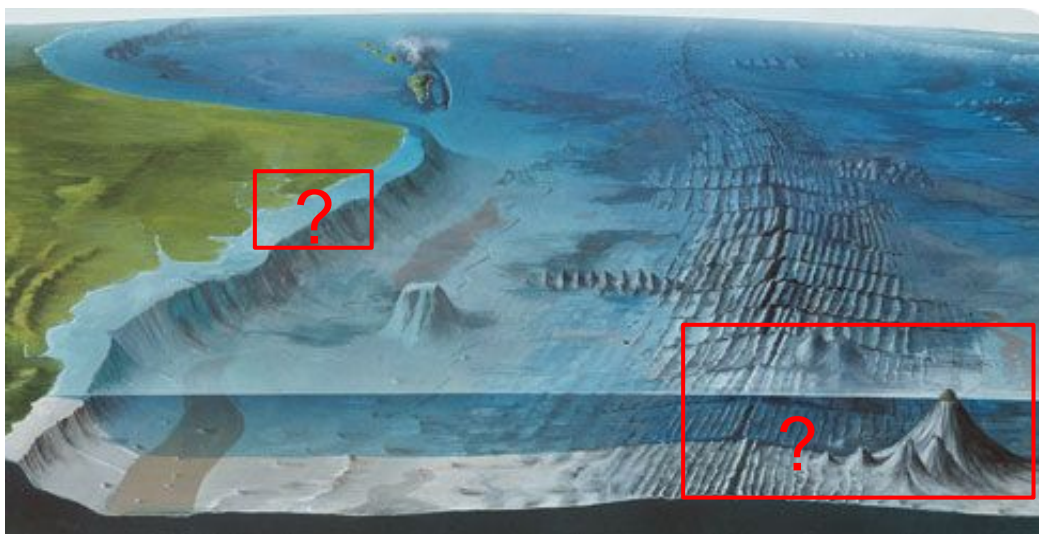


# SEAFOOD

“SEA-bottom Fiber-Optic Observatory for  
Distributed measurements”



[Univ. Côte d'Azur/Géoazur] *Anthony Sladen, Yann Hello, Lucie Rolland, J-X. Dessa, Diane Rivet, Louis De Barros, Sébastien Migeon, Philippe Charvis, Frédéric Cappa*

[Univ. La Rochelle/LIENSs] *Valérie Ballu*

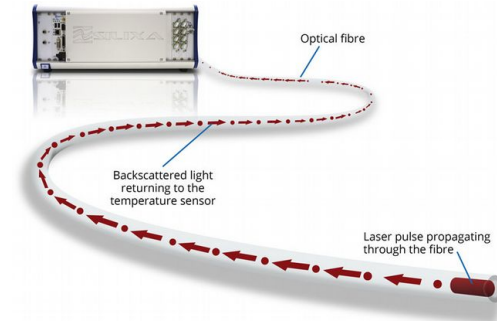
[Non-academic Partners] *Febus Optics, SITES S.A.*

# The SEAFOOD project?

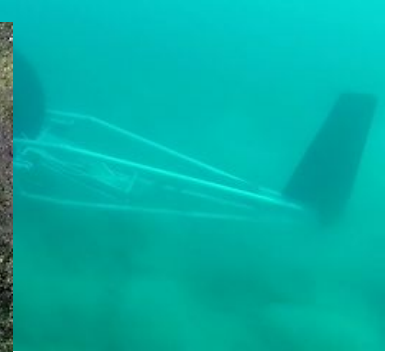


## Distributed Fiber Optic Sensing technology

- remote and long distance (40km+)
- multi-physics (T,  $\epsilon$ , acoustics)
- distributed (every m)
  - cheap (few €/m)
  - reliable (10yrs+)



+



# Up to now...

**2013-2016**  
Test DTS+DDS  
Brest (LGO) et Vlfr



Raccordement de l'ombilical dans le regard du-ponton



**2015-2018**

Build and test the SEAFOOD plow



Sponsors:



Observatoire  
de la CÔTE d'AZUR



Université  
Nice  
Sophia Antipolis

Membre de UNIVERSITÉ CÔTE D'AZUR

# *In progress*

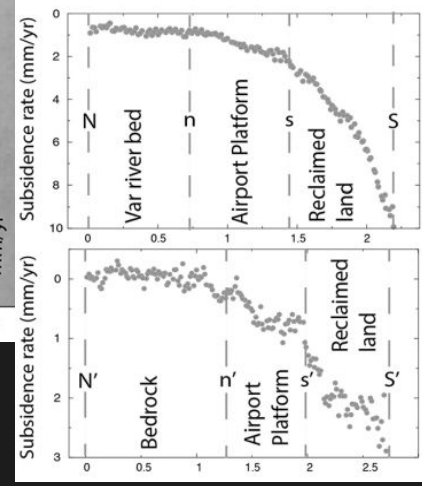
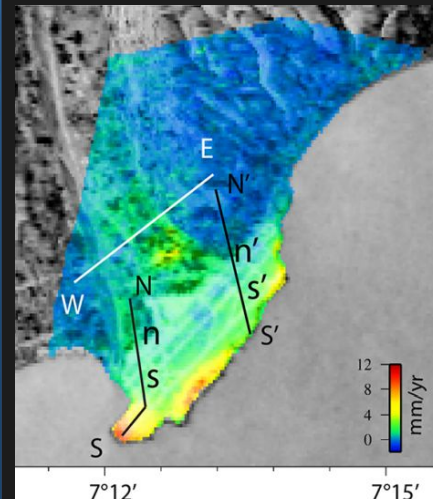
*The Nice Côte d'Azur airport,  
a test site with scientific interest*



Local landslide  
and tsunami in  
1979

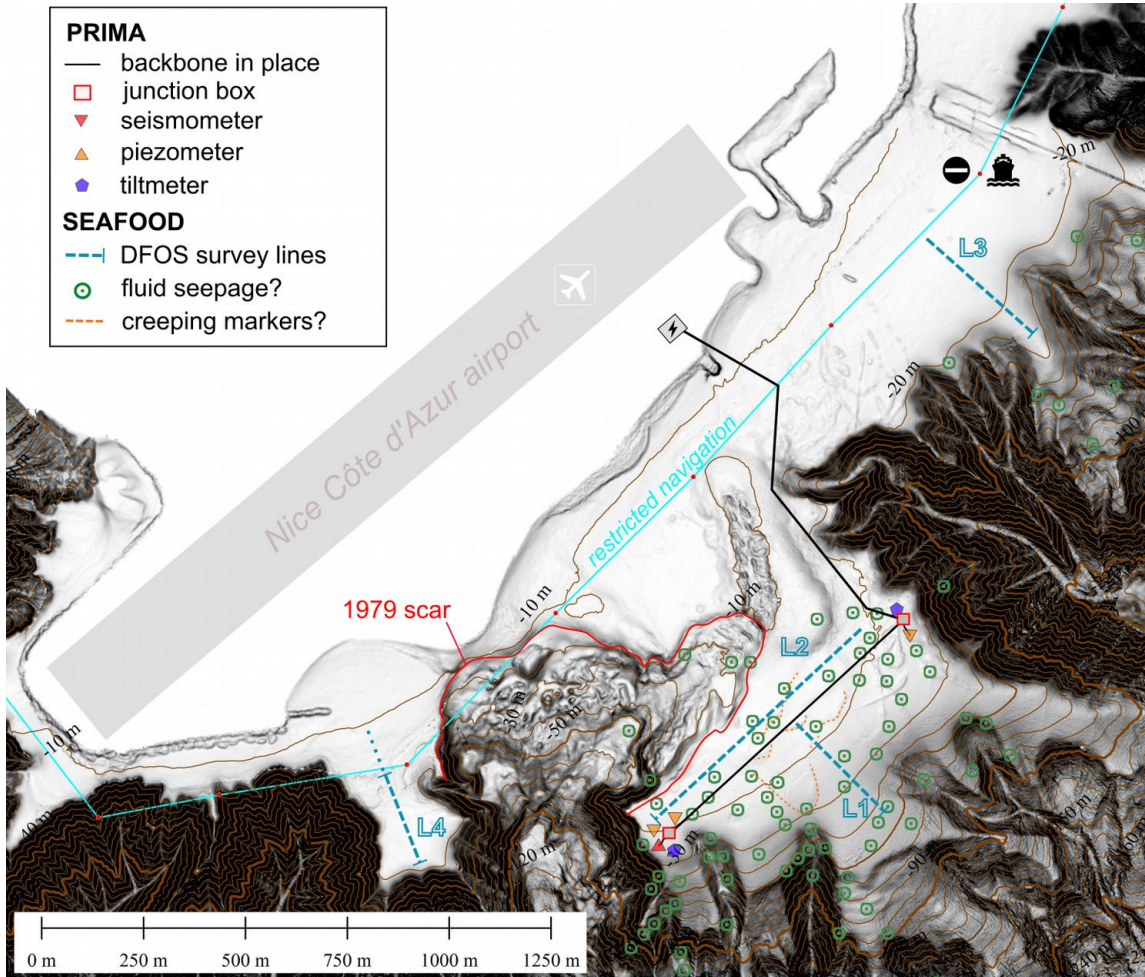


Area continuously  
experiencing  
strong subsidence



# In progress

## *The Nice Côte d'Azur airport, a test site with scientific interest*



- local and easy access by the sea,
- shallow (<40m),
- instrumentation in place,
- fluid and gas seepage to study,
- markers of slumping?

### **Next steps**

- Deploy FO cables,
- Campaign monitoring
- Test active and passive seismics