



O Prototype Application Ittoggortoormiit . Leaflet | Map data © Limit by year: 0 o Iceland Landnam Christianity formally acc Greenland and Vinland Land Nor Late Viking Age

OVERALL GOAL

Building cyberinfrastructure to enable interdisciplinary synthesis research across islands in the North Atlantic

- Data discovery and visualization tools
- Access to interdisciplinary datasets that can be easily understood by non-specialists

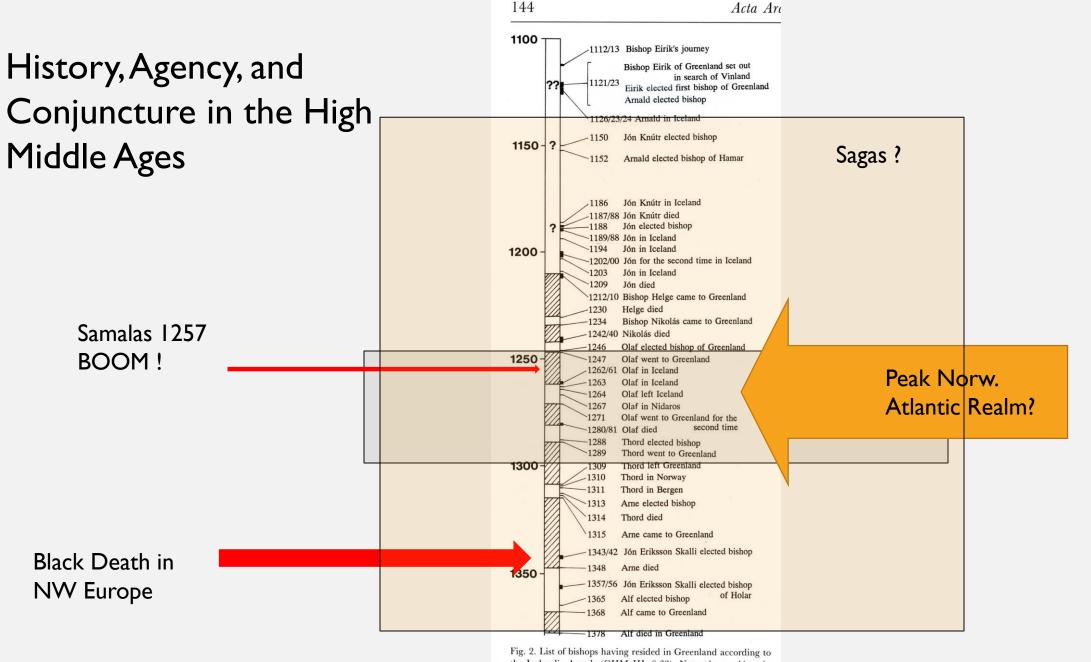


Fig. 2. List of bishops having resided in Greenland according to the Icelandic Annals (GHM III. 6-32). Note: the markings in the column do not indicate how many years the bishops stayed in Greenland.

WHAT EXACTLY ARE WE DOING?

Linking data from archaeology, literature and historic documents (e.g., the Sagas), paleoecology, paleoclimate to enable data discovery for interdisciplinary research on long-term human ecodynamics in the North Atlantic

WHO ARE WE?

















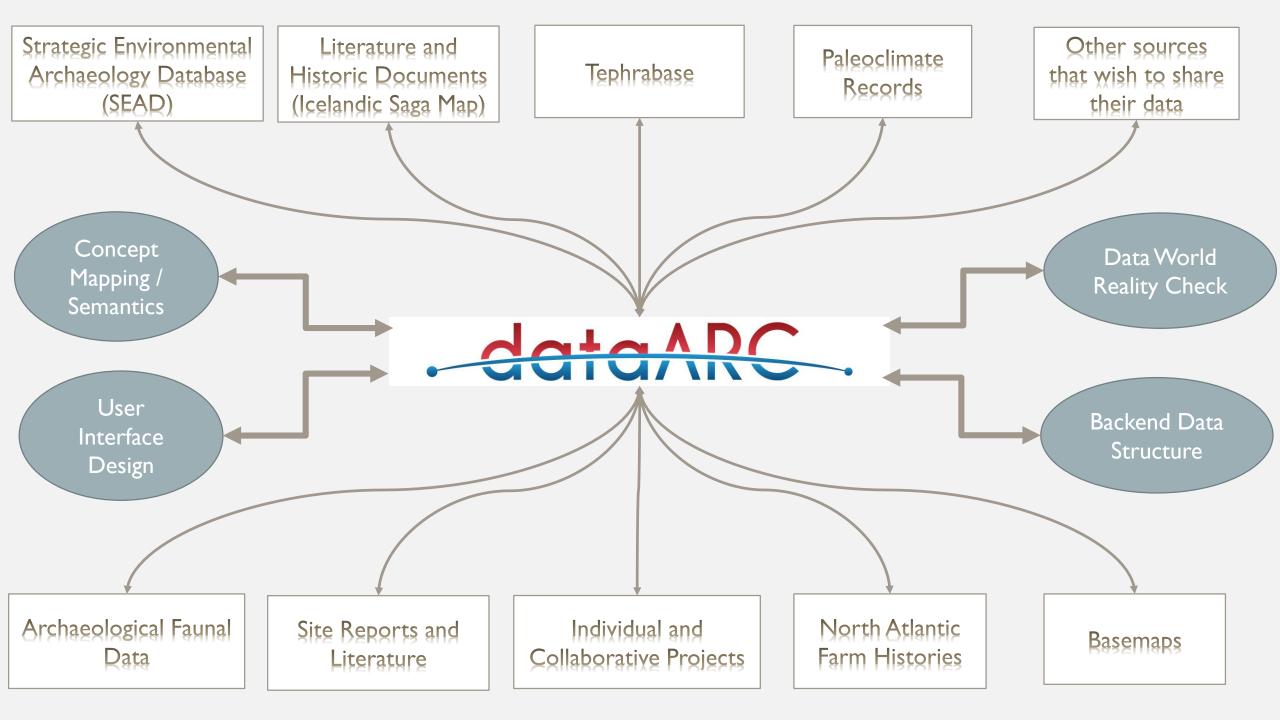














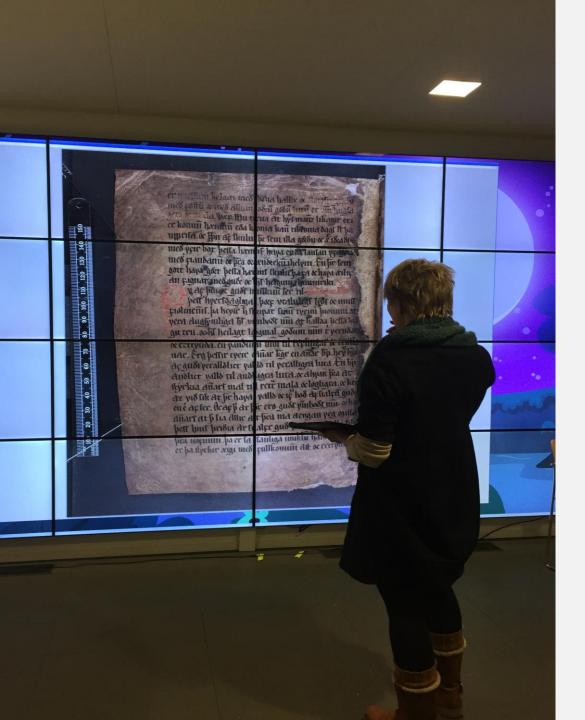


Challenges

- Diversity of data
- Linking data at multiple spatial and temporal scales
- Diversity of research group / potential user base
 - Hesitation to share and/or document data
 - Concept mapping linkages and nodes
- How processed / aggregated should the data be?

Overall: Most challenges are not technical.

They are social!



TO DO'S

data cleanup and structures

potential user interfaces for a diverse group

spatial and temporal search

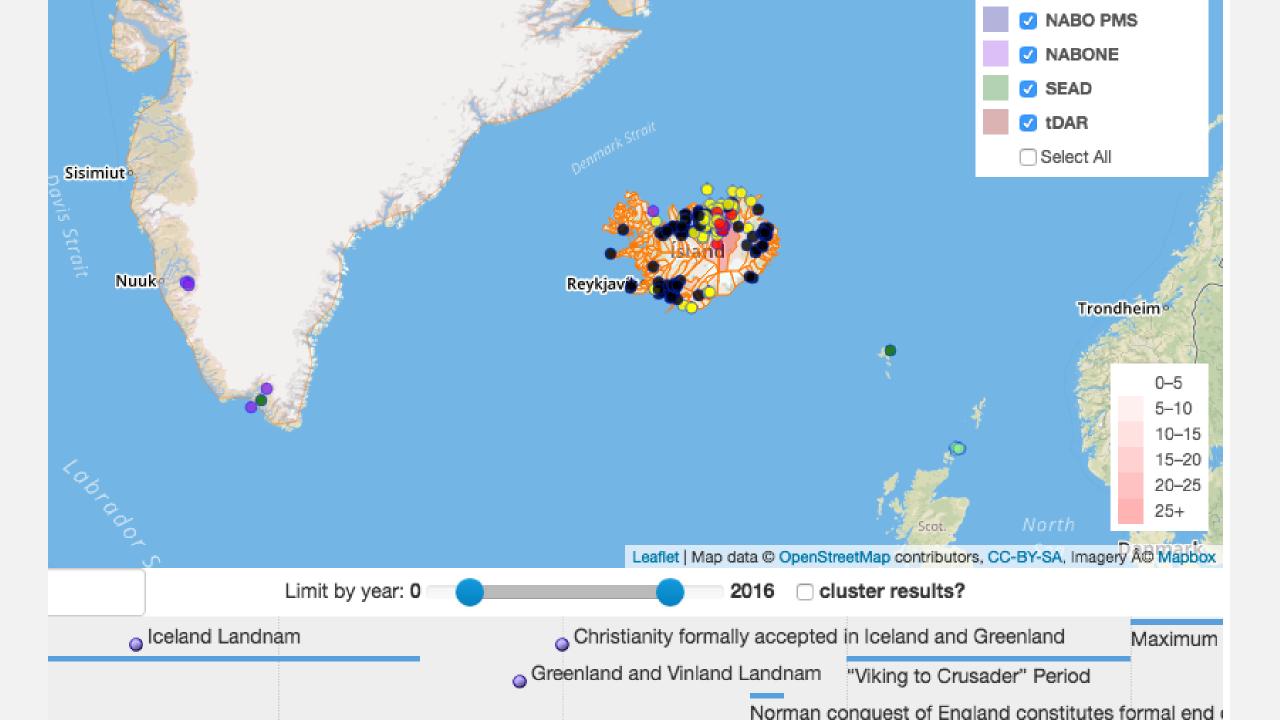
conceptual / semantic linkages

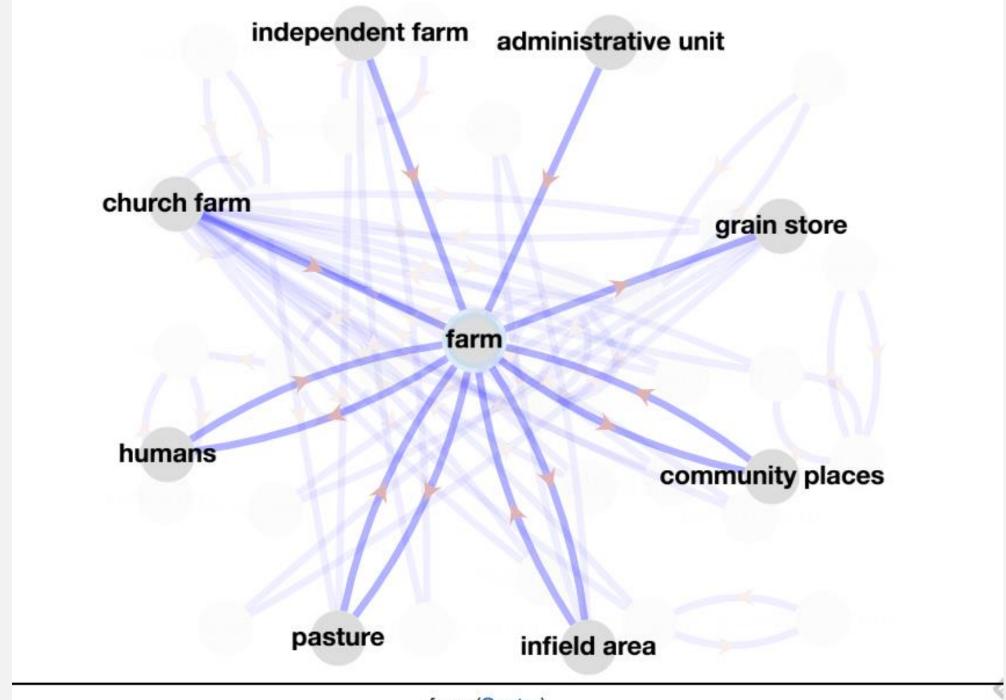
figure out the "aggregated / processed data" that we would like to focus on

THE PROTOTYPE

data-arc.org/prototype

http://scratch.cast.uark.edu/dataarcwireframe/





farm (Center)

Interdisciplinary Analysis Addressing Long-Term Human **Ecodynamics in the North Atlantic Example Indicators** Ratio of Sheep to Cows Ratio of Tree to Grass Indicate Changing Wealth Pollen Indicates Changing and Status of Sites Woodlands **Example Raw Data** Pollen Counts from Individual Faunal Environmental Samples in Elements in tDAR SEAD



LONG(ER) TERM PLANS

Move beyond Iceland (Greenland and Faroes in Years 2 and 3)

Scottish Northern Isles Data (kicking this off Year I)

Training and outreach modules

Sustainability (?)

THANK YOU!

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data-arc.org

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