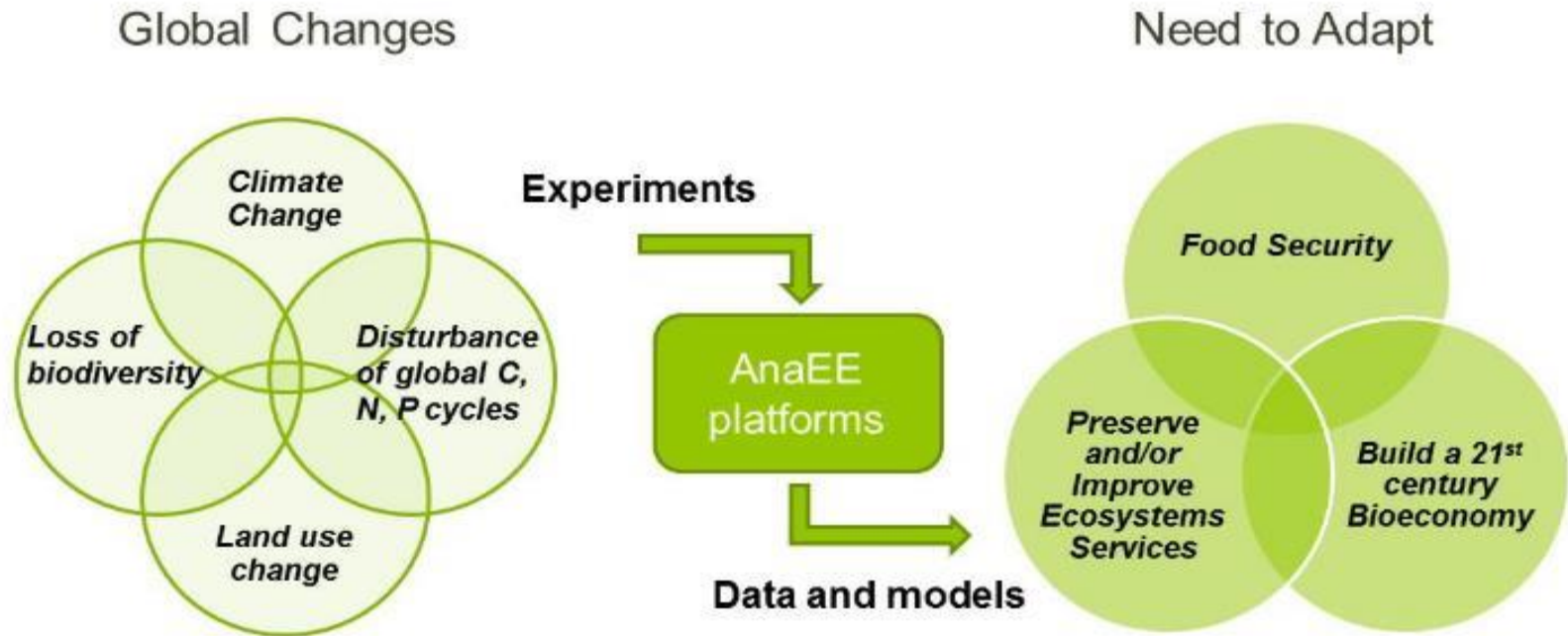


The AnaEE Concept

A research infrastructure for the experimental manipulation of managed and unmanaged terrestrial and aquatic ecosystems.



AnaEE offer

AnaEE give an open access to scientists, policy makers and industry to a wide range of experimental facilities :

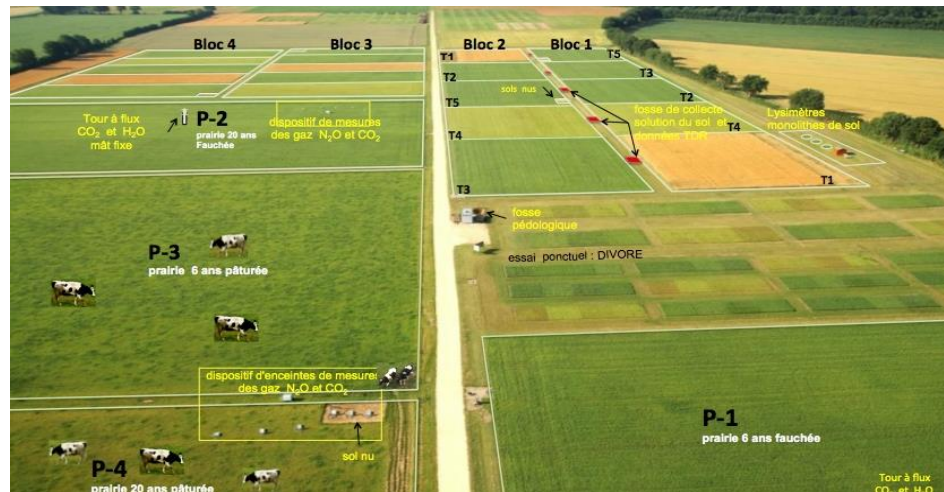
Open-air ecosystem platforms

covering various land uses and transecting Europe's climatic zones



Enclosed ecosystem platforms

To enable higher level of environmental control



AnaEE offer

Support facilities are proposed to scientists to improve experiment design, ecosystem characterization and results analysis and generalisation

Analytic Platforms

advanced biological, physical and chemical analyses for a deeper insight into processes



Modelling Platforms

To improve experimental design, data analysis and generalisation.
To give predictions



AnaEE offer to Geoss

- **Improving Geos Product**
 - **Ecosystem manipulation** to study radiometric response of different conditions
- **Validation/evaluation of GEOS product**
 - **A variety of well characterized sites** with long term and continuous monitoring of key bio geophysical quantities to interpret remote sensing observations
 - **Infrastructure to install ground radiometer and drone services**
 - **Ecosystem variability** created by long term treatment (water stress, nutrient stress, vegetation thinning...)
- **Data interpretation and modelling**
 - **Ecosystem functioning models**
 - **modelling platforms** able to couple ecosystem functioning models with radiative transfer model and implement assimilation procedures

Expectation and hope for Geoss

Context : AnaEE gathers a limited set of experiments (~ 200-500).

GEOSS gives the opportunity :

- **To provide additional observations on AnaEE experimental sites**
(radiometry, spatial heterogeneity, site representativity)
- **To upscale results**
(AnaEE set up are mostly based on small spatial units (1000 m² to several ha))
- **To complement experimental approaches with observational approaches**
(possibility to characterize causal effects using the spatial coverage and harmonized time series)
- **To develop operational services**
(taking profit of Geoss spatial coverage and algorithm development on AnaEE data sets and experimental results)