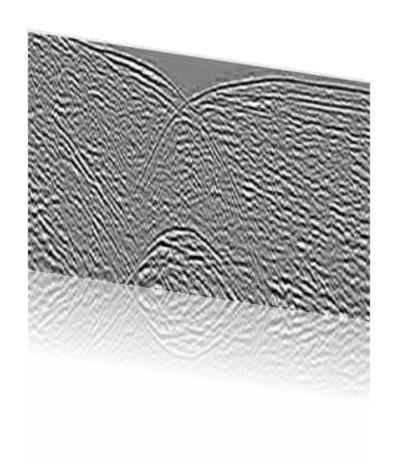


# Seismic viewing service



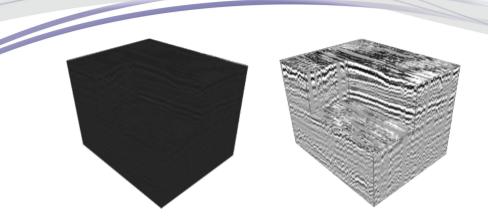






- Seismic data pose issues in handling its value:
  - Foster scientific collaboration
  - Commercial use (oil companies)
  - Technical issues (file size)





Data Transparency: possibility to access the work of the data provider



In fostering scientific collaborative attitude it is a delicate activity that needs careful balance

Has to be modulated upon the desired "social" result

it is a general problem from Medicine to Physics

References: Olson et al. (2008), Pratt et al. (2004), Nentwich (2004), Kötter (2001), Orlowski (1992), Birnholtz (2006), Ribes and Bowker (2009)

In commercial environments...no need to mention



# Why do we disseminate data?:

- 1) Because it is the mission of our institute (Geological Survey) there's specific funding for this
- 2) Because data was acquired with public fundings and the government asks for this.
- 3) Because gathering our data and data from other institutes we can create a bigger dataset.
- 4) To attract collaborations → position the institute in the community → participate in new projects → fundings
- 5) Data licensing can be an important revenue

Download

No payback

payback

Control data access



# There can be legal issues:

Different countries can have different legistation (2003/98/EC, 2007/2/CE Directives do not cover all cases)

EEZ: Exclusive Economic Zones (mineral exploration)

There can be different motivations for data sharing

There are different policies in data sharing

If the solution does not allow different policies to be implemented, providers might not be motivated to share data (empty boxes)

-> Motivation of providers is very important<-





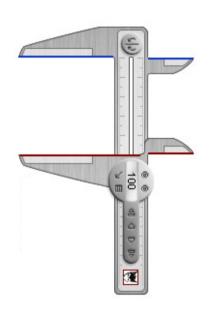
# Understanding end user point of view

GeoSeas developed a Questionnaire (WP10) that has been submitted to a wide range of end users to understand the needs of the community (How to visualize data, need to georeference data, what different data types are needed ...)

Many commercial and non-commercial (also internal Ifremer, OGS..) similar solutions already existing have been considered and evaluated (possibility to handle SEG-Y data, georeferencing, GUI..)

Develop a new solution from scratch having this analysis in mind.



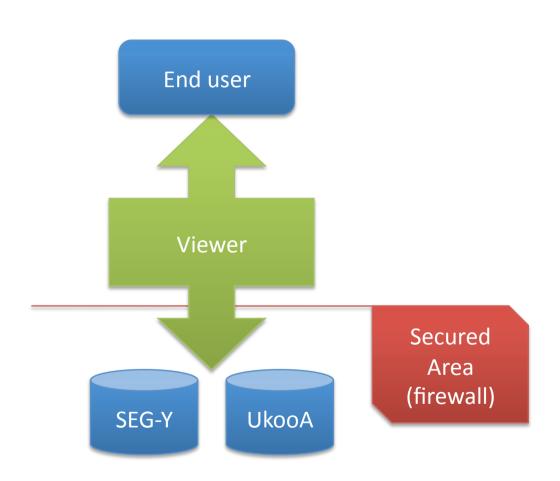


# Practically we need a system that:

- Allow end user to access directly data (visualization, QC, simple processing)
- Allow providers to control user access (identify users, grant different levels of access one by one)
- Is integrated with the Geo-Seas infrastructure
- Deals with the large file size of seismic data

This is a viewer to help in discovery
It is not an interpretation or processing tool that substitute
Any software the end user might use

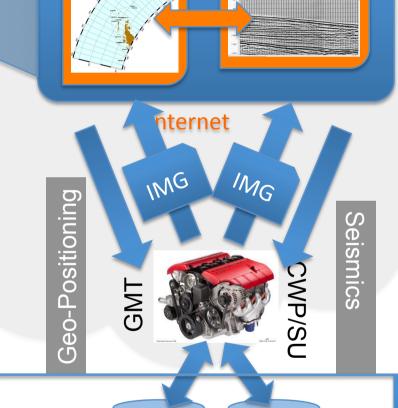








- Georeference data
- •Zoom
- •Pan
- Change presentation mode
- •Gain
- Layers
- User Identification
- Access control
- ...Collaborative functions



Prototye available since october 2011 In time with DOW (month 26) Problem still open: integration



WP4 (sept 2009 to march 2010):

metadata model developed (CDI+O&M+SensorML)

Link to visualization already prepared.

Deliverable 4.2 (geoph. Metadata format)

OGS, CNRS provided scripts to create metadata (BGR,Lneg) but no official tool to produce them. (Mikado)

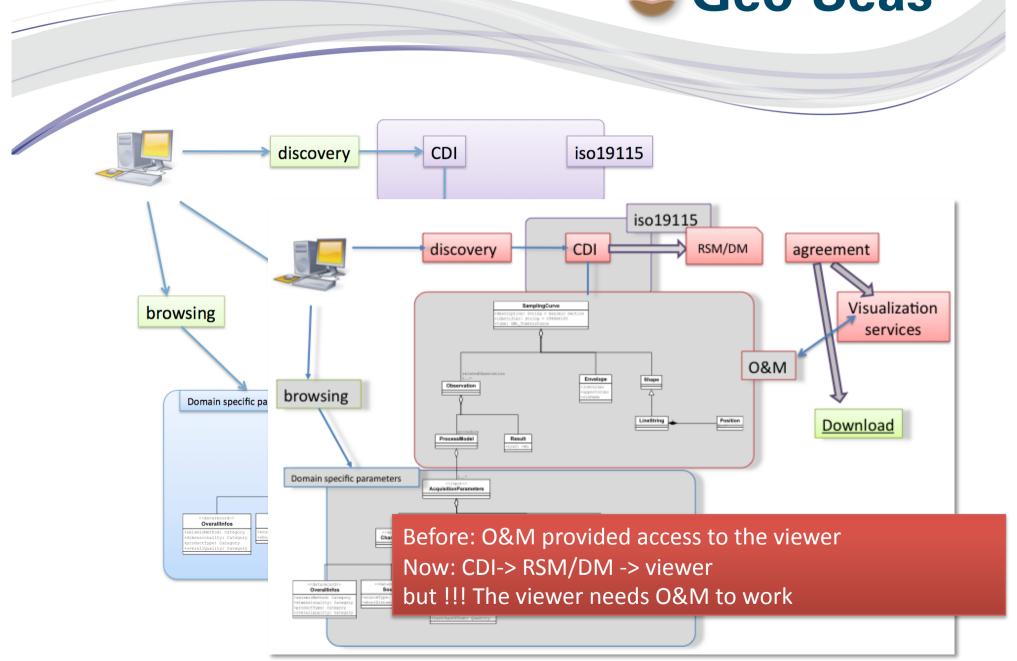
New version of Mikado will offer O&M+SensorML support

Suggestion to concentrate first on the CDI later on O&M and SensorML

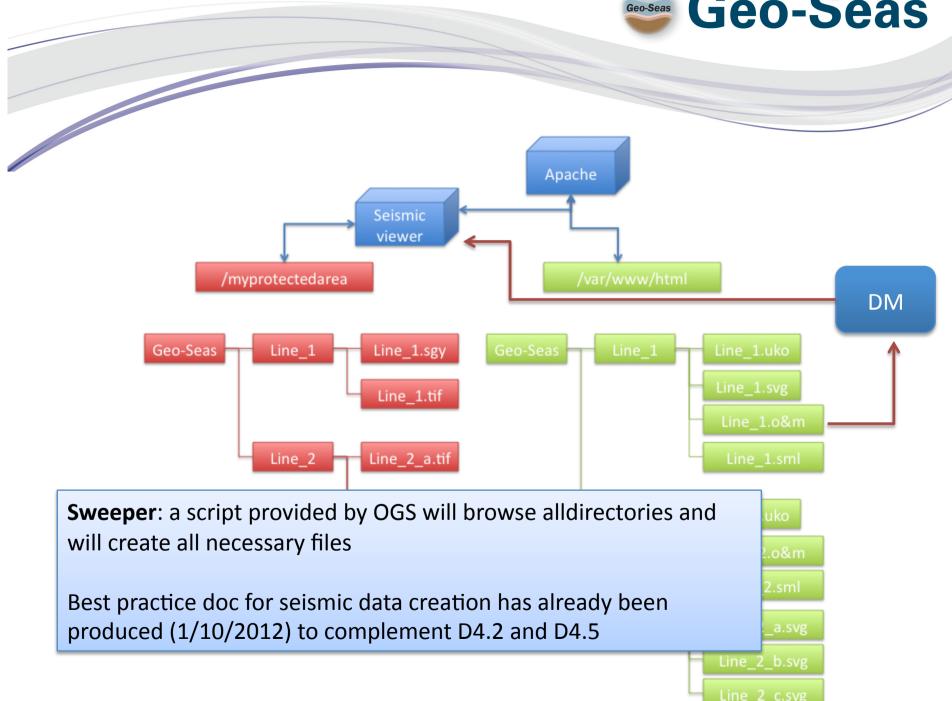
Several partners with CDIs ready, few with O&M and SensorML

Change in the perspective of integration from original path devised in D4.2

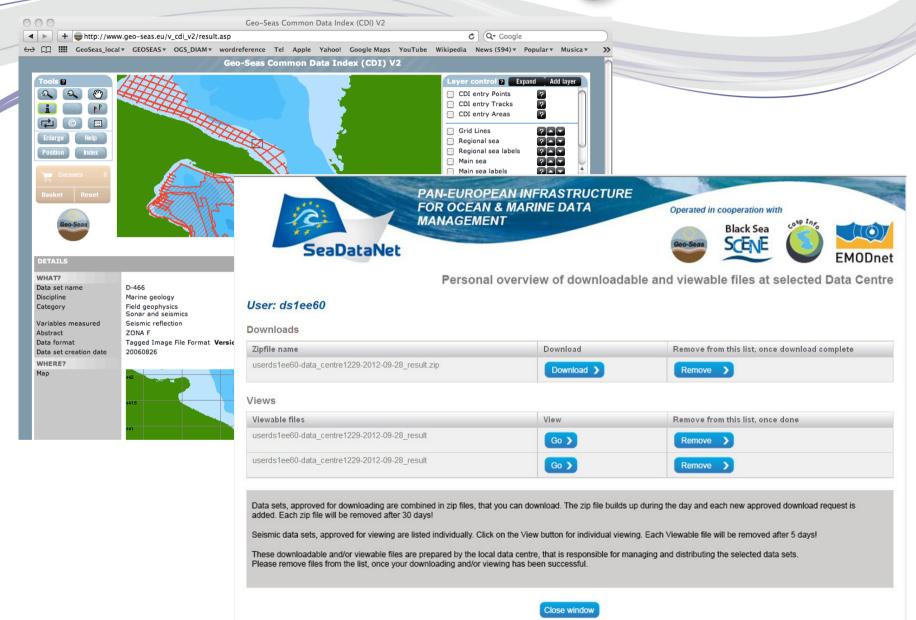
















### PAN-EUROPEAN INFRASTRUCTURE **FOR OCEAN & MARINE DATA** MANAGEMENT











Personal overview of downloadable and viewable files at selected Data Centre

### User: ds1ee60

30	MILES	load	6
20	VVII	luau	3

Zipfile name	Download	Remove from this list, once download complete
userds1ee60-data_centre1229-2012-09-28_result.zip	Download >	Remove

### Views

### Viewable files

userds1ee60-data centre1229-2012-09

userds1ee60-data\_centre1229-2012-09

Data sets, approved for downloading a added. Each zip file will be removed af

Seismic data sets, approved for viewing

These downloadable and/or viewable fi Please remove files from the list, once

### Download

userab123cd-data\_centre456-2010-02-24\_result.zip

userab123cd-data\_centre456-2010-02-23\_result.zip

userab123cd-data\_centre456-2010-02-22\_result.zip

**ABCDEF** 

ZYX

## Geo-Seismic Visualization

### **AZERTY Visualization**

**ABCDEF** 

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### PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

Operated in cooperation with







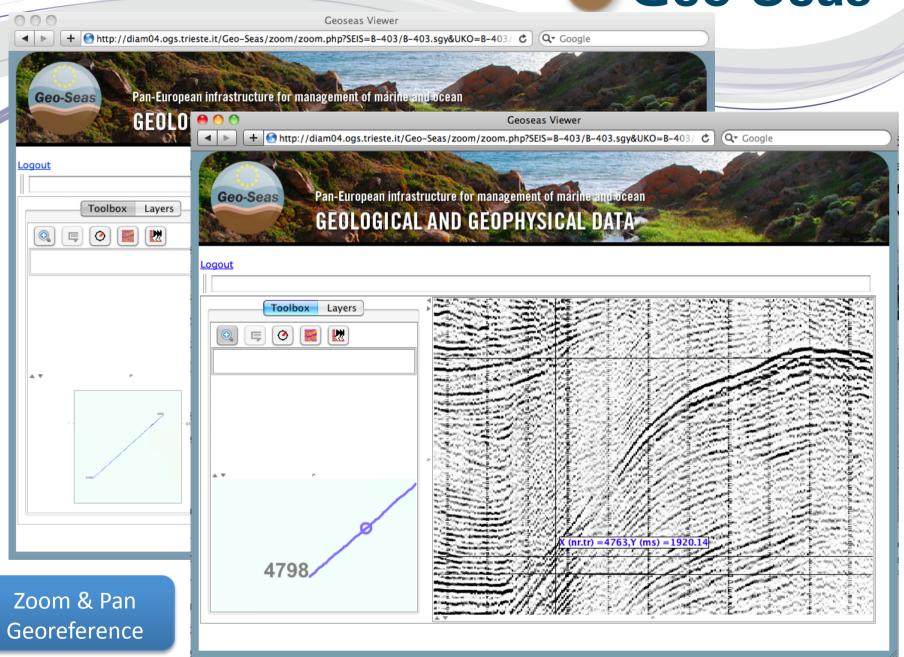


Personal overview of downloadable and viewable files at selected Data Centre

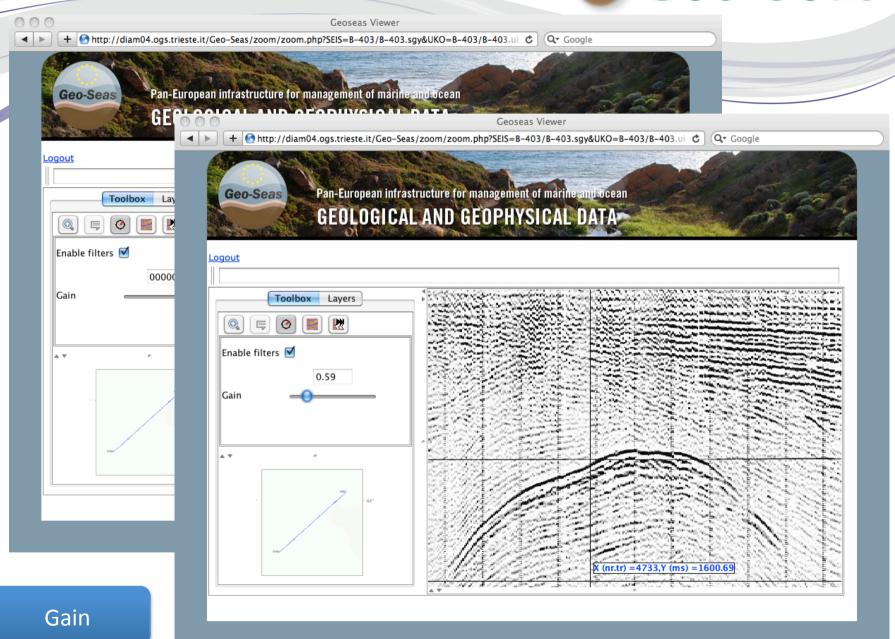
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VIEWER (HRSV)

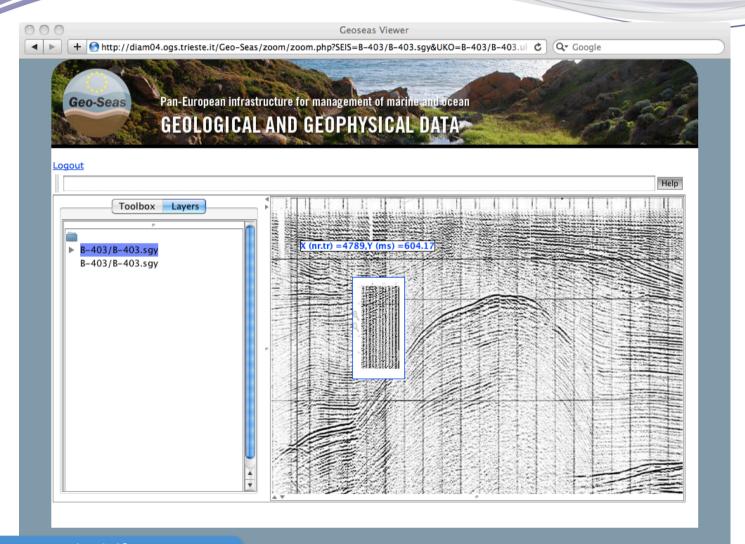












Layers with different presentations (wiggle, color...)

# Conclusions

# The seismic viewer:

- Allow end user to access directly data (visualization, QC, simple processing)
- Allow providers to control user access (identify users, grant different levels of access one by one)
- Is (will soon be) integrated with the Geo-Seas infrastructure



# THANK YOU