

A GREAT GREEN WALL SOCIAL-ECOLOGICAL SYSTEMS DATABASE

A TOOL FOR RESEARCHERS AND MANAGERS

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INTRODUCTION

The Great Green Wall

Yes the Green Great wall can be in China, by our sandybox is in Africa, where we work for the "Future Sahel" ANR project.



- width $\approx 15\text{km}$
- length $\approx 7600\text{km}$

Future Sahel Framework

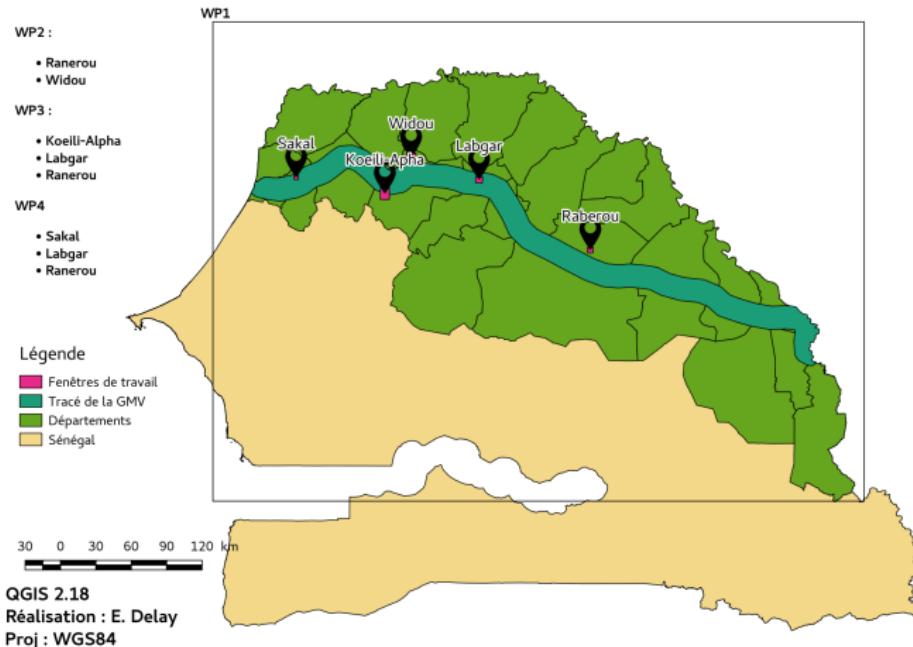


Figure: FutureSahel Work Packages

Focus on WP1

2 goals for WP1 :

- In close cooperation with the Senegal agency of Green Great Wall (ANGMV), build a database for researcher and green great wall managers.
 - researcher → Maintain and exploit data produced in a research context (landscape ecology);
 - managers → use knowlege for spatio-temporel planification.

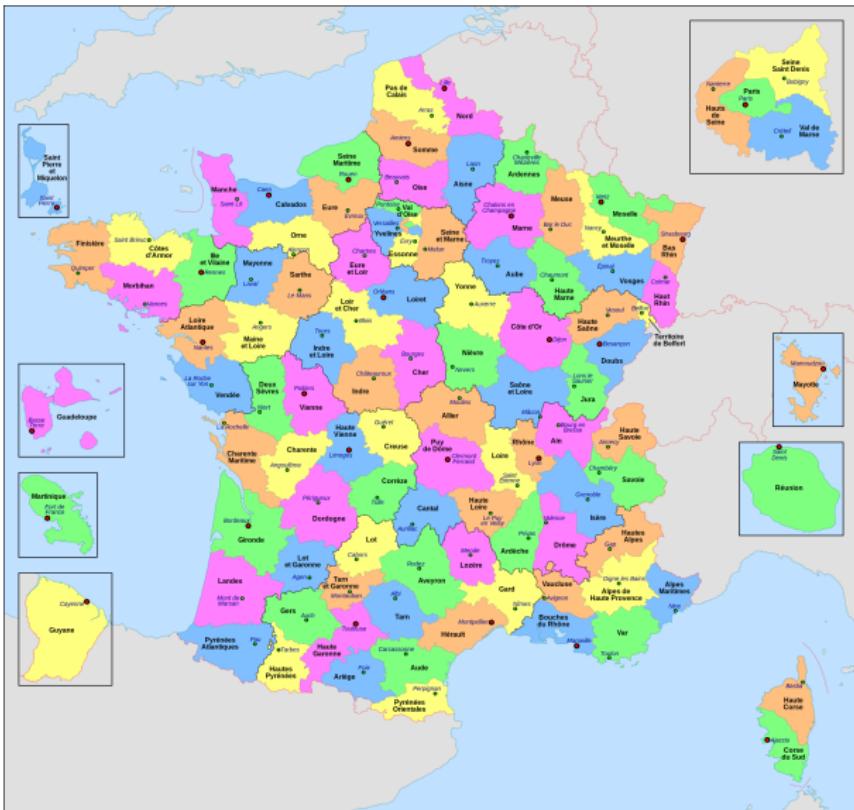
Material and methods

- The initial architecture developed on PostgreSQL and PostGIS (GEOLAB);
- Stay compatible with BBees metadata;
- We need to find a way to deal with heterogeneous space and time data :
 - Raster (Spot, Modis, Landsat, Sentinel);
 - statistical information produced by government;
 - field data.
- Technology transfer to stakeholders (ANGMV), we need to choose free and open source software.



SOME RESULTS

Map of France





Thank you for your attention

Photo credit : Thomas m-louis. sur [flickr](#)



You can find this presentation on [github](#)



BOULANGERIE

Pain cuit au
four à bois

Christine et Henri POCH
Meilleur Ouvrier de France

Boulangerie
Salon de Dégustation
Ecole de boulangerie
Chambres d'hôtes

Ouvert du vendredi au lundi
04.68.84.15.65



Photo credit : James Linton



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The hydro social cycle

We employ the concept of the hydro social cycle - which borrows from Wittfogel's dialectic, but demands a more complex account of hydro social relations – to explain these developments.

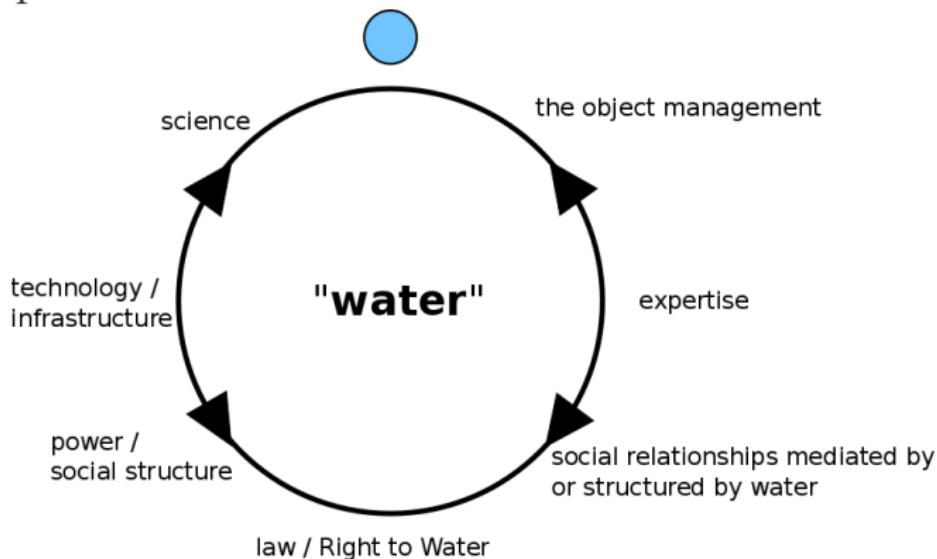


Figure: hydrosocial cycle