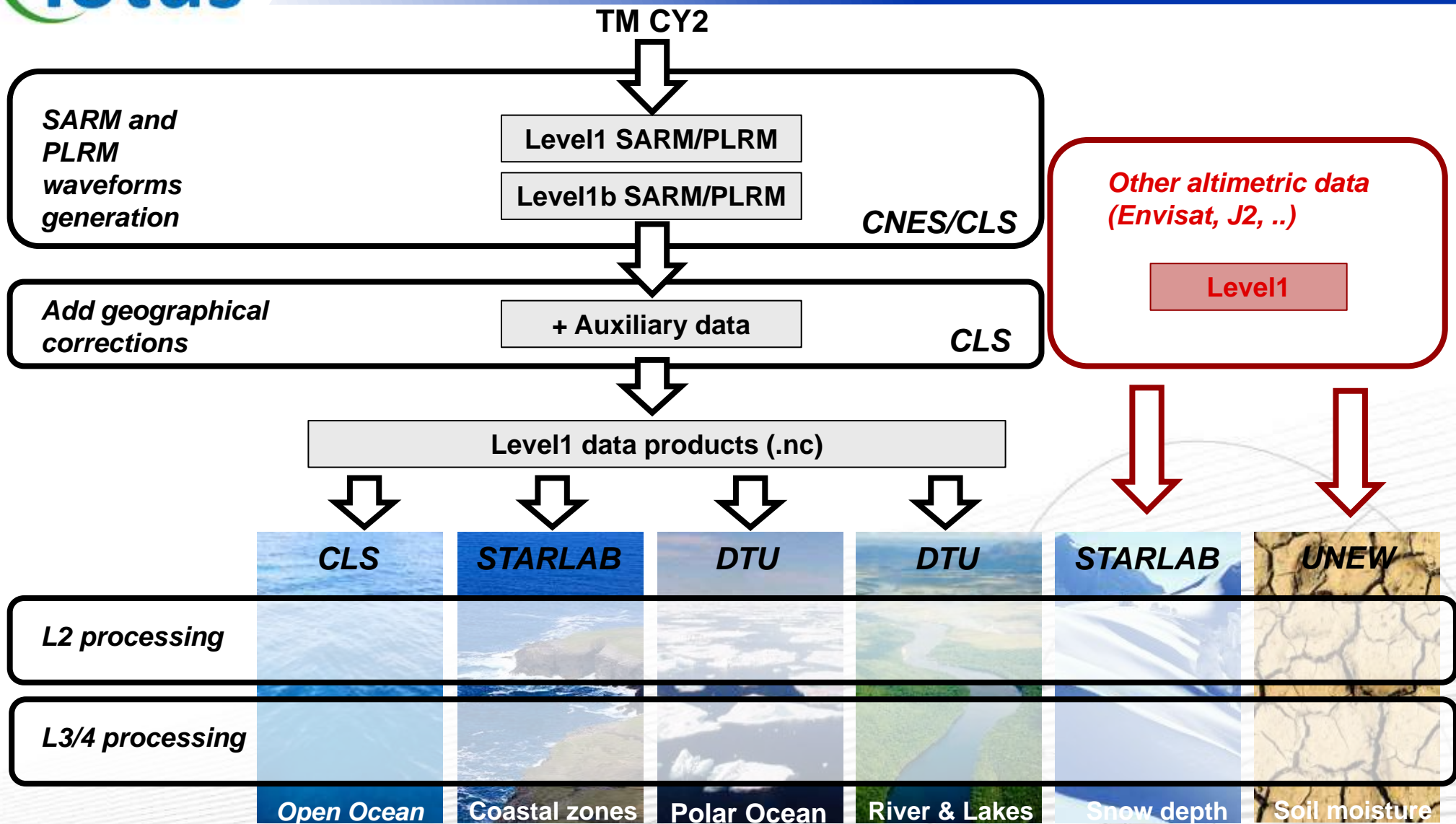


TASK 4.3: PREPARATION OF PROTOTYPE DATA SETS

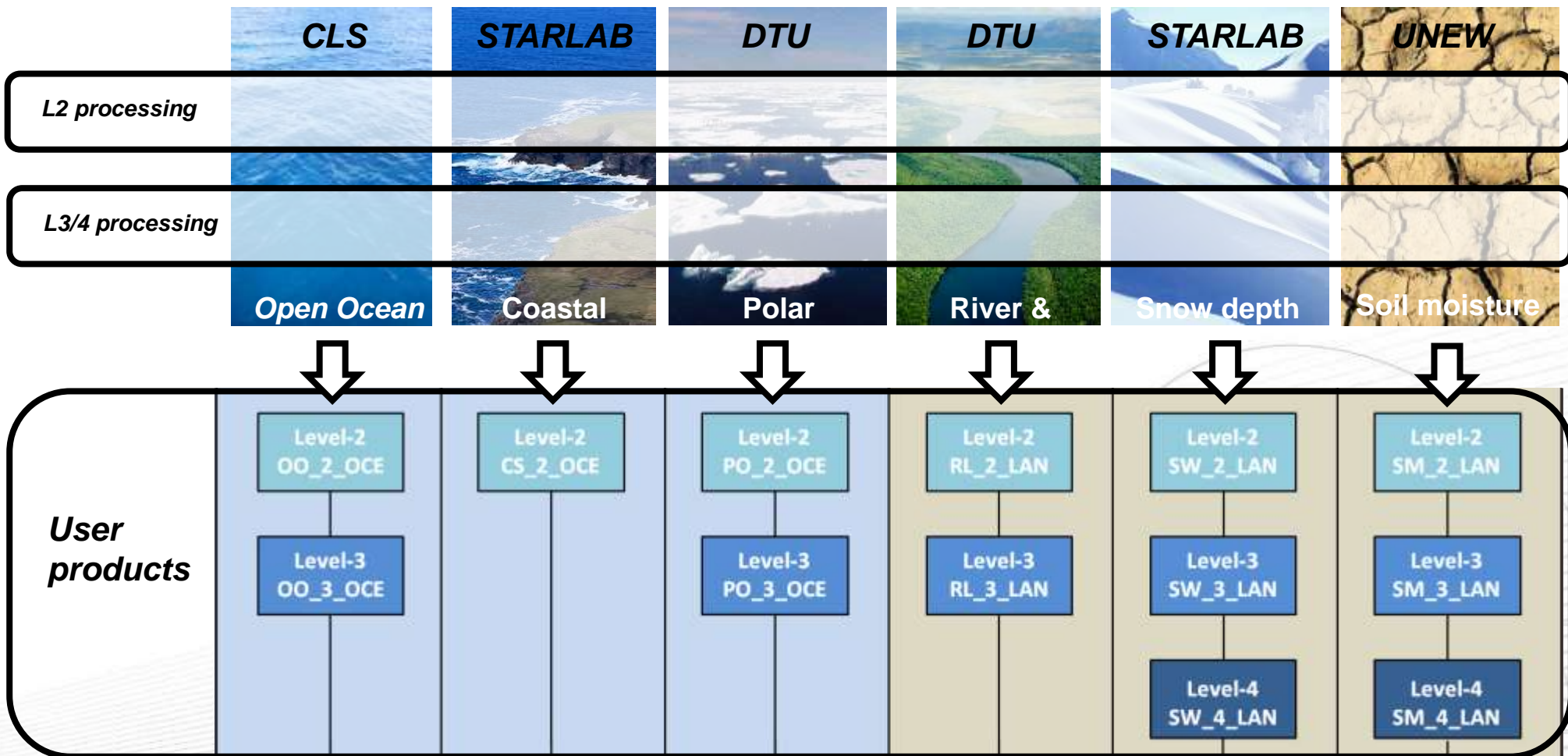
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- **Objectives:**

- Compile prototype data from Cryosat-2 data
- Computing models, standards and ancillary data to form GDR-like products
- Allowing efficient routing and storage data from the LOTUS partners to the CLS server
- Disseminating prototype data sets to users through a cloud-based web service (with a tree-index data storage to ease retrieving data)



- Each partner is generating their own Level-2 and Level-3/4 data products:



- Cryosat-2 Level1BS data have been provided internally to each partner:
 - According to different processing needs (with weighting function and oversampling method applied or not)
 - Over the selected periods
 - Over the selected geographical zones
 - Processing : extensive time CPU (e.g. 10 days for processing NE Atlantic zone with a single core processor) and 34Go delivered data

Site	Zone	Partners	2012									2013						
			Mar	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Jul	Aug	Sept	
NE Atlantic	Lon : 15W / 17E Lat : 46N / 61N	Starlab																
Venice	Lon : 10E / 22E Lat : 38N / 48N	DHI																
Icebridge	Lon : Lat : > 60N	DTU										some tracks						
Svalbard	Lon : 10°E / 30°E Lat : 78°N / 85°N	DTU																
Denmark	Lon : 8°E / 13°E Lat : 54.5N / 58N	DTU																
Thailand	Lon : 99°E / 101.5°E Lat : 13.25N / 17N	DTU																
Brahmaputra river	Lon : 89.5°E / 91.5°E Lat : 21.75N / 24.25N	DTU																
Amazon river	Lon : 61°W / 47°W Lat : 5°SN / 3°N	DTU																
Switzerland	Lon : 6°E / 11°E Lat : 45°N / 49°N	Starlab																

Product description	Product short name	Temporal Coverage	Geographic area	File Size (MB)
L2 Open Ocean product derived from Cryosat-2 data (CPP)	CS_CPP_OO_2_OCE	1 st May 2012 – 30 th April 2014	N.E. Atlantic	339
			Adriatic sea	41
			Singapore bay	206
L3 Open Ocean product (CPP)	CS_CPP_OO_3_OCE	1 st May 2012 – 30 th April 2014	N.E. Atlantic	
			Adriatic sea	
L2 Coastal Sea product derived from Cryosat-2 data (CPP)	CS_CPP_CS_2_OCE	1 st May 2012 – 30 th April 2013	N.E. Atlantic	200
			Adriatic sea	25
L2 Polar Ocean product derived from Cryosat-2 data (ESA)	CS_ESA_PO_2_OCE	1 January 2012 – 31 December 2012	Svalbard	193
		20 March 2011	Arctic tracks	13
		15-28 March 2012		
L2 River and Lake product derived from Cryosat-2 data (ESA)	CS_ESA_RL_2_LAN	16 July 2010 – 10 July 2014	Denmark	103
		16 July 2010 – 8 July 2014	Thailand Chao Phraya River	65
		1 October 2012 – 9 July 2014	Amazon River	332
		13 October 2012 – 3 July 2014	Brahmaputra River	14
L3 Soil Moisture product derived from Cryosat-2 data (ESA)	CS_ESA_SM_3_LAN	1 January - 31 December 2013	Simpson desert	0.006
		1 January - 31 December 2013	Tenere desert	0.015
		1 January - 31 December 2013	Kalahari desert	0.008

- The prototype data sets for ocean and land areas are available from free access internet service <ftp://ftp.spacecenter.dk/pub/EU-LOTUS/> or directly from <https://nas-ext.cls.fr:443/fbsharing/PRPt1Kuc> (CLS)
- D4.3 Processed Prototype data sets document: ***submitted***