

Goal of Deltares work

Turbine manufacturer has full understanding of its turbine and its production under ideal approach flow conditions (pipe flow).

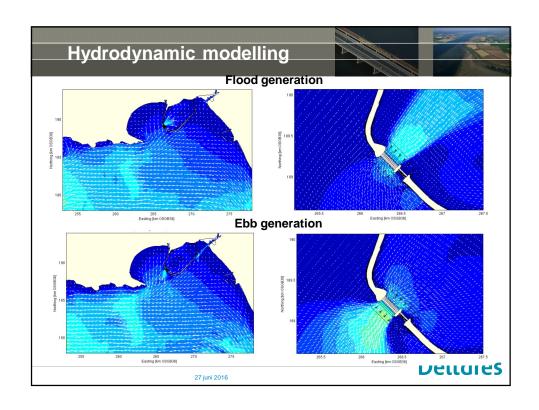
The objective of the hydraulic studies is to investigate the flow patterns towards the tidal turbines and sluice gate structures to optimize these flow patterns in order to obtain an optimal hydraulic design with minimal hydraulic losses.

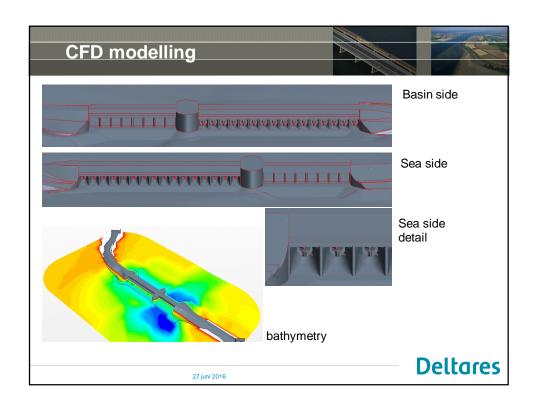
To do this, the project consist of several subtasks, which are linked to each other:

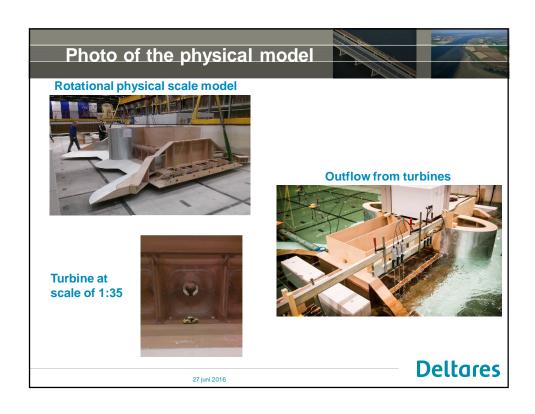
- Hydrodynamic modelling
- Scour assessment
- CFD modelling
- Physical modelling

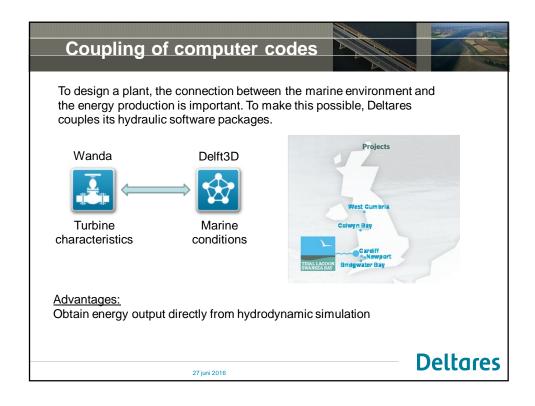
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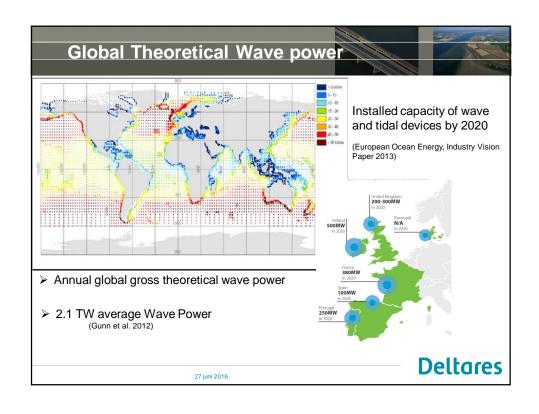


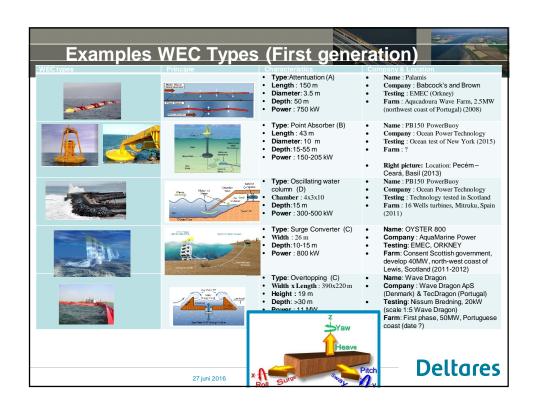


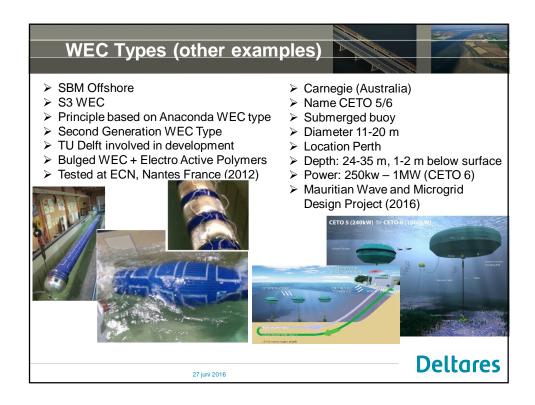


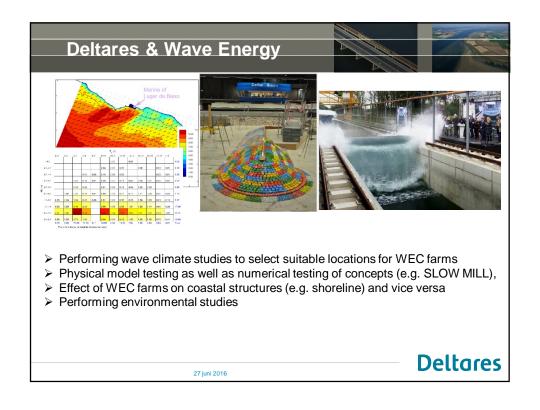


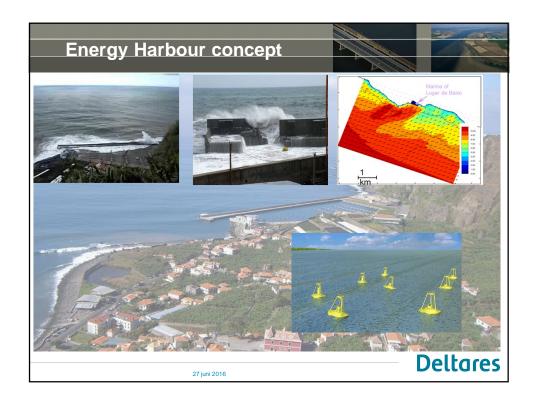


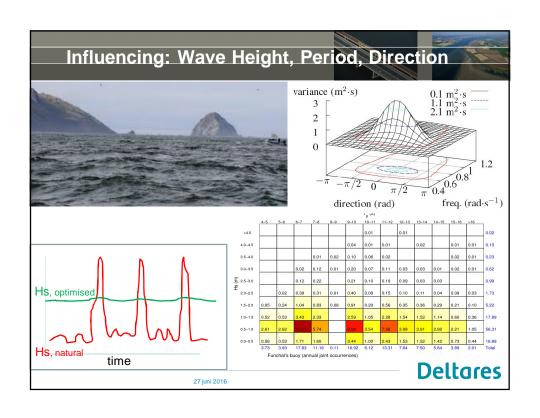


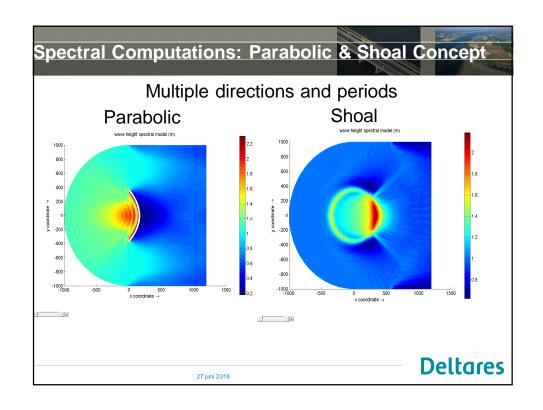


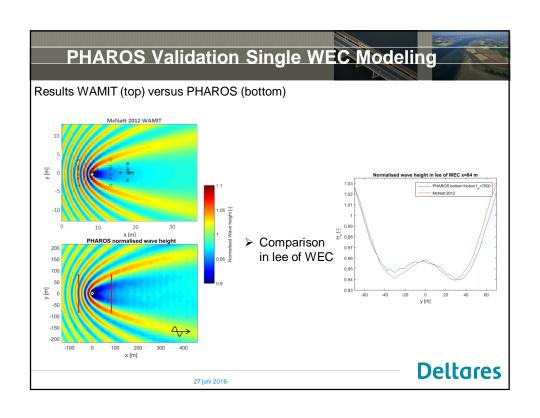


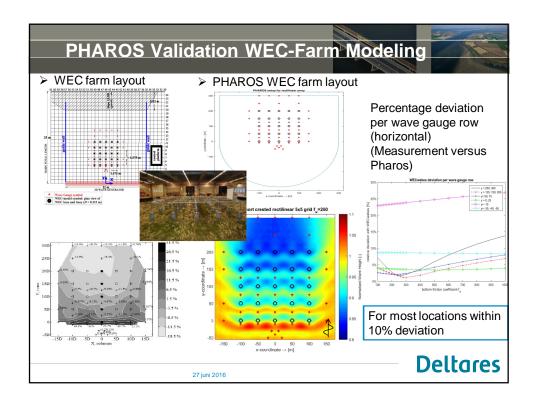


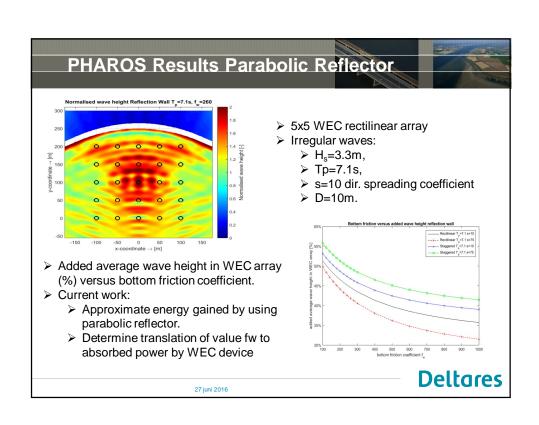




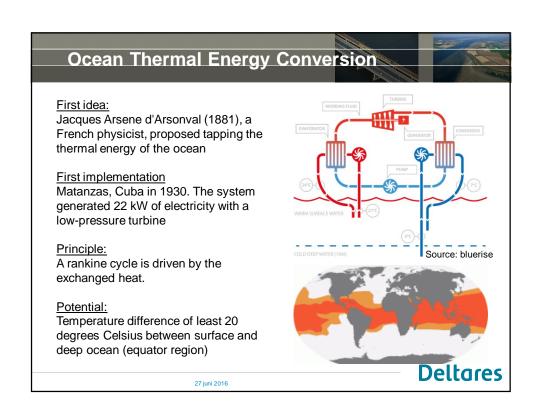


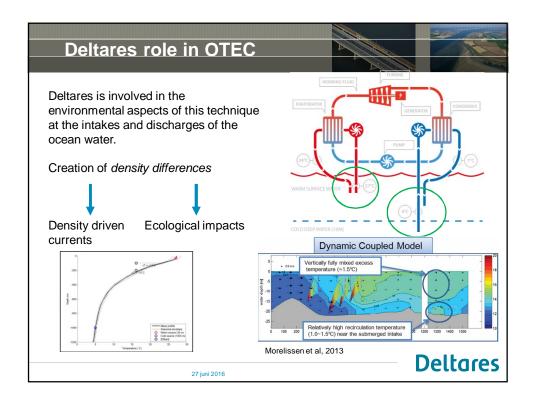


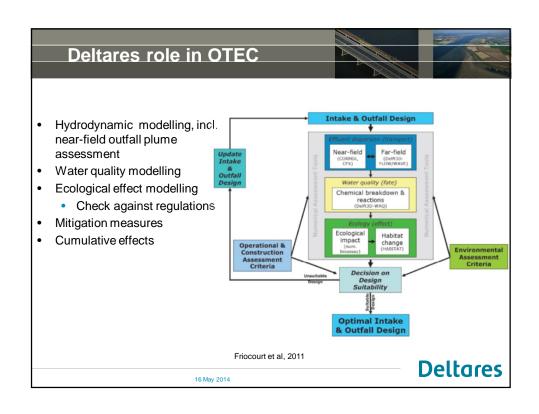




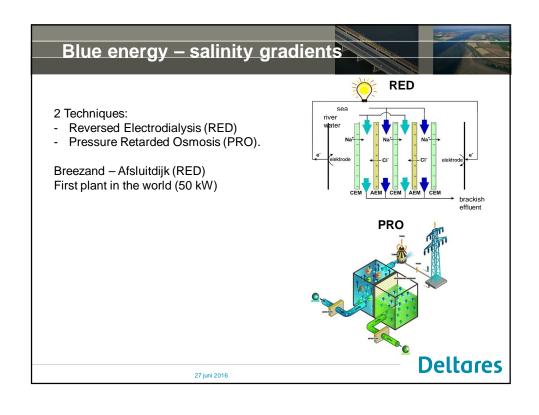


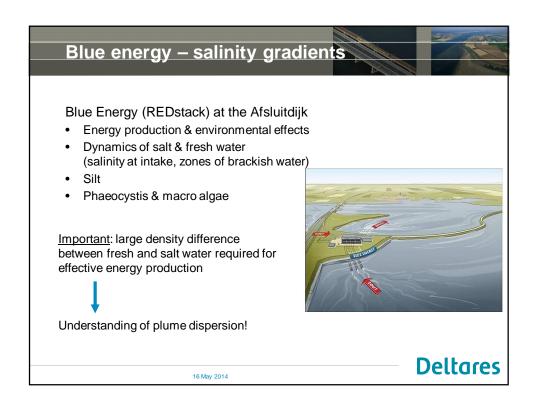


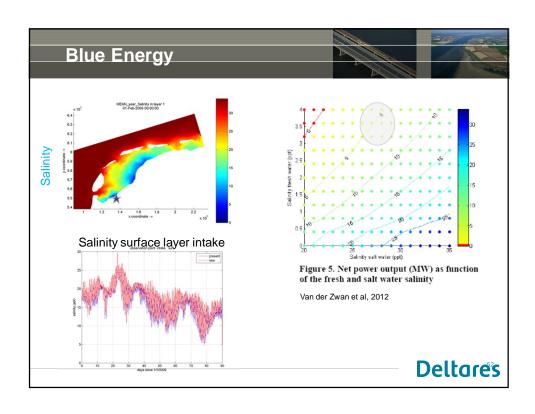




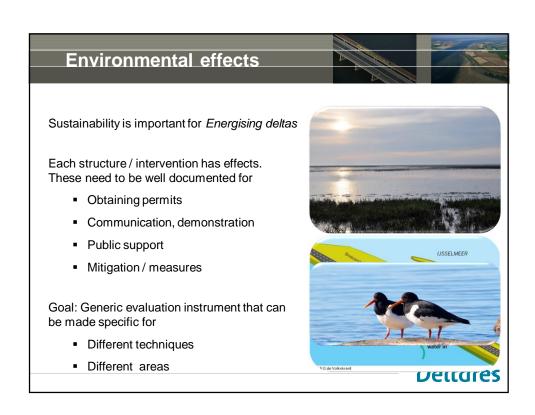


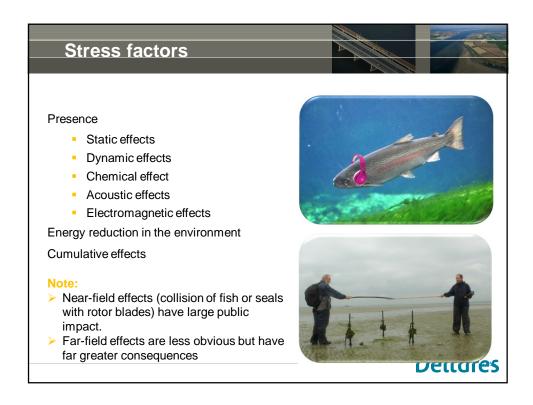


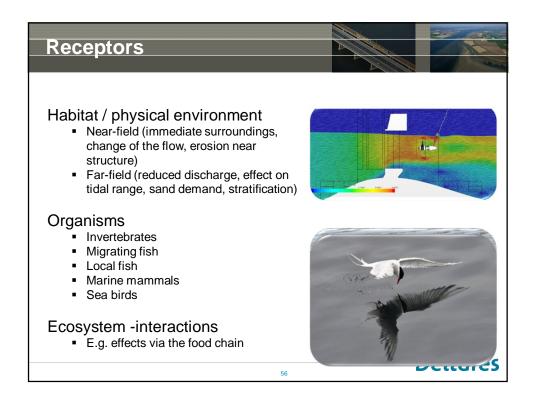


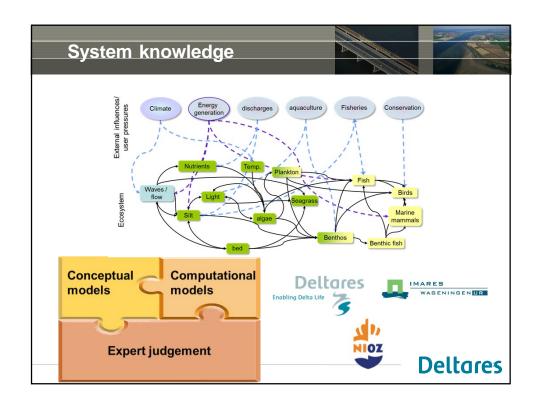


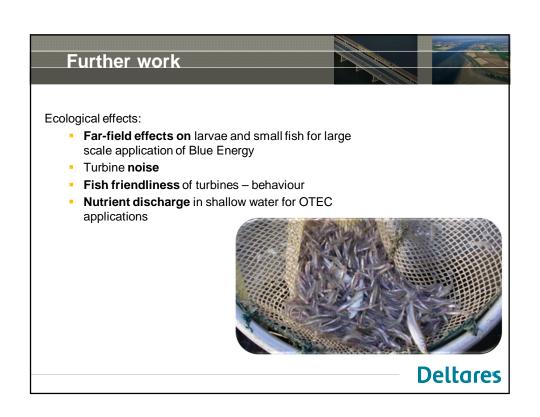












Recapping



The potential energy production of an ocean energy device does not only depend on the mechanics. System knowledge (hydrodynamically and environmentally) is as important as mechanical knowledge.



The success of ocean energy depends for a large part on understanding of system behaviour

27 juni 2010

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Deltares contacts



If you are interested in doing an internship or a Master Thesis on ocean energy at Deltares, please contact:

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27 juni 2016