



ETIP Ocean webinar: Knowledge sharing and collaboration

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World leading test facilities



- £36m public funding
- Not-for-profit organisation
- Independent test laboratory



VISION

A globally successful marine energy industry as part of a clean energy system

MISSION

To **reduce time, cost and risk** in the development of marine energy technologies

Collaboration in action

- Hosted 31 devices from 11 countries
- 500,000 hours data collected
- 120 tidal developers engaged
- 260 wave developers engaged
- 75,000 guidelines distributed
- Worked with >75 universities
- 2,000 marine operations
- Hosted >3,000 visitors
- £284M GVA

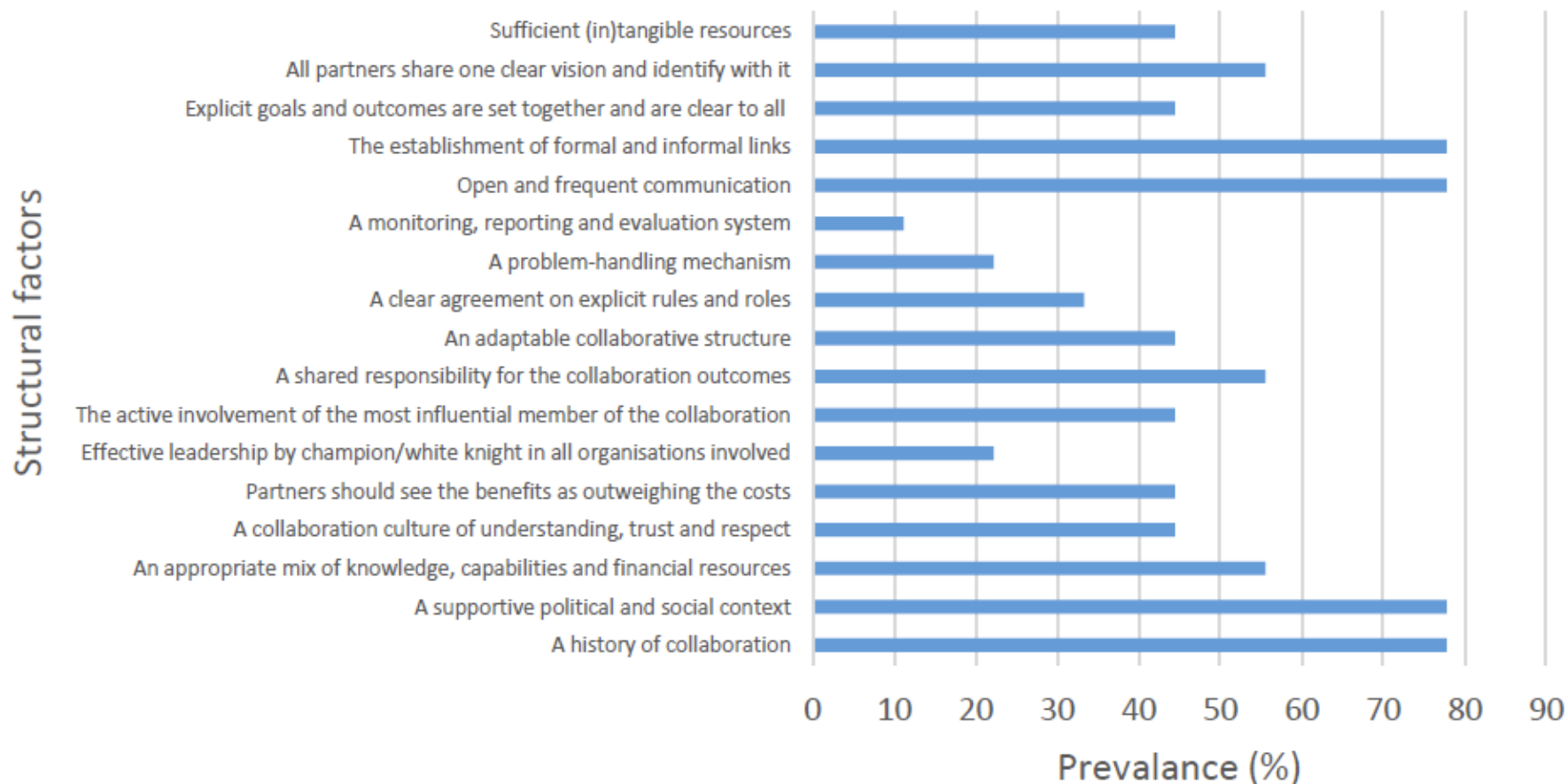


How should we establish collaborations?

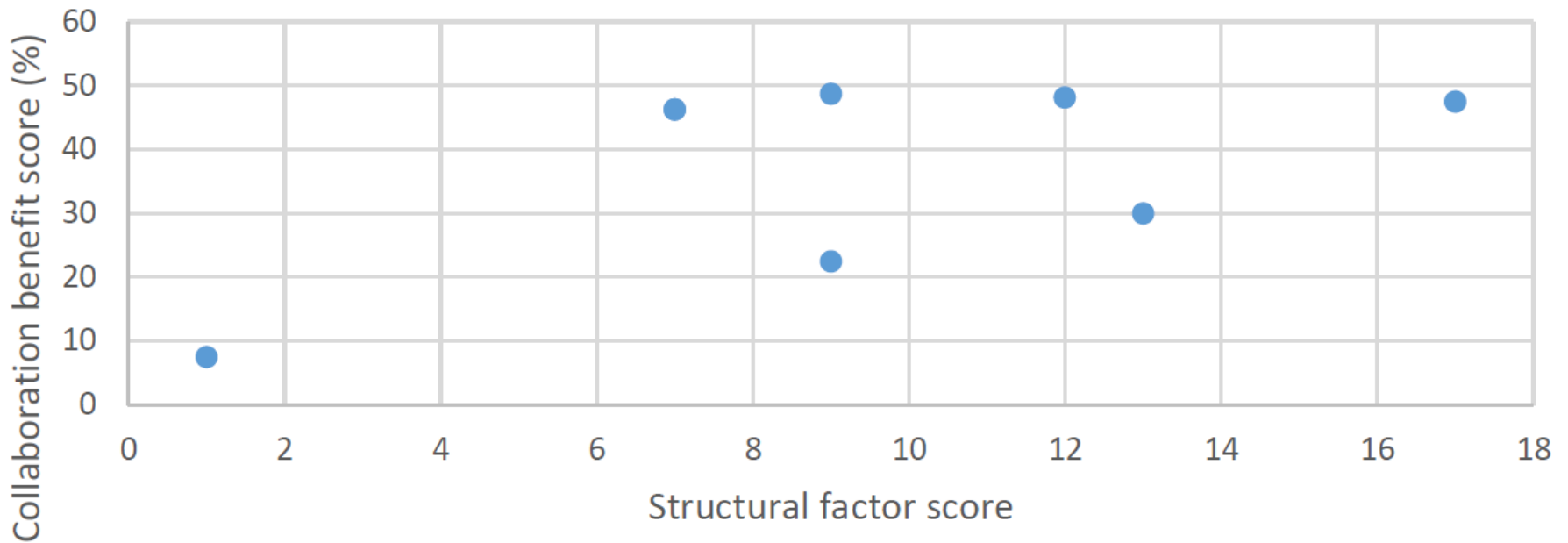
Environmental factors	A history of collaboration
	A supportive/facilitative political and social context
Partner factors	Appropriate mix of knowledge, capabilities and resources
	A culture of understanding, trust and respect
	Benefits perceived as outweighing costs
	Effective leadership by white knight in all organisations
	Active involvement of most influential member
Structural factors	A shared responsibility for collaboration outcomes
	An adaptable collaborative structure
	Clear agreement on explicit rules and roles
	A problem-handling mechanism
	A monitoring, reporting and evaluation system
Communication factors	Open and frequent communication
	The establishment of formal and informal links
Purpose factors	Explicit goals and outcomes are set together and are clear to all
	One clear collaborative vision
Resource factors	Sufficient resources



The use of structural factors in setting up collaborations



Results



What should we collaborate on?

Priority area description	Priority level
<p>●●● High priority ●● Medium priority ● Low priority</p>	
Deploy demonstration projects to generate learnings necessary for commercialisation	●●●
Validation of components and sub-systems	●●●
Increase yield with improved power take-off	●●●
Control systems to increase reliability and survivability	●●●
Reduce uncertainty, risk and cost of foundations, anchoring systems and cables	●●●
Building a case for investment, including LCoE analysis	●●●
Technology development through validated numerical models and small-scale prototypes	●●
Develop high quality seaworthy materials	●●
Condition monitoring systems to optimise operation and maintenance	●●
Access to ocean energy sites, design adapted processes and vessels	●●
Standards, health, safety and environment	●●
Develop manufacturing expertise for ocean energy	●



What has been tricky to collaborate on?



Boats

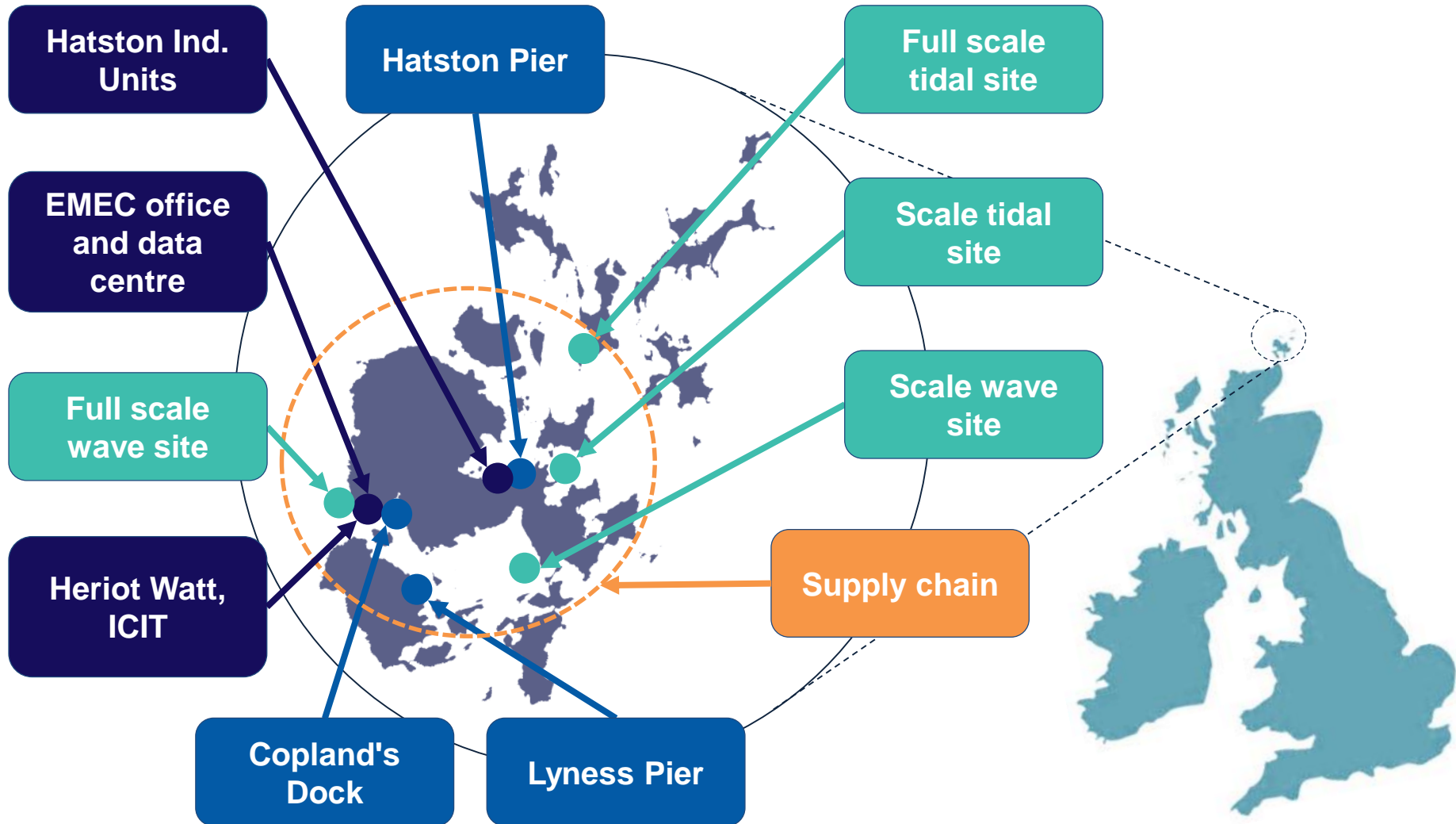


Data sharing



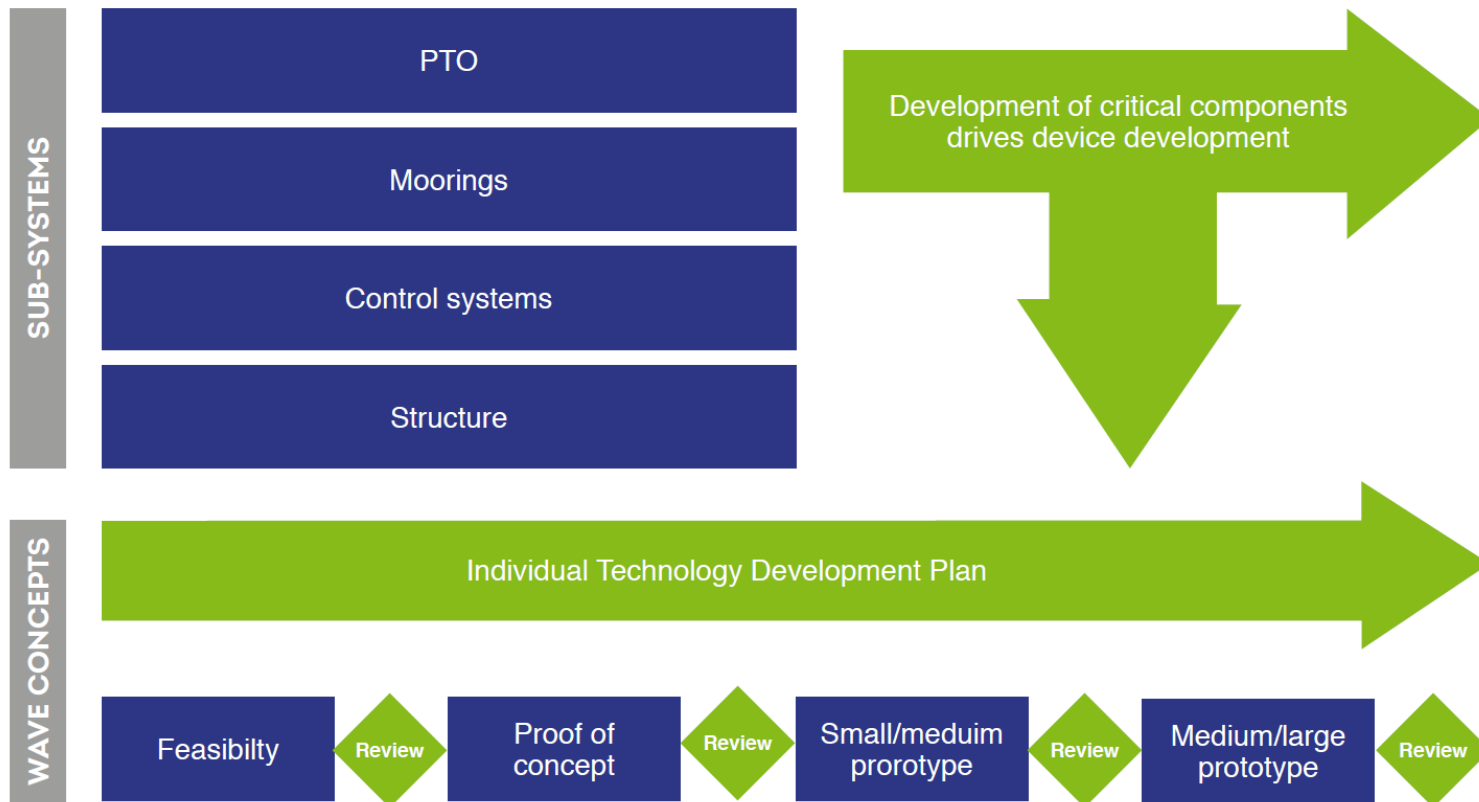
Funding

Case study: Orkney



Case Study: WES

SUBSYSTEM AND WEC DEVELOPMENT APPROACH



Case Study: International Test Sites



Conclusion

VISION

A globally successful marine energy industry



Success will be driven through collaboration

A GLOBAL CENTRE OF EXCELLENCE IN
MARINE ENERGY TESTING AND RESEARCH

EMEC 
THE EUROPEAN MARINE ENERGY CENTRE LTD



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