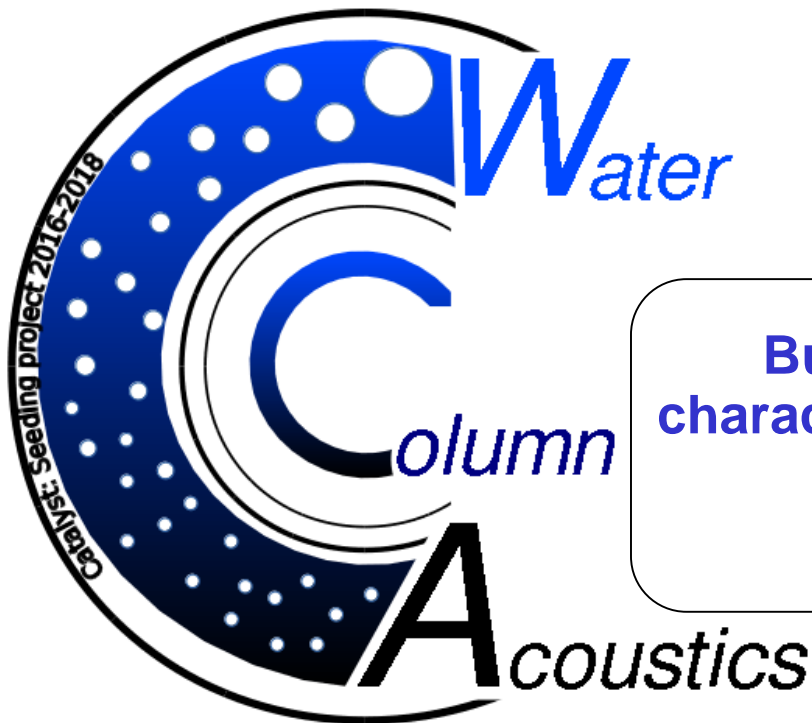


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NEW ZEALAND

TE APĀRANGI



**CATALYST  
FUND**  
Advancing global science partnerships  
for New Zealand



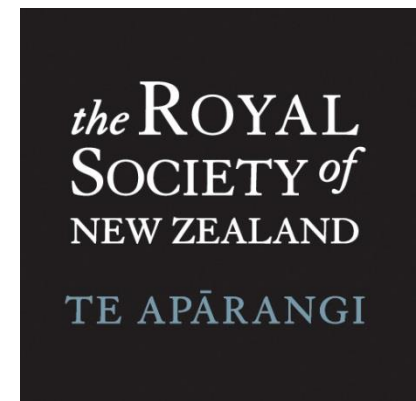
Building capability for in situ quantitative characterisation of the ocean water column using acoustic multibeam backscatter data

Investigators:

Geoffroy Lamarche, Yves Le Gonidec, Vanessa Lucieer, Jens Greinert, Xavier Lurton



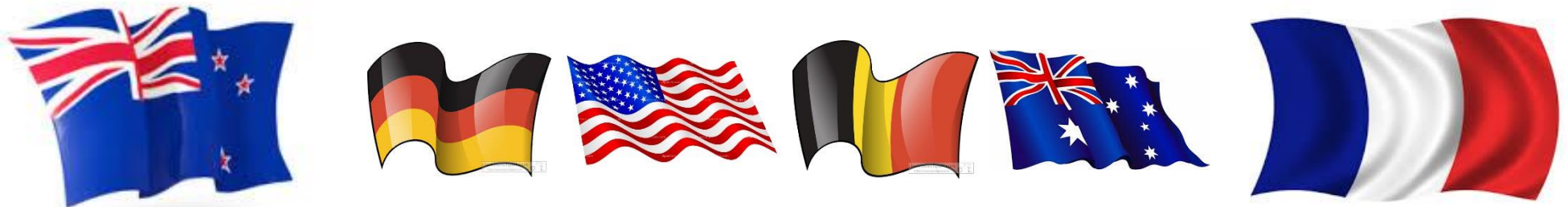
**WORKSHOP 1**  
25-28 April 2017, Rennes



## The Catalyst Fund

- International Relationships Fund that supports high quality international science collaborations for New Zealand.
- Supports activities that initiate, develop and foster collaborations leveraging international science and innovation for New Zealand's benefit.

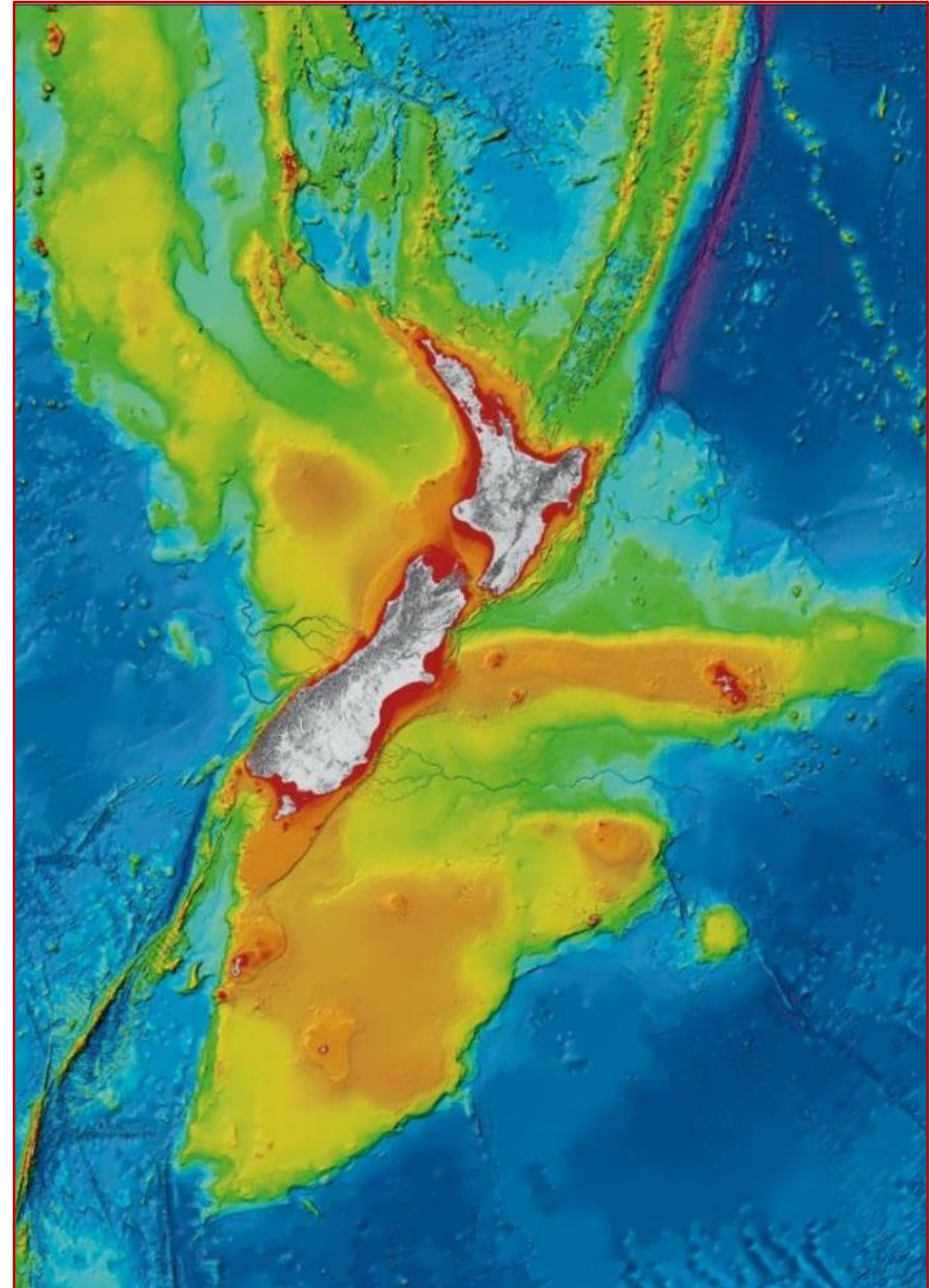
**The Catalyst: Seeding fund facilitates new small and medium pre-research strategic partnerships with a view to developing new collaborative projects.**





## Aims

- The aim is to **develop processing workflows and methodologies** for the quantitative extraction of information from water column acoustic data.
- **Targets** include bubbles, oil droplets, suspended particulates, vegetation, fresh water and characterising oceanographic features [e.g., internal waves & thermoclines] .





**WORKSHOP 1**  
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# Milestones

## **Year 1: Workshop in Rennes, France. 2017**

- (1) review the state of knowledge on water column backscatter data;
- (2) identify key problems to be addressed
- (3) sharing of common data sets and establishing the water column backscatter working groups terms of reference.

## **Year 2: Workshop and Survey in Wellington, New Zealand. 2018**

- (1) review the advances in processing and interpretation of the common datasets
- (2) undertake voyage on *RV Tangaroa* dedicated to apply new protocols for data acquisition and processing algorithms for target detection





**WORKSHOP 1**  
25-28 April 2017, Rennes

UNIVERSITÉ DE  
**RENNES 1**



	<b>Participant</b>	<b>Organisation</b>
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21	Lindsay Gee	Acoustic Imaging
22	Erin Heffron	UNH
23	Jonathan Beaudoin	QPS