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From core referencing to data re-use: two French national initiatives to reinforce paleodata stewardship (National Cyber Core Repository and LTER France Retro-Observatory)

Fabien Arnaud, Cécile Pignol, Pierre Stéphan, A.L. Develle, P. Sabatier, O. Evrard, Brice Mourier, Maxime Debret, Cécile Grobois, Laurent Millet, et al.

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<https://hal.science/hal-01616109v1>

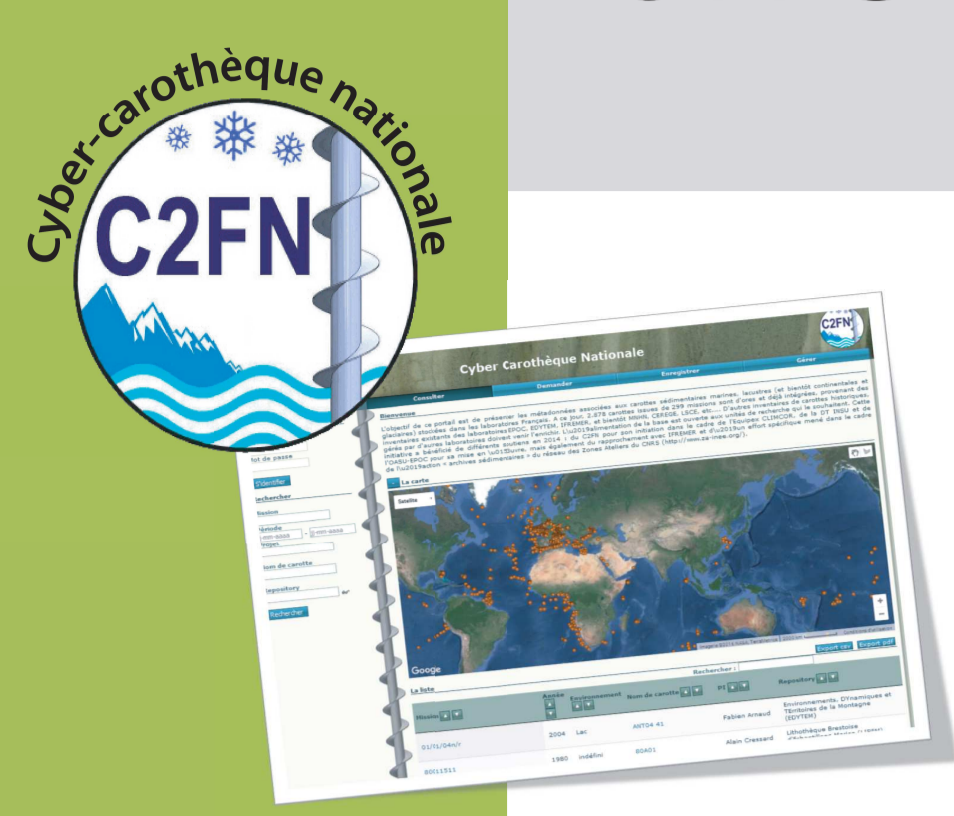
Submitted on 26 Nov 2019

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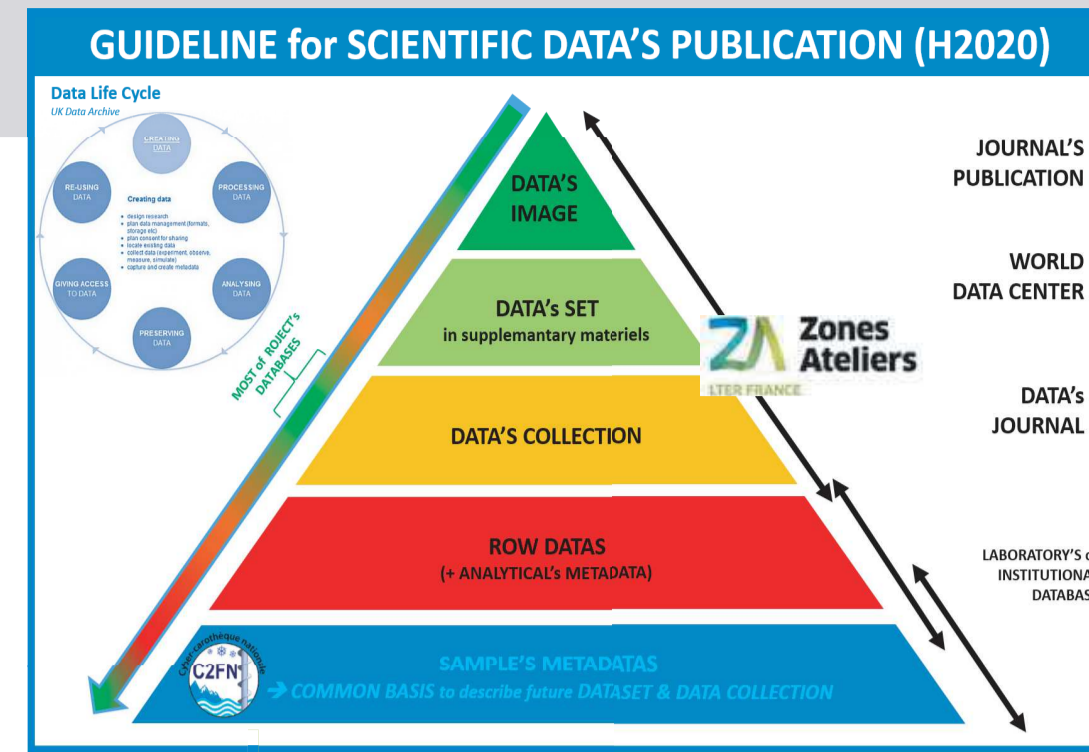
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FROM CORE REFERENCING TO DATA RE-USE :

two french national initiatives to reinforce paleodata stewardship



National Cyber Core Repository



LTER France
Retro-Observatory
"ROZA Project"

Data selection

SITES & CORES

2015

Reference's Sites

PRIMARY DATA (mandatory)

- PHOTO & LOG
- AGE MODEL (radionuclide)
- LOGGING (XRF)
- GRANULOMETRY
- LOSS and IGNITION

OTHERS DATAS (optional)

OTHERS ANALYSIS

Data standardisation

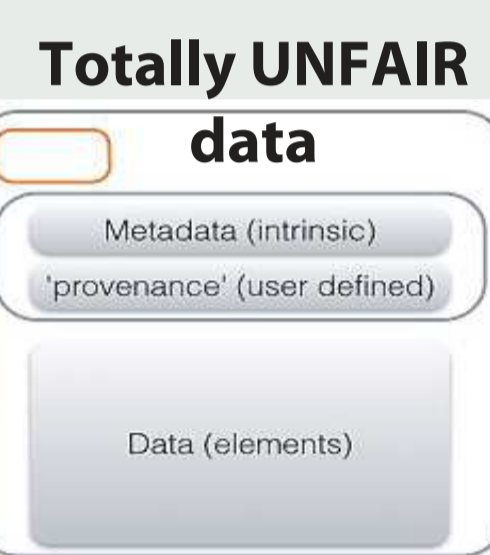
Core description



Campaign report



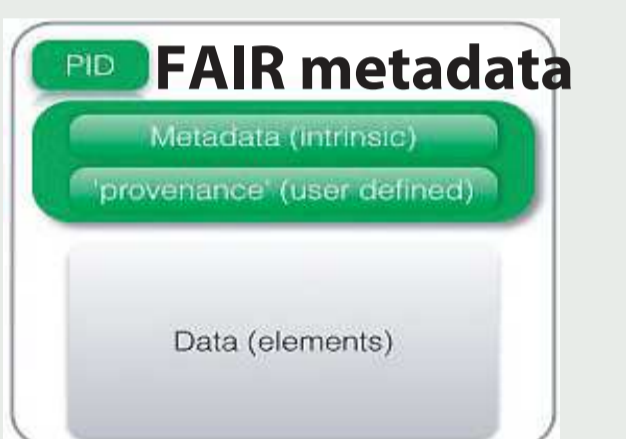
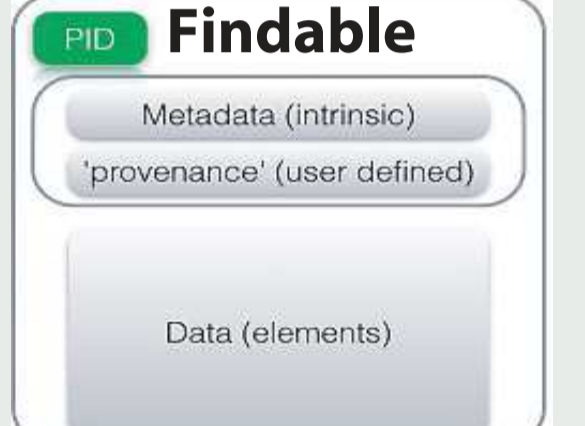
2016



PROTOCOLS + VARIABLES

- Which analysis
- Protocole description
- Analytical device parameters
- Description of variable, unity
- Reuse (licence, citation)
- Publication DOI and/or Dataset DOI

Usable for human



Data gathering procedure

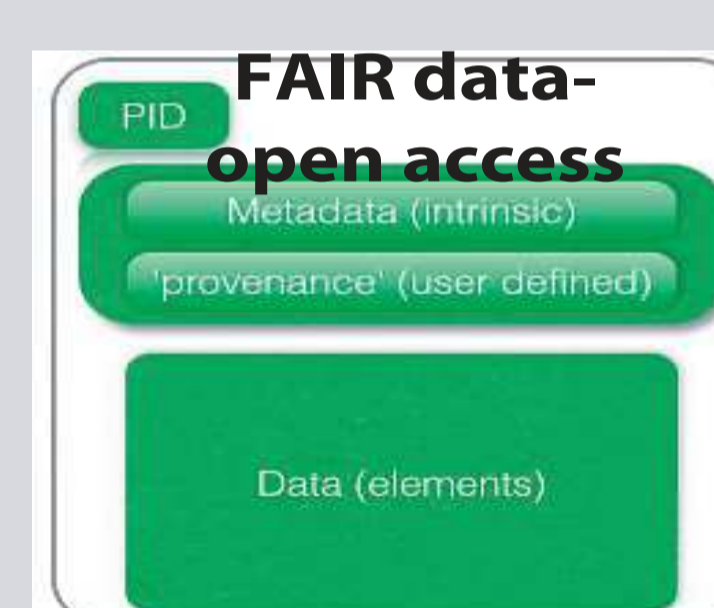
C2FN Core Book or Import core legacy



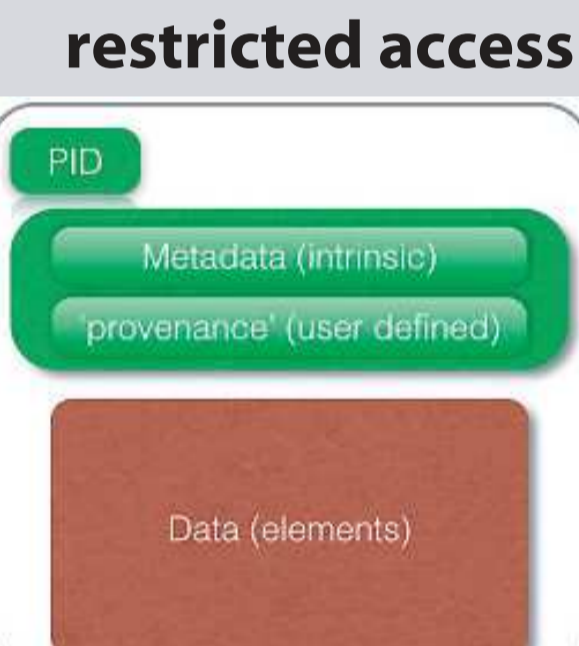
2017



Project-oriented gouvernance
Portal LTER France



FAIR data-restricted access

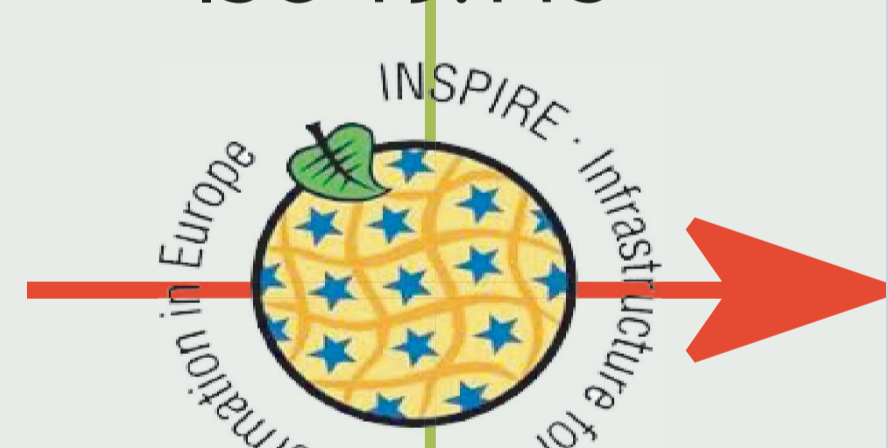


Data display

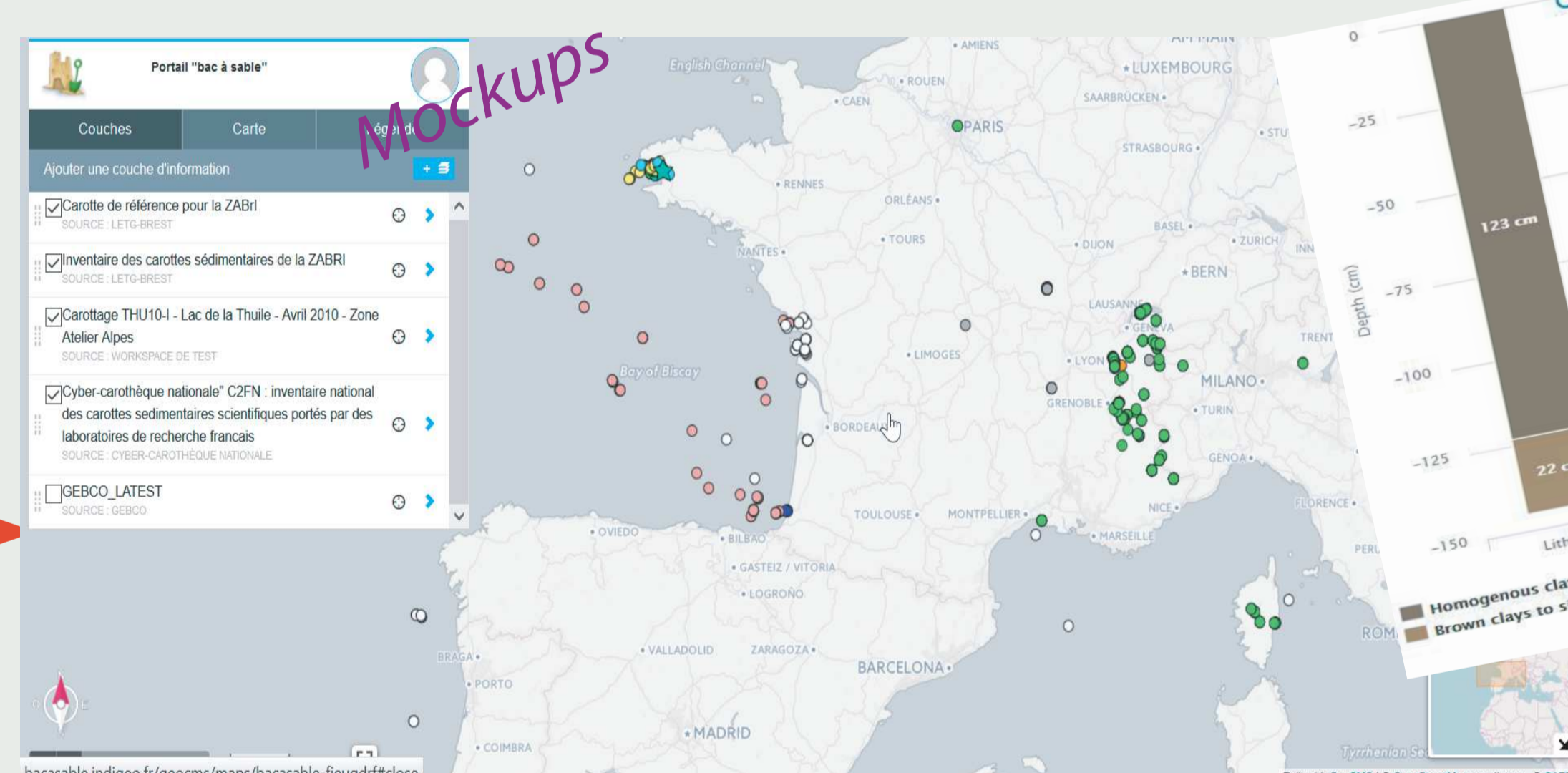


2017/18

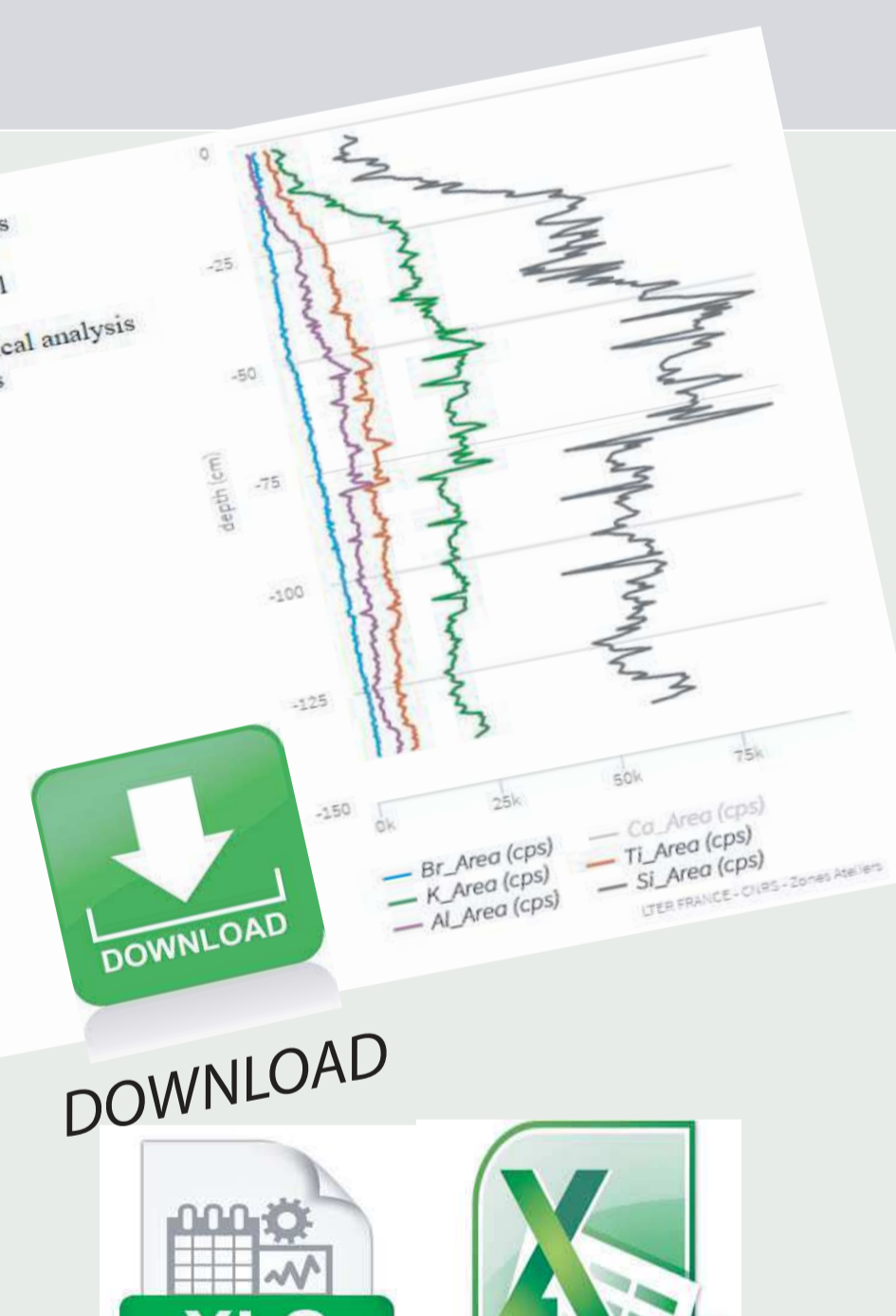
Cataloguing ISO 19.115



Webservice WFS ISO 19.139



geoOrchestra System (GeoServer/geoCMS/manageCHART)



DOWNLOAD

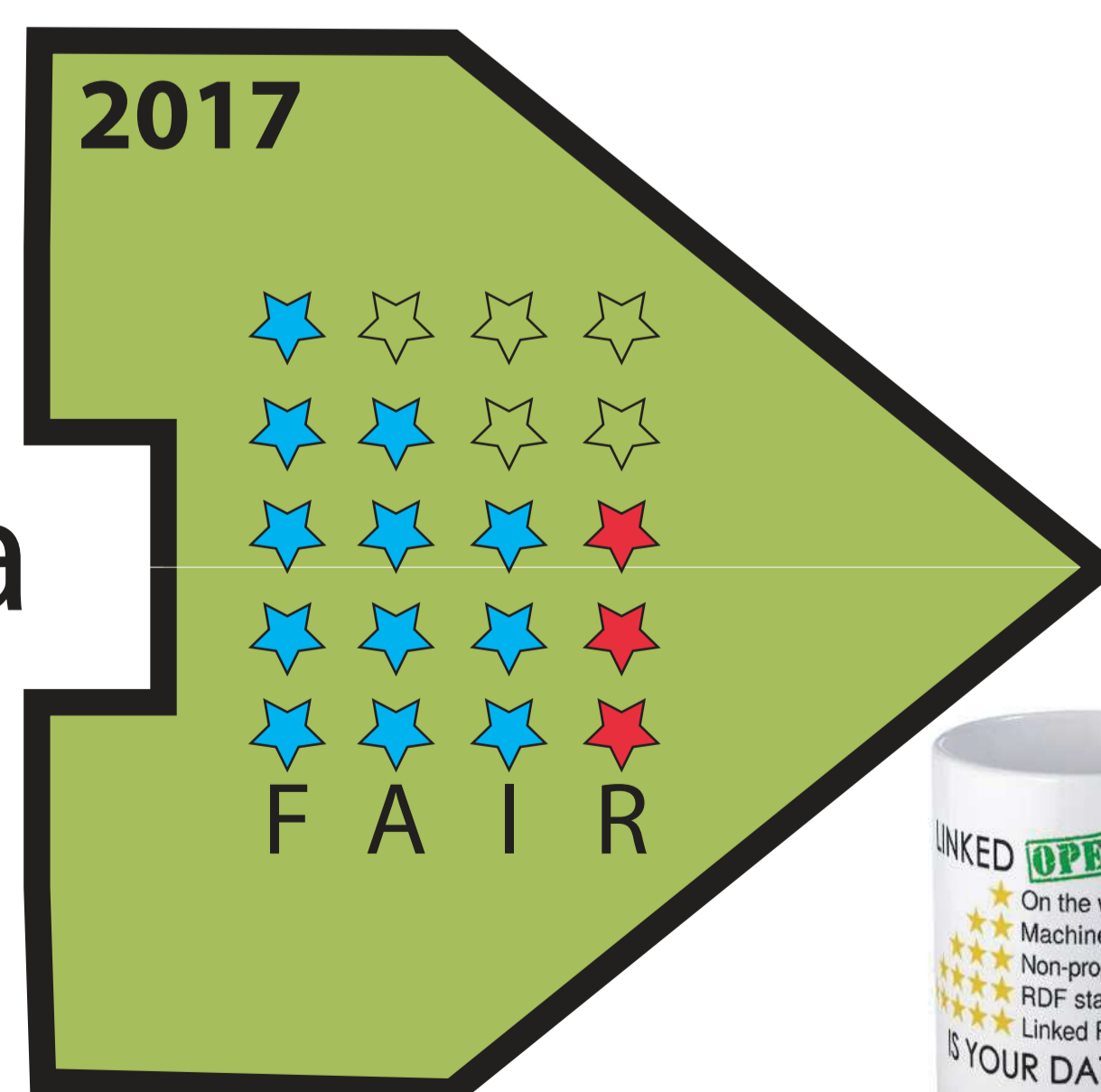


ISO 19.110

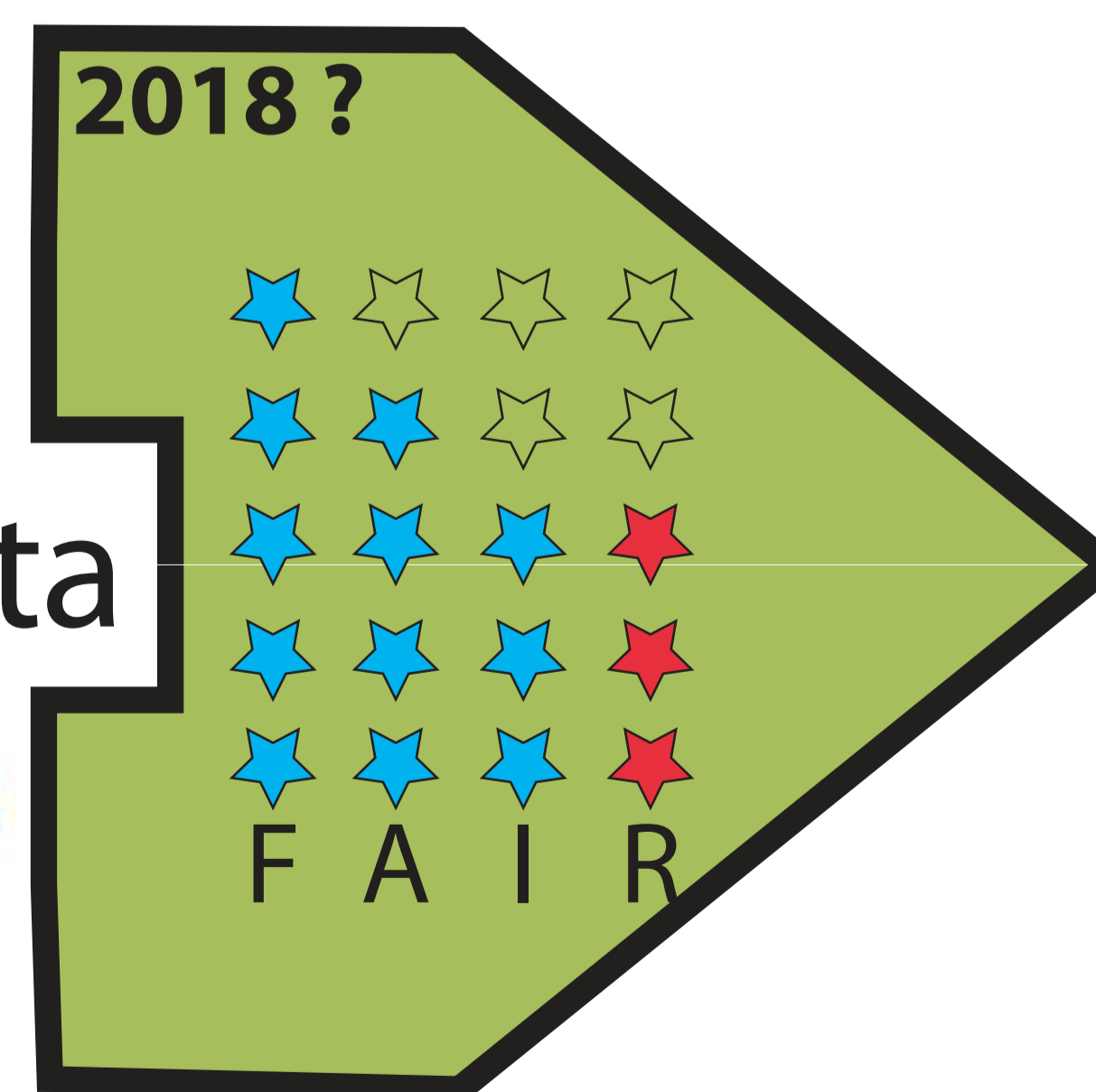
In 2020, we'll be F.A.I.R. ! Findable, Accessible, Interoperable, Reusable

H2020 v3.0, 2016 Principale guide line / Wilkinson, M. D. et al. The FAIR Guiding Principles for scientific data management and stewardship. Sci. Data 3:160018 doi: 10.1038/sdata.2016.18 (2016). https://www.force11.org/fairprinciples

Fieldwork data



Analysis data



Data mining
Data processing
Modeling



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