NETWORKS – Conclusions and recommendations

Highlight:

- Continental and global networks have well-established QA/QC procedures, well-defined products and central processing chains with NRT capabilities (ACTRIS/EARLINET, AERONET, ACTRIS/Cloudnet, MPLNET, AD-Net, SKYNET, LALINET…)

Recommendations:

- Intercomparisons between the networks (field campaigns, collocated sites, aircraft overflights…)
- Harmonization of approaches (collocation criteria, L3 products, statistical approaches, targets, λ-conversion…)
- Provide QA/QC support to single stations (access to calibration centres, provision of QA and processing tools)
- Include ARM sites
  → **collect opportunities after the workshop and make them available**

Further improvements and needs:

- Possible improvements of the network strategies and Cal/Val products
  - use additional observations for homogeneity and representativity checks (e.g. E-PROFILE, scanning systems…)
  - use long observation periods around overpass together with trajectory analysis to improve comparability
  - decide on priority geolocations and close gaps by establishing additional sites or deploying mobile facilities
- Need of fast access to meteorological data for NRT processing, possibility to use X-MET product
- Need of interaction between the network data centres and EVDC to agree on data flows and harvesting of (meta)data
  → **meeting between EVDC and PIs planned in the near future**