Name of the session : Coordinated, comprehensive in situ data component of atmospheric and ecosystem measurements for complementing the space borne Earth Observation	
Organiser:	Organizer: Hanna K. Lappalainen, Univ.Helsinki / FMI, PEEX HQ Helsinki
Moderator:	Hanna K. Lappalainen, Univ.Helsinki, Helsinki
Provisional Timing	*To be filled by the GEPW organisation*
Format[1]	panel discussion with interactive some tools http://sli.do/
Objectives: integration towards comprehensive, coordinated, long-term land-atmosphere in situ measurements at the global scale and the message for the funding organizations	

- **5 short presentations by the Panellists**
- **discussion:**
  - the current status and key gaps of ecosystem – atmospheric in situ measurements at the global scale
  - what components the common concept of coordinated- comprehensive – long-term ground based measurements should include:
    - set of variables
    - structure of the network
    - upgrading the exiting observation networks versus building up new stations
  - how to coordinate the comprehensive, long-term in situ component for space borne remote sensing observations
  - specific aspects related to the air quality of mega cities
  - link with GEOSS - GEOCRI (Cold regions)

Potential participants (with email addresses if possible)

Panellists (5):

- Sanna Sorvari FMI, Finland: European ESFRIs, ACTRIS (Europe)
- Werner Kutsch ICOS-ERIC, Finland: ENVRI (Europe)
- Andre Chanzy Anaee (Europe)
- Yu Xiubo SG, Chinese Ecosystem Research Network (CERN), China
- Markku Kulmala, SMEAR concept & infrastructure (Global)

Audience:

- representative of European ESFRI, ERIC activities and projects: ENVRI, Nordic-ENVRI; ICOS, ACTRIS, LTER, ANAEE, NEON, NOAA
- representatives of EU RI and research projects (INTERACT, INTAROS; BACHUSS etc.)
- representatives of Europe, USA, Canada, China, Australia, remote sensing communities in a field of land (ecosystem) -atmosphere observations
- communities representing space borne measurements, GEOSS stakeholders

Expected output

- understanding the key observational gaps of the in situ component of ecosystem atmospheric observations at the global scale
- new ideas of the comprehensive measurement concepts
- new ideas how to enhance collaboration between continents towards common in situ data formats & data products

1 Several formats are possible: presentations, round table, or more interactive session such as world cafés which we would encourage.