

Innovating in offshore engineering (through Collaboration)

FutureLab OceanWorks



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AOG

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Indian Ocean Marine Research Centre

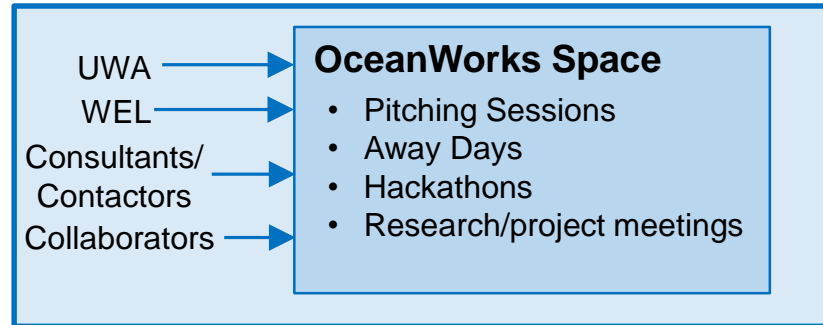


OceanWorks



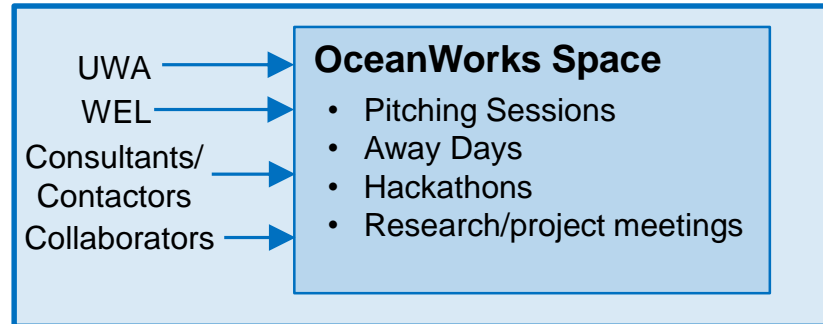
What is OceanWorks?

IDEAS



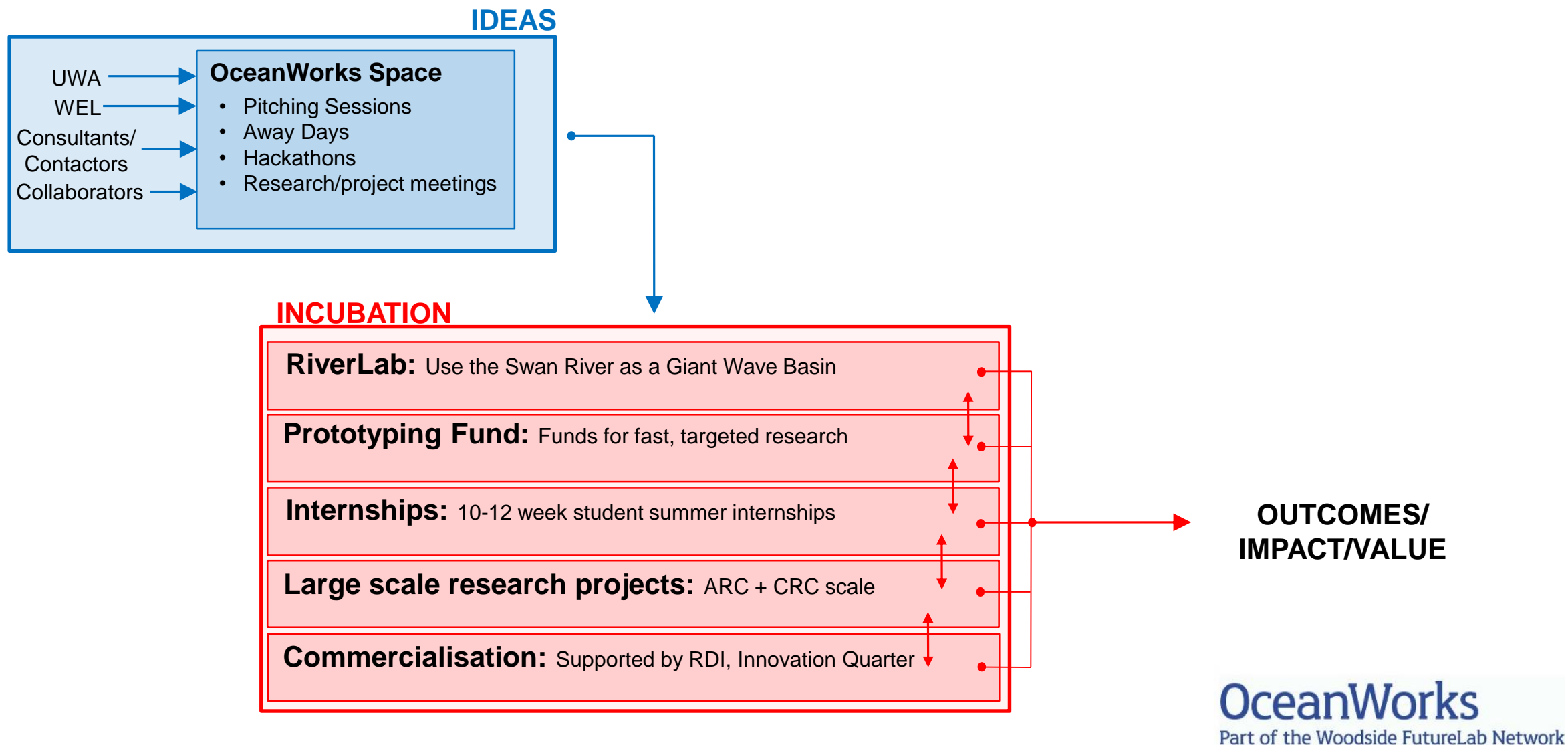
What is OceanWorks?

IDEAS

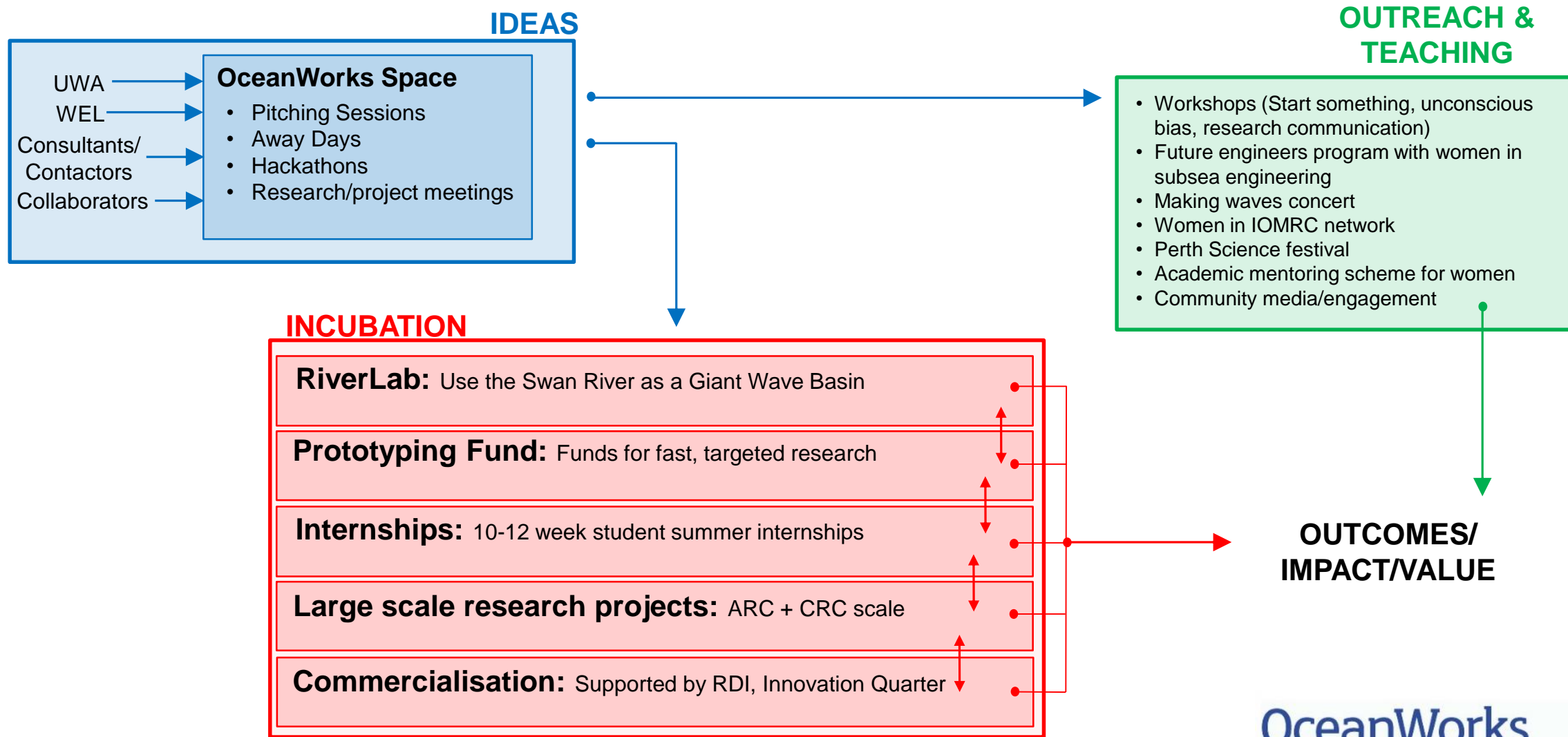


**OUTCOMES/
IMPACT/VALUE**

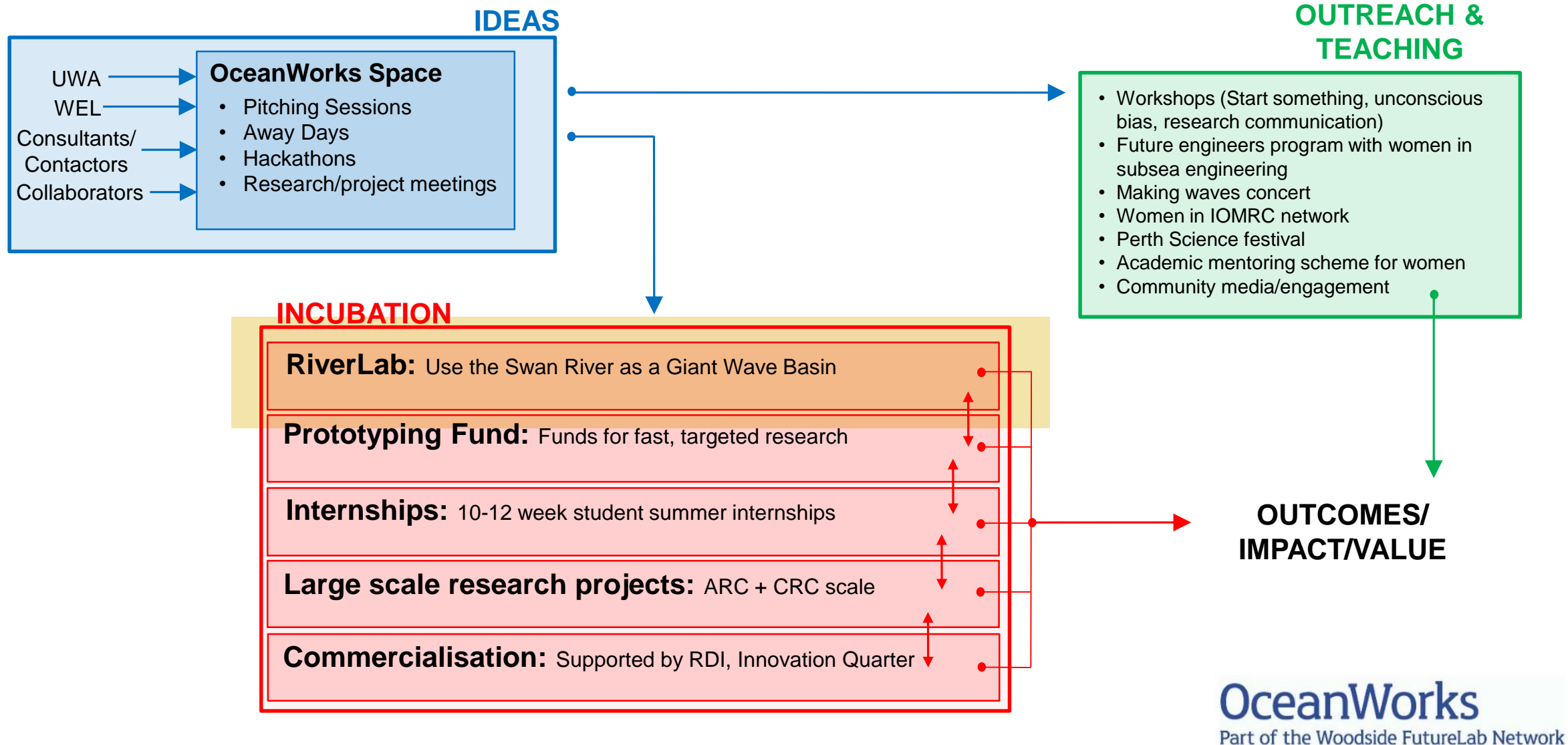
What is OceanWorks?



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What is OceanWorks?





RiverLab

1 River/estuary

15 Research Projects

>25 Academics across 2 faculties

45 Masters Theses (1+6+5+15+4+14)

1 CEED Project

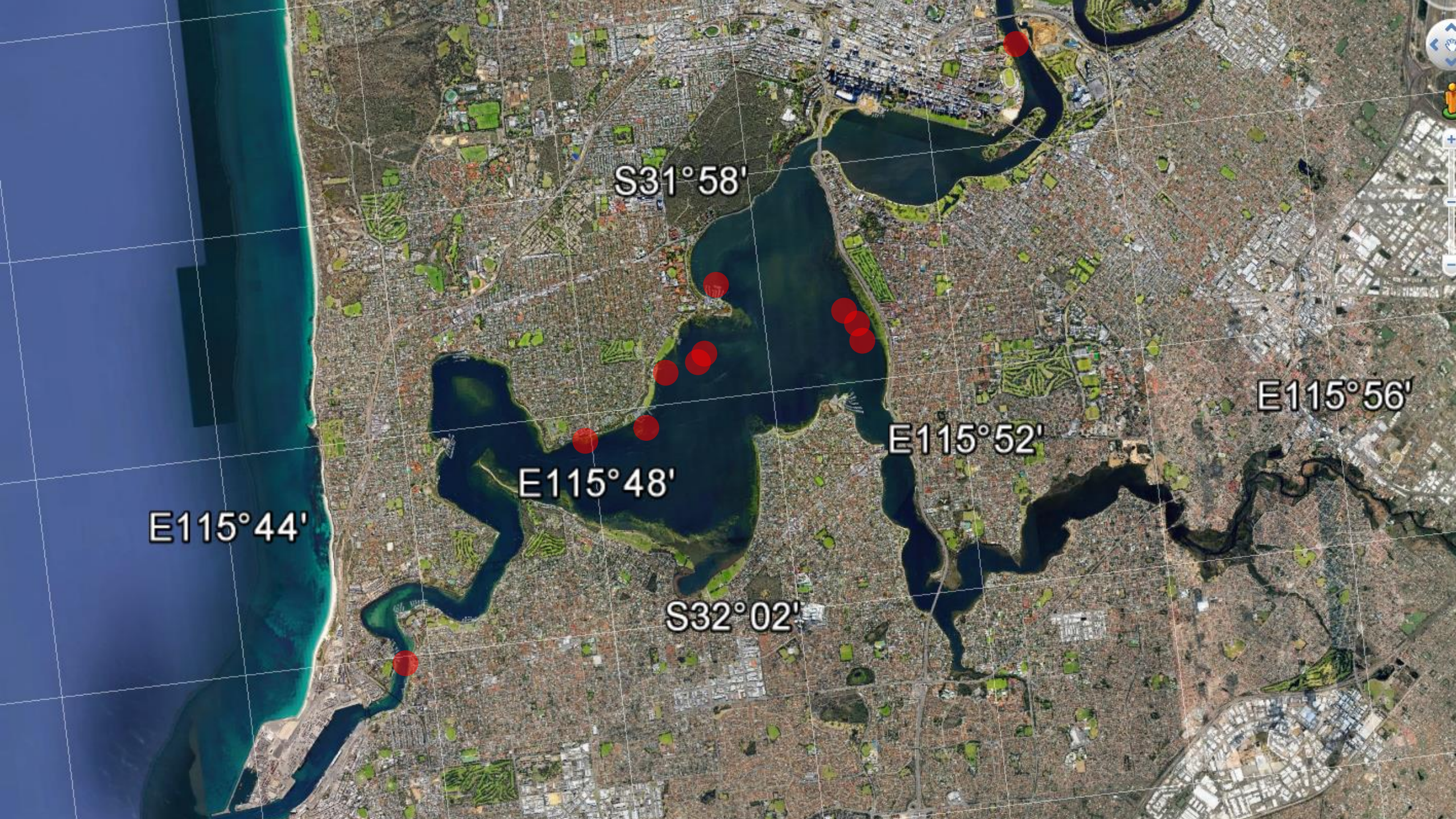
5 Masters units

2 Undergraduate projects

5 Novel devices/tools trialled

1 National Student Award





S31°58'

E115°56'

E115°44'

E115°48'

E115°52'

S32°02'



Participation in 1 Year

Collaboration



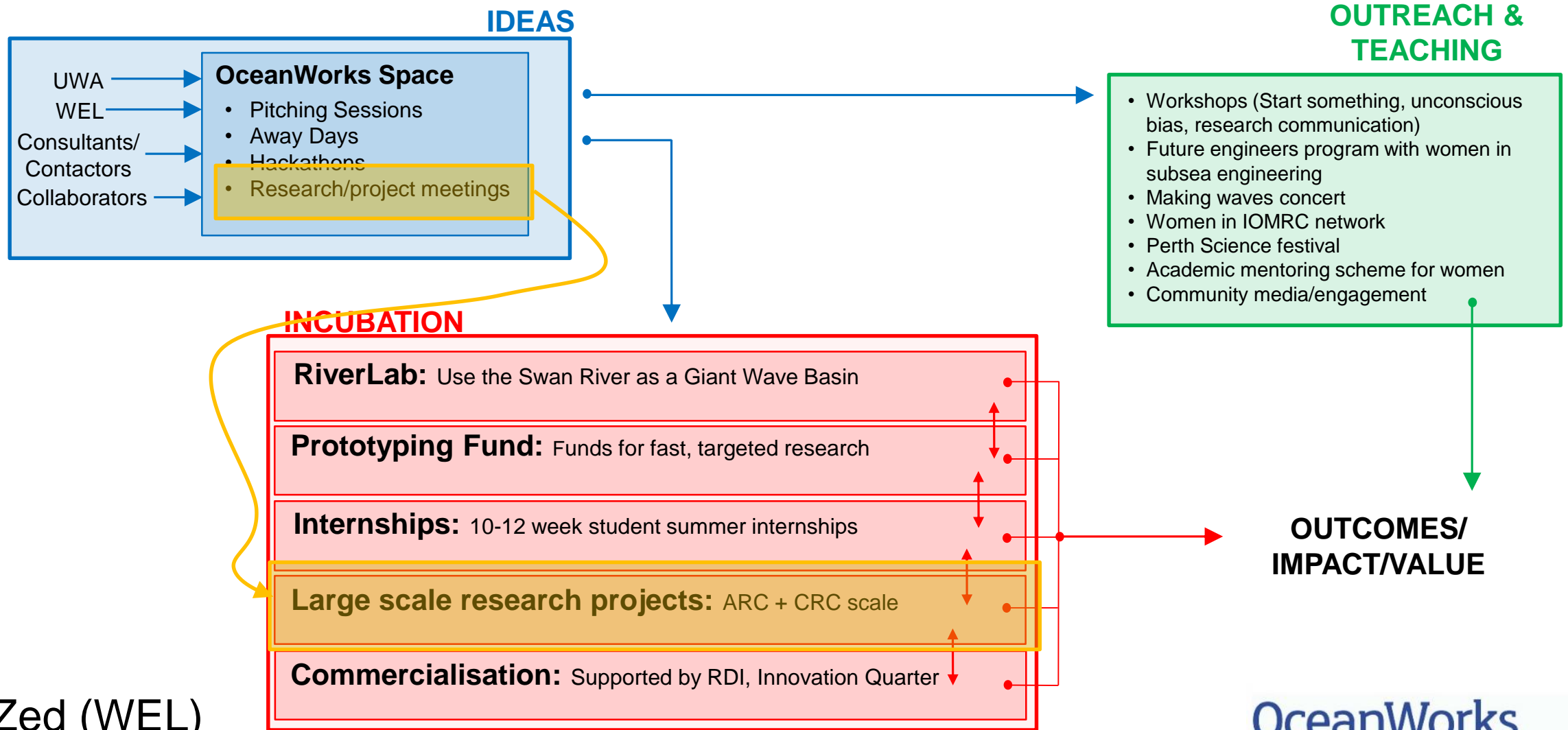
ARUP



Mechanisms to support
applied research foster
Collaboration

Examples of Innovative research

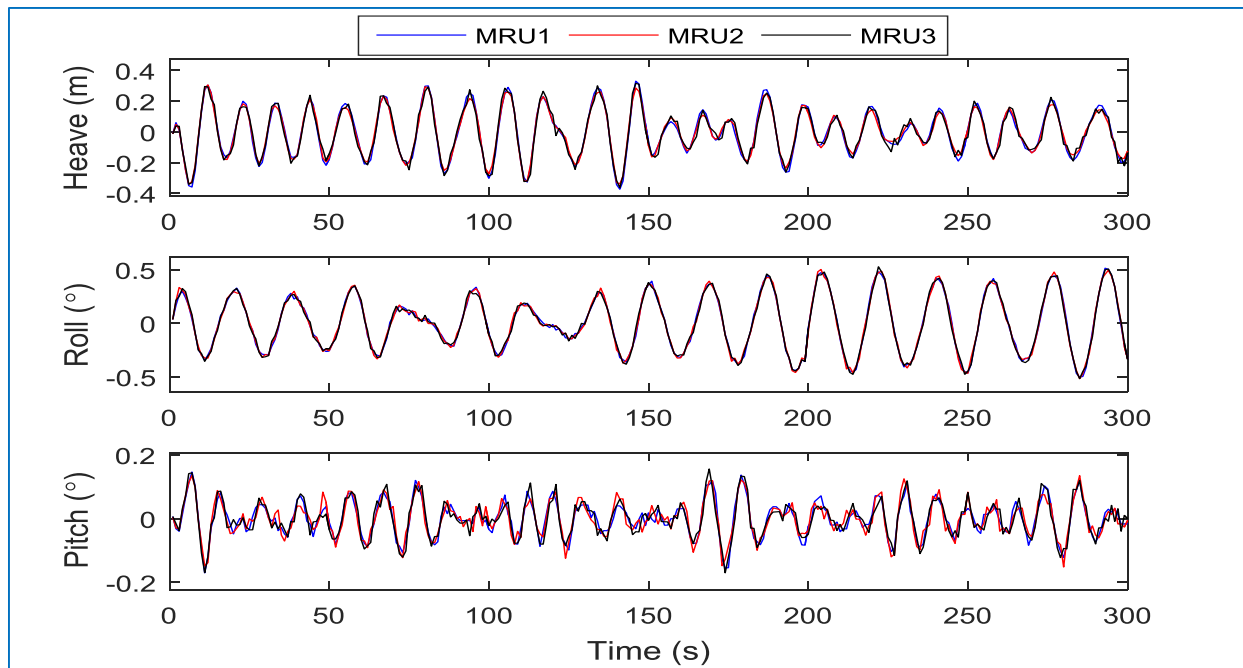
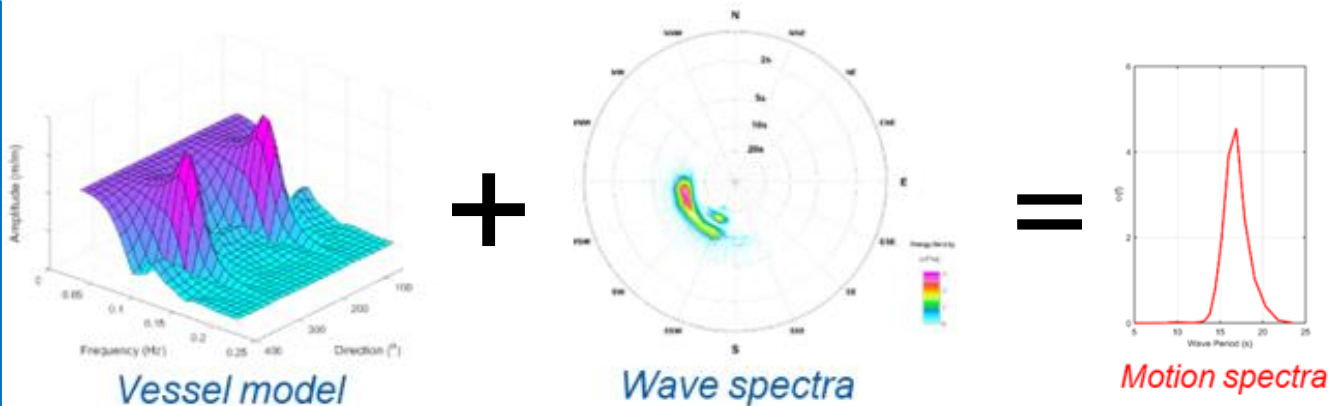
EXAMPLE 1: Vessel Motion Prediction



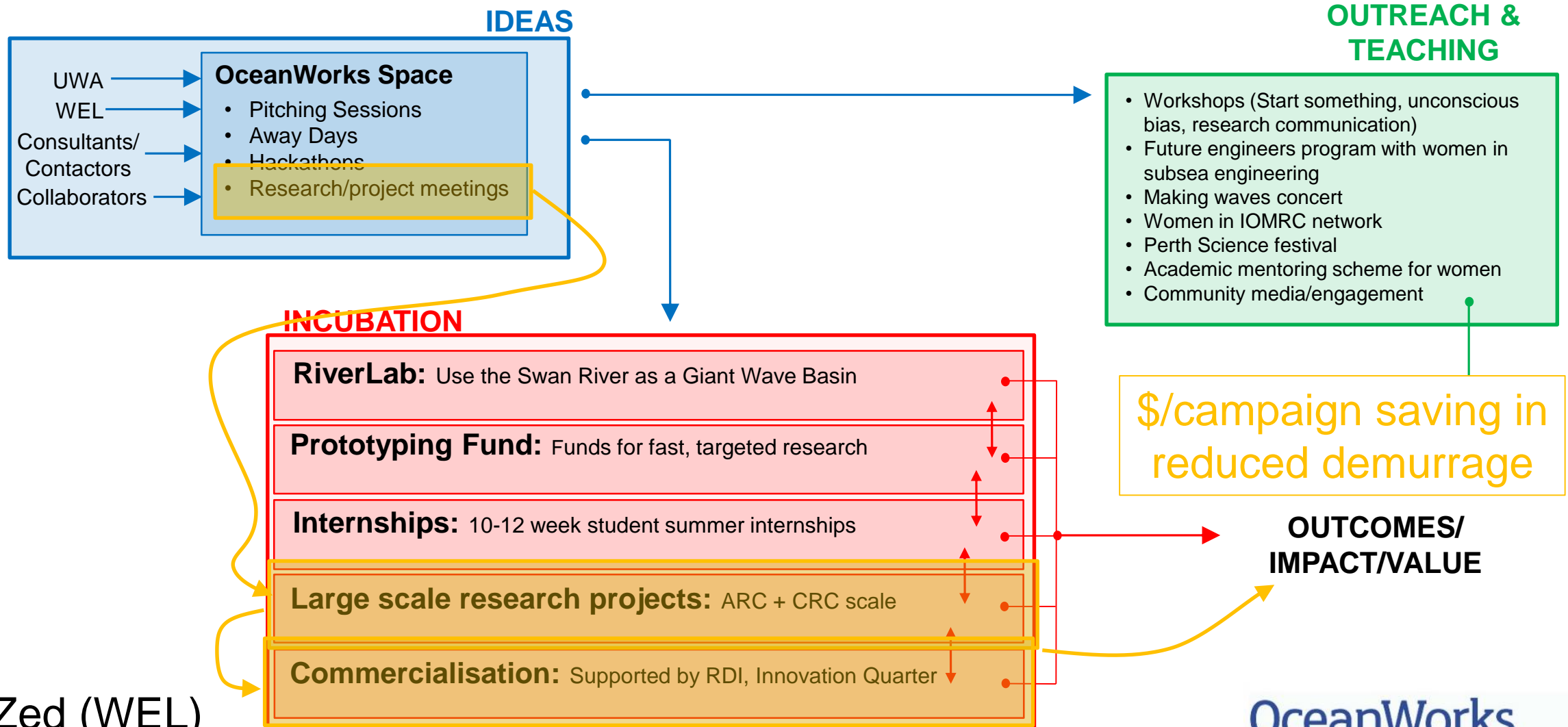
EXAMPLE 1: Vessel Motion Prediction



**Collaboration leads to
Development of New Design
Tool**

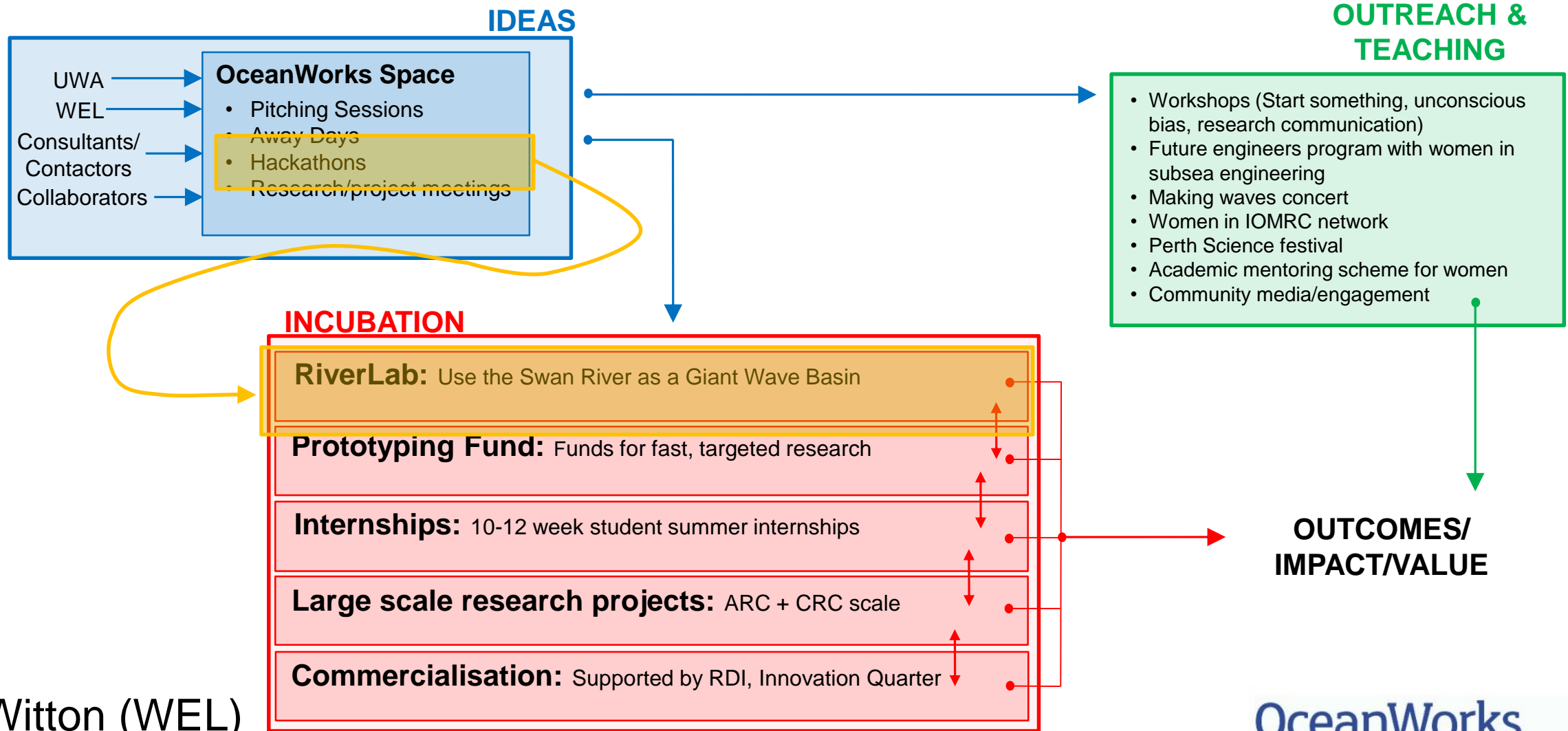


EXAMPLE 1: Vessel Motion Prediction

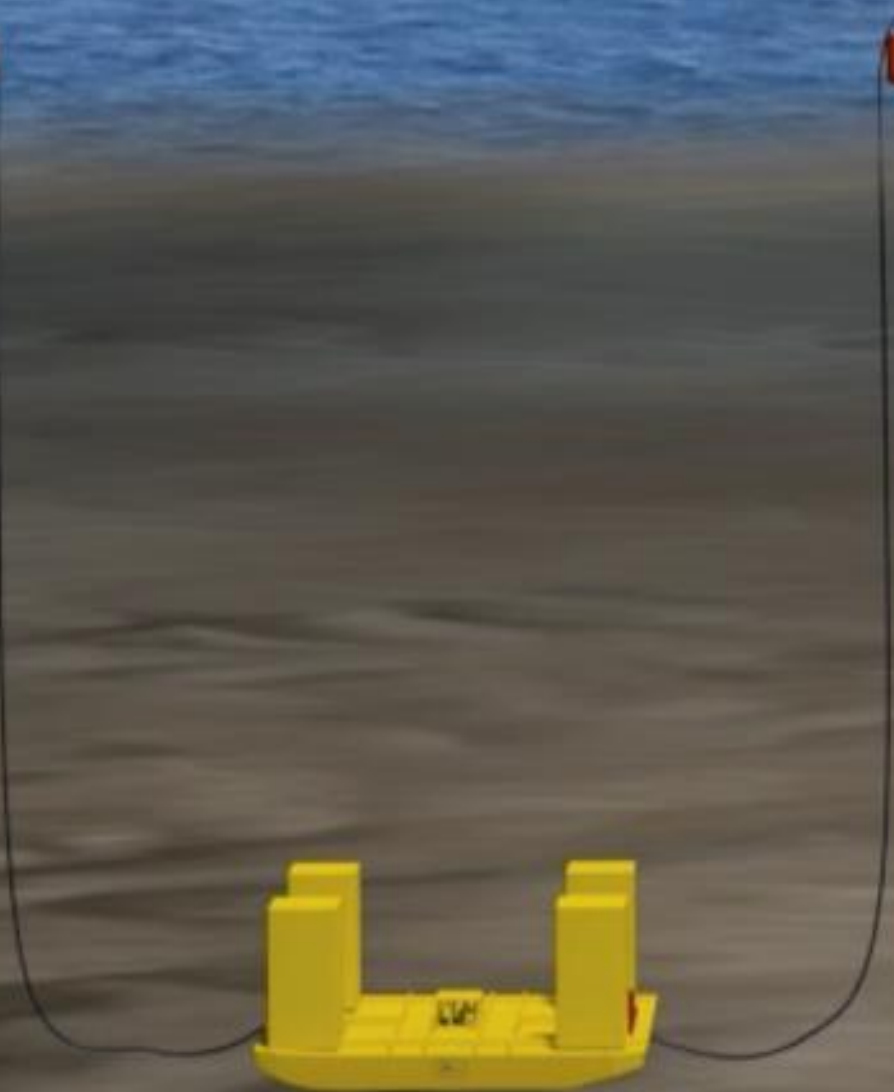


Matt Zed (WEL)
Ian Milne (UWA)

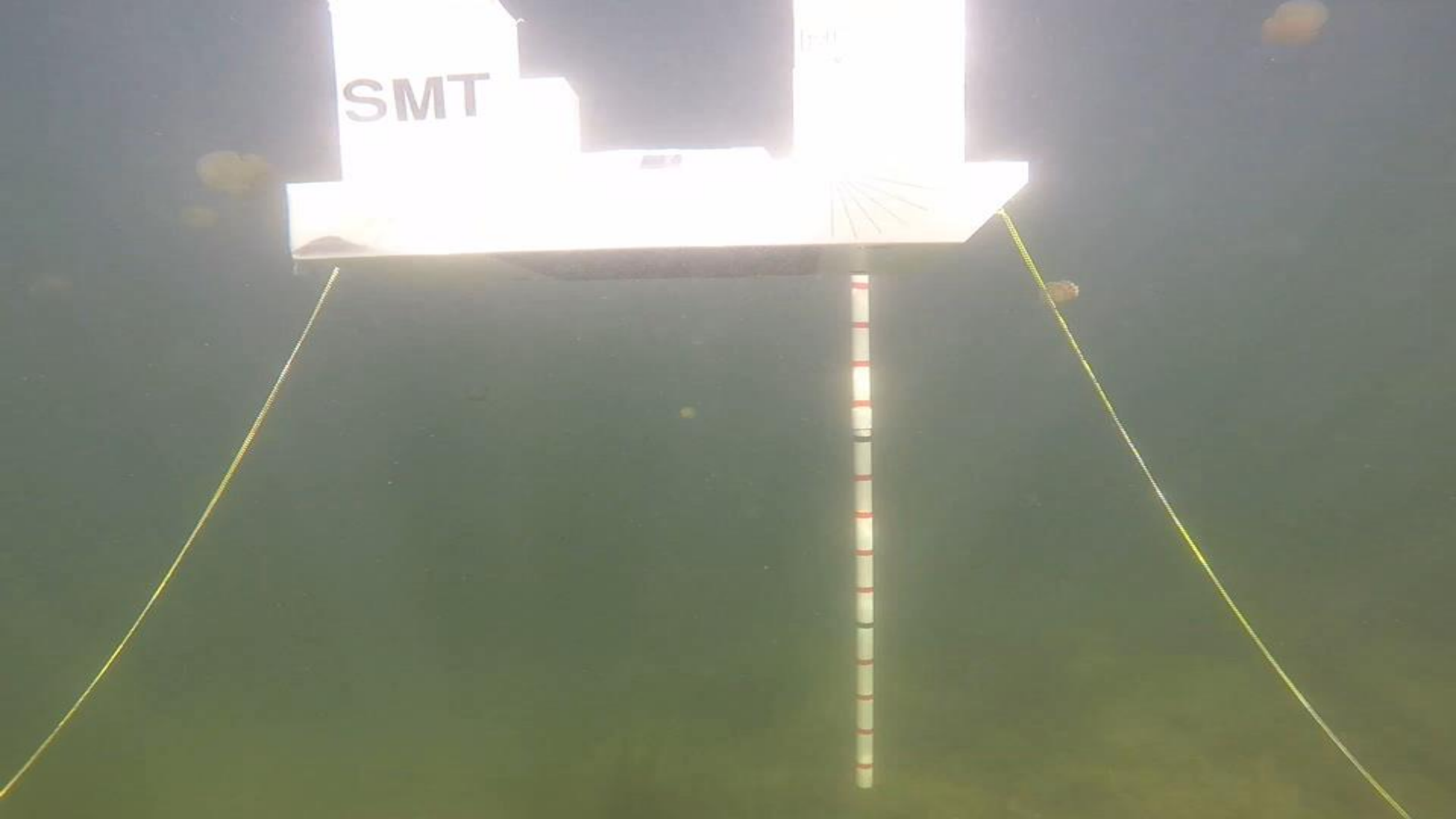
EXAMPLE 2: Demonstrate new Technology



Ben Witton (WEL)
Wenhua Zhao (UWA)



SMT



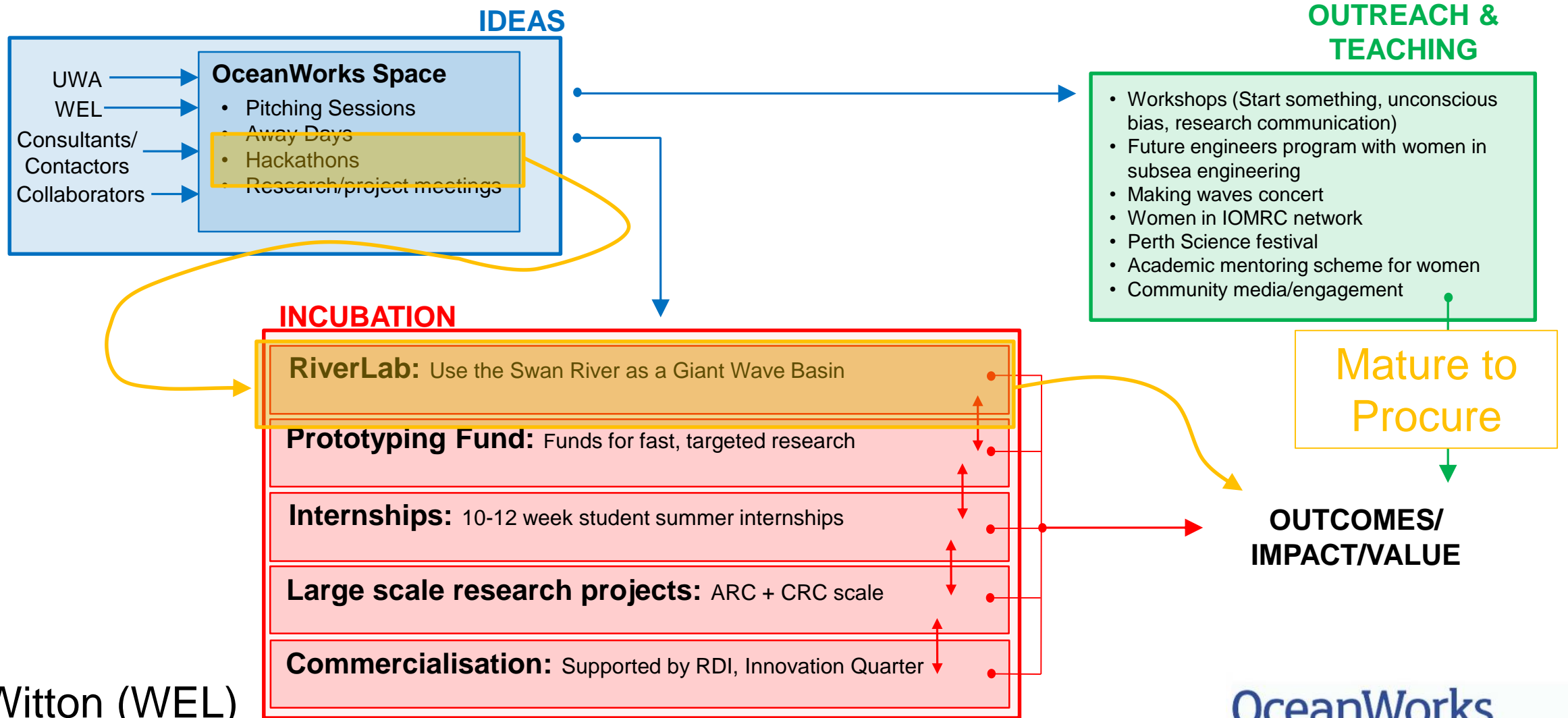


Testing the waters: The RiverLab facility and Woodside test a new way of installing large subsea structures using models on the Swan River; (right) UWA students Jeremy Lee and Calvin Lee and subsea installation engineer Ben Witton discuss the findings.

Making waves

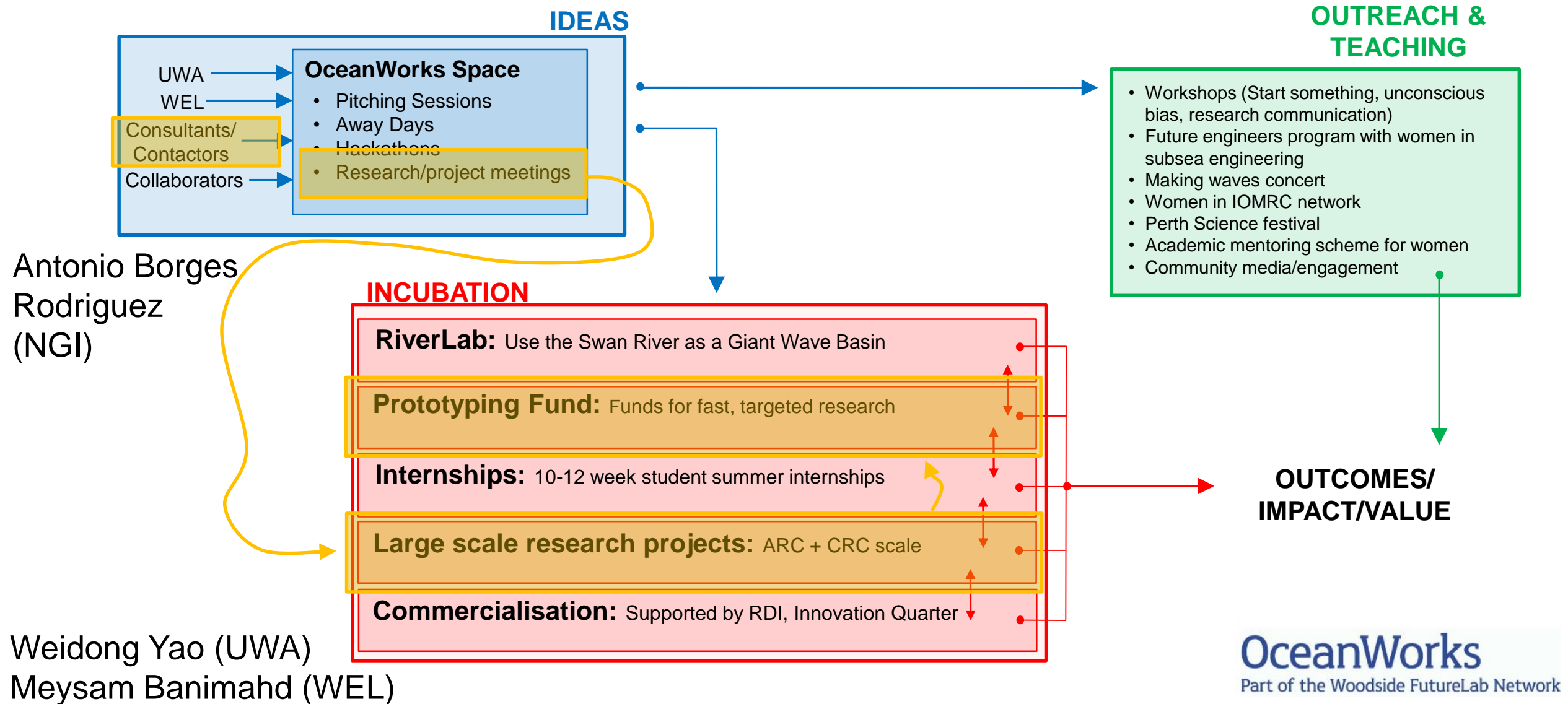
Collaboration leads to *rapid* demonstration of new technology which stimulates innovative engineering

EXAMPLE 2: Demonstrate new Technology

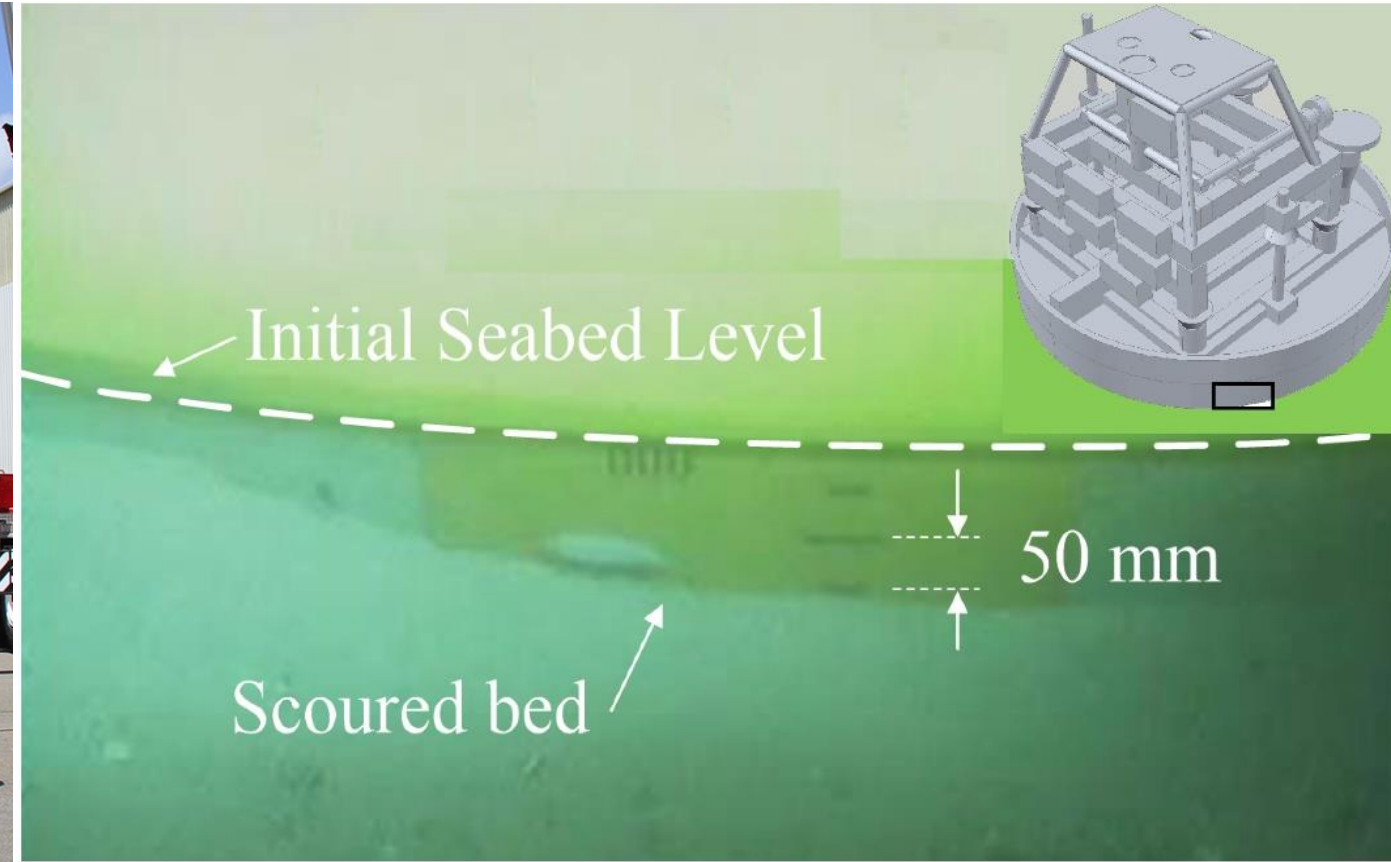


Ben Witton (WEL)
Wenhua Zhao (UWA)

EXAMPLE 3: Best practice vs. Field Observations

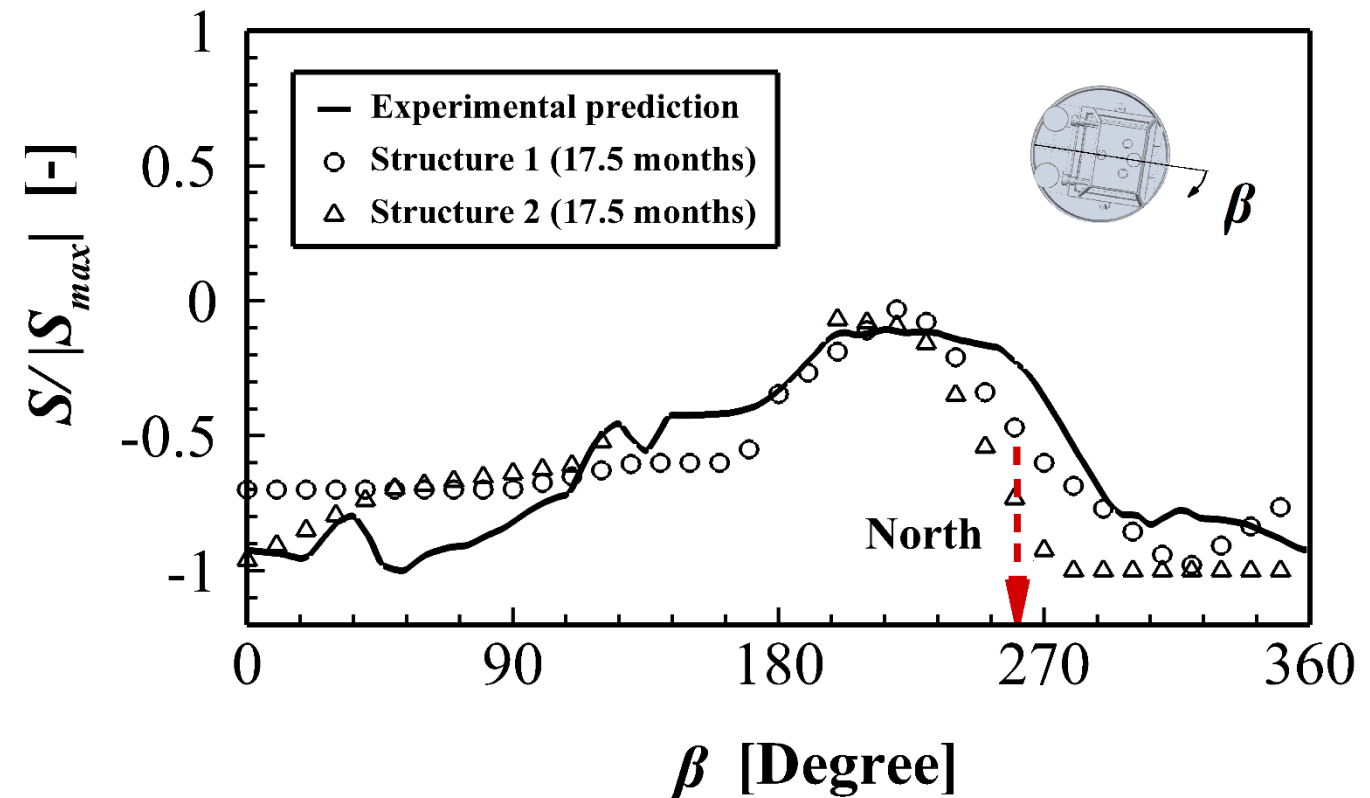
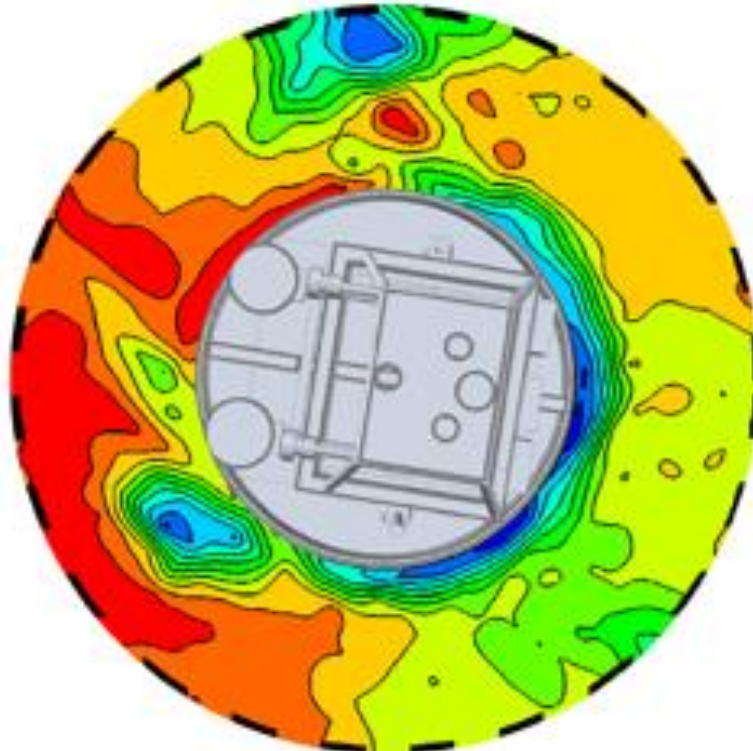


EXAMPLE 3: Best practice vs. Field Observations

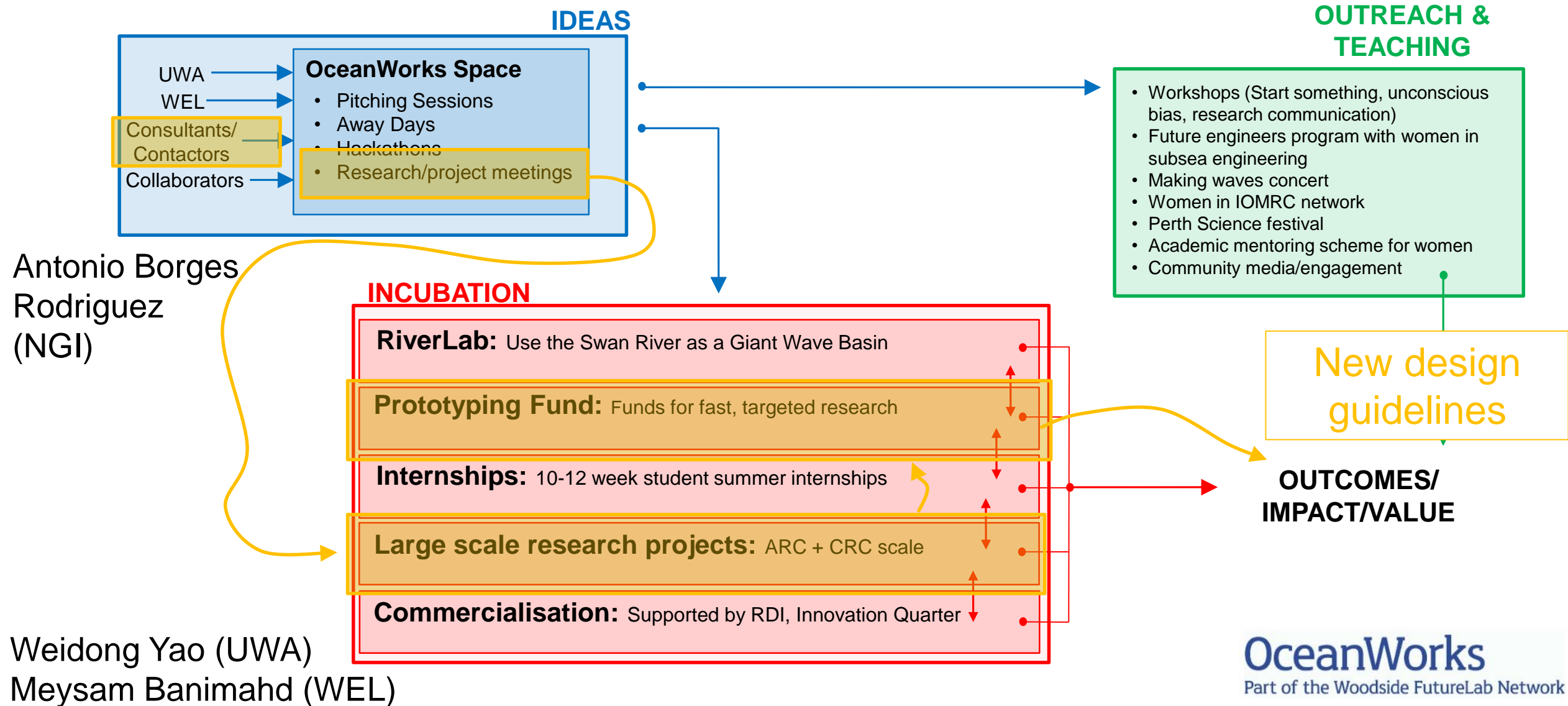


EXAMPLE 3: Best practice vs. Field Observations

Collaboration leads to
Improved and Validated
Design Methodologies

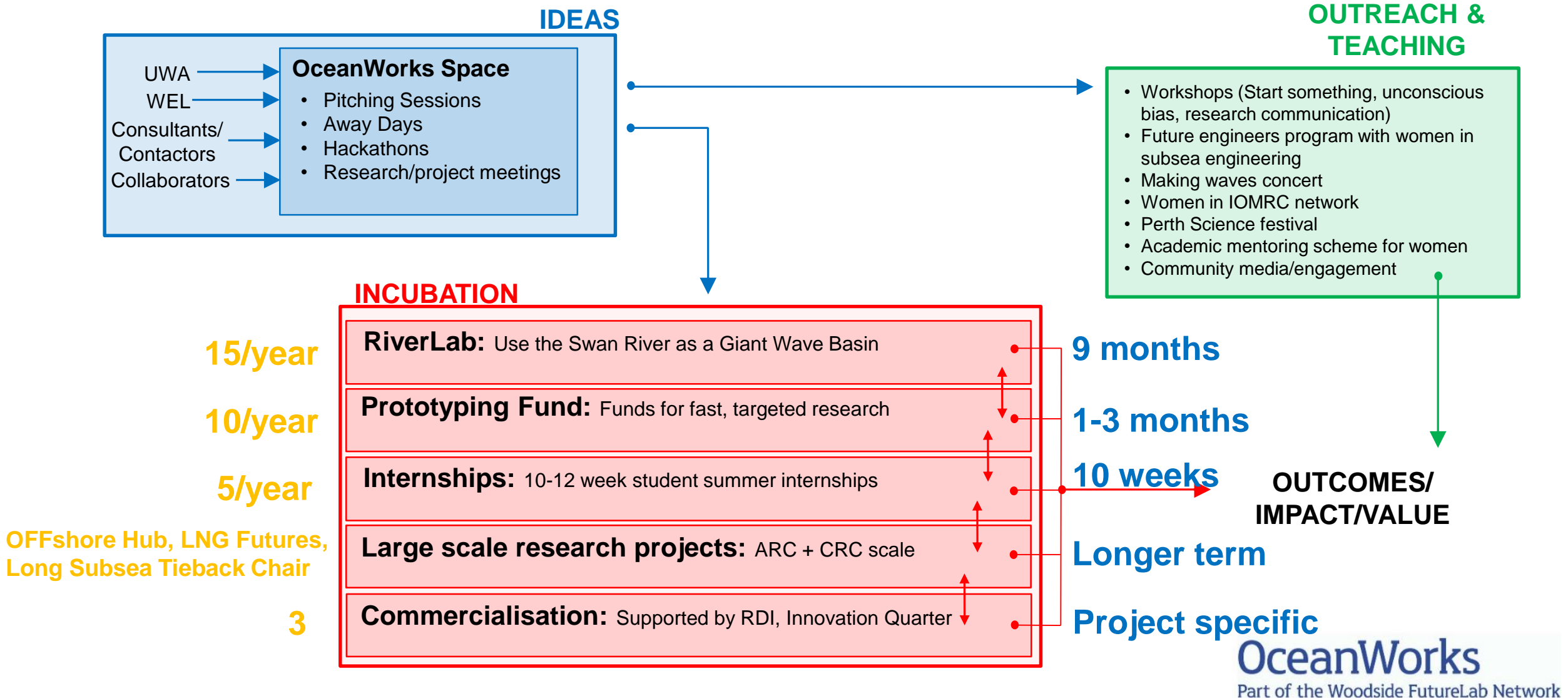


EXAMPLE 3: Best practice vs. Field Observations



Summary

the Numbers game ...



- It would be excellent to increase involvement of operators, contractors and consultants – whether you have an idea, suggestion or event in mind
- OceanWorks can be used to tackle industry wide challenges (spanning operators)

To get in touch please speak to me or look for OceanWorks at the UWA stand

oceanworks@uwa.edu.au