

# ERS-1/2 SAR and ENVISAT ASAR CEOS-ARD NRB Product Development Project

*This project fulfils the needs of ESA's Heritage Space Programme to generate a CEOS-ARD SAR product aligned to Sentinel-1 and Sentinel-2 ARD outputs, for the historic ERS-1/2 and ENVISAT missions.*

## Baseline specification:

CEOS-ARD specification for SAR Normalised Radar Backscatter (NRB) PFS v5.5

## Development approach:

Closely follows Sentinel-1 approach to support:

- Immediate analysis and facilitation of data use
- Interoperability
- Cloud computation capability
- Open science compliance

## Current status:

- **Builds Upon:** PyroSAR and SNAP
- **DEM:** EEA-10 / GLO-30 or GLO-90
- **RTC:** Flattening Gamma: Radiometric Terrain Correction for SAR Imagery
- **Gridding:** Aligned to MGRS, geometry of each tile read from a Sentinel-2 reference KML file
- **CEOS Requirement Traceability:**
  - 30/30 *Threshold* requirements (**100% compliance**)
  - 7/14 *Target* requirements (**50% compliance**)