

PLUG INTO WAVE ENERGY



29.6.2018 / Petter Sund, VP Sales
ETIP seminar



WAVEROLLER

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COMPANY PRESENTATION

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FUTURE CONSIDERATION

OVERVIEW OF THE COMPANY

AW-ENERGY has developed and patented a ground-breaking concept and product design, known as WaveRoller®

Pipeline of commercial projects with actively ongoing development
in 6 countries on 4 continents

Independent third party **performance validation by DNV GL** and
ongoing **technology certification by Lloyd's Register**

Strong IPR: 44 worldwide patents, + 40 patent applications
currently in the process



Renown diver Mr. Rauno Koivusaari is the inventor of WaveRoller®.

Installation of first commercial 350kW unit



Construction of the first
WaveRoller unit



KNOWLEDGE SHARING EXAMPLE:

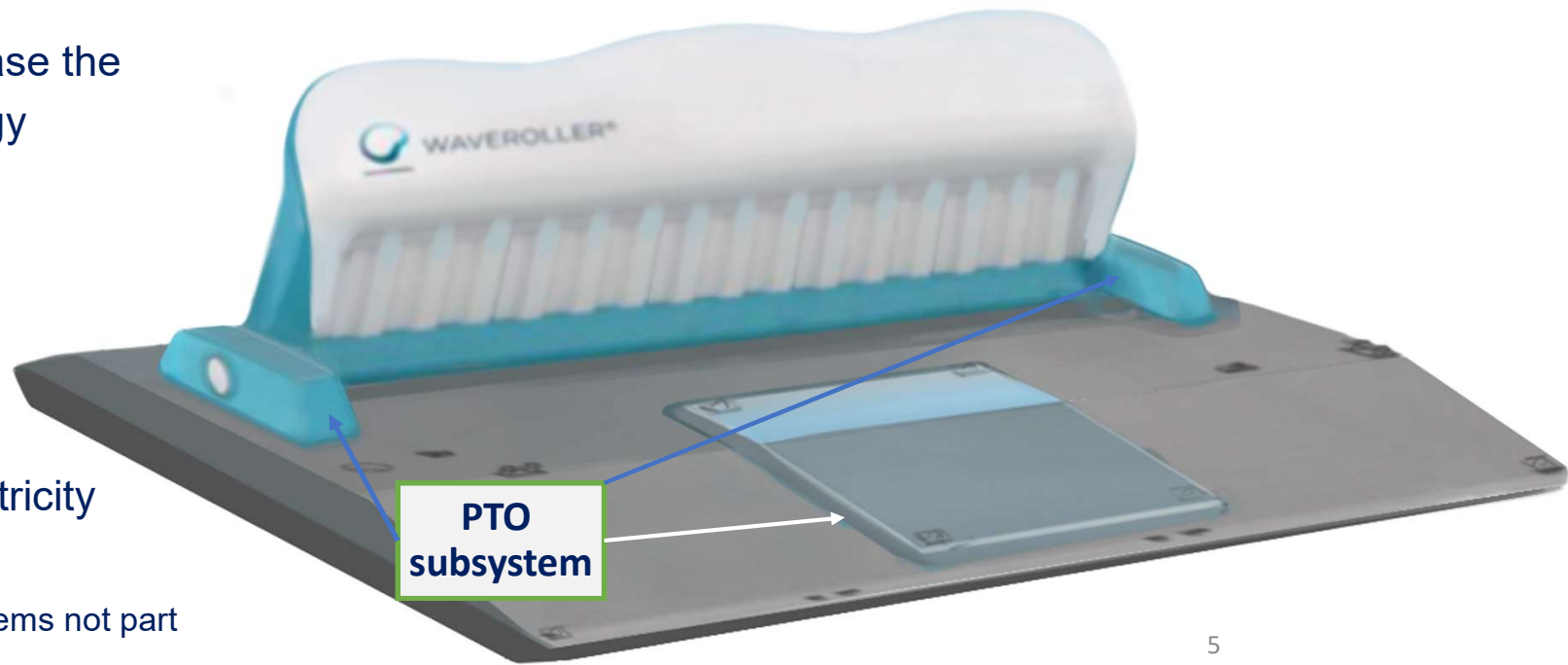
Megaroller project

PTO for 1 MW wave energy converter

- Built on knowledge of WaveRoller PTO
- Developed to decrease the LCOE of wave energy converters

MegaRoller PTO concept:

Rotational movement → Linear movement → Hydraulic oil flow →
Rotational movement → Electricity



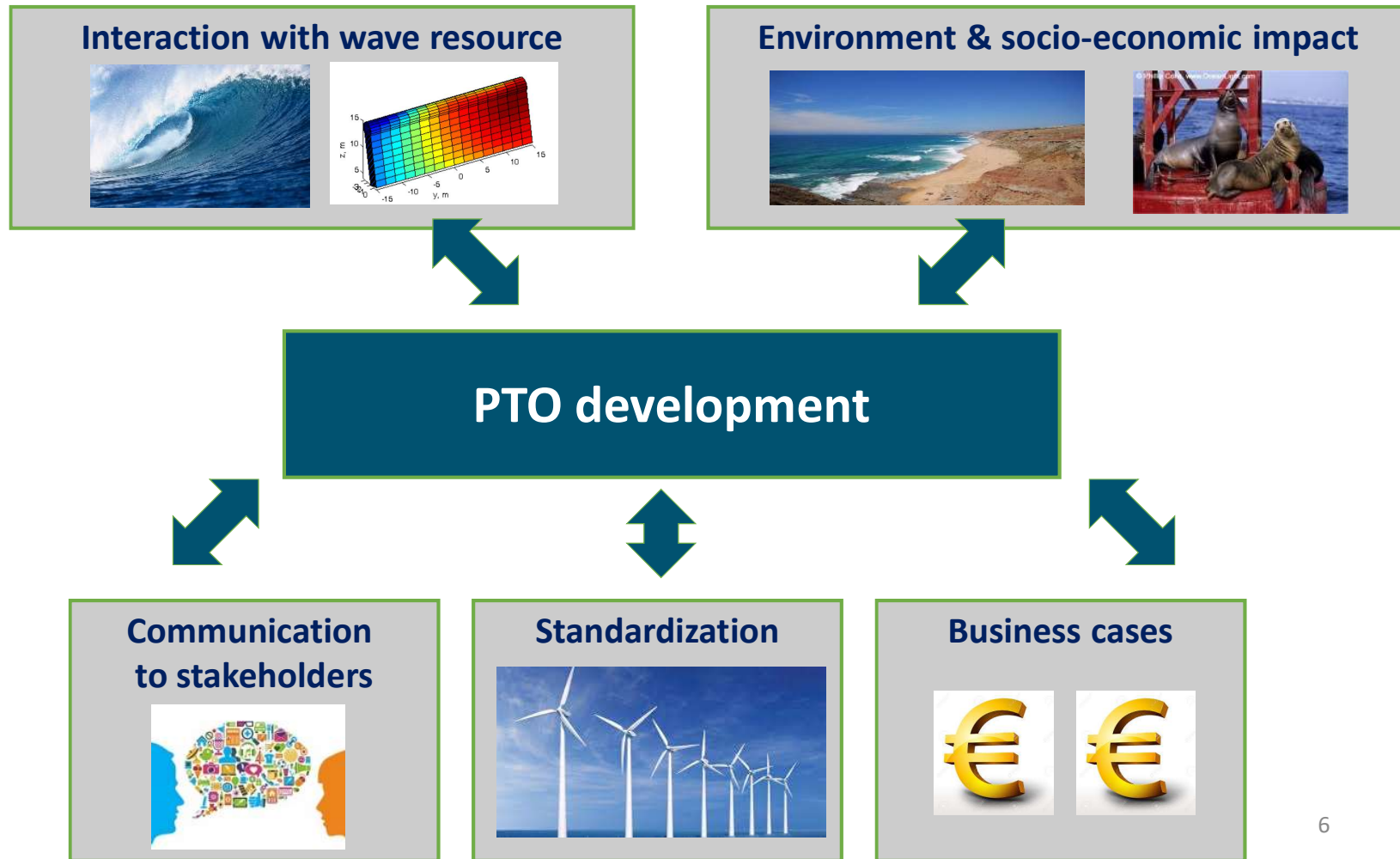
PTO=Power take-off

LCOE=Levelized cost of electricity

Note: panel and foundation subsystems not part of EU funded MegaRoller project

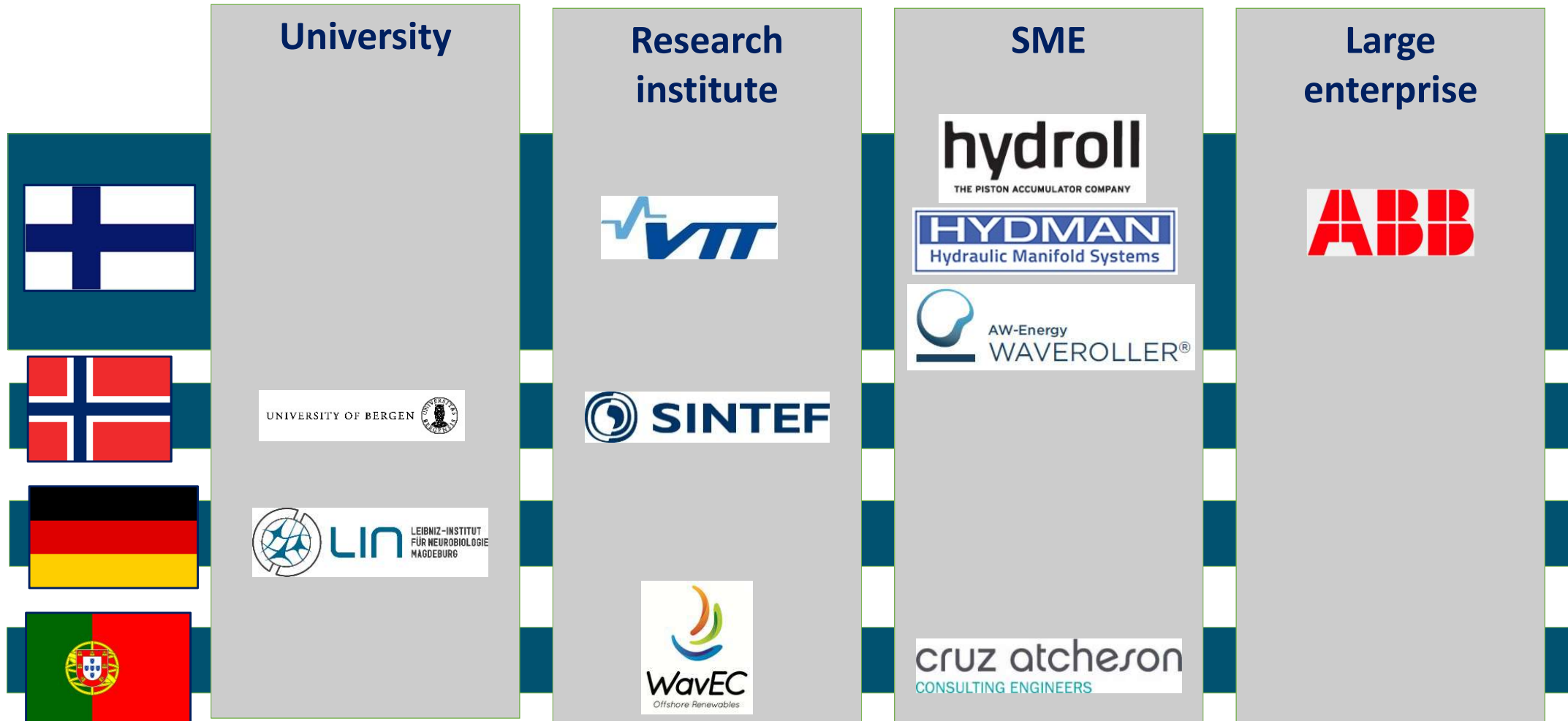
KNOWLEDGE SHARING EXAMPLE:

PTO development in interaction



KNOWLEDGE SHARING EXAMPLE:

European team



KNOWLEDGE SHARING EXAMPLE: CERTIFICATION

3rd party validated - Bankable Technology

Validation of power performance



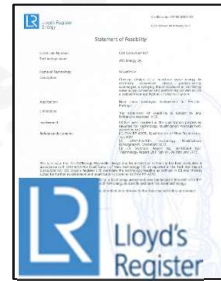
2/2014

Inspection after operation



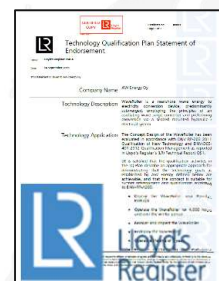
11/2014

Statement of Feasibility



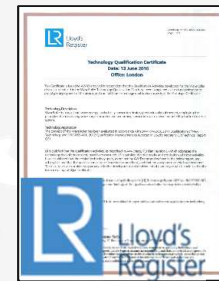
2/2015

Endorsement of TQ plan



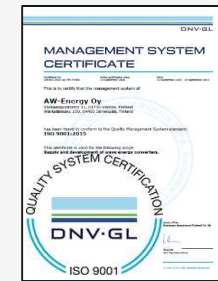
9/2015

Technology Qualification certificate



6/2016

ISO 9001



9/2016


Design Evaluation certificate

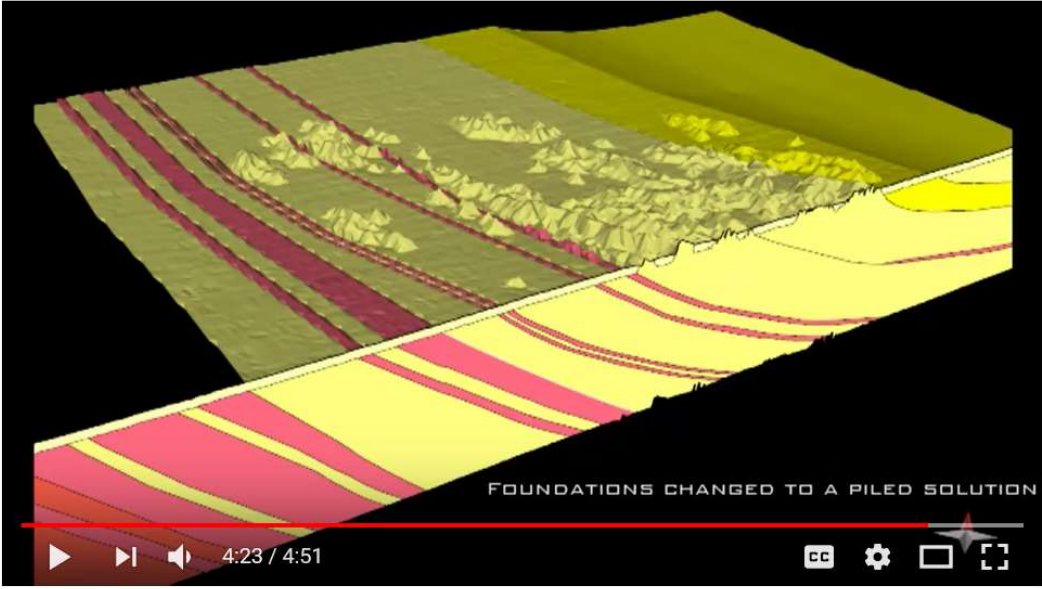


8/2017



KNOWLEDGE SHARING EXAMPLE: GROUND MODELLING

 waveroller



FOUNDATIONS CHANGED TO A PILED SOLUTION

4:23 / 4:51

CC

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<https://www.youtube.com/watch?v=s9grzNCdnRA>