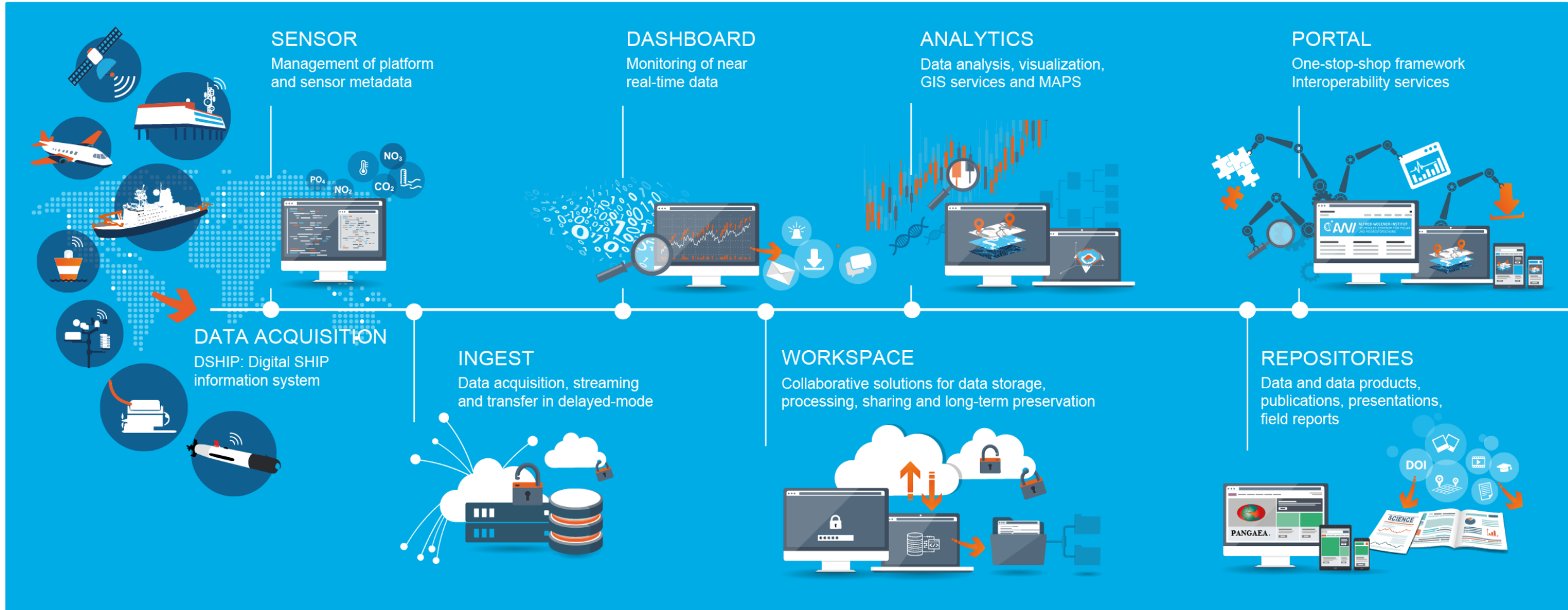


Federative Geospatial Data Infrastructure of the AWI O2A Framework

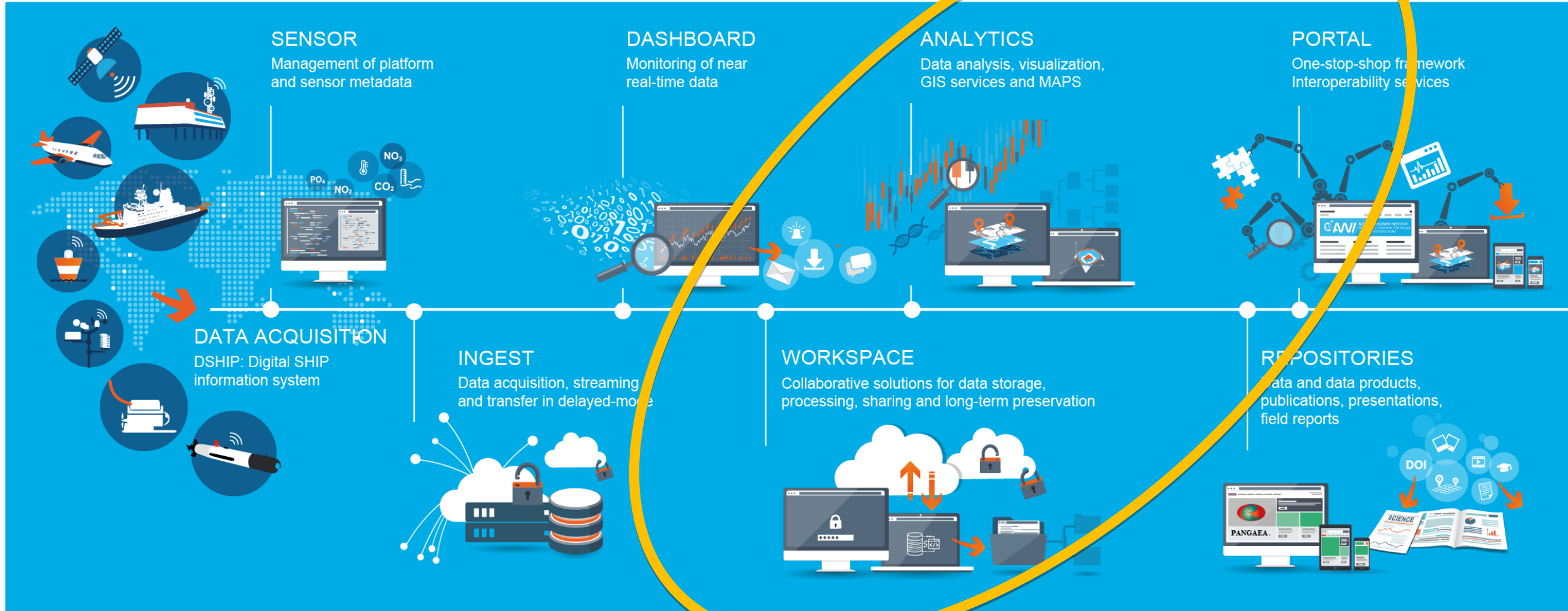
Tilman Dinter, Peter Konopatzky, Andreas Walter,
Roland Koppe, Angela Schaefer

ESA PHI-Week, 14.10.2021

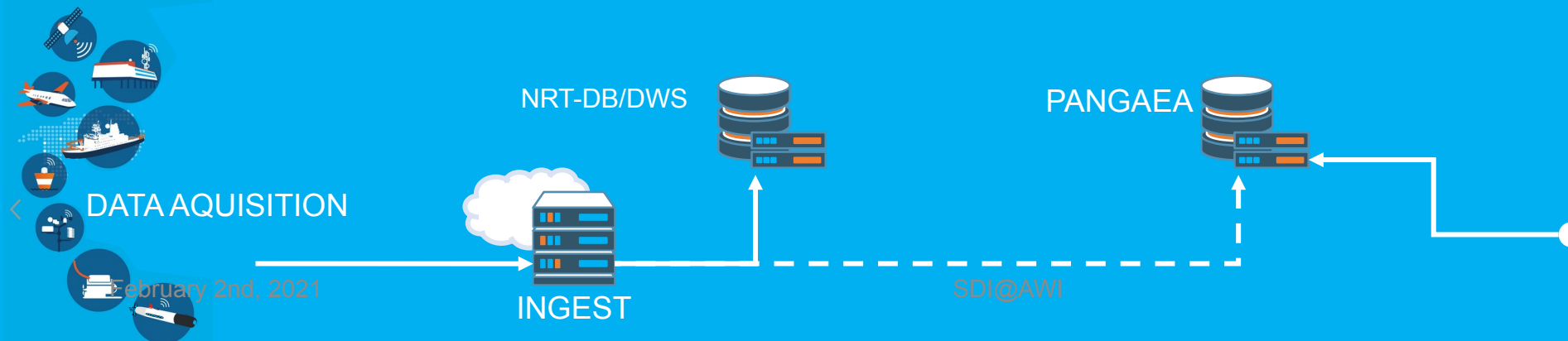
Observation to Analysis & Archive O2A



Observation to Analysis & Archive O2A



O2A – Observation to Archive

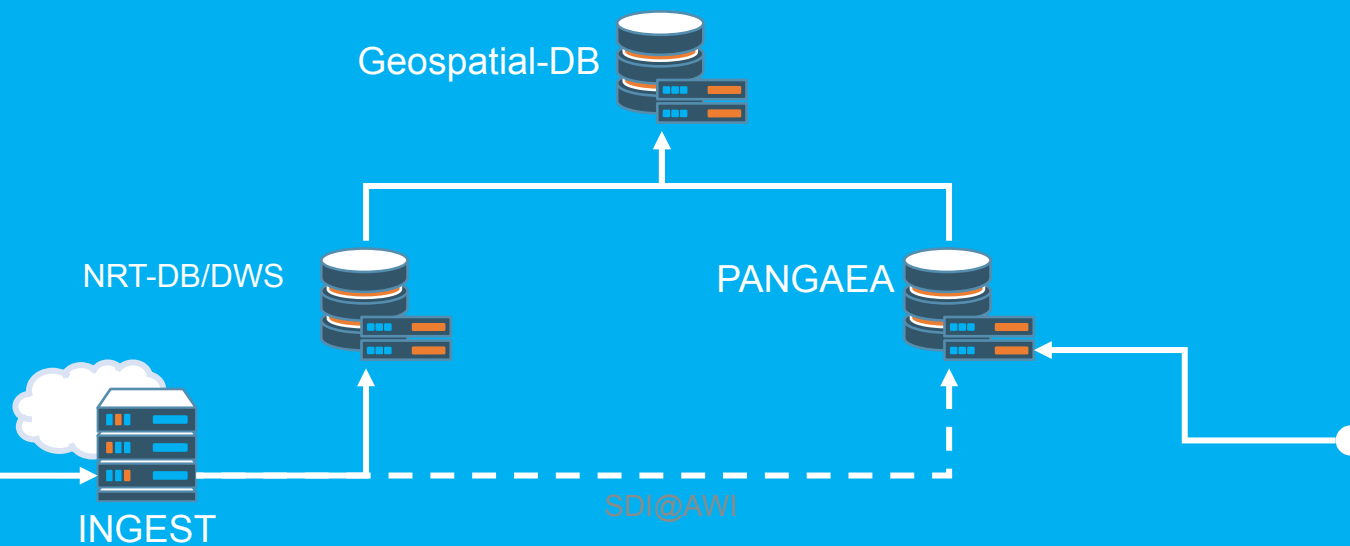


O2A – Observation to Archive



DATA ACQUISITION

February 2nd, 2021

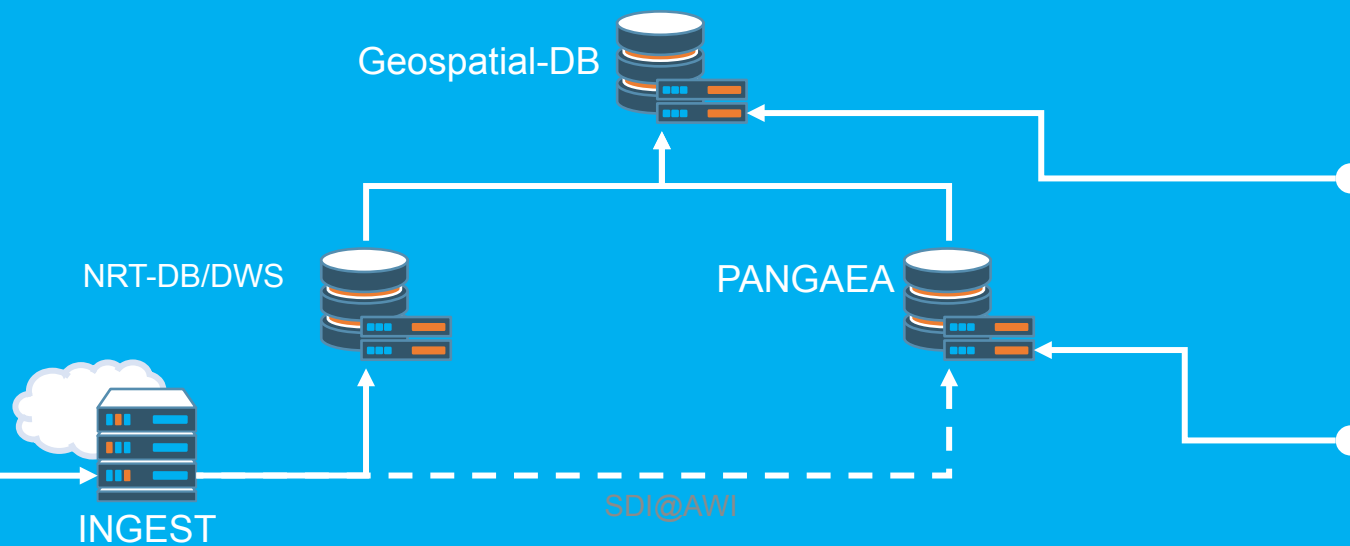


O2A – Observation to Archive



DATA AQUISITION

February 2nd, 2021

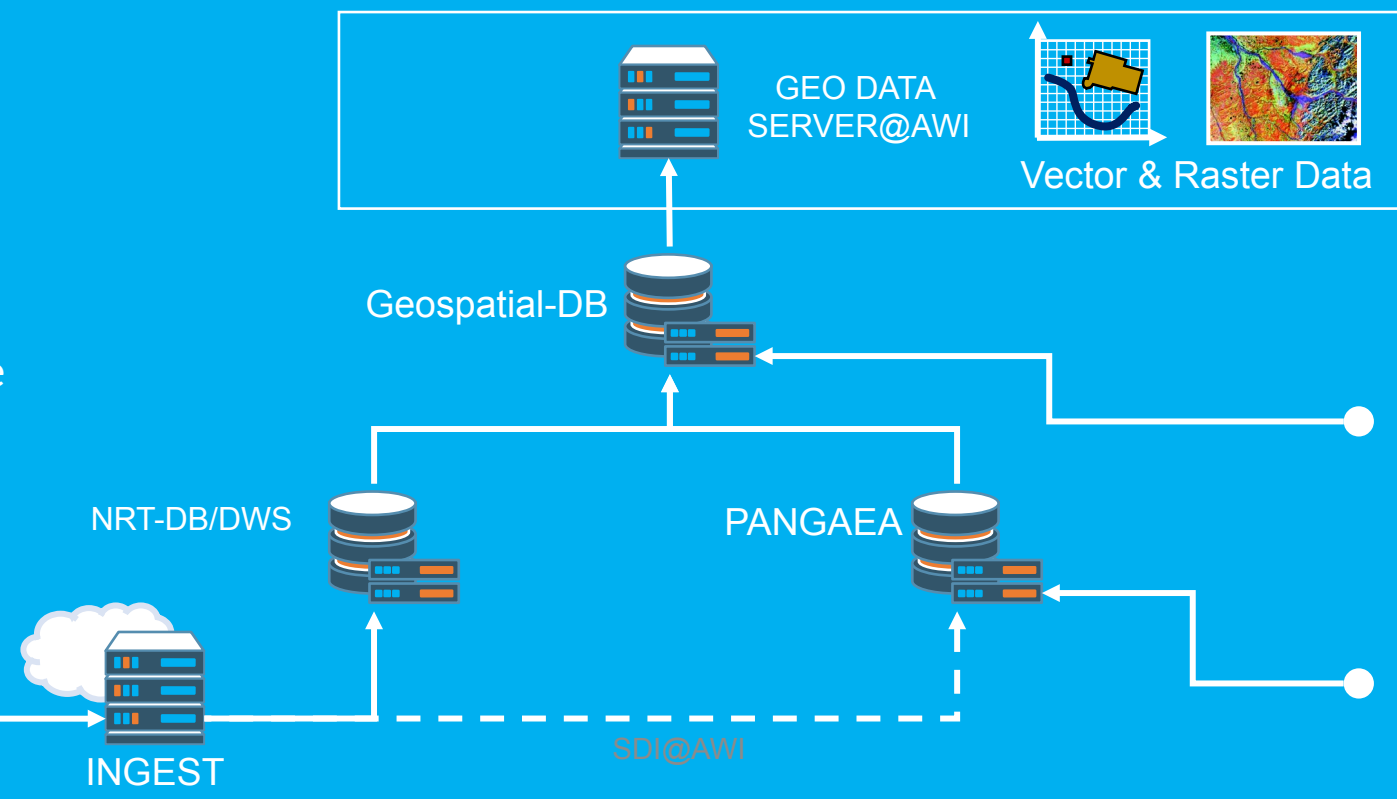


O2A - Observation to Archive



DATA AQUISITION

February 2nd, 2021

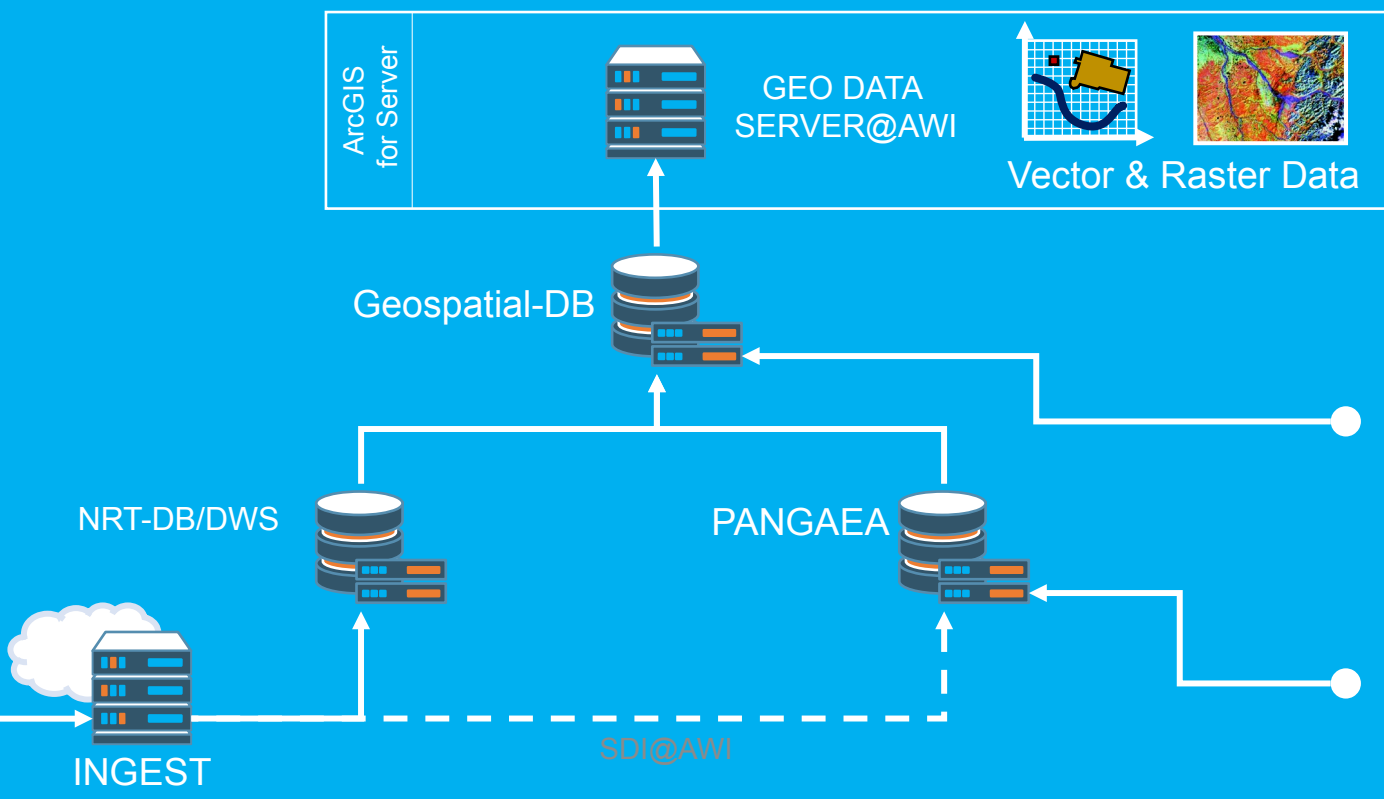


O2A - Observation to Archive



DATA AQUISITION

February 2nd, 2021

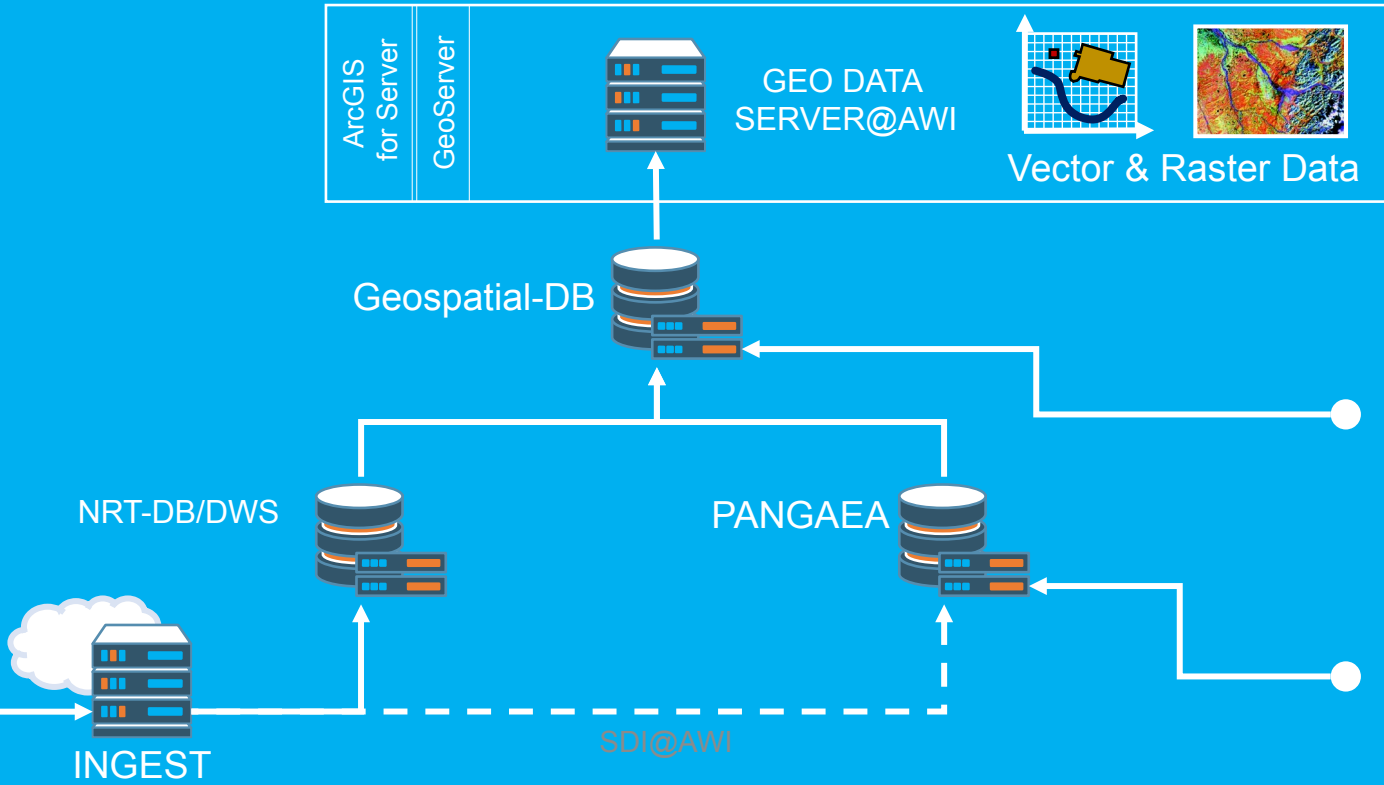


O2A – Observation to Archive



DATA AQUISITION

February 2nd, 2021

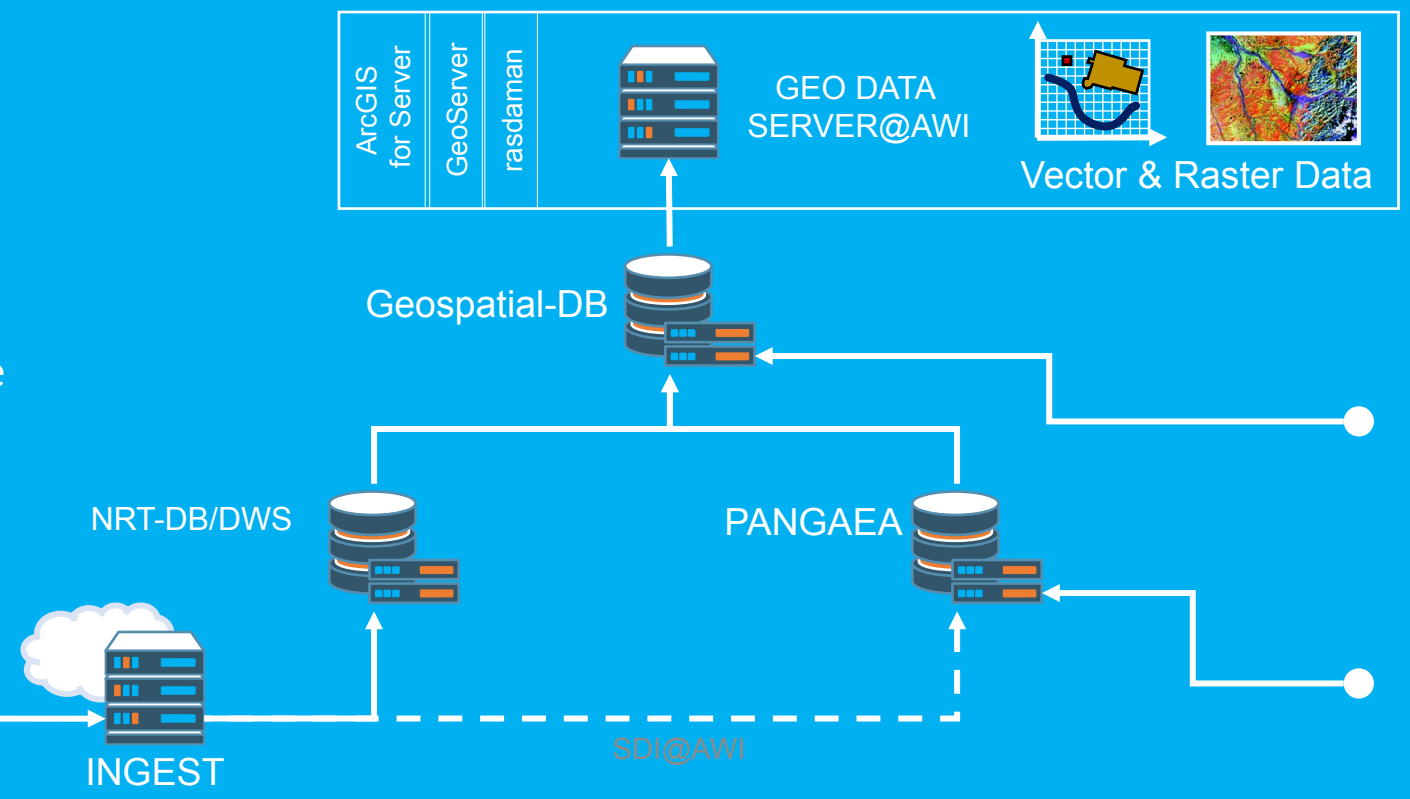


O2A – Observation to Archive



DATA AQUISITION

February 2nd, 2021



Portal@AWI
Visual Exploration Framework

OGC Services

ArcGIS for Server
GeoServer
rasdaman

GEO DATA SERVER@AWI

Vector & Raster Data

Geospatial-DB

O2A - Observation to Archive



DATA AQUISITION

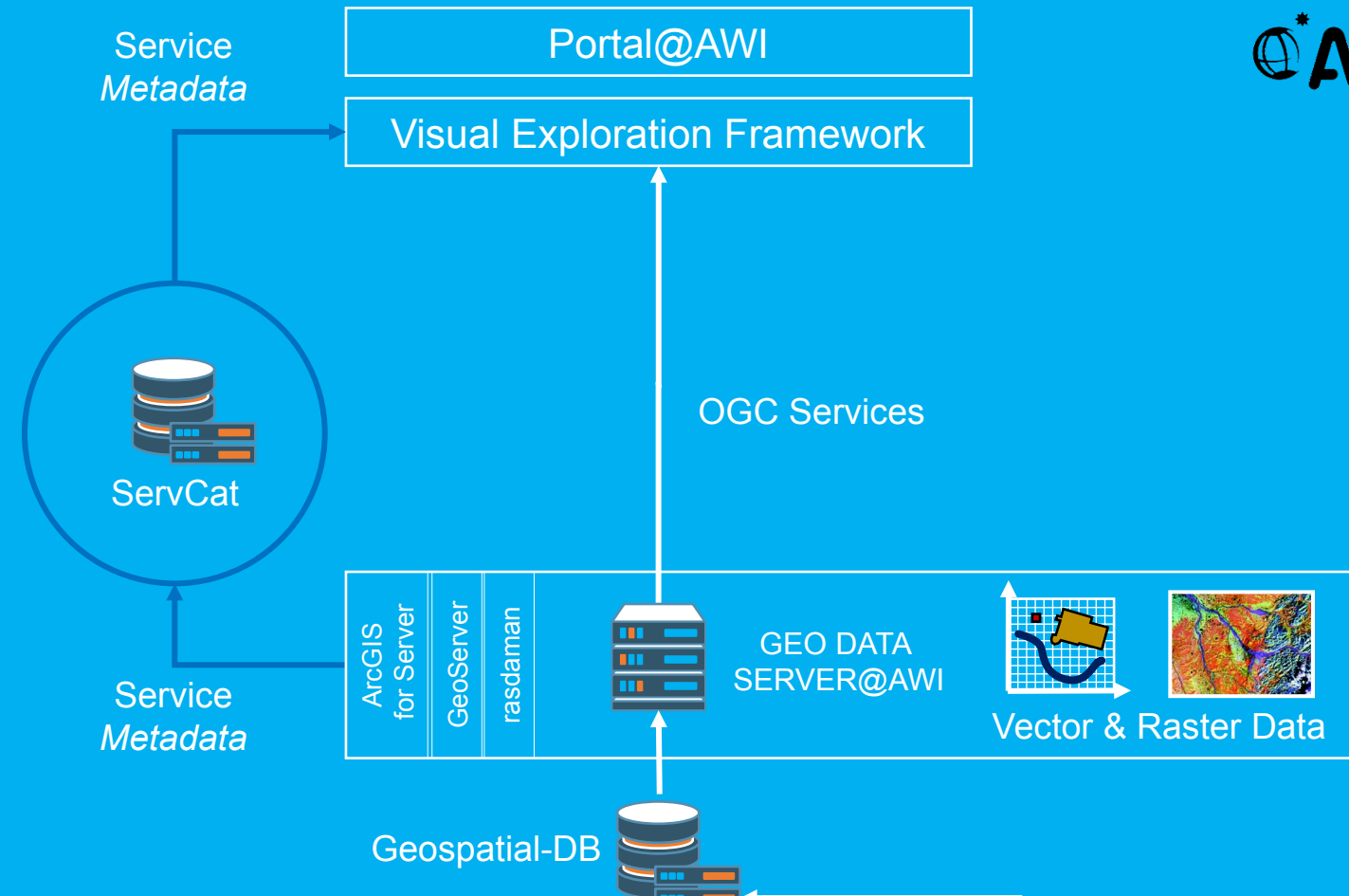
February 2nd, 2021

NRT-DB/DWS

INGEST

PANGAEA

SDI@AWI



O2A - Observation to Archive

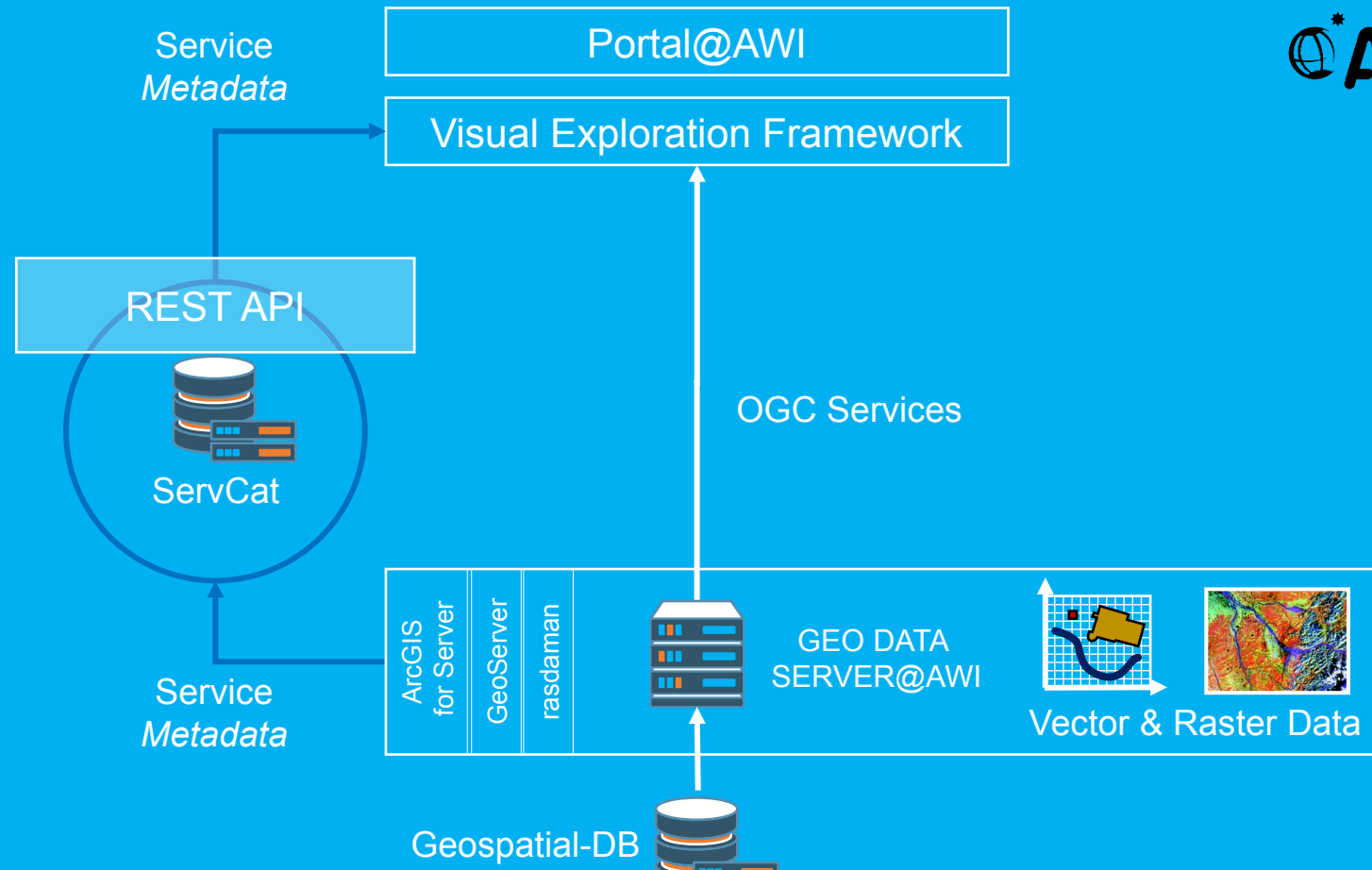


DATA AQUISITION

February 2nd, 2021

INGEST

SDI@AWI

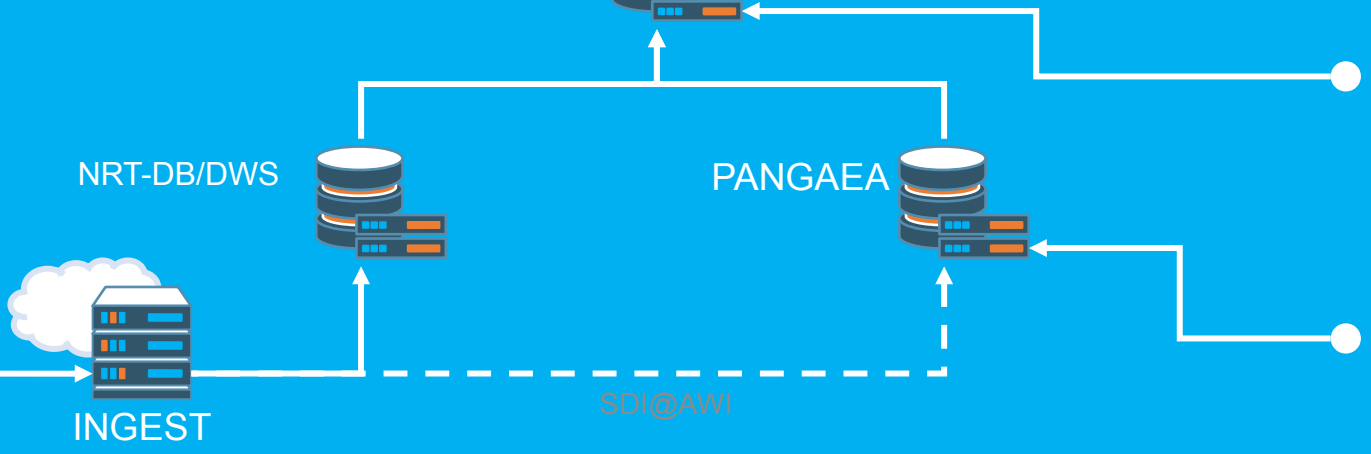


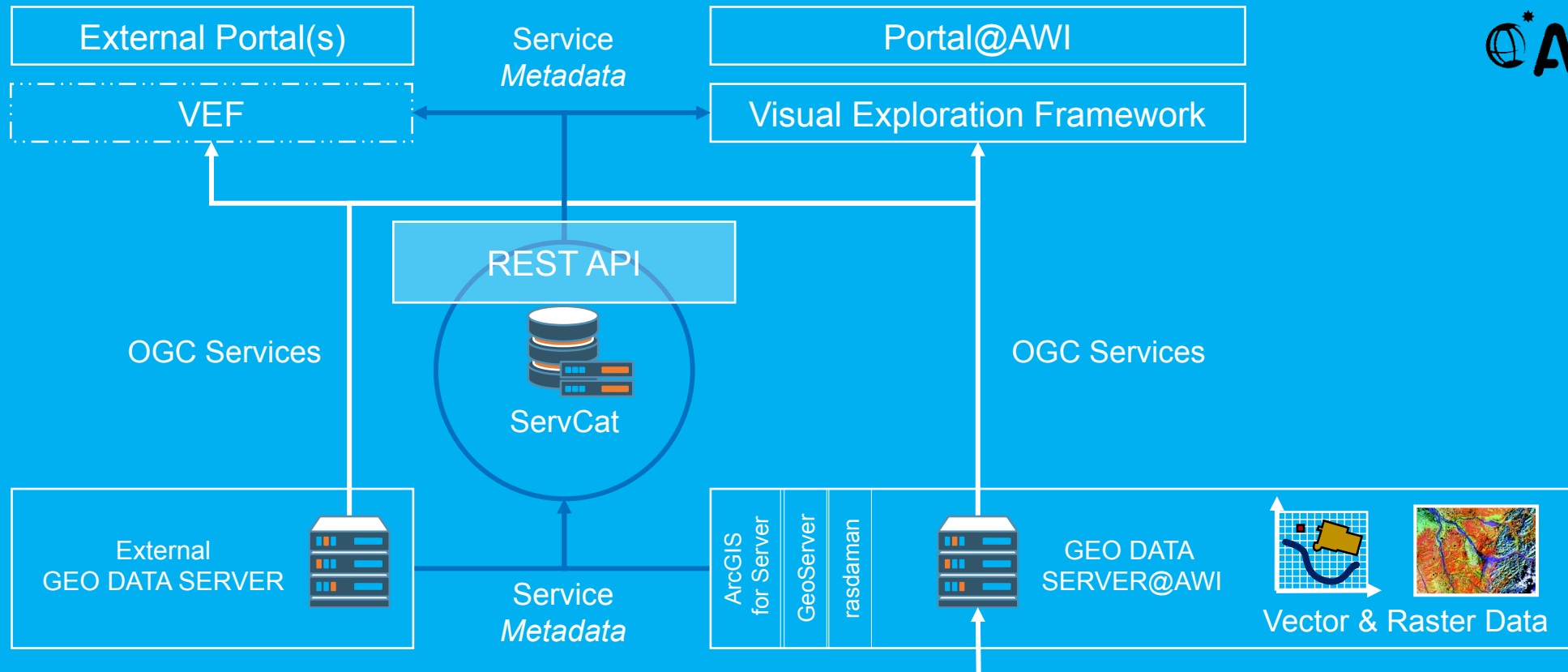
O2A - Observation to Archive



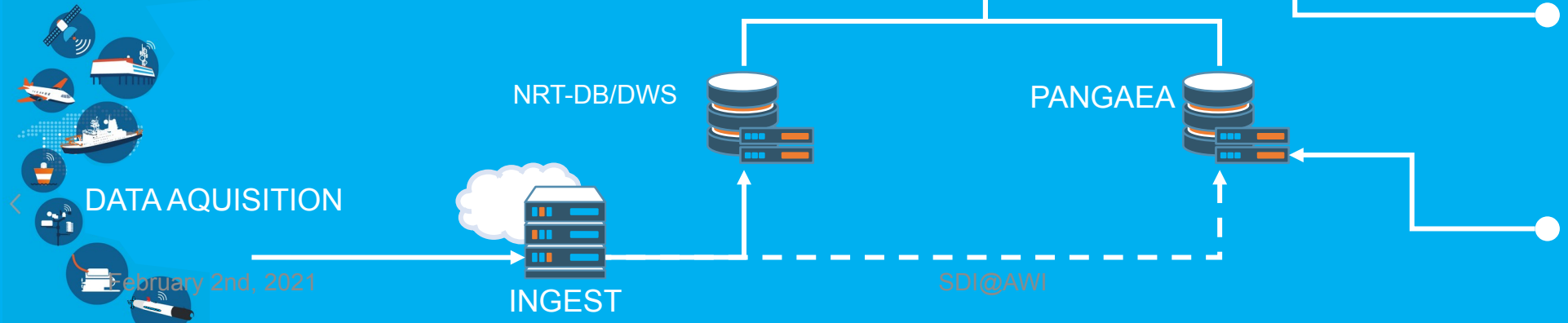
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February 2nd, 2021

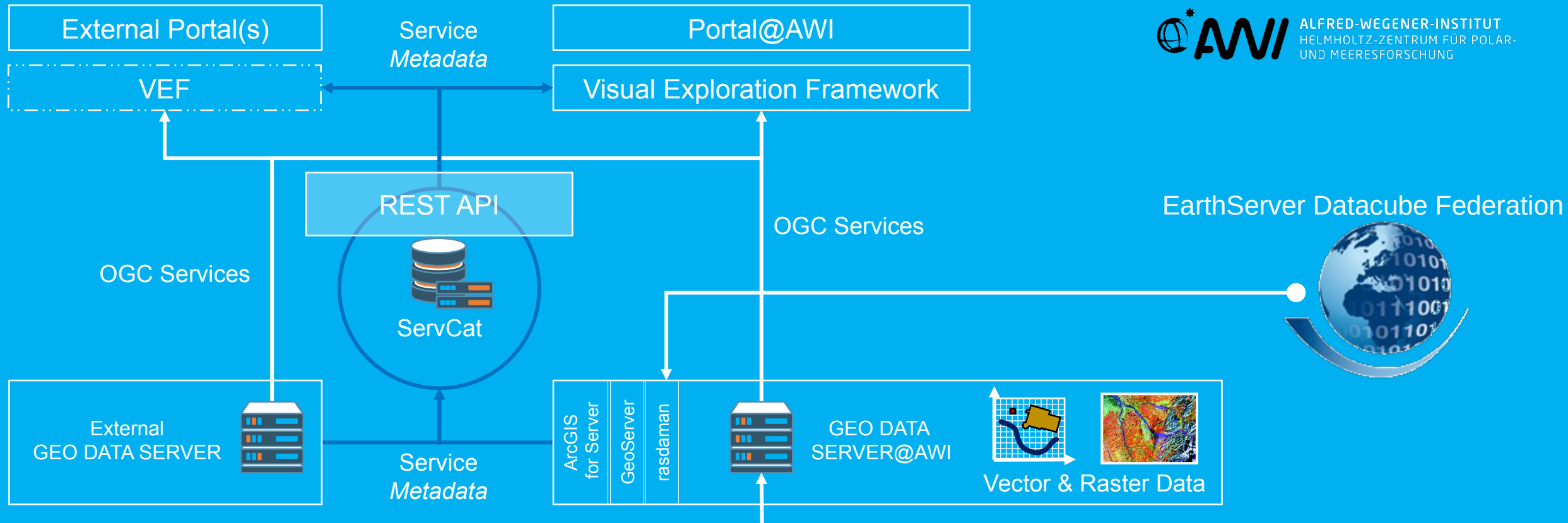




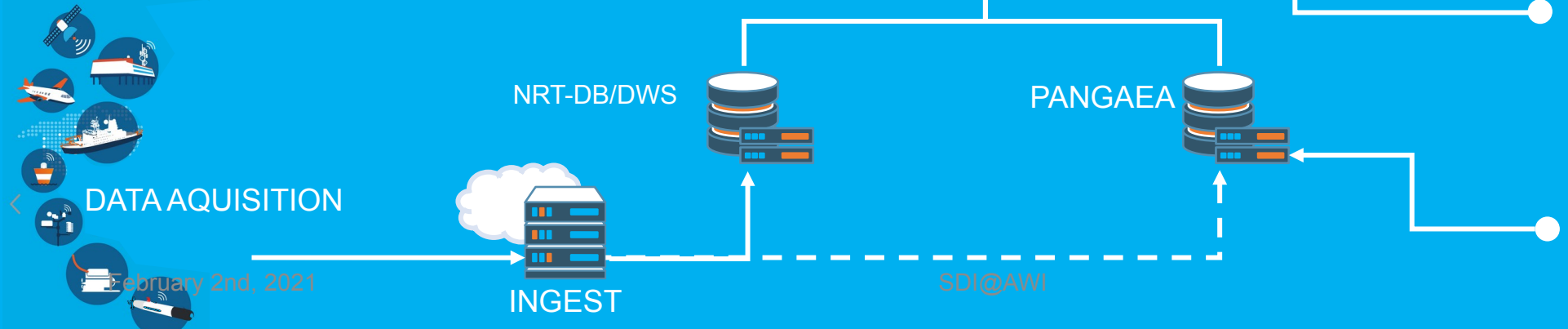
O2A - Observation to Archive



February 2nd, 2021



O2A - Observation to Archive



February 2nd, 2021

rasdaman data Federation



OGC Web Services (OWS) Client - Mozilla Firefox

EarthServer

https://data.awi.de/rasdaman/ows

400 coverages available, total volume 440.77 TB - Local volume 11.64 TB - Remote volume 429.12 TB

Coverage ID	Coverage subtype	Coverage location	Coverage size	Display footprints
<input type="text" value="Search coverage by ID ..."/>				
UFZ_Soilmoisture_LatLon	RectifiedGridCoverage		315 KB	
UFZ_Soilmoisture_TD	ReferenceableGridCoverage		3.79 GB	<input type="checkbox"/>
UFZ_Soilmoisture_test	ReferenceableGridCoverage		10.35 GB	
trackline	GridCoverage		1.94 KB	
ATMOS2_area	RectifiedGridCoverage	hzg.earthserver.xyz	442.76 KB	
ATMOS2_latitude	RectifiedGridCoverage	hzg.earthserver.xyz	442.76 KB	
ATMOS2_longitude	RectifiedGridCoverage	hzg.earthserver.xyz	442.76 KB	
ATMOS_ANO3J_ALL	RectifiedGridCoverage	hzg.earthserver.xyz	417.18 MB	
ATMOS_ANO3J_NOSHIP	RectifiedGridCoverage	hzg.earthserver.xyz	417.18 MB	
ATMOS_ANO3J_SHIP	RectifiedGridCoverage	hzg.earthserver.xyz	417.23 MB	

First Previous 3 4 5 6 7 Next Last

marine-data.de: data access (proof of concept)



The screenshot displays the marine-data.de web application interface. On the left, the 'Map Content' panel shows 'Data Layers' with 'Chlorophyll a' and 'Sea Ice Coverage' selected. A vertical color scale for 'Sea Ice Coverage' ranges from 0.00 (white) to 100.00 (black). Below this, the 'Temporal Coverage' section shows a date slider set to '2017-06-24' and buttons for 'Get Image', 'Download NetCDF', and 'Download GeoTIFF'. The main map area shows a satellite-style map of the Arctic region with a color-coded overlay representing sea ice coverage. A central pop-up window from AWI (Alfred-Wegener-Institut) displays a line graph titled 'Sea Ice Coverage from the last ten days at Lat/Lng: 76.23869811207888 / -162.27988673517137'. The graph shows a sharp decline in coverage from approximately 95% on 2018-01-21 to about 75% on 2018-01-30. A second pop-up window in the bottom right corner is a file dialog titled 'Öffnen von SeaIceRgb.nc', showing options to open or save the file. The bottom of the interface includes a footer with 'GIS Viewer 1.0 ©2013-2020 Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung' and navigation links.