



## ANCHORING UNSORTED E-SOURCES ABOUT HERITAGE ARTEFACTS IN SPACE AND TIME

Gamze Saygi, Jean-Yves Blaise, Iwona Dudek

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Modèles et simulations pour l'Architecture et le Patrimoine  
Centre National de la Recherche Scientifique





## MINOR HERITAGE ?

“All details of life and history of a region, accumulated down the ages, leaving its traces in the culture and architecture, the land and objects of everyday life — **all these things which slip through the classifications heritage programs, and documentation initiatives** — all these can be considered our *Minor Heritage*...”

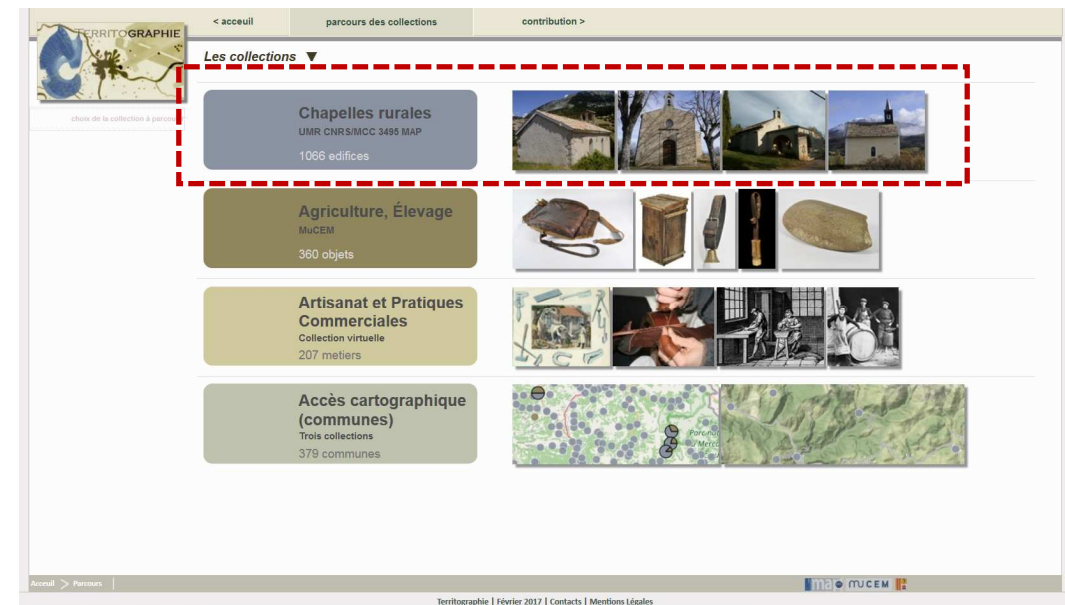




*Collobration with E. de Laubrie*



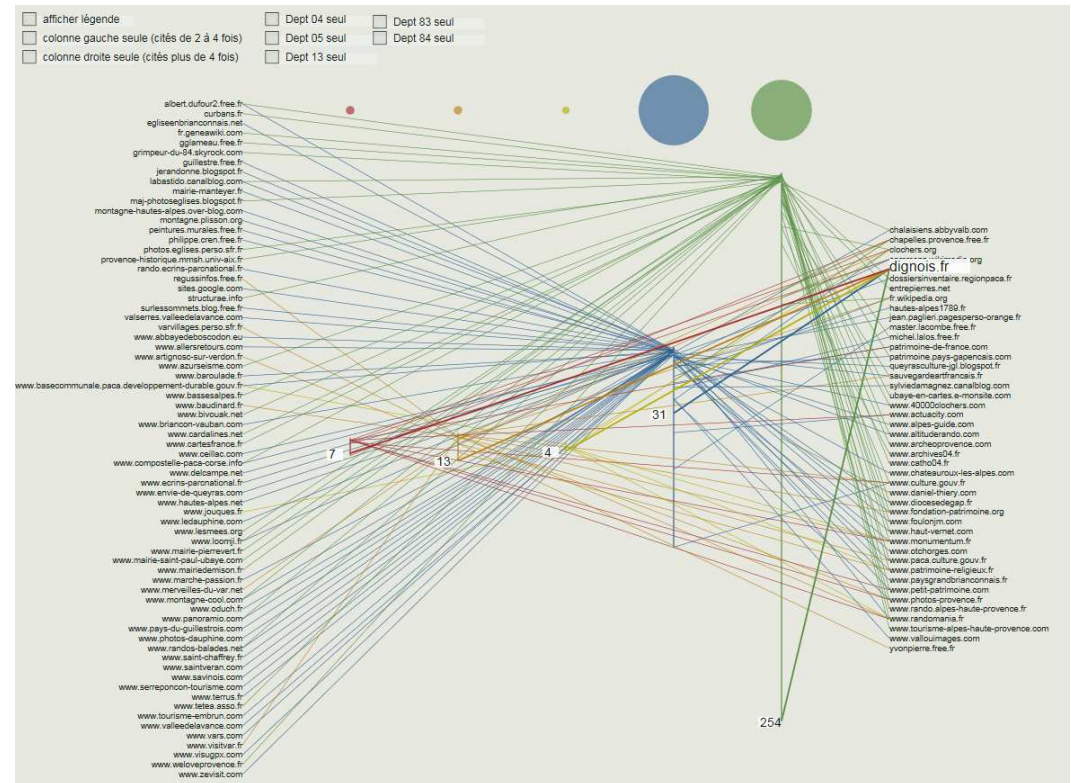
- Questions the relevance and benefits of the **citizen science paradigm** in the specific context of **minor heritage collections**.
- Aims at designing **geo-visualization solutions** suitable to the nature of minor heritage with a focus on **spatial and temporal aspects**.
  - uncover illiterate information patterns and correlations



<http://www.map.cnrs.fr/territographie>

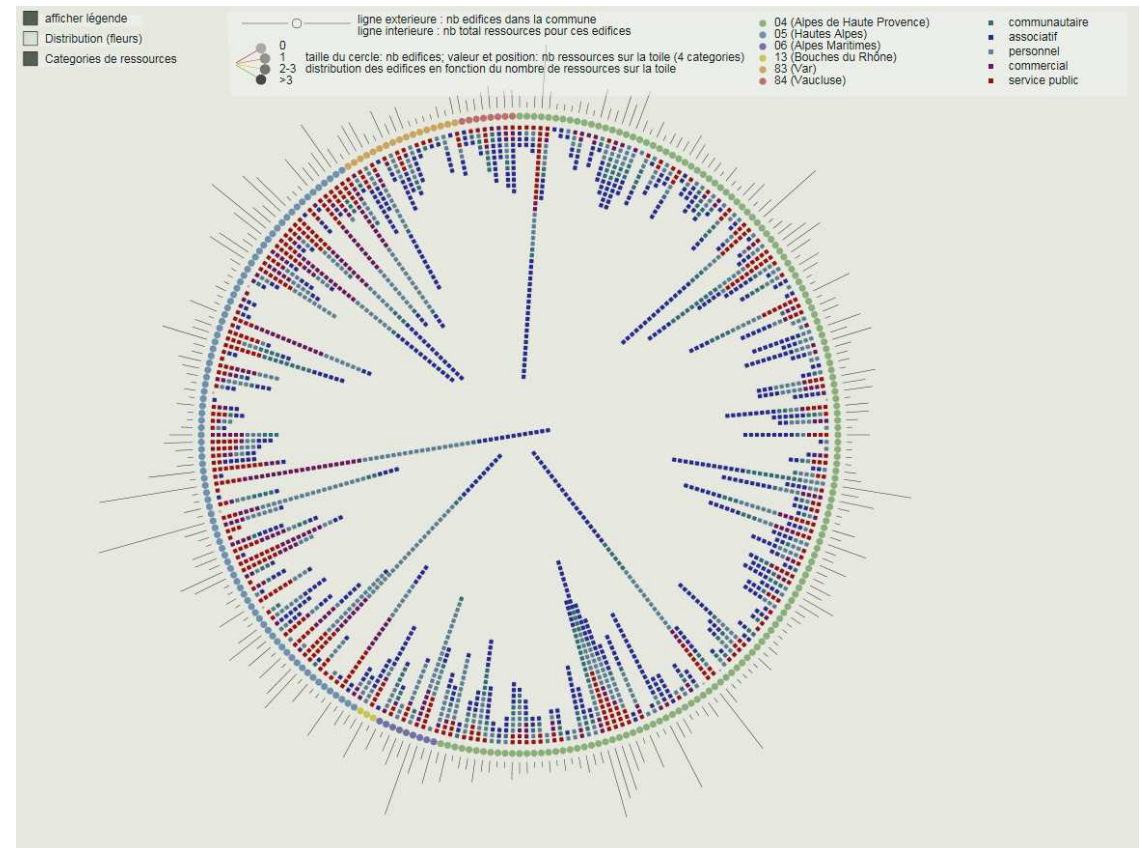
## MINOR HERITAGE > CITIZEN SCIENCE ?

### ■ deciphering the context of « human »



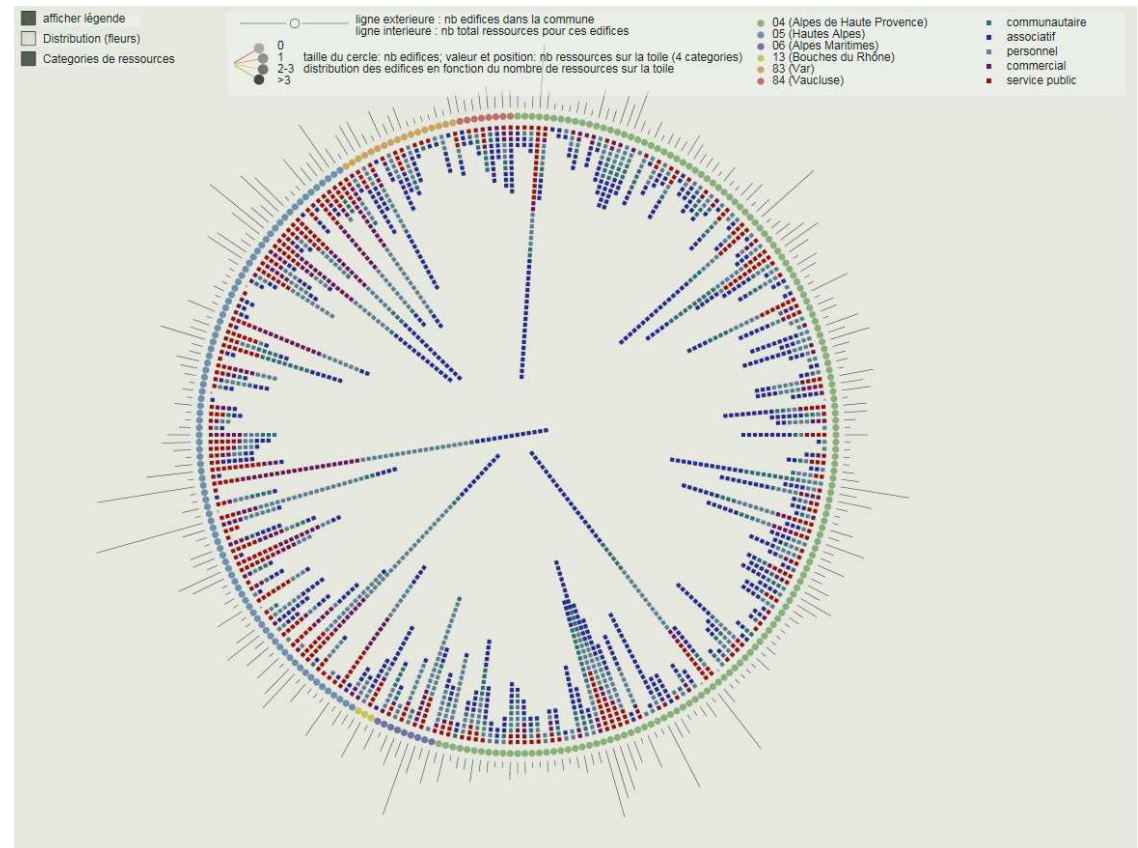
## MINOR HERITAGE > CITIZEN SCIENCE ?

- massive datasets (1000+ rural chapels & +2500 e-sources)
- heterogeneity in collections (determinacy & origin)
- enrichment by local actors
- spatio-temporal aspects
- assessing the potential benefits and pitfalls



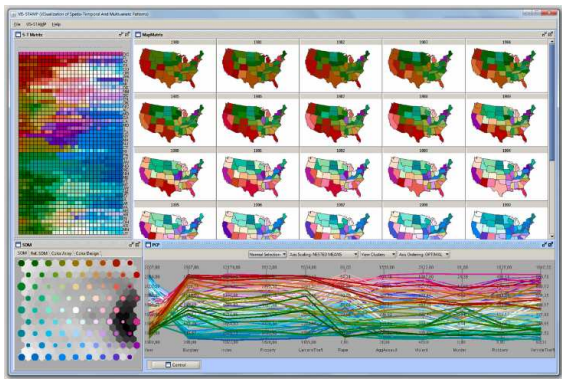
## MINOR HERITAGE > CITIZEN SCIENCE ?

- pulling together large and unsorted data sets
- developing means to structure that data
- designing solutions allowing **comparative reasoning**

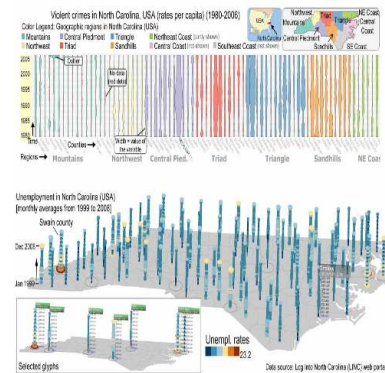




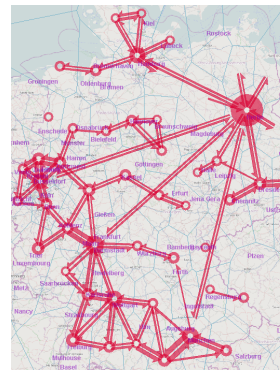
7 ANCHORING UNSORTED E-SOURCES ABOUT HERITAGE ARTEFACTS IN SPACE AND TIME STATE-OF-THE-ART



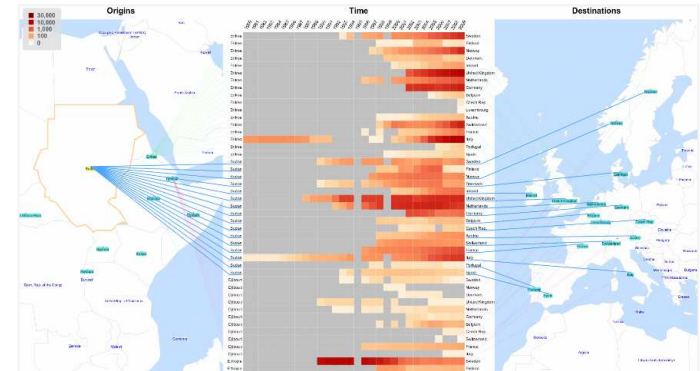
Guo et al. (2006)



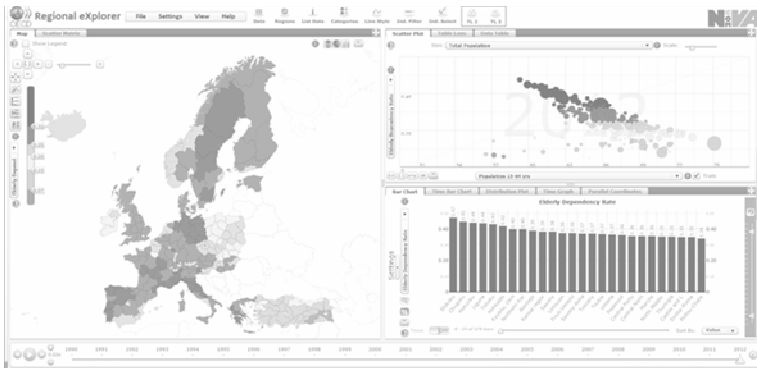
Thakur&Hanson (2010)



Andrienko&Andrinko (2011)



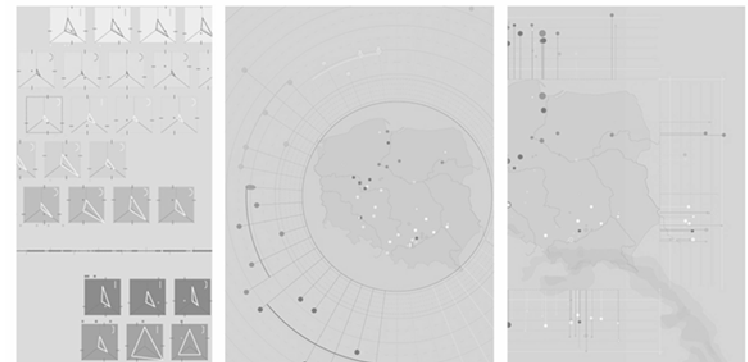
Boyardin et al. (2011)



<http://stats.oecd.org/OECDregionalstatistics/#story=0>

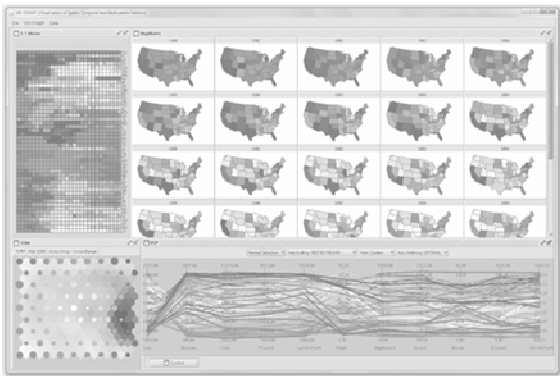


<http://whc.unesco.org/en/interactive-map/>

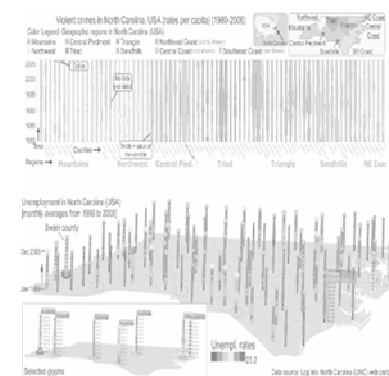


Blaise&Dudek (2013)

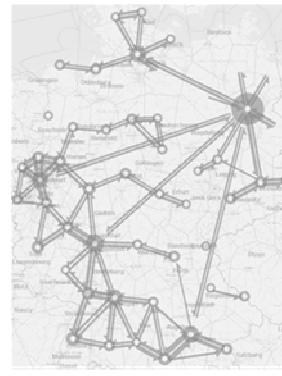
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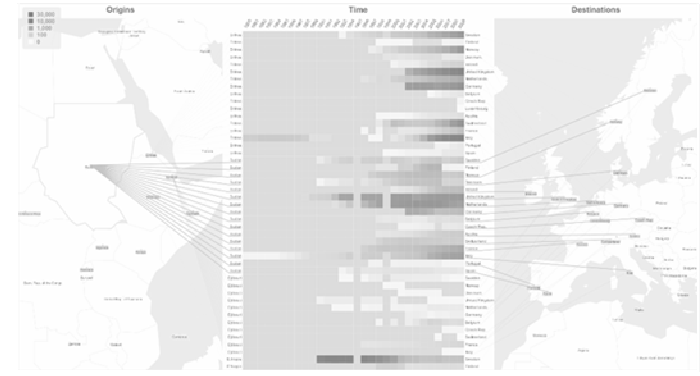
Guo et al. (2006)



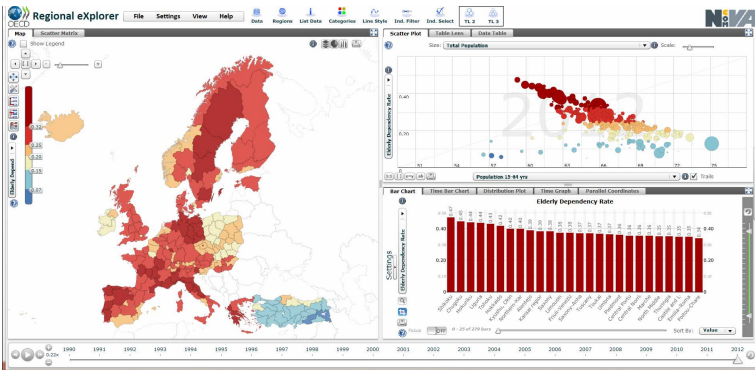
Thakur&Hanson (2010)



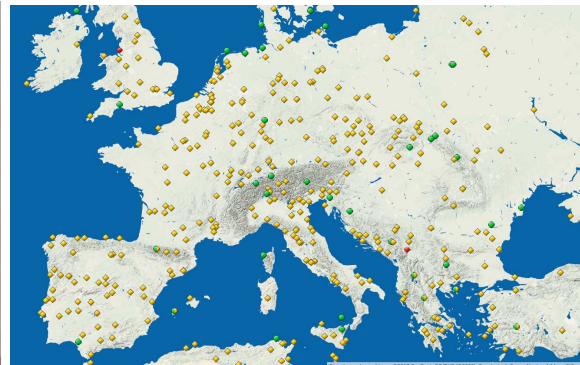
Andrienko&Andrinko (2011)



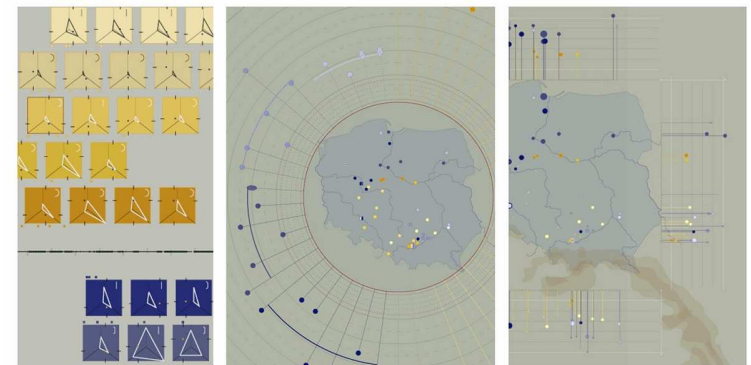
Boyandin et al. (2011)



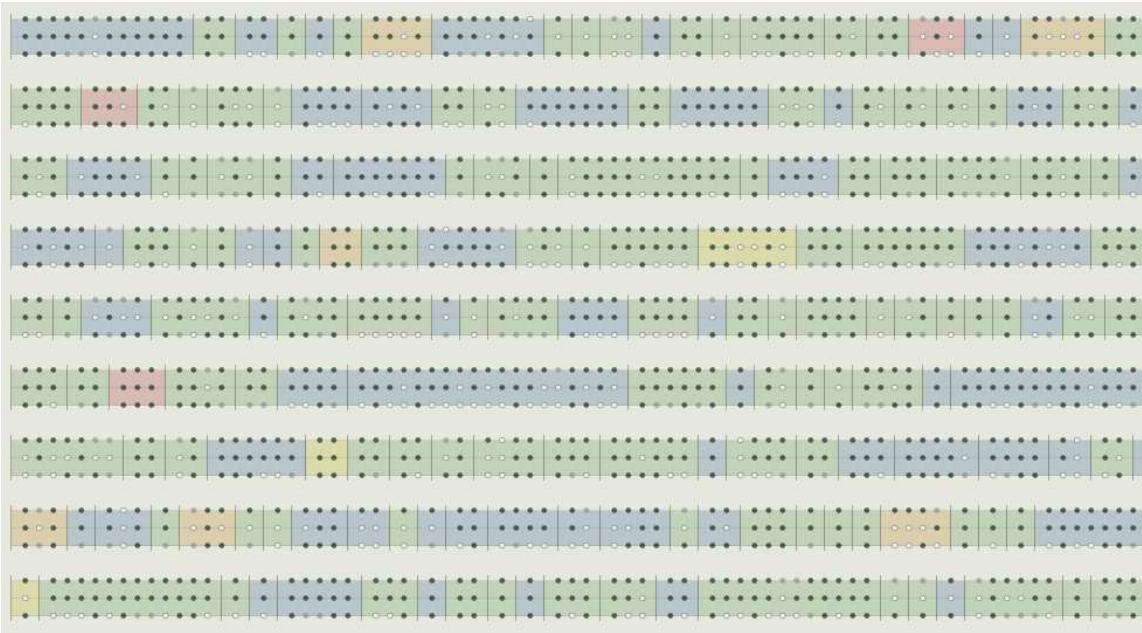
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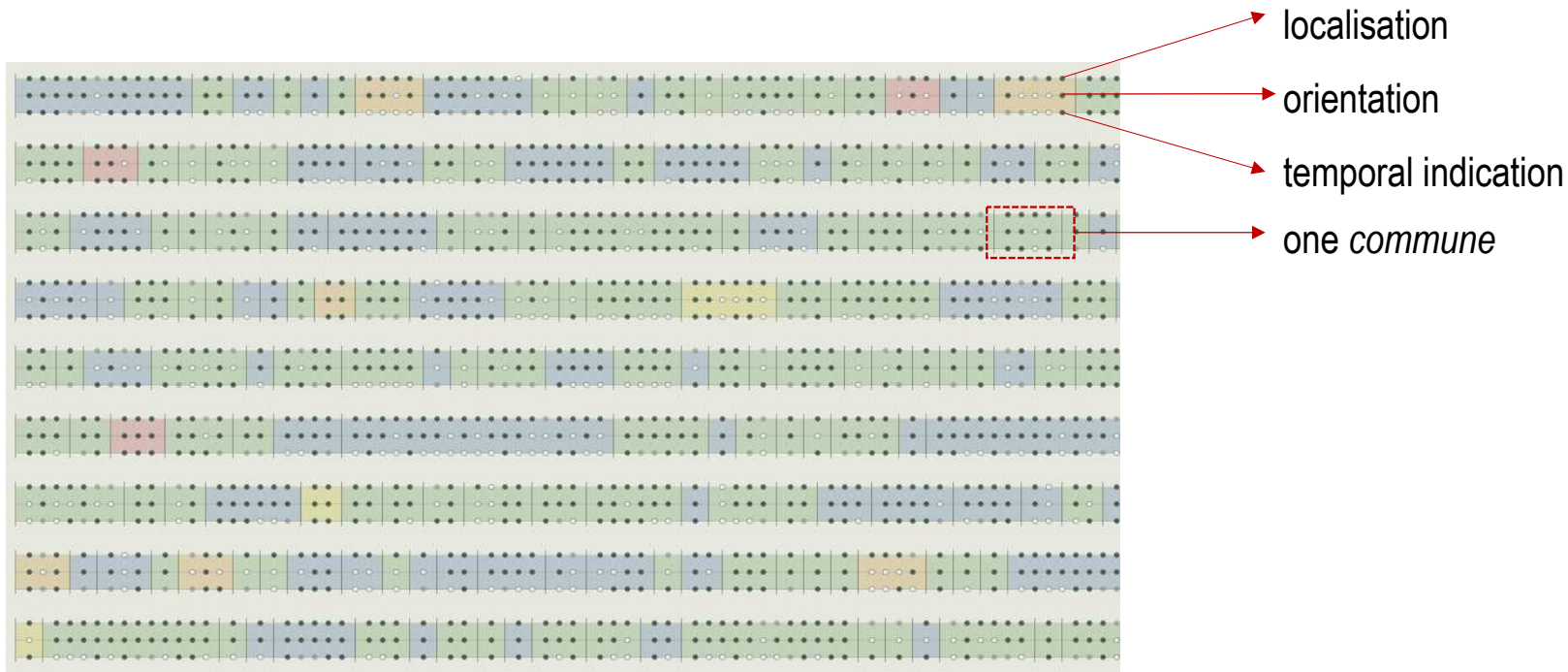
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Blaise&Dudek (2013)

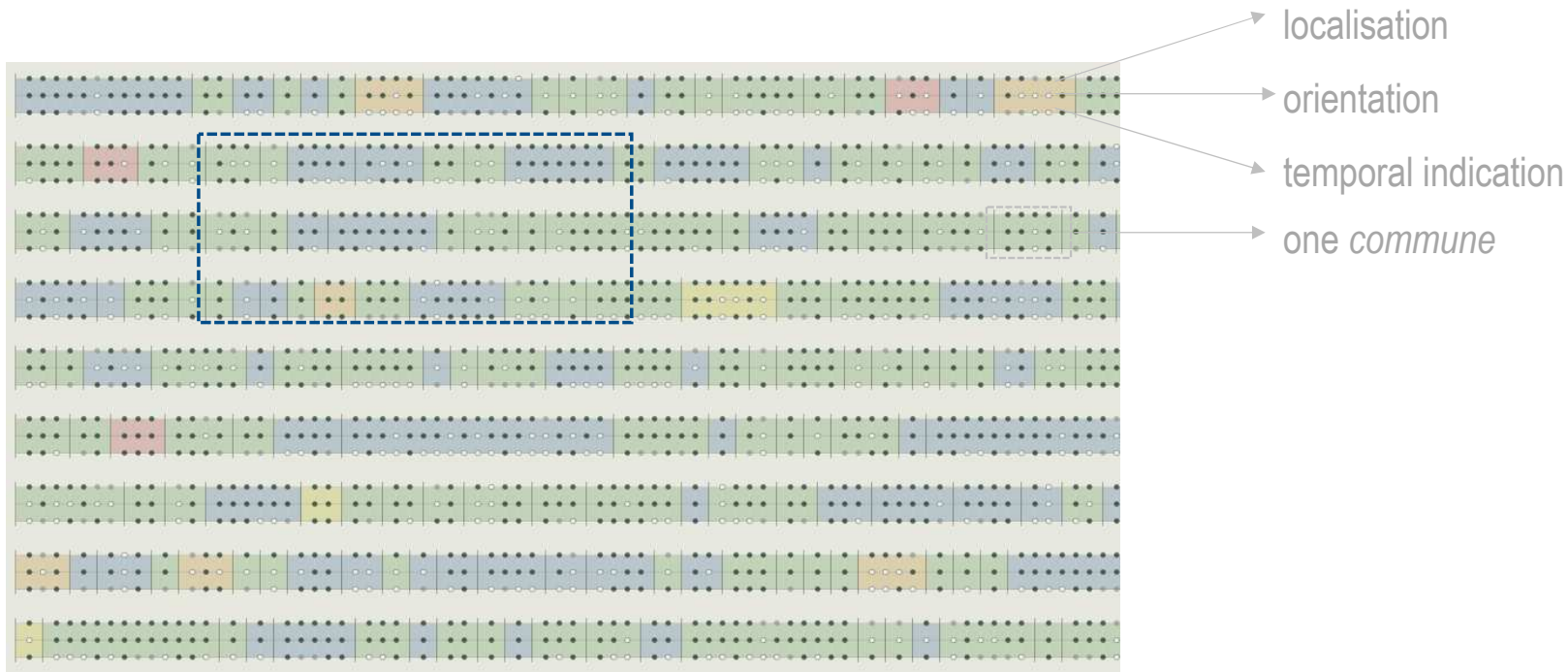


data quality diagram



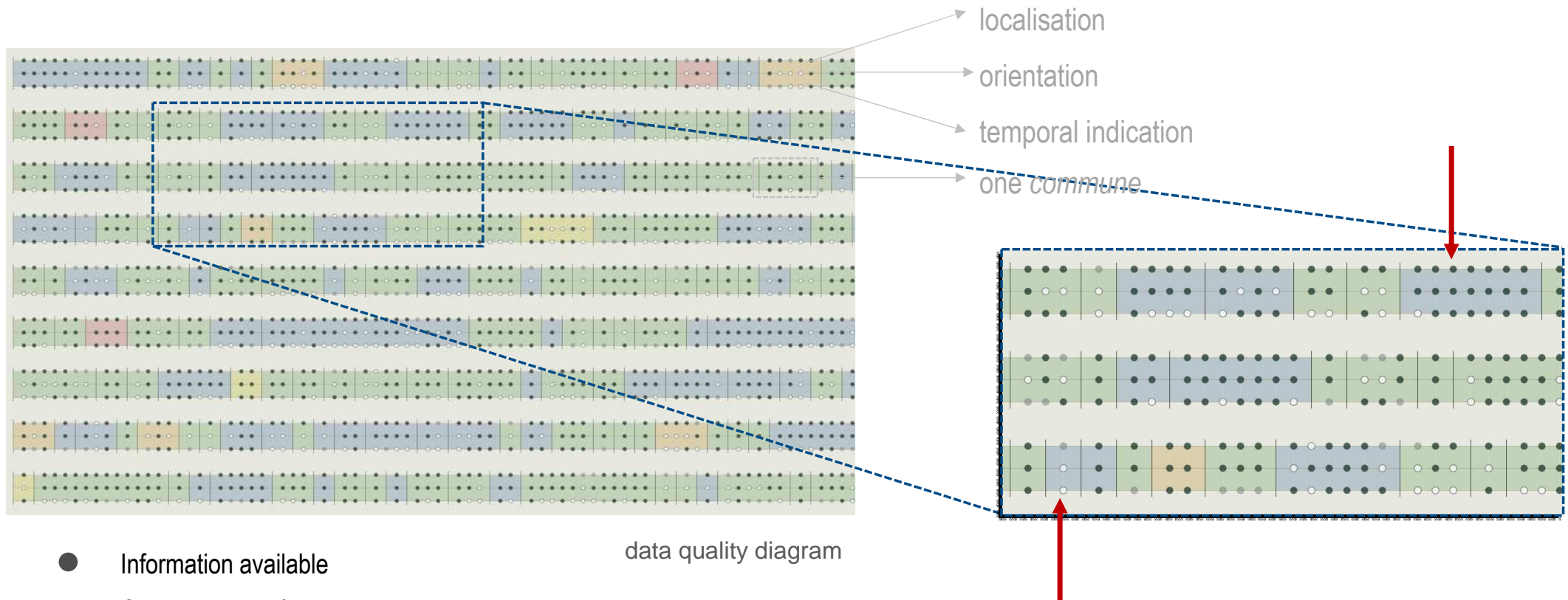
- Information available
- Contradictory information
- No information

data quality diagram



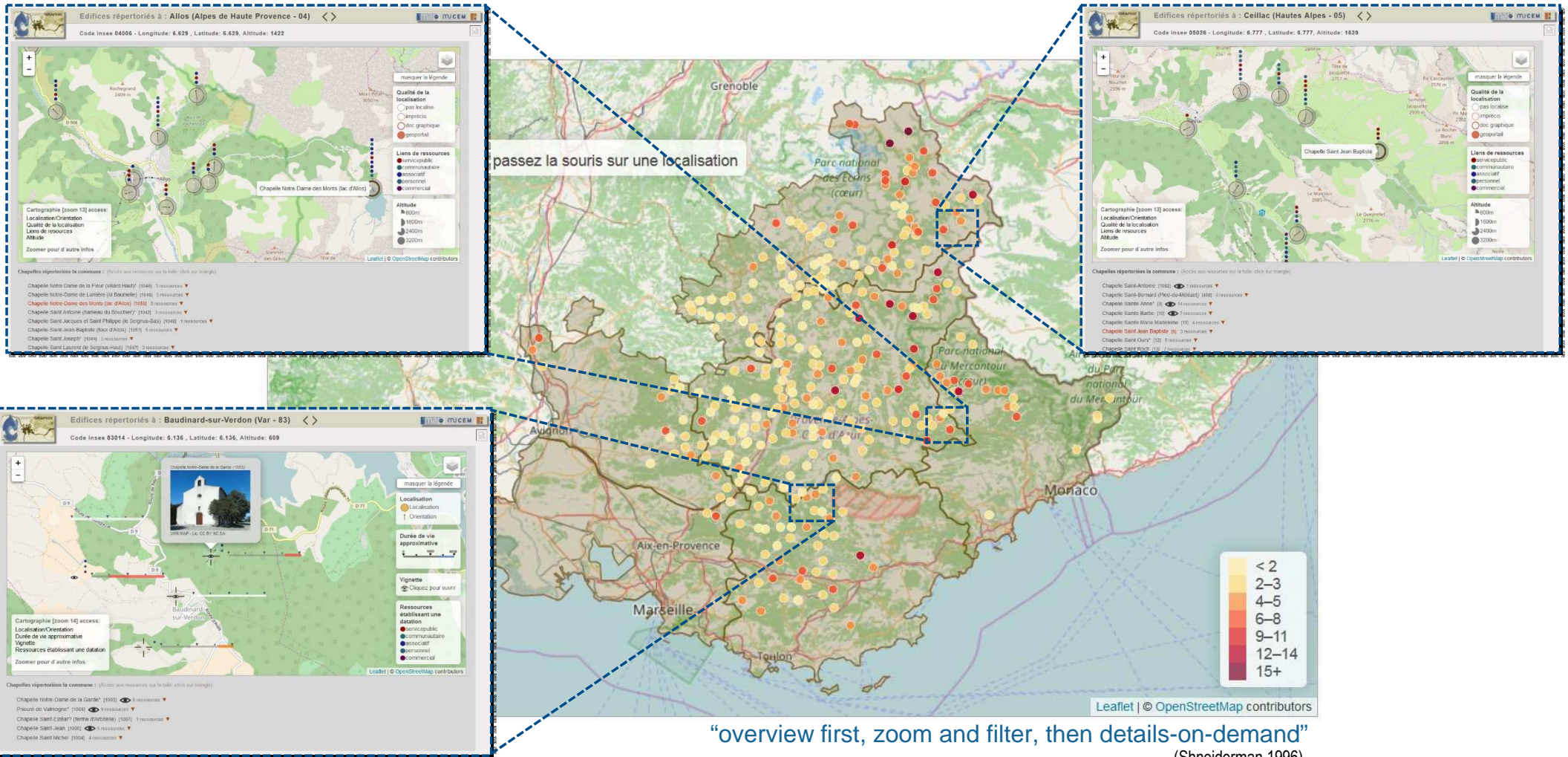
- Information available
- Contradictory information
- No information

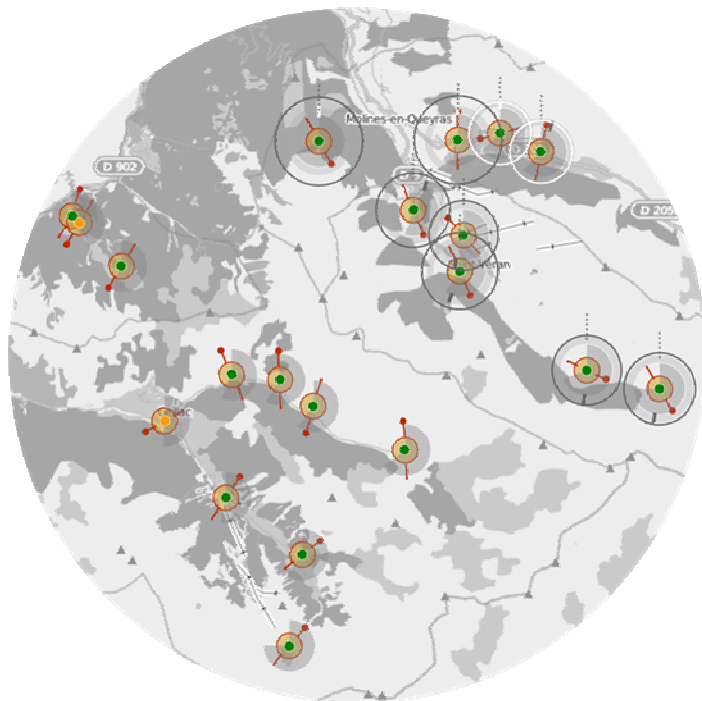
data quality diagram



- Information available
- Contradictory information
- No information

# 9 ANCHORING UNSORTED E-SOURCES ABOUT HERITAGE ARTEFACTS IN SPACE AND TIME GEO-VISUALIZATION



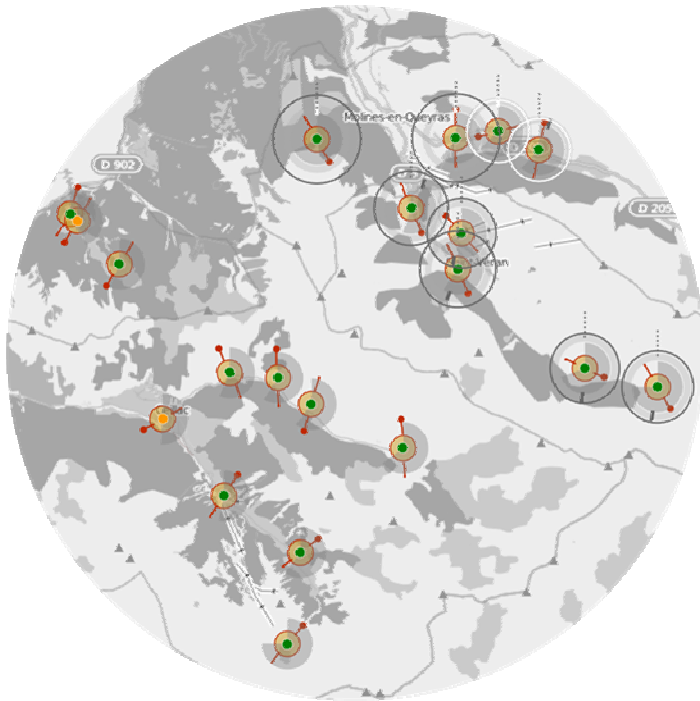


## INFORMATION FILTERING BY:

- typological markers
- geographical location and its quality
- orientation
- altitude
- imagery
- layers of temporal information

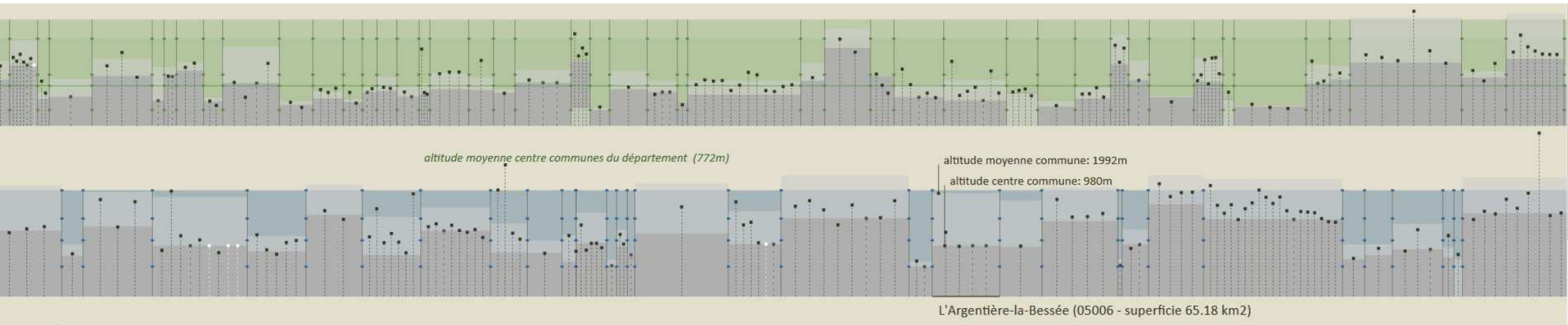
+ their mutual combinations



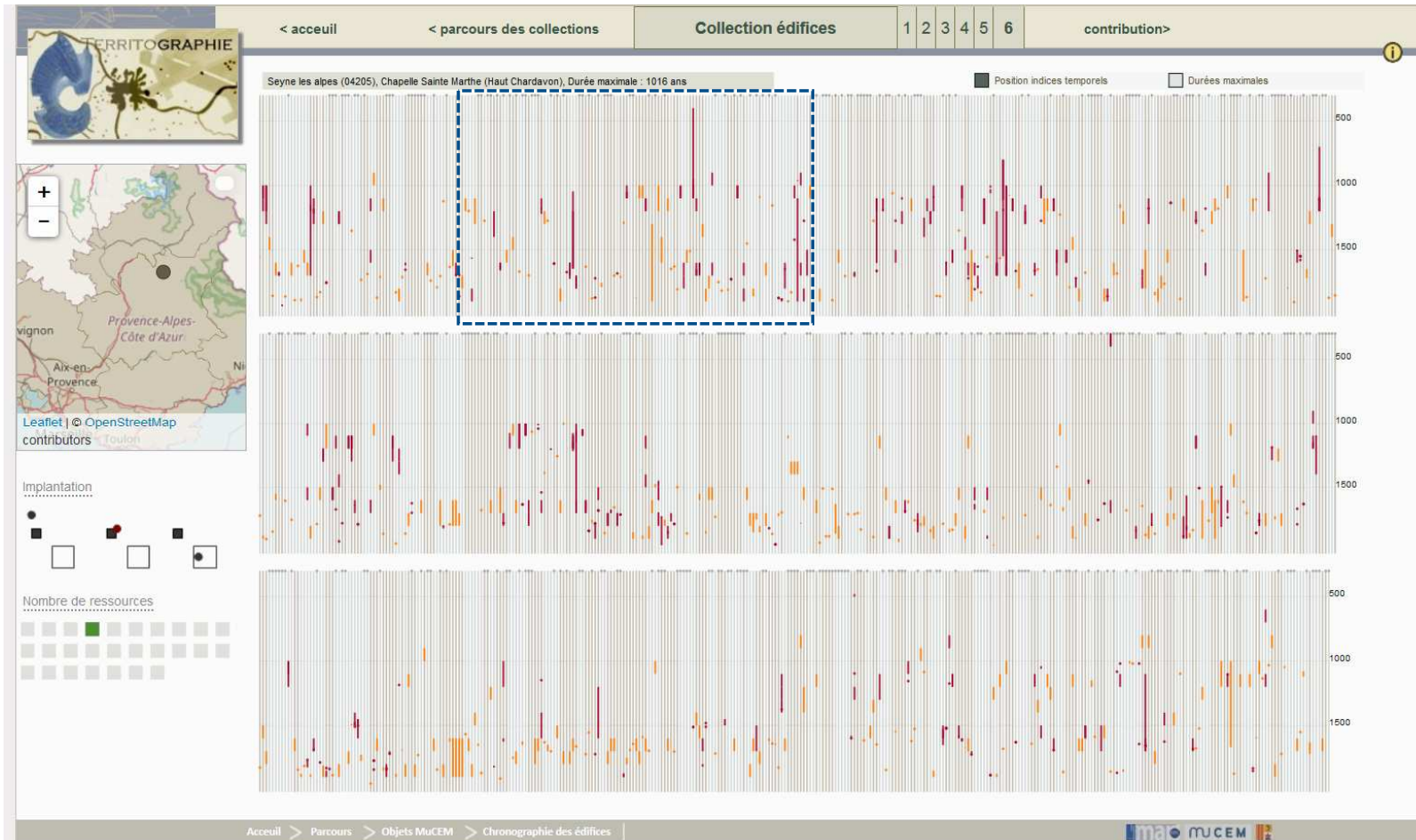


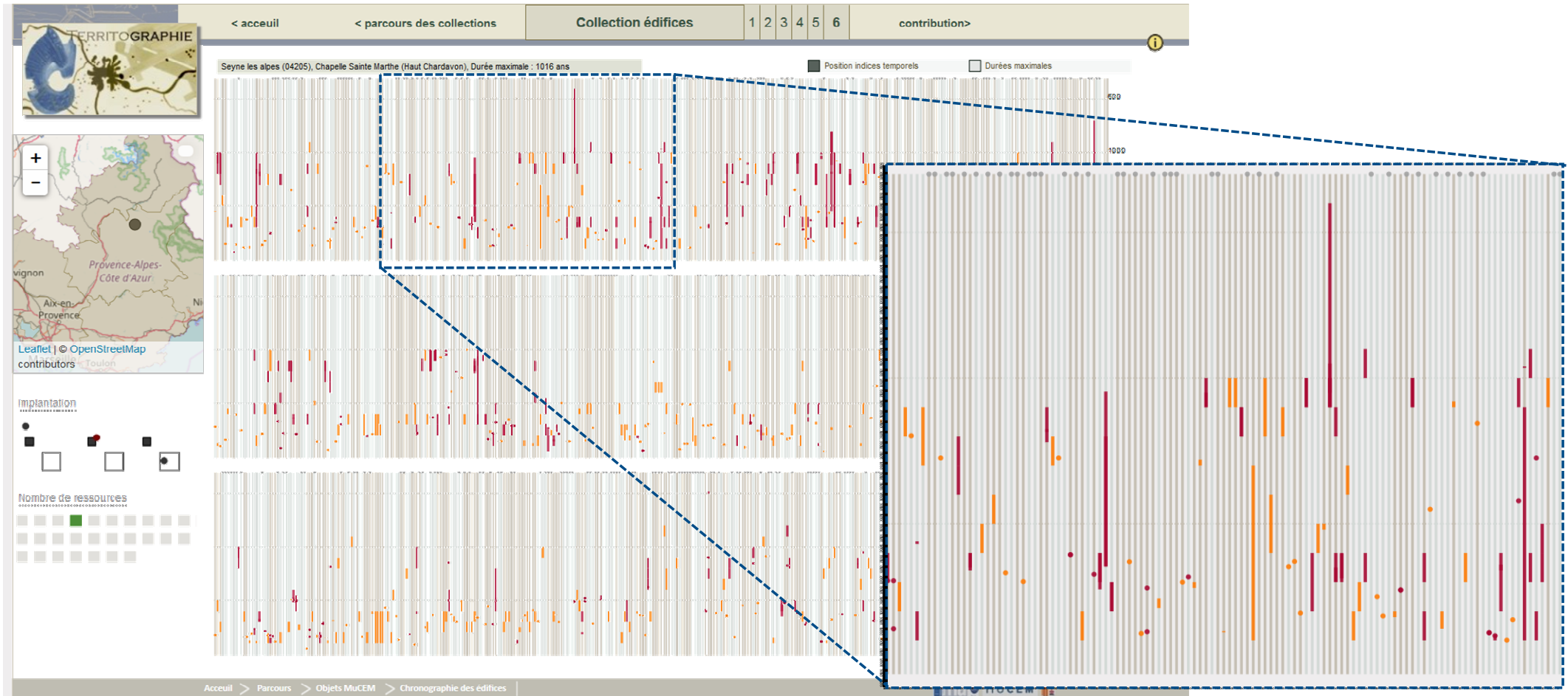
### THE SPACE+TIME GEO-VISUALIZATION SOLUTION SUPPORTS

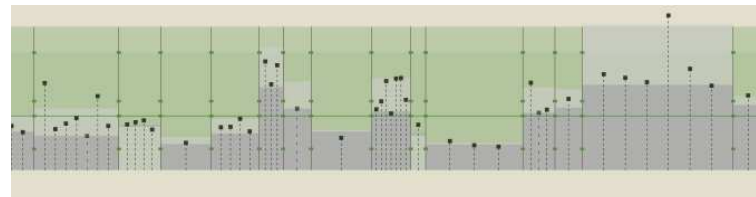
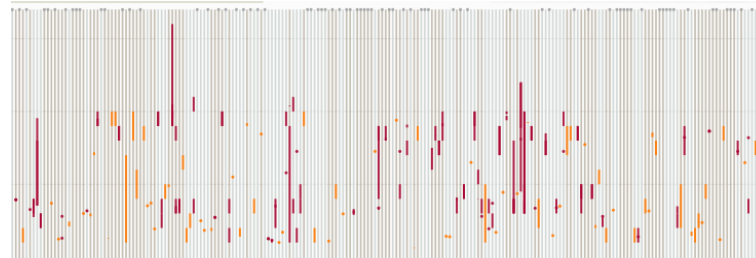
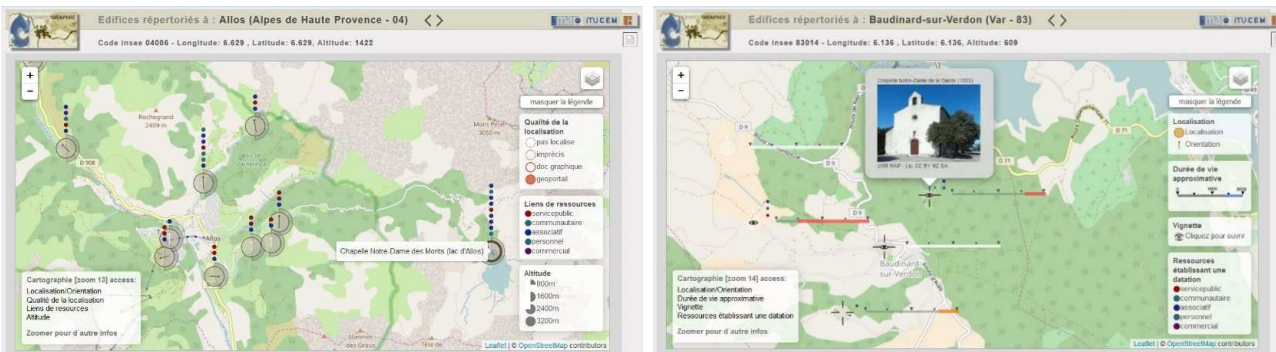
- examining each artefact individually
- evaluating groups of artefacts focusing on a specific *commune*,
- comparing individual artefacts or *communes* with each other  
(by applying different spatial and/or temporal information filters)
- interpreting overall dataset in regional scale by detecting
  - relations
  - similarities
  - differences







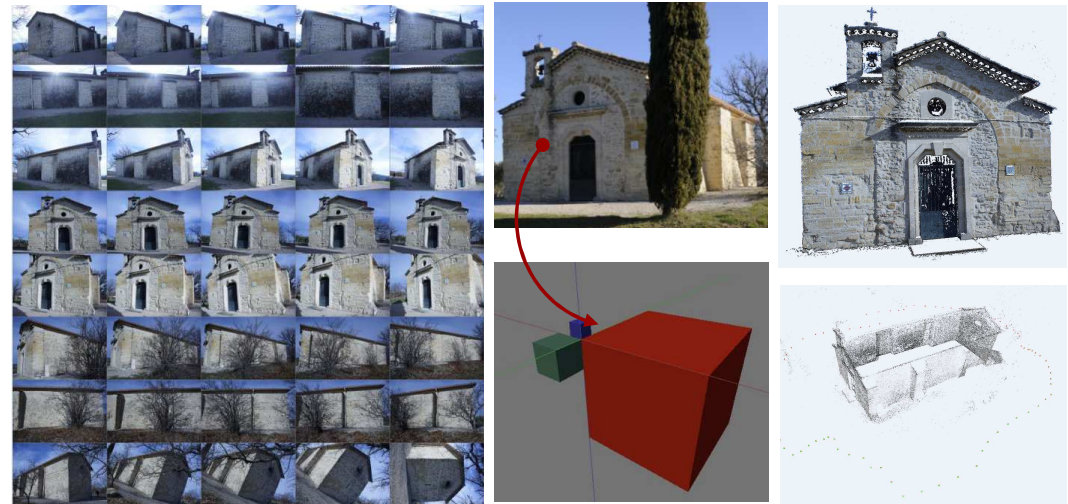




- the *why* and *how* questions in *information space*
- offered solutions in order to do cross examination, and uncover illiterate information by:
  - abstract, infovis-based data visualisation
  - *space + time* geo-visualisation

## FUTURE STEPS:

- real-scale evaluation of the space+time geo-visualization solutions (assessment of the potential added-value)
- collaborative 3D data acquisition



## AN OPEN CHALLENGE:

- collecting real-life experiences and testimonies beyond existing sets of e-sources.

The screenshot displays the 'modes de contribution' page on the Territographie website. The page is titled 'Trois modes de contribution' and lists three options:

- Annotation:** 'Observer un document visuel > annoter'. It includes an eye icon and a pencil icon. A description states: 'Vous souhaitez découvrir les collections tout en apportant une contribution? Le mode annotation est un mode ludique, orienté vers la découverte des collections: participez à des enquêtes ciblées (ex: nom provençal, typologie des clochers, temporalités des métiers, etc.). Des documents visuels vous sont présentés pour chaque item, documents à "déchiffrer" pour annoter cet item.' An image of a stone building is shown next to a list of three radio buttons.
- Post-it:** 'Choisir un item dans les collections > apporter un témoignage, une référence'. It includes a speech bubble icon and a pencil icon. A description states: 'Vous pouvez apporter des précisions sur des items des collections (témoignages, références)? Le mode post-it vous permet vous sélectionnez un corpus puis associez à ce corpus des éléments d'informations (nom, lieux, périodes de fabrication, etc.) sous la forme de témoignages, de références générales, ou de contenus multimedia en ligne.' An image of a wooden object is shown next to a stack of post-it notes.
- Extension expert:** 'Ajouter / modifier un item > nouvelles informations, nouveaux items'. It includes a document icon and a pencil icon. A description states: 'Vous souhaitez apporter des corrections / compléments ou ajouter de nouveaux items? Le mode extension expert vous permet de modifier / étendre des éléments d'informations existants (nom, lieux, périodes de fabrication, etc.) ou de faire mention de nouveaux items en lien (références en ligne ou téléversement).' An image of a stone building is shown next to a list of three checkboxes.

The website header includes navigation links: '< accueil', '< parcours des collections', and 'modes de contribution'. The footer includes 'Accueil > Contribution' and the logo for 'mao MUSEUM'.



# ANCHORING UNSORTED E-SOURCES ABOUT HERITAGE ARTEFACTS IN SPACE AND TIME



- > patrimoines mineurs
- > initiatives citoyennes
- > territoires, mémoires
- > partager des savoirs

Rejoignez une expérience de science participative autour du patrimoine "mineur" de la région Provence-Alpes-Côte-d'Azur



Thank you...

<http://www.map.cnrs.fr/territographie>

[territographie@map.cnrs.fr](mailto:territographie@map.cnrs.fr)