

Second High Level Forum on Global Geospatial Information Management Exchange Forum with the Geospatial Industry - Doha, Qatar, 3 February 2013

Session 2 - Focus issue: Monitoring place



Chris Steenmans Head of Programme





Providing timely, targeted, relevant and reliable information about Europe's environment



ENP South

Russia

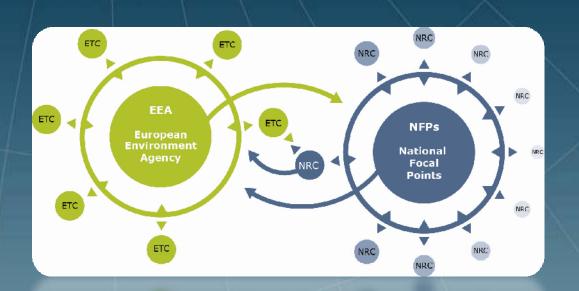
ENP East



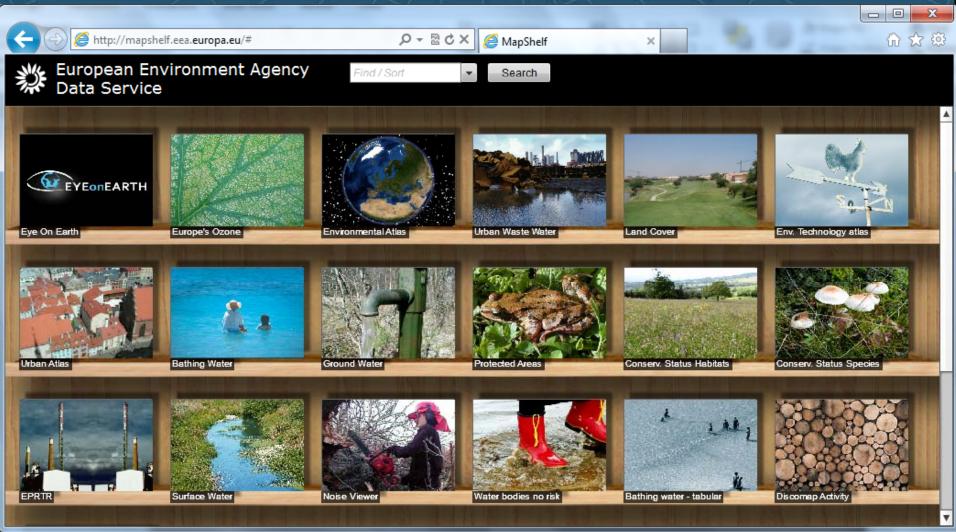
The European Environment Information and Observation Network

Cooperating with the EEA to provide sound, independent information on the environment through:

- Coordinating national data/information flows
- Providing country-level expertise and advice
- Linking EEA to member country sources and vice versa
- Promoting EEA activities and outputs at national and international level



Providing environmental information services



Framework for providing policy relevant information



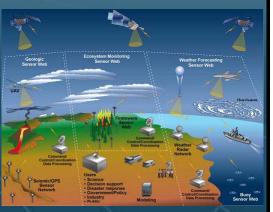


Sensor-enabled situational awareness

- Cheap sensor technology
- Smartphone used as gateway
- Read results on smartphone and share on the web
- Example Air quality
 pollutants which can be measured:
 - -CO
 - -NOx
 - -CO2
 - -03 (Ozone)
 - -PM

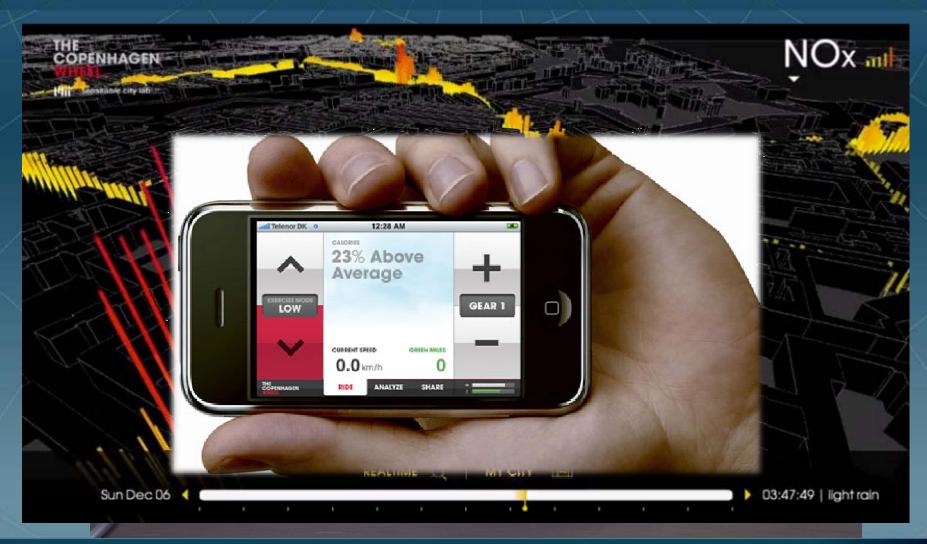
Other measures:

- •Noise (dB)
- Radiation
- •UV
- Humidity
- •Temp
- •





The Copenhagen wheel





Copernicus dedicated missions - Sentinels



Sentinel-1 (A/B) - SAR imaging All weather, day/night applications, interferometry

2013 /2015



Sentinel-2 (A/B) - Multi-spectral imaging Land applications: urban, forest, agriculture,... Continuity of Landsat, SPOT

2014/2016



Sentinel-3 (A/B) - Ocean and global land monitoring Wide-swath ocean color, vegetation, sea/land surface temperature, altimetry

2014/2017



Sentinel-4 (A/B) - Geostationary atmospheric Atmospheric composition monitoring, transboundary pollution

2019/2027



Sentinel-5 precursor/ Sentinel-5 (A/B) - Low-orbit atmospheric Atmospheric composition monitoring

2015/2020/202



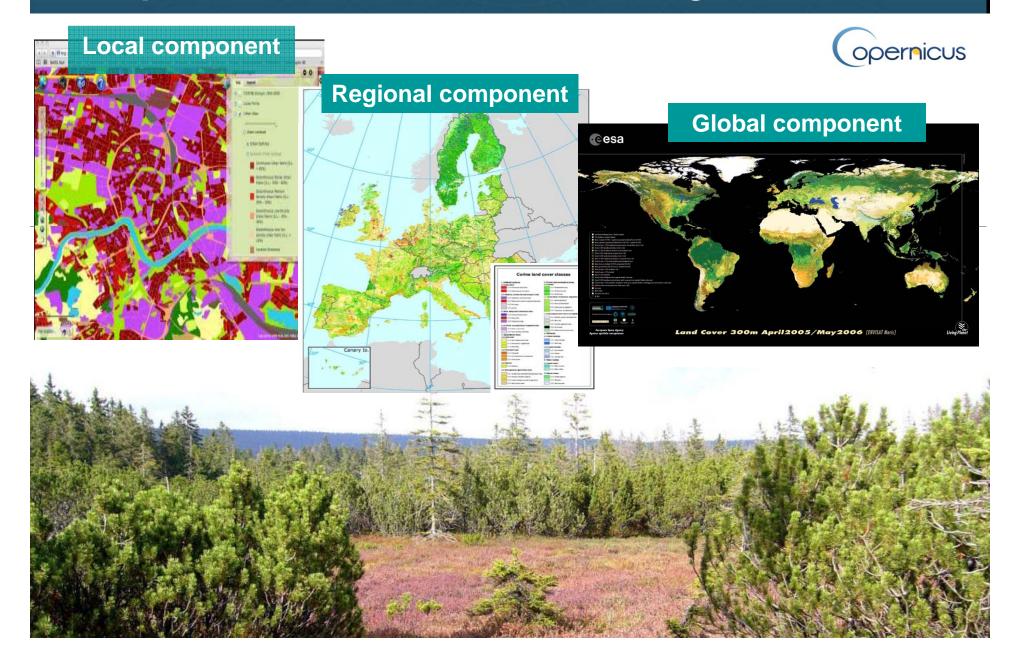
Jason-CS (A/B) – Low inclination Altimetry Sea-level, wave height and marine wind speed

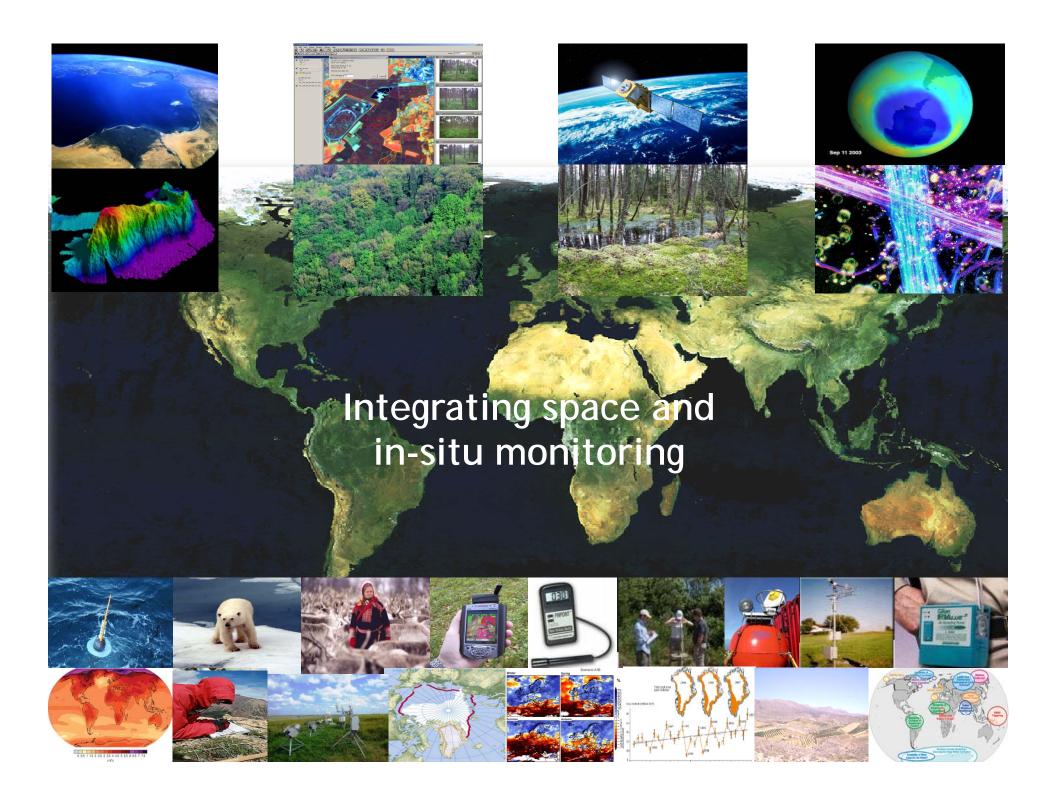
2018/2023





Copernicus Land Monitoring Service





Building a Global Citizen Observatory

EEA Watches

AIR

>>>

WATER

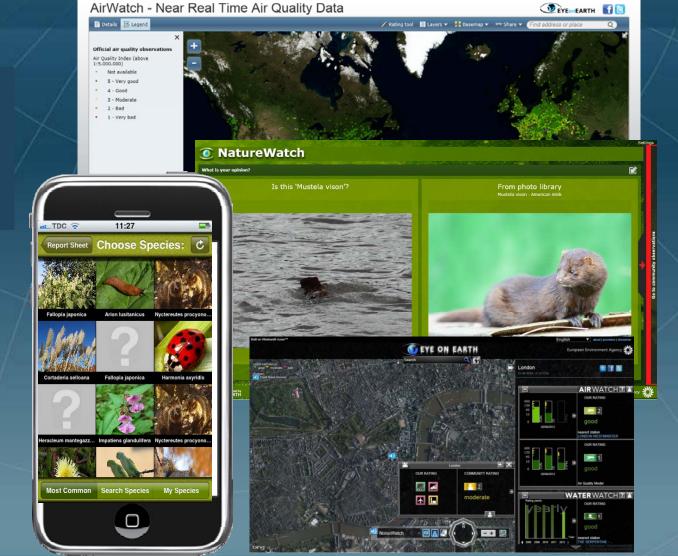
>>

NOISE

(>>)

NATURE

- **>>**
- Near real time
- Citizens science
- Crowd sourcing
- Modelled data
- Social media
- Mobile technology
- Cloud computing
- Open access



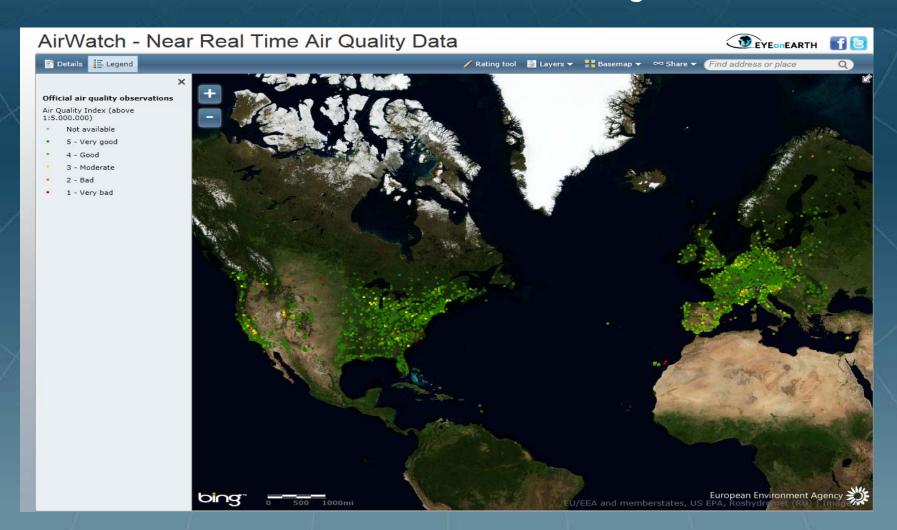








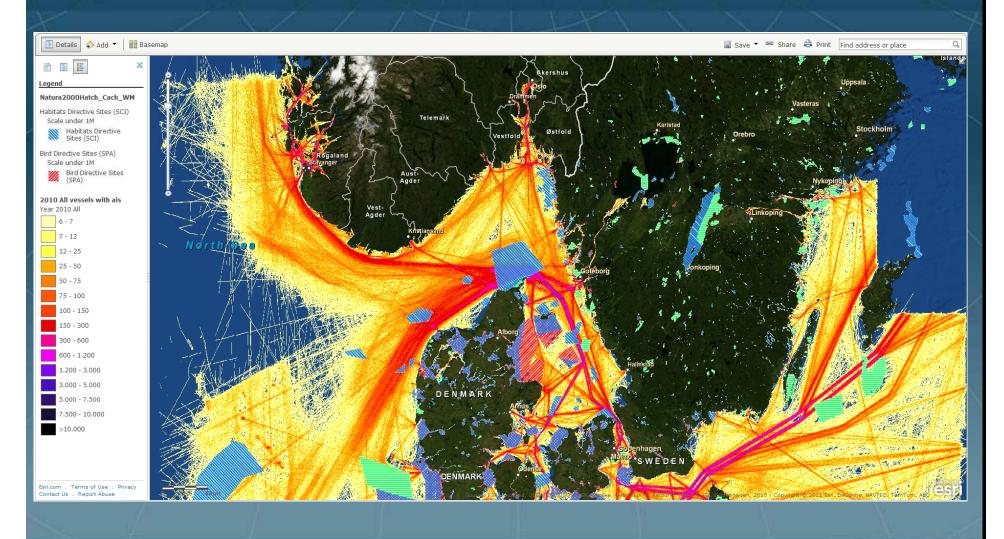
A Global Public Information Sharing Platform







Mash-ups geospatial data and information

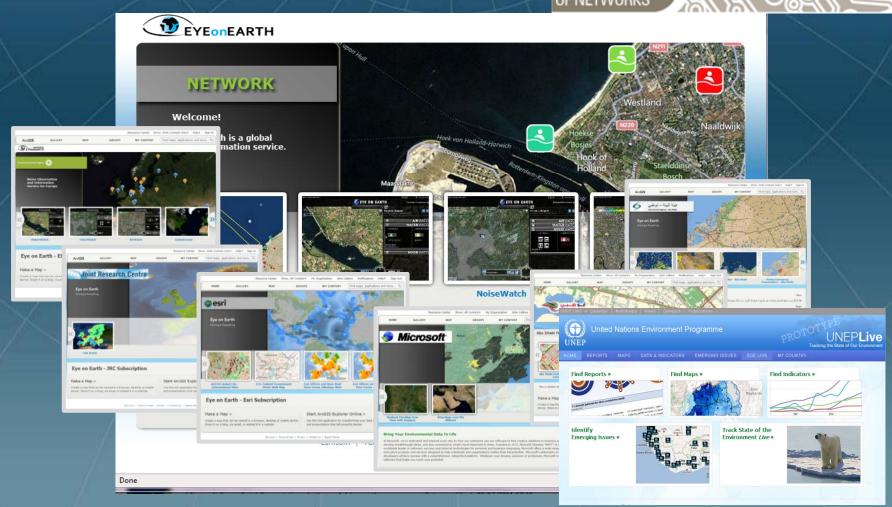






Towards a Global Networks

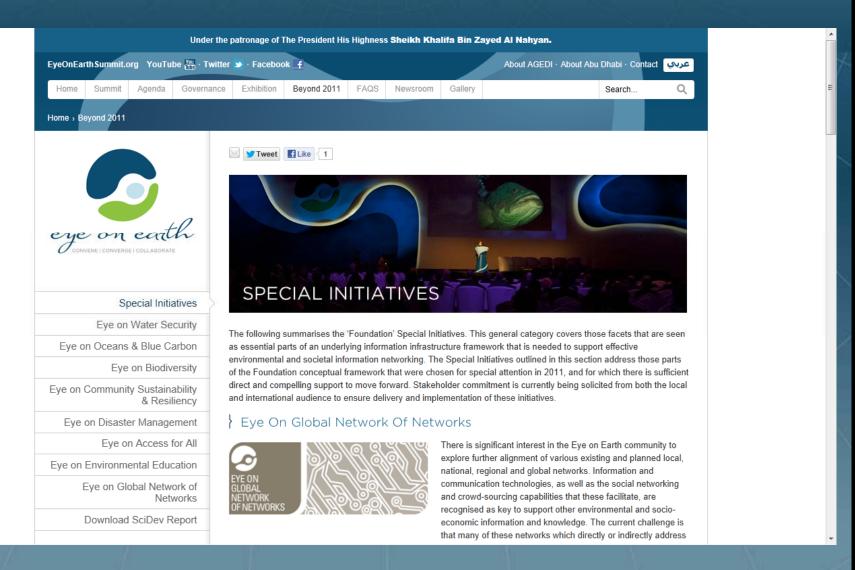








Eye on Earth Network Special Initiatives



Thank you





