
Offshore Renewables

WAVEC ANNUAL SEMINAR:
BLUE ECONOMY – OFFSHORE PLATFORMS AND OPPORTUNITIES

MUSEU DA ELECTRICIDADE, LISBON, 26/11/2012

ECONOMY & INDUSTRY

TEAM, SERVICES & PROJECTS OVERVIEW

Alex Raventos

ECONOMY & INDUSTRY

OUR MOTIVATION: CLOSING THE GAP FROM R&D TO MARKET

- Offshore renewables are rapidly moving towards commercialization
- Business strategies must follow an economic approach, focusing on industrialization, cost reduction, improvement of performance & reliability.
- To respond to this need, WavEC created its Economy & Industry department in 2011, although activity started in advance.
 - Team of professionals with engineering and economic backgrounds that offer consulting services and R&D support to our clients in industrial and economic areas
 - Already since 2011, we have rendered services to leading technology developers, utilities and public institutions and participate in several national and EU projects.

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SOME OF OUR KEY SERVICES

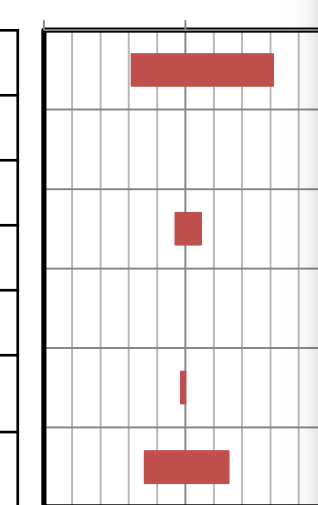
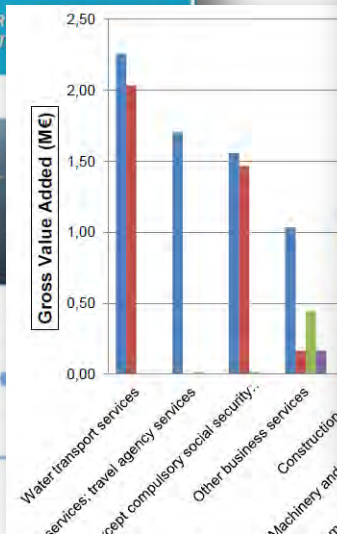
- Techno-economic analysis
- Market Research
- Supply-chain analysis
- Socio-economic Impact Assessment

built upon our

- Long experience in sector
- WavEC DATABASE
- Techno-economic models

Parameter		Unit
farm size	10	MW
no. rows	3	rows
dist. rows	20	d
configuration	star	-
no. WECs/array	10	u
transm. losses	13%	%

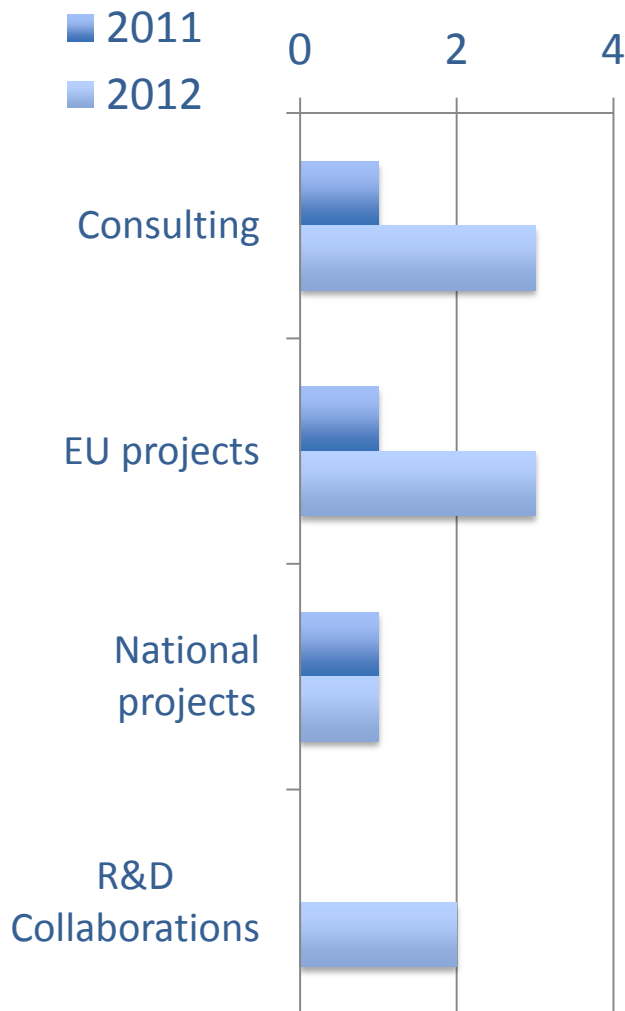
LCOE variation

■ Sensitivity analysis (±20% varia

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LIST MAIN PROJECTS & CLIENTS



4 (+3) Consulting services to leading companies

- Techno-economic analysis (Wedge, MPT + 2-3 underway)
- Market research (Oceantec, Gas Natural Fenosa + 1 underway)

4 (+2) EU projects

- Waveplam
- TROPOS
- SI-Ocean
- PoliWEC

2 National projects

- Roadmapping offshore renewables
- OTEO – Observatorio Tecnológico Energias Offshore

2 R&D collaborations underway with leading R&D centres

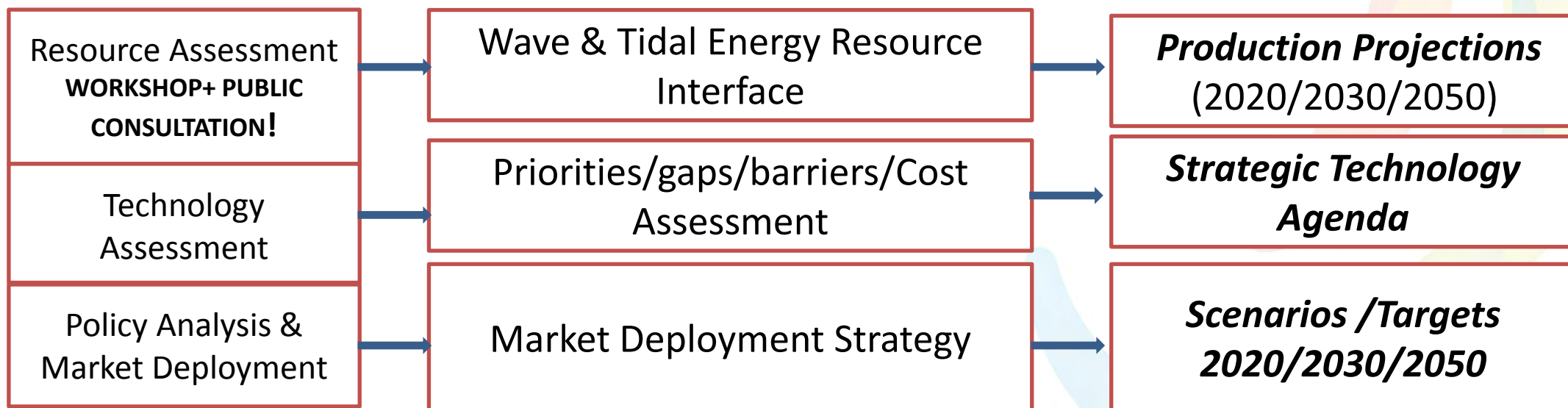
- Sandia, NREL, DOE, Tecnalia, HMRC, GH, Revision, etc.

SI OCEAN

STRATEGIC INITIATIVE FOR OCEAN ENERGY



THIS PROJECT SETS OUT TO DELIVER A COMMON STRATEGY FOR ENSURING MAXIMAL WAVE AND TIDAL INSTALLED CAPACITY BY 2020 – PAVING THE WAY FOR EXPONENTIAL MARKET GROWTH IN THE 2030 AND 2050 TIMEFRAME



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