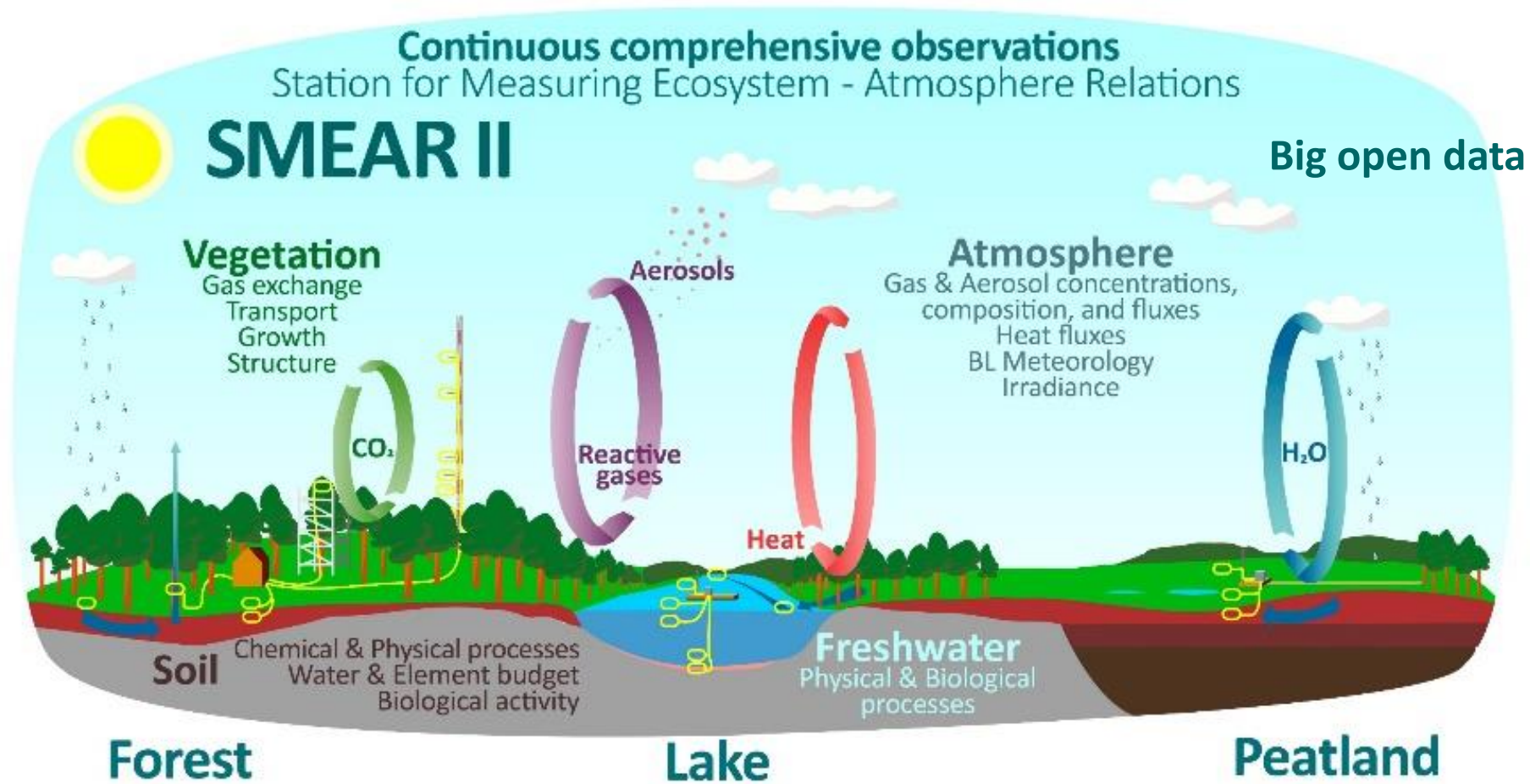


# Global Challenges Need Global Measures



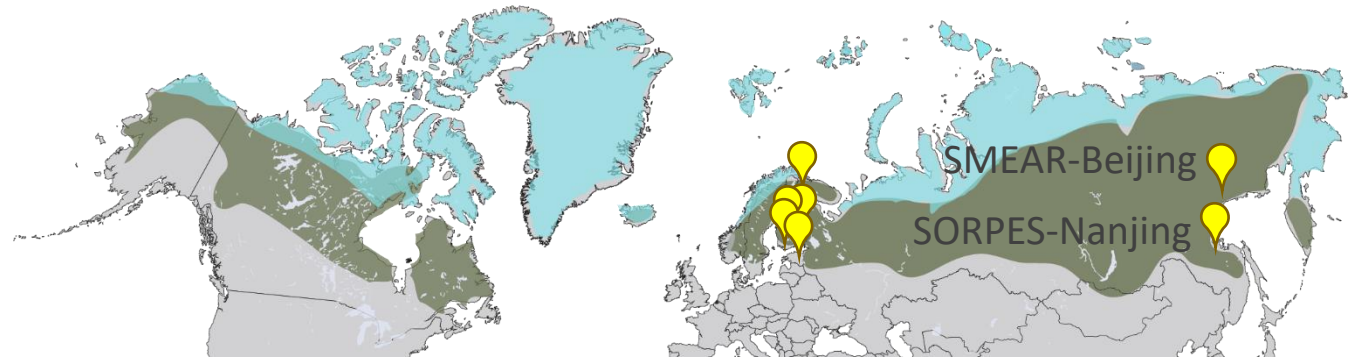
Over **1200** different variables

**Flagship site** for integration: combines all IPCC components. **Contributes to :**



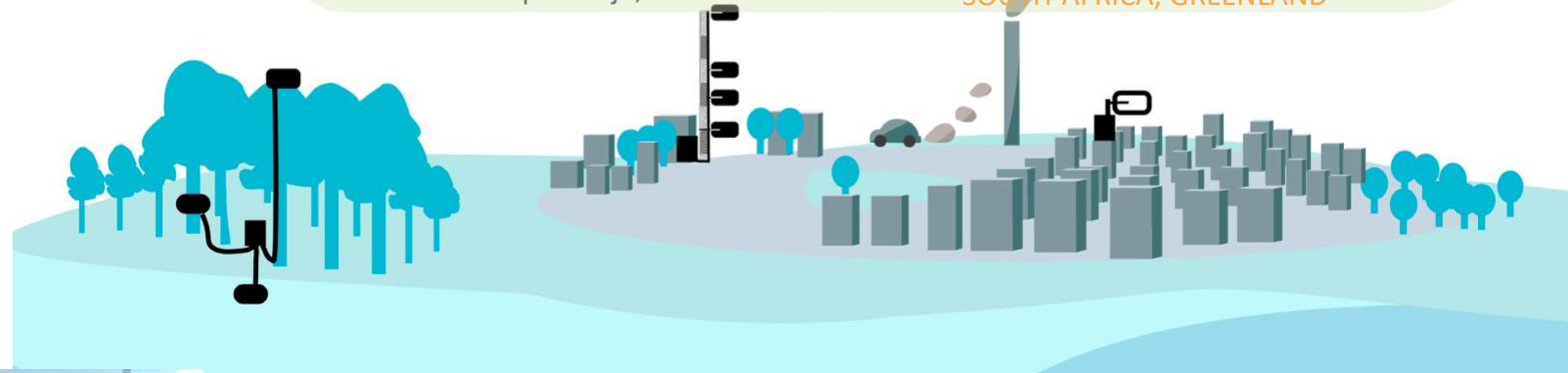
ICOS





### Stations Measuring Earth Surfaces and Atmosphere Relations (SMEAR) stations in operation:

- SMEAR I:** Värriö, subarctic pine forest
- SMEAR II:** Hyytiälä, Flagship Station  
boreal pine forest, lake and wetland
- SMEAR III:** Helsinki, urban environment
- SMEAR IV:** Kuopio-Puijo, semi-urban + agriculture
- International sites:**
  - SMEAR – Estonia:** hemiboreal forest
  - SMEAR – Beijing:** Chinese megacity
  - SORPES – Nanjing:** Chinese megacity
  - SOUTH-AFRICA, GREENLAND**



Värriö SMEAR I



Hyytiälä SMEAR II



Helsinki SMEAR III



Puijo SMEAR IV



SMEAR- Beijing

### New openings

- SMEAR Agriculture (Helsinki)
- SMEAR Marine (Tvärminne)

