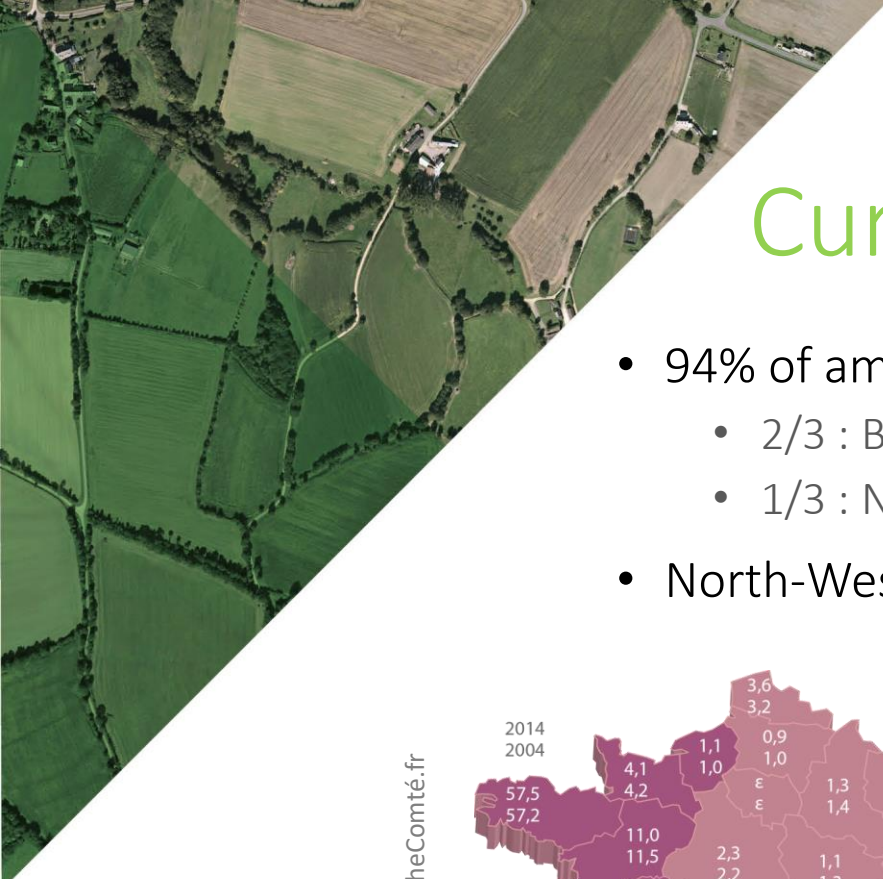




Agricultural ammonia emissions in France

Anne-Sophie Langlois

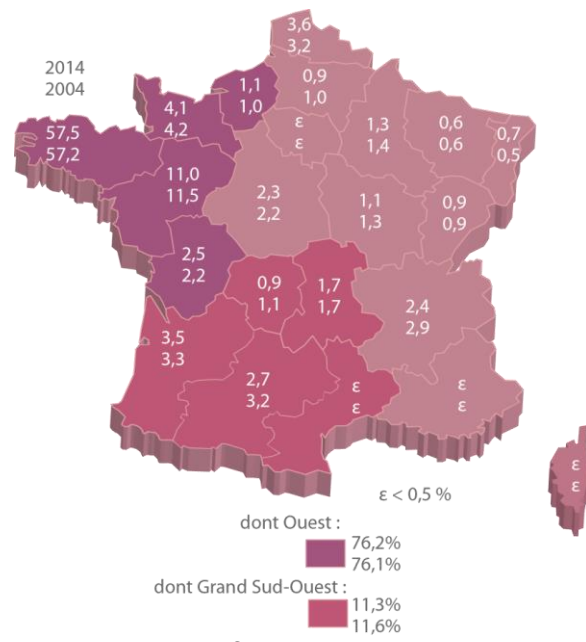
Chambre d'Agriculture de Bretagne



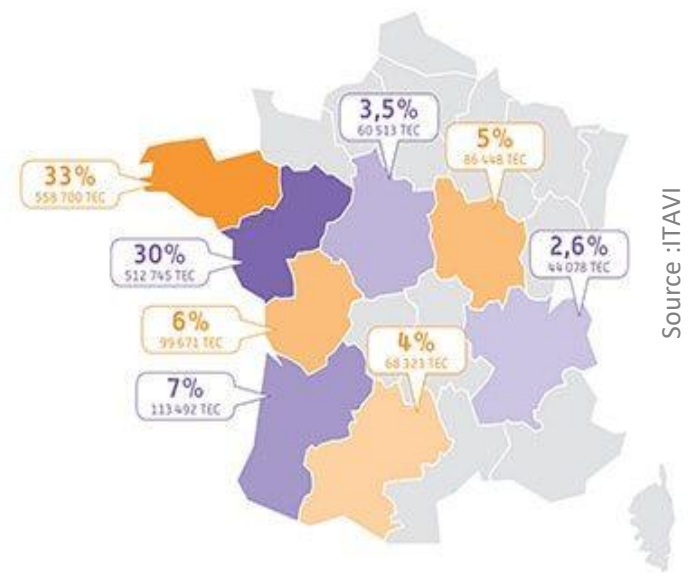
Current situation in France

- 94% of ammonia emissions come from agriculture :
 - 2/3 : Breeding
 - 1/3 : Nitrogenous fertilizing
- North-West France: main livestock productions area :

Source : Porc-de-FrancheComté.fr



Distribution of swine production per regions in 2014



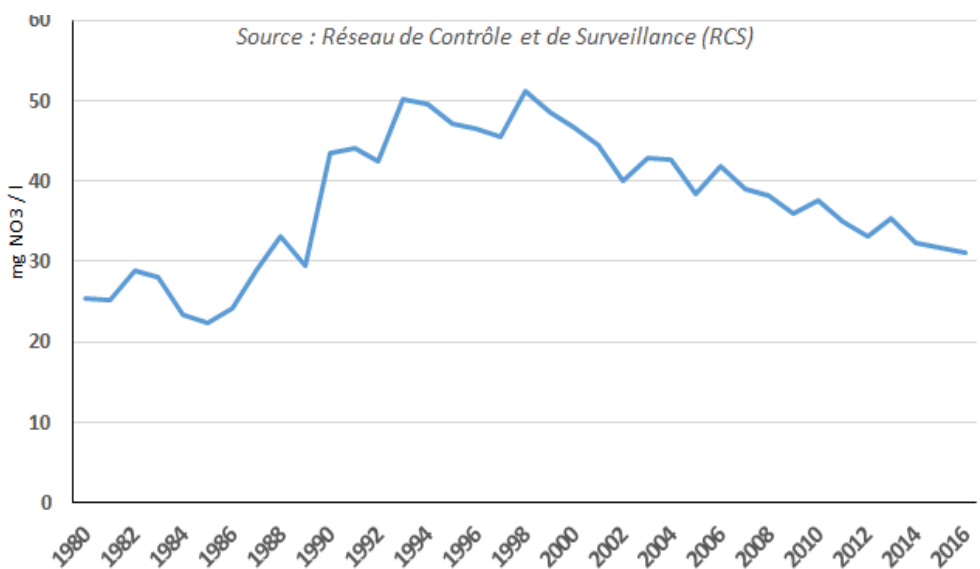
Source : ITAVI

Poultry production basins in 2014

Nitrates Directive :

- Reduction of ammonia emissions in Brittany are mainly related to good water quality results get since the 2000s

Mean nitrates concentrations in superficial waters in Brittany



Development of :

- Nutritional gestion
- Treatment of surpluses (transformation of NH_4 in N_2 or organic N),
- Burying delay,
- limitation of mineral N

- 110 N org/ha + 69 N min/ha spread on average in Brittany

NEC Directive

- **PREPA (National Program of Air Pollutants Reduction) :**
Objective : Reduce ammonia emissions by 13% in 2030 from 2005 (in all sectors)
 - Utilisation of less polluting fertilizers; utilisation of drag hoses or incorporators, development of alternative treatment to agricultural waste burning, measurement of phytosanitary products, control of aerial spraying ban
 - Accompanying measures of agricultural sector through dissemination of good practices, the funding of pilot projects and mobilization of European fundings
- **Good agricultural practices guide to improve air quality :**
Promotion of a number of the guide techniques.
Perspectives : Some techniques may be made mandatory, however there may be less financial supports available over the next years.



Regional actions and perspectives

► PCAET (Territorial Air Climate Energy Plan) :

- Mandatory for the >20 000 inhabitants intercommunalities. Promotion of the best practices through pedagogical approaches, or regulatory for some of them.
- Recommendations to set up during pollution peaks
- Collectivities have to calculate a reduction potential. The calculation method doesn't always reflect farmers practices on the territory.
- Agricultural and pedagogical animation actions; air/water synergy.
- Variable actions according to the importance of air quality in regions.

► Materiel Plan (national project) :

- Financial support for farmers willing to change their spreading practices (scrapping premium).
- Perspective for 2021 : Ban on using certain equipments (for example : nozzle branches) according to volatilisation risks and financial ability of the farm.



IED Directive

- To establish rules aimed at reducing water, air and soil emissions
- 3 200 relevant installations in France (80% for poultry production, 20% for swine production)
- Ongoing review process for all the relevant exploitations, since publication of the new BREF.
- First results for poultry farms appear to show that emission limit values will be respected.
- Concerning swine production, nutritional gestion is the main technique used to control ammonia emissions.