IFREMER seismic devices upgrade project

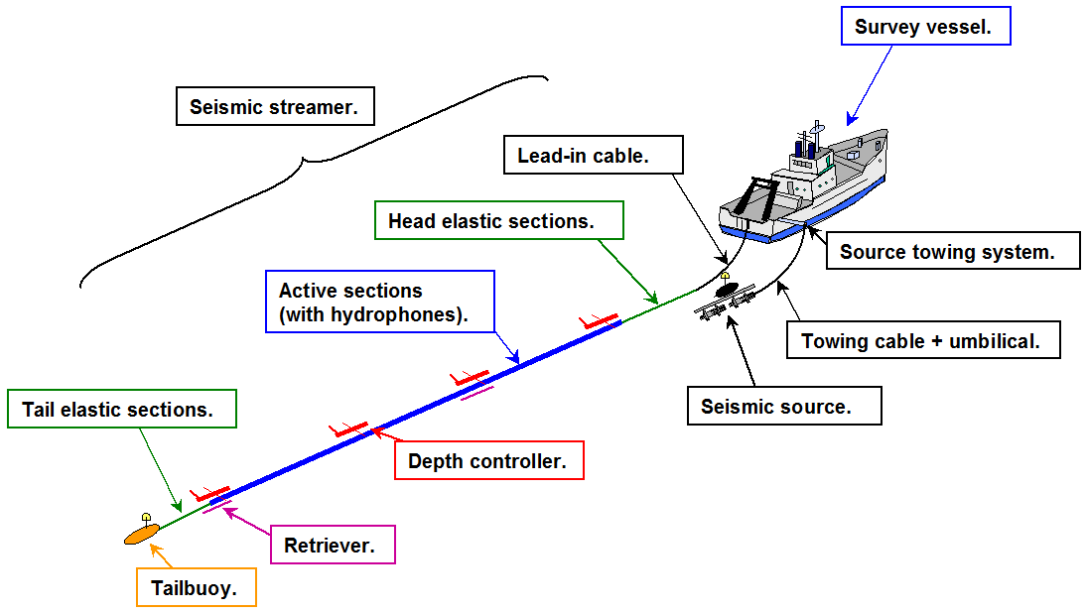
IFREMER seismic devices in 2013 : **obsolete (SERCEL fluid filled streamer + SERCEL SEAL408).**

→ ***IFREMER seismic devices upgrade project was launch at the end of 2013.***

→ ***Project split in 5 steps spread over the years 2014-2017.***

Main objectives : **Modernization and increase the capabilities of the old seismic devices.**
Two main seismic devices based on solid streamer technology (SERCEL Sentinel RD + SEAL428).

SIS 1:	***2D seismic device.*** ***1x6000m long seismic streamer.*** ***Upgrade of the seismic source handling system.***
SIS 2:	***3D seismic device.*** ***2x600m long seismic streamers (distance between streamers: 25m).*** ***Many available configurations (2D or 3D, with streamer length from 150 to 1200m).***



IFREMER seismic devices upgrade project

PROGRESS STATUS :

- **Step 1: Seismic device SIS2 1x600m validated (February 2015, RV *Thalassa*, Brest).**
- **Step 2: Seismic device SIS1 1x4500m validated (August 2015, RV *L'Atalante*, Nouméa).**

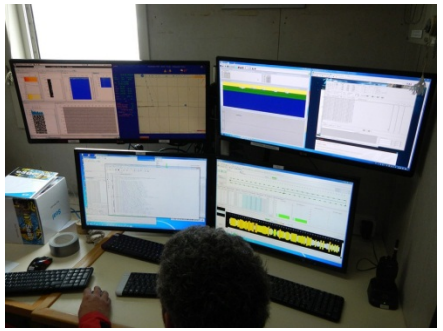
Two scientific cruises have been conducted in 2015 with the new seismic devices:

- **TECTA (SIS1 4500m, NO L'*Atalante*, September 2015, Pacific SW)**
- **GHASS (SIS2 600m, NO *Pourquoi pas ?*, September 2015, Black Sea)**

PERSPECTIVES 2016-2017 :

- **Step 3: Seismic device SIS2 2x600m + 3D acquisition system.**
  Validation planned in March 2016.
- **Step 4: Upgrade of the handling system of the seismic source associated with SIS1.**
  Objective : improvement of the transmitted acoustic signal (better control of the airguns' depth).
  Validation planned at the end of 2016 or beginning 2017.
- **Step 5: Seismic device SIS1 1x6000m.**
  Confirmation in 2016, realization in 2017.

Sea trials for step 2 (ESSISM, RV L'Atalante, 2015).



Sea trials for step 1 (ESSISM, RV Thalassa, 2015).