

GLOBAL  
RESEARCH  
ALLIANCE

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ON AGRICULTURAL GREENHOUSE GASES

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## Country report : FRANCE

Presentation to IRG Annual Meeting  
Cali, 5 February 2019

# GRA contributions

- IRG co-chair
- Soil carbon network co-chair (and past field scale network)
- Contributions to CRG and LRG

# Other initiatives

- **CIRCASA** (coordinated by Jean-François Soussana), preparing an **International Research Consortium**
- **Mission board member ‘Soil health and Food’**
- **European Joint Program on Soils** (coordinated by Claire Chenu, INRAE, co-coord. WUR)
- **Green Deal Call ‘Climate Neutrality of farms’** (coordinated by J-Eric Berges, INRAE)
  
- **Soil carbon monitoring methodologies**
  - NIVA H2020 project: How to monitor soil C stocks in the next CAP? (Test area 100x1000 kms)
  - Methodological study funded by ADEME
- **National low carbon label**
  - Methodologies developed by industries for agricultural offset projects (e.g. through soil carbon)
- **Carbon farming projects**
  - Case studies in SW France (Nataïs, pop-corn leader)
  - SCARF network, 20 soil carbon farming initiatives across Europe
- **4 per 1000 initiative**
  - Member of STC (Scientific and Technical cooperation Committee)
  - National study on potential and implications of the 4 per 1000 target (INRA and ADEME)



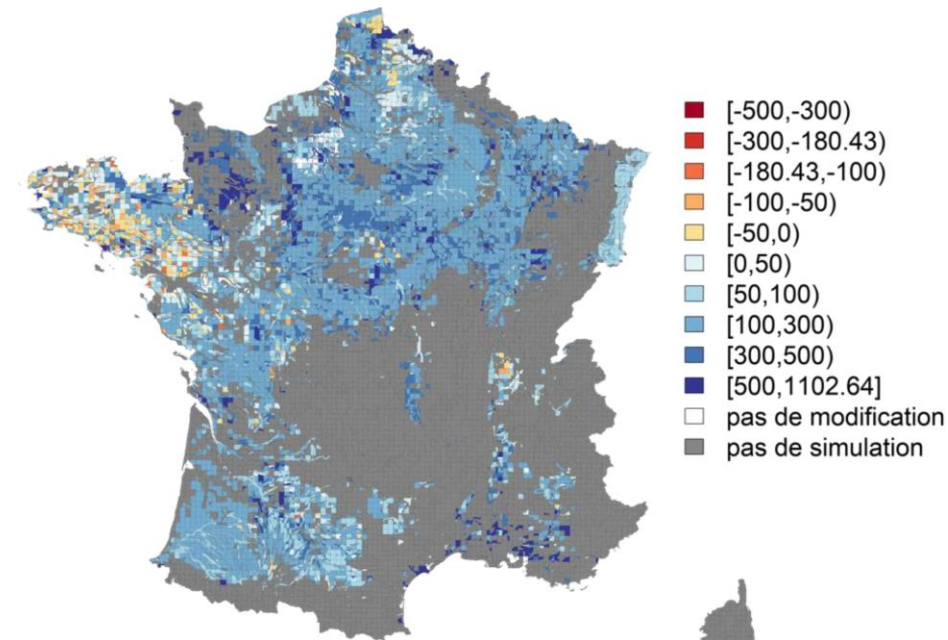
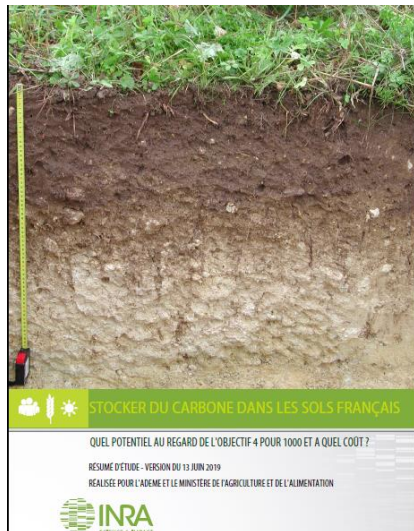
# A high potential for soil C sequestration in arable soils

**30 millions tons CO<sub>2</sub> eq per year**

(3.3 per mil increase for agricultural areas, more than 5 per mil for croplands only)

Potential is higher when initial soil C is low

A marginal cost often less than 50 € per ton CO<sub>2</sub>



**Additional annual C storage (kg C ha<sup>-1</sup> yr<sup>-1</sup>) on 0-30 cm for expansion of cover crops, longer grass leys and additional use of organic fertilizers**

Coût de stockage - Cultures Intermédiaires

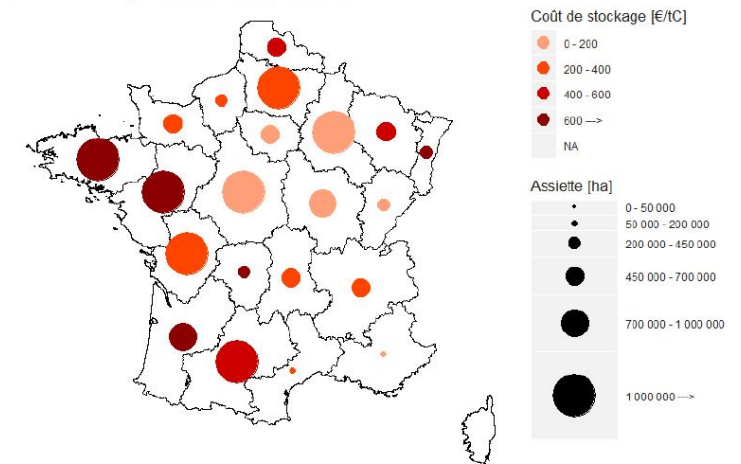


Figure 8. Coût de la tonne de C stockée (€/tC) et Assiette maximale technique (ha) de la pratique, par région

# France should reach carbon neutrality by 2050. An accelerated decline in agricultural emissions is expected

HAUT CONSEIL  
pour le CLIMAT

Figure 3.4.1 – Évolution des émissions **du secteur agricole depuis 1990**

