

Toward Best Practices for Public Acceptability in Wave Energy

Issues Developers Need to Address

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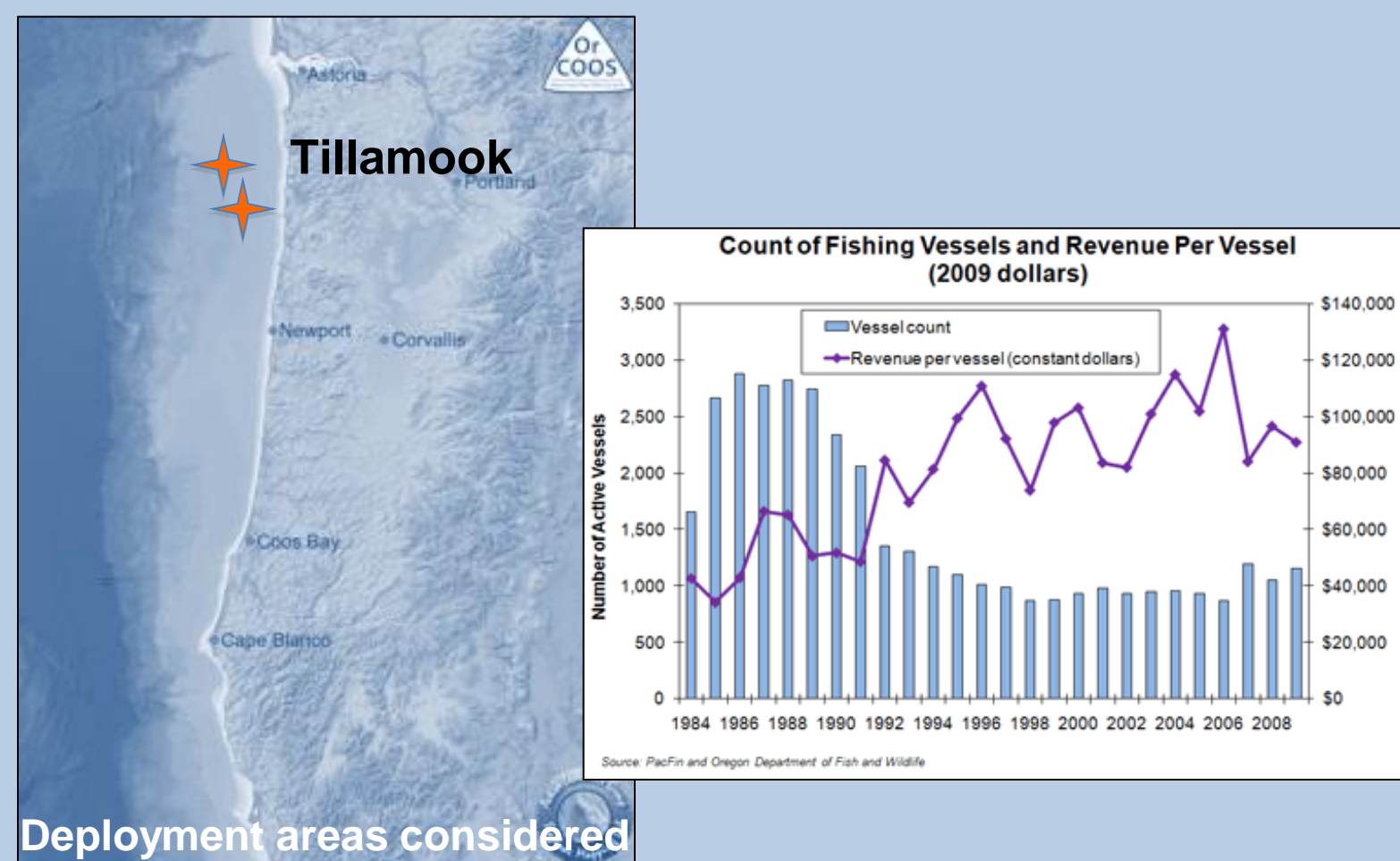
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Toward Best Practices for Public Acceptability in Wave Energy:

Issues Developers Need to Address



ISSUES TO ADDRESS	DESCRIPTION
CONFLICTS OF USE	<ul style="list-style-type: none"> •Commercial fishing •Recreational fishing & boating •Surfing
ENVIRONMENTAL IMPACT CONCERNS	<ul style="list-style-type: none"> •Bottom species habitat •Marine mammals & other species, including birds •Entanglement •Reproduction •Migration
NIMBY ISSUES	<ul style="list-style-type: none"> •Visual impact •Noise impact •Aesthetic impact
COMMUNITY WELL-BEING CONCERNS	<ul style="list-style-type: none"> •Employment •Income •Benefits / costs •Tourism



BEST PRACTICES

"Achieving a positive endorsement of wave energy projects among stakeholders without alienating key members of the local to the project communities."

3 CASE STUDIES

1 Columbia Energy Partners, Tillamook, Oregon

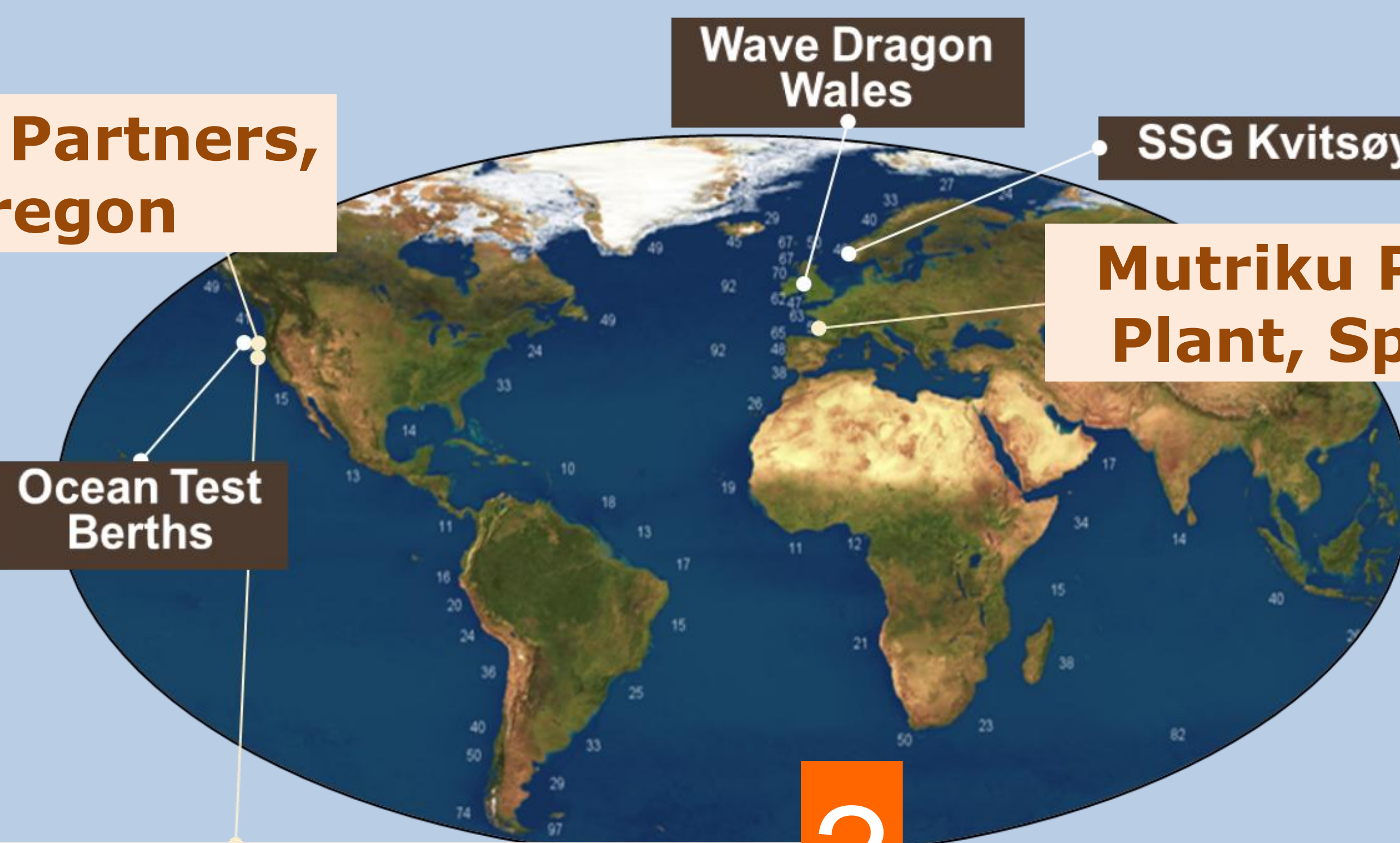
- County obtained preliminary permit
- Early meetings with TIDE & FACT members
- Fishermen objections: lost fishing & crabbing grounds; block transit routes & crowd North Coast waters with displaced fishermen; aesthetic concerns; concerns on heat of undersea cables reducing fish stocks.
- Agreement terminated

Wave Dragon Wales

SSG Kvitsøy

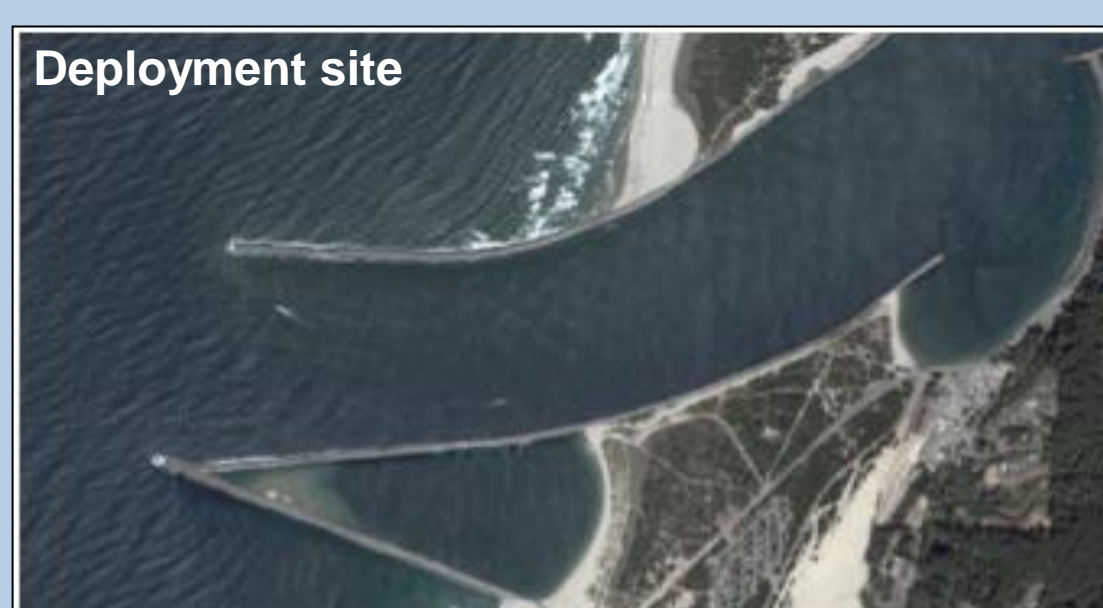
Mutriku Pilot Plant, Spain

- Integrating a wave energy plant into a breakwater
- Few engagement practices
- Major event after a storm producing loud noise that could be heard 3-10 km away
- Main opposition from the Green Party
- Fishermen support
- Increased tourism flow
- To be operational by mid Oct. 2010



2 Douglas County, Winchester Bay, Oregon

- Integrating a wave energy plant into an existing jetty
- Great surfing spot
- Public meetings held early on to identify info gaps and research areas
- Active participation from the surfing community
- Plans for license application in 3 years



LESSONS LEARNED

- Public involvement should be a combined effort by the developer and the local authorities
- Acceptance increases after construction
- Explore the issues in an open environment and identify them early; be flexible in communicating
- In the presence of strong fishermen opposition – reconsider

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