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## From the field to the database: a user-oriented approach to promote cyber-curating of scientific continental drilling cores

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### ► To cite this version:

Cécile Pignol, Elodie Godinho, Bruno Galabertier, Arnaud Caillo, Karim Bernardet, et al.. From the field to the database: a user-oriented approach to promote cyber-curating of scientific continental drilling cores. AGU Fall meeting, Oct 2017, San Francisco, United States. hal-01616086

**HAL Id: hal-01616086**

**<https://hal.science/hal-01616086v1>**

Submitted on 26 Feb 2019

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# From field to database : a user-oriented approach to promote cyber-curating of scientific continental drilling cores



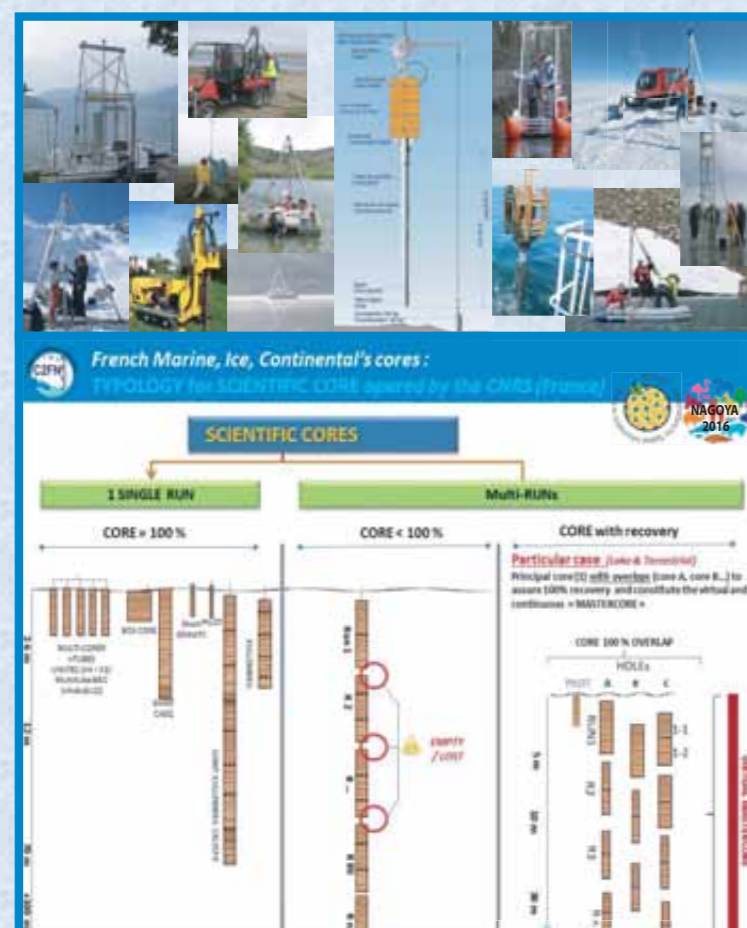
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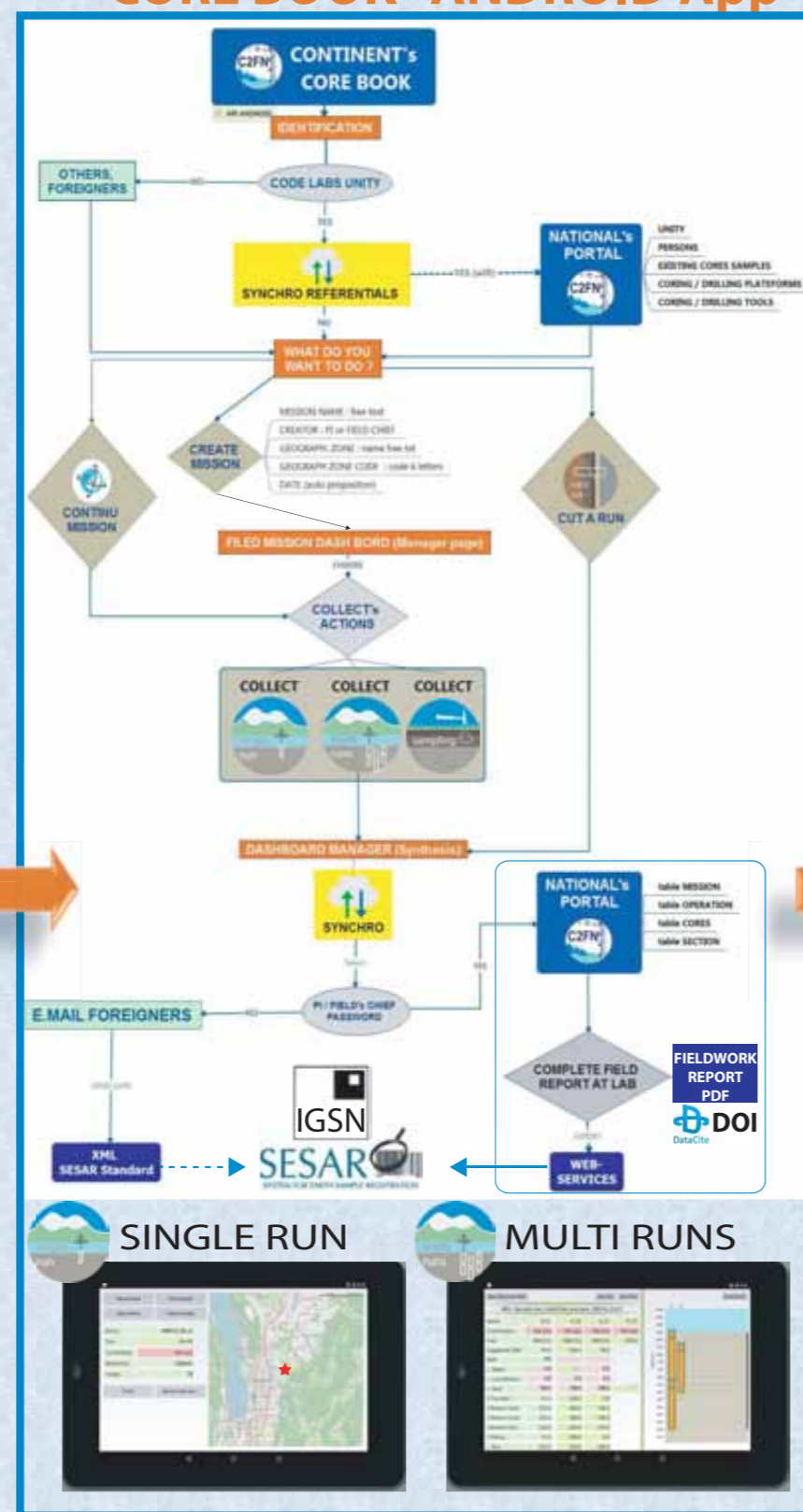
CLIMCOR national initiative aims at developing French facilities for scientific coring and drilling. It concerns indiscriminately ice, marine and continental samples. As part of this initiative, we initiated a reflexion about core curating and associated coring-data management. We hence aim at conserving all metadata from fieldwork in an integrated cyber-environment which could evolve toward laboratory-acquired data storage in the future. In that aim, our approach was conducted through a close relationship with field operators as well laboratory core curators in order to propose user-oriented solutions.

This project respects interoperability's standards and persistent's identifiers (DOI, IGSN, ISO19115/139).

## FIELDWORK

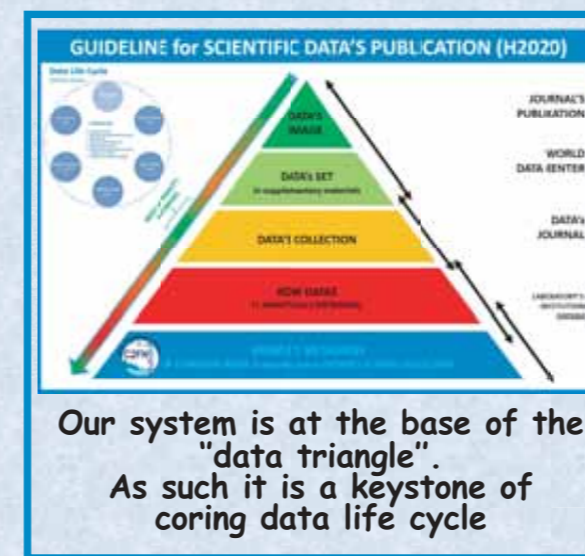


## USER-ORIENTED "CORE BOOK" ANDROID App



The mobile application "Core book" is the first stone of the building. It allows the captation of coring meta-data directly on the field.

It was developed in close collaboration with field operators in order to bring them a real support on the field and skip the fastidious step of feeding a database.



## Automatically feeds

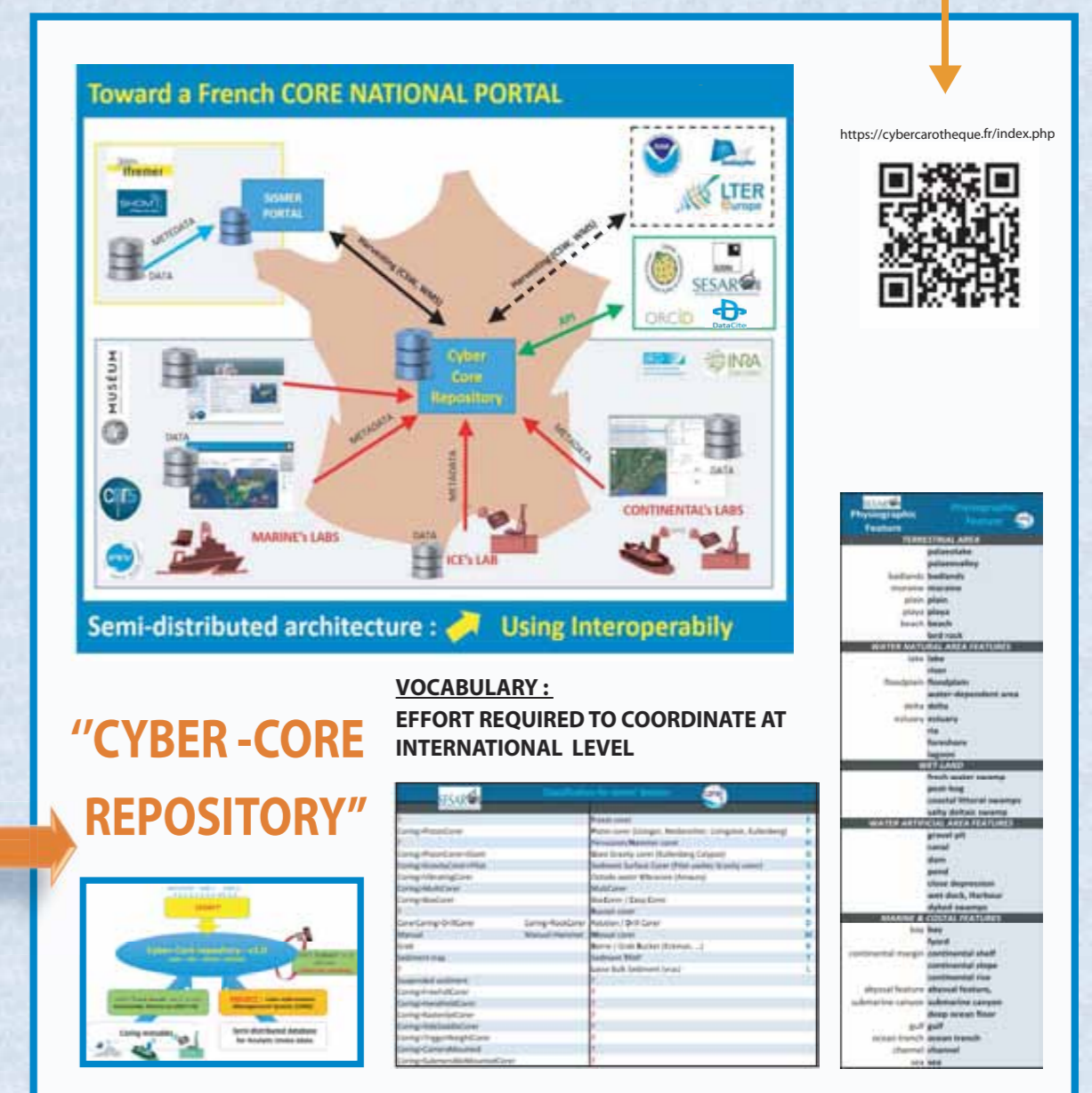
The national web portal "Cyber core repository" aims at gathering all metadata from any scientific coring operated by French teams.

Once gathered, the information are standardised and international persistent unique identifiers are attributed :

- DOI by campaign (by Datacite)
- IGSN for samples (by SESAR).

The metadata standard respects the European directive INSPIRE for cataloguing ISO 19115 / 19139

## METADATA WEB PORTAL



## "CYBER-CORE REPOSITORY"

### Next steps :

- Continue to disseminate new practices and interest in our community, 'from the field to the labs'
- Integrate international databases and catalogues (NOAA's IMLGS, LThER-e DEIMS)
- Running LThER project : publishing selected reference data using Linked Open Data (Concept of the 'Retro-observatory')

To get the cores ... ..and to provide curation... ..of the best quality...