

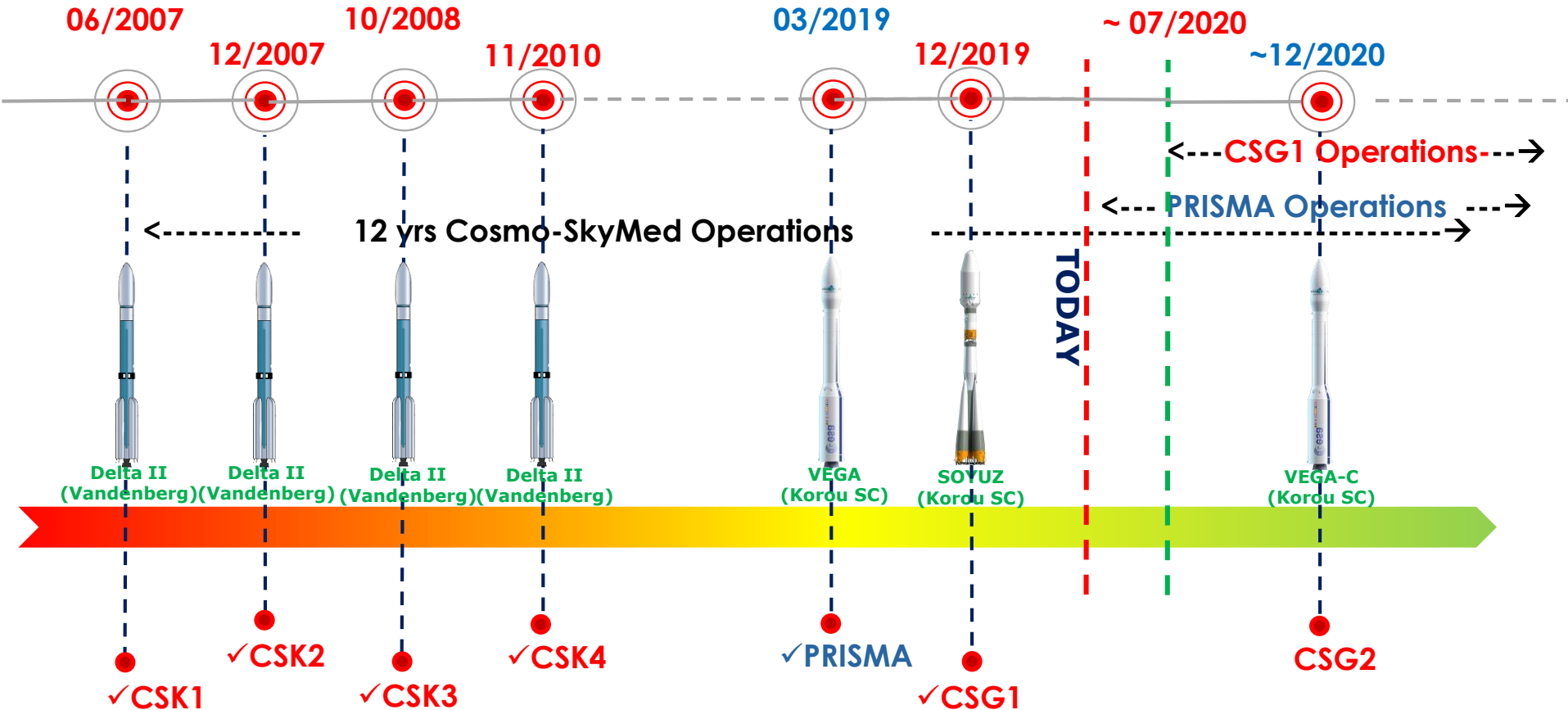


ASI's Earth Observation Missions for Environmental Monitoring



Luigi DINI
Cosmo SkyMed Second Generation – Mission Manager

ASI's EO missions launch timeline



CSK vs. CSG



4
X-Band
satellites



1 (+1)
X-Band
satellites

INFORMATION

polarization

- Single
Dual
Quad
- Single
Dual

+ AGILITY

Wide area
coverage
@
High
resolution

LIFETIME



7
5

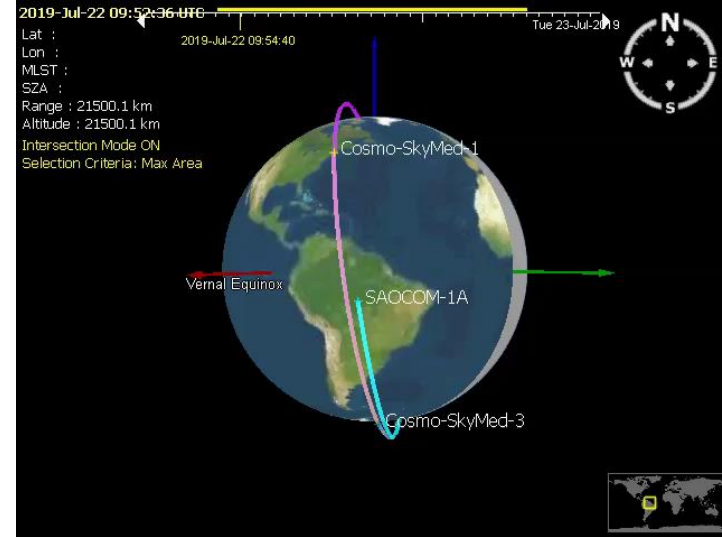
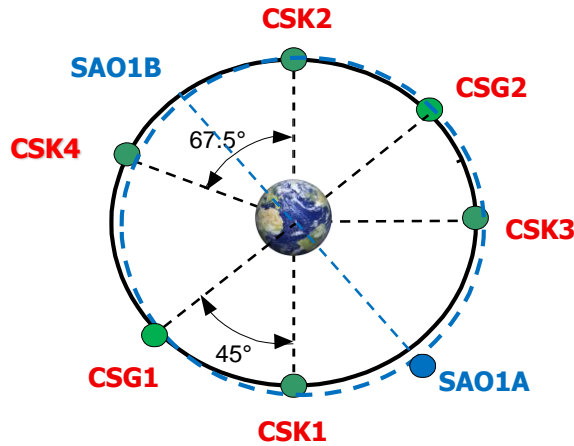
Max. Geom. resolution



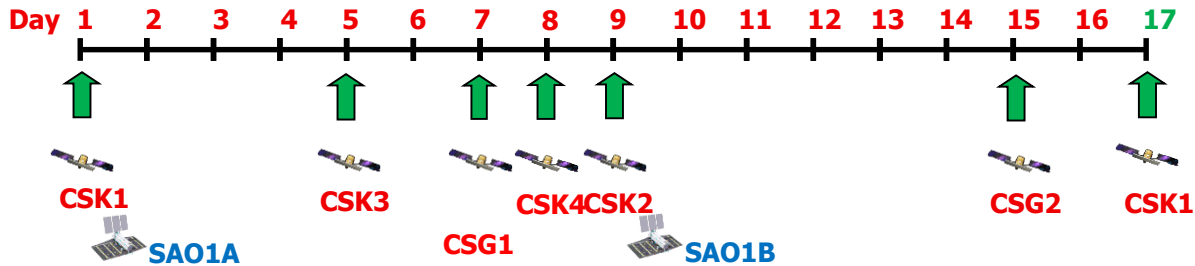
30
100



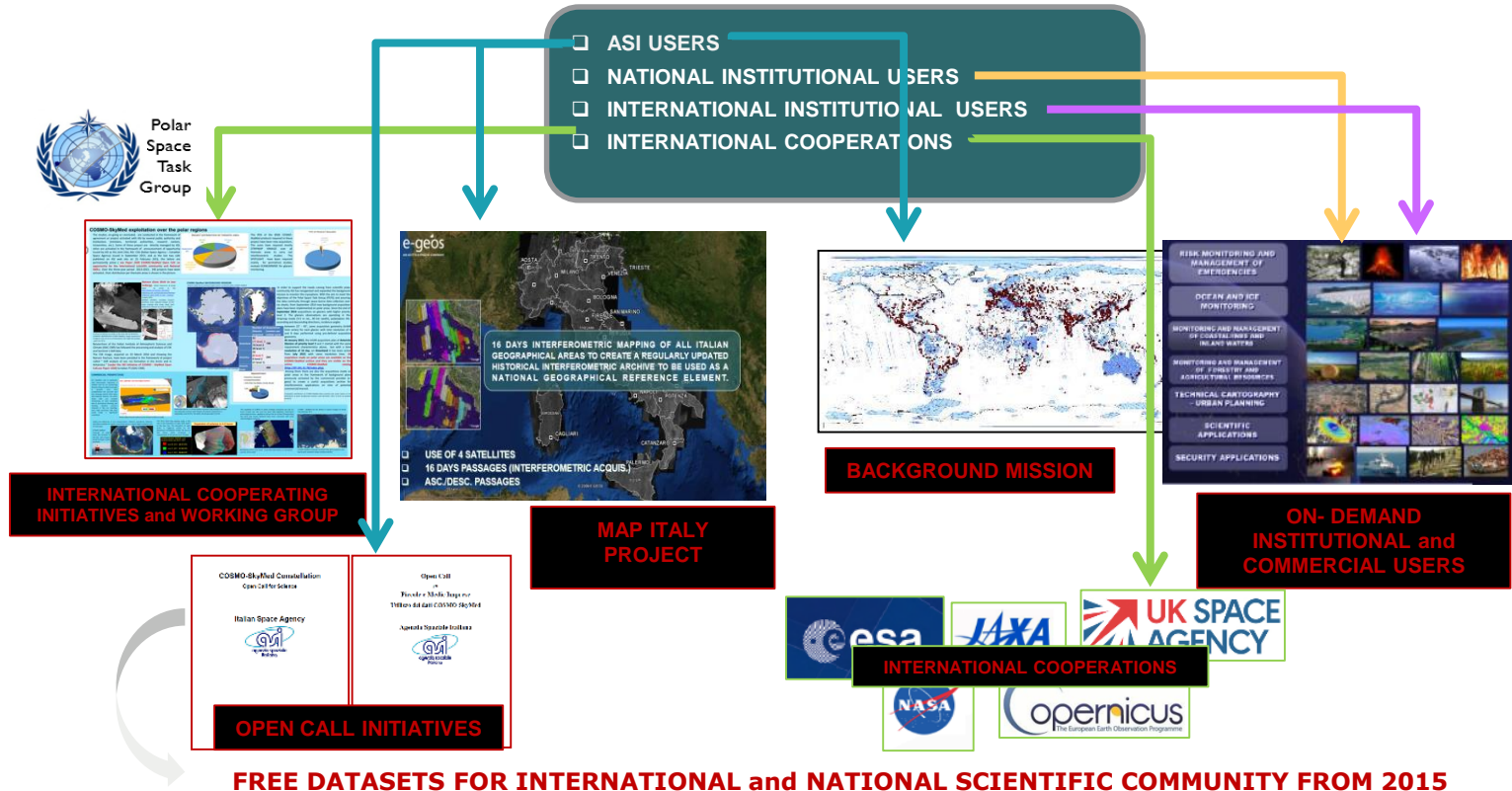
Cosmo SkyMed/ SIASGE Constellation



Interferometric revisit:



CSK Acquisition Plan: MISSION UTILIZATION STRATEGY

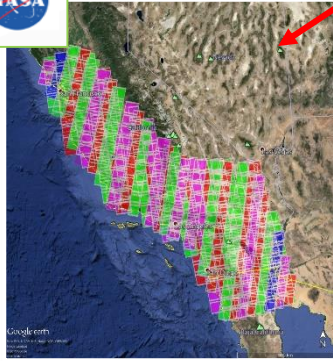
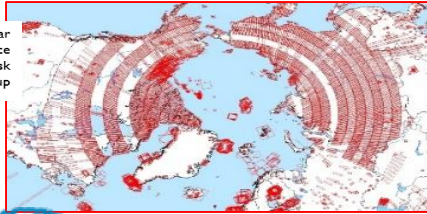


FREE DATASETS FOR INTERNATIONAL and NATIONAL SCIENTIFIC COMMUNITY FROM 2015

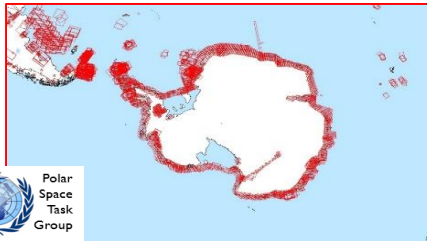
CSK Acquisition Plan: MISSION UTILIZATION STRATEGY (cont.)



Polar
Space
Task
Group



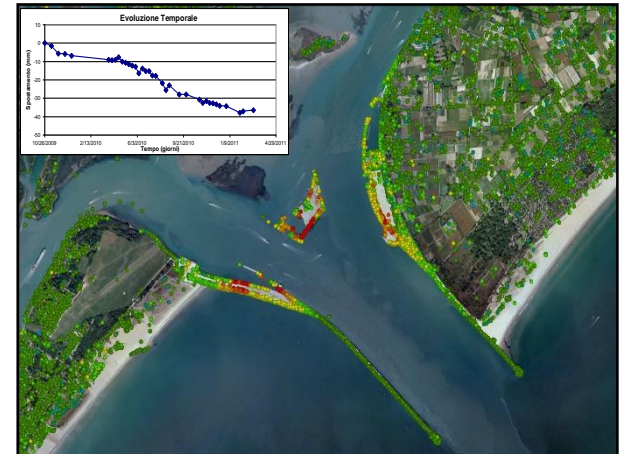
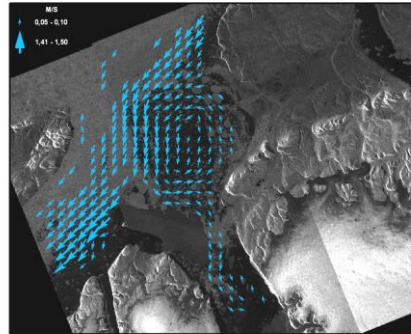
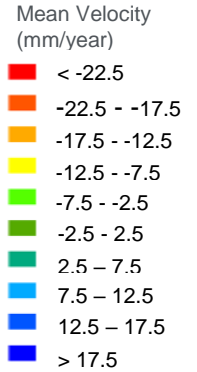
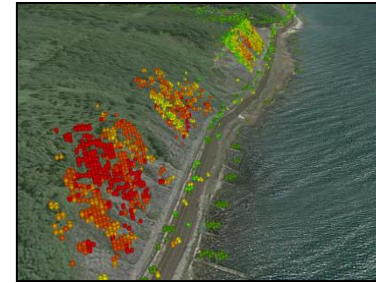
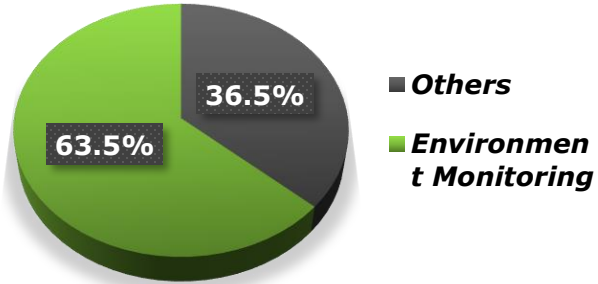
Polar
Space
Task
Group



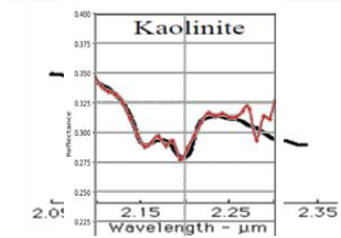
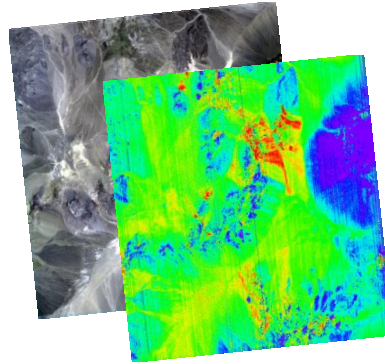
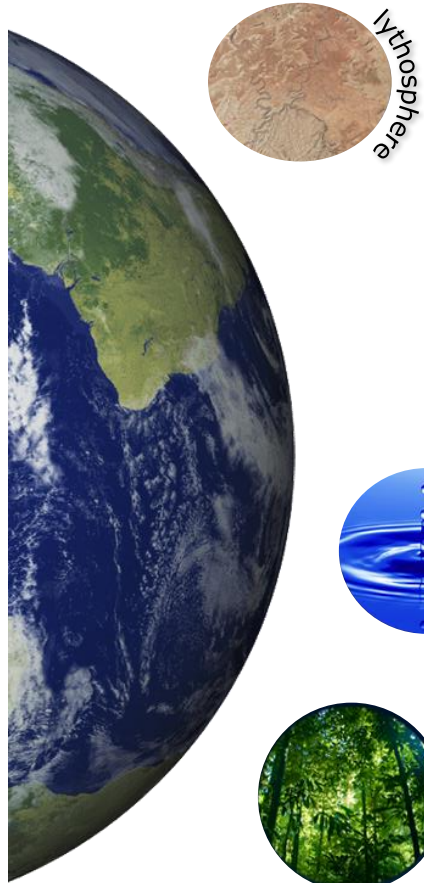
Cosmo SkyMed 4 Environment



R&D ASI Projects



PRISMA 4 Environment

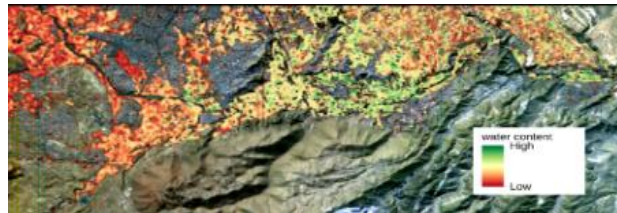


PRISMA reflectance vs. spectral library

Turbidity map on Lake Trasimeno (IT)



Vegetation Water content map



Thank you for your attention