

TERRA SCOPE

and its use

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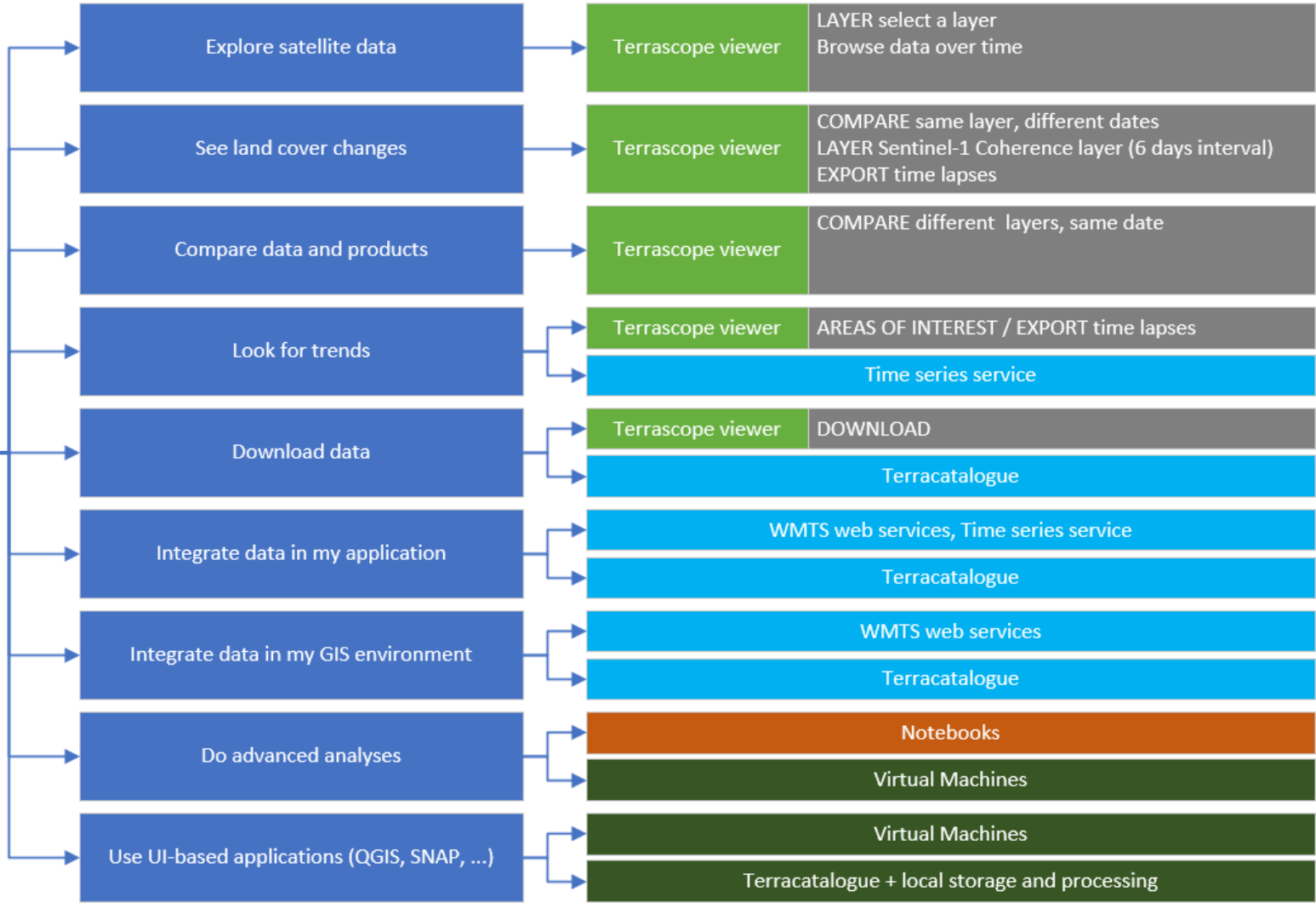


What is Terrascope?

- Belgian Collaborative Ground Segment for Sentinel missions
- **Enabling platform**
- Easy access to
 - satellite **data**
 - **products** derived from satellite data
 - **services** (OGC web services, time series service)
 - **cloud processing capacity** (Jupyter Notebooks, Virtual Machines, openEO)
- **Open** for **everyone** (scientists, public authority, industry, citizens)
- **Free to use** for everyone
- Funded by BELSPO



What do you want to do with Copernicus satellite data?



Analysis Ready Data (ARD)

- **Delivery of standard products**
 - takes away the hassle of preprocessing
 - let's you get to work immediately
- **Converted to directly useable format** (unzipped, Cloud Optimized GeoTIFF)
 - easy integration in geospatial analysis tools
- **Integration into web services**
 - time series extraction – see the evolution over time
 - CROPSAR – see evolution over time, even through the clouds
 - WM(T)S – integrate in geospatial software without download
 - openSearch catalog – find (and download) data and products

Enabling platform: use case #1

VMM – Watermonitor – water quality from space

VMM waterkwaliteitsmonitor

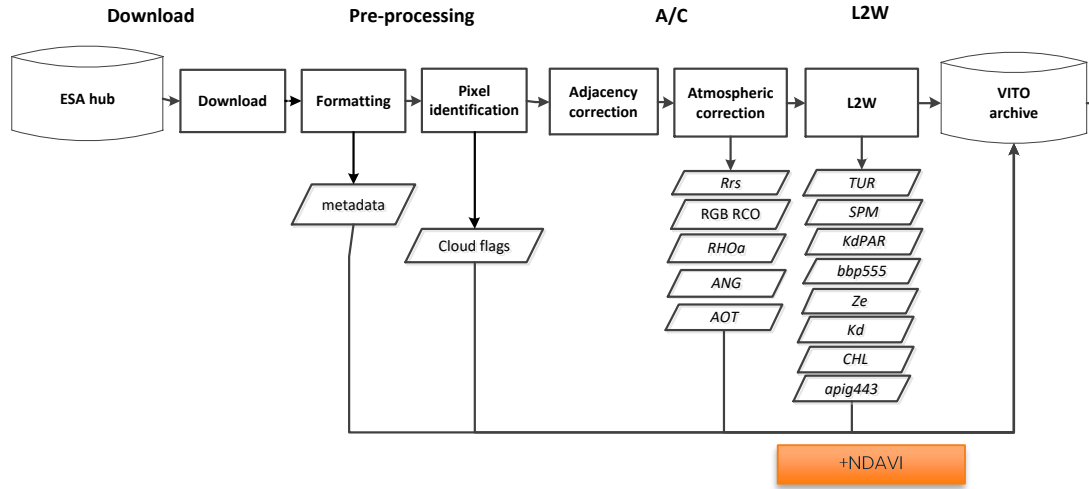
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Zoek op naam waterlichaam...

- 'S HERTOEGENGRACHT**
kleine beek
- AA I**
grote beek Kempen
- AA II**
grote beek Kempen
- AABEEK (MECHELEN)**
kleine beek
- ABEEK**
grote beek Kempen
- ABEEK LI**
kleine beek Kempen
- AFLEIDINGSKANAAL van de LEIE II + KANAAL van EEKLO**
grote rivier
- AFLEIDINGSKANAAL van de LEIE/SCHIPDONKKANAAL I**
grote rivier
- AFWATERINGSGRACHT**
brakke polderwaterloop
- ALBERTKANAAL**
grote rivier
- ANTITANKGRACHT NOORD**
kleine beek
- ANTITANKGRACHT ZUID**
kleine beek
- ANTWERPSE HAVENDOKKEN + SCHELDE-RIJNVERBINDING**
zeer licht brak meer

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Watermonitor-water quality processor

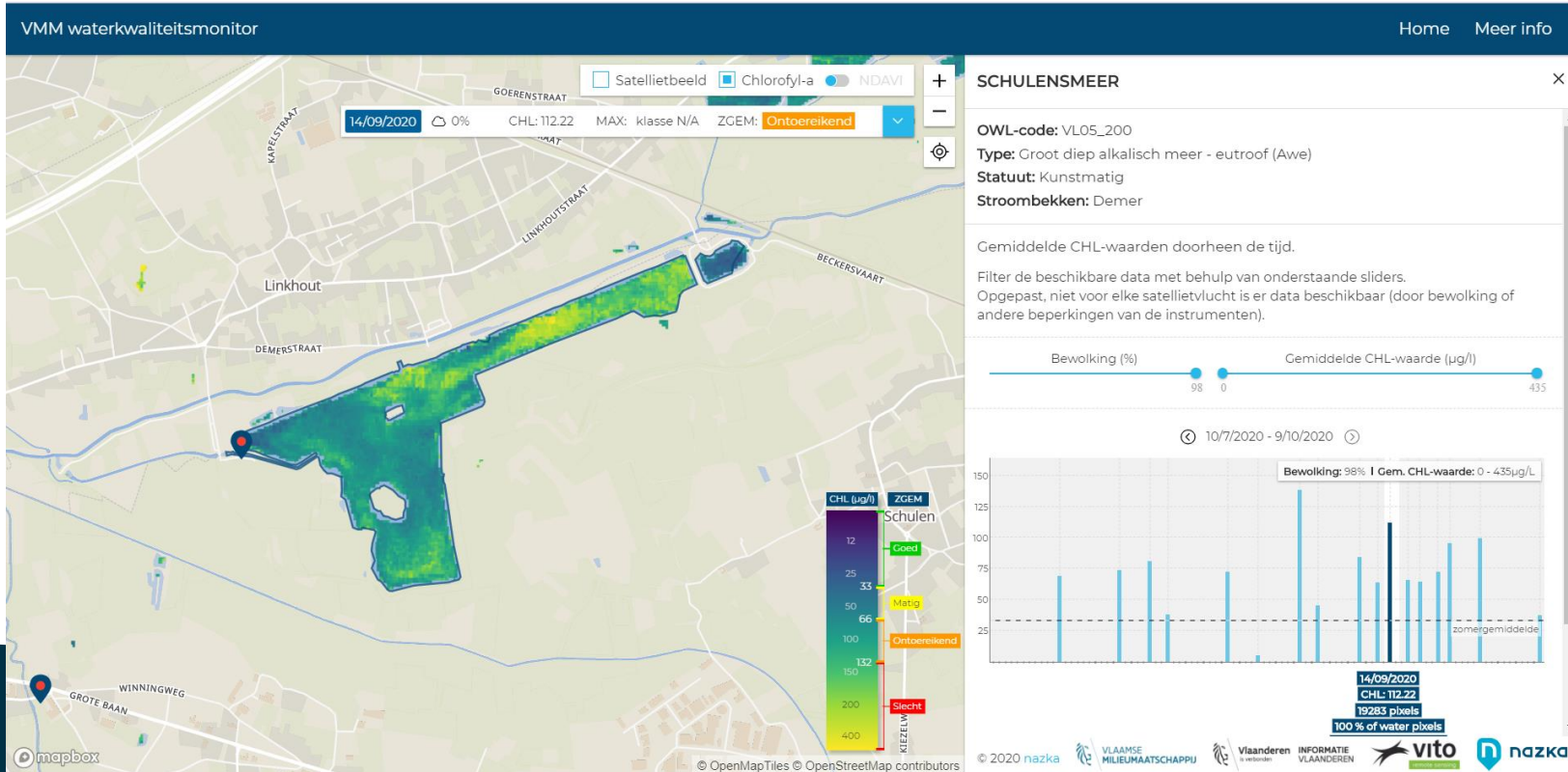


Developed, validated and demonstrated within FP7 and H2020 projects:

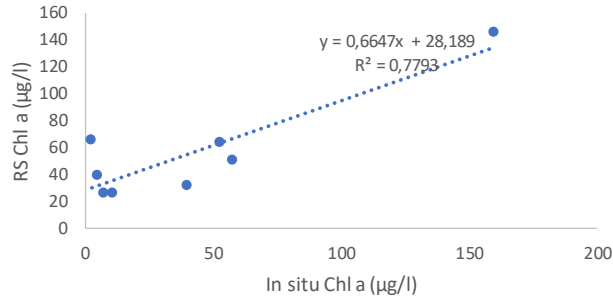
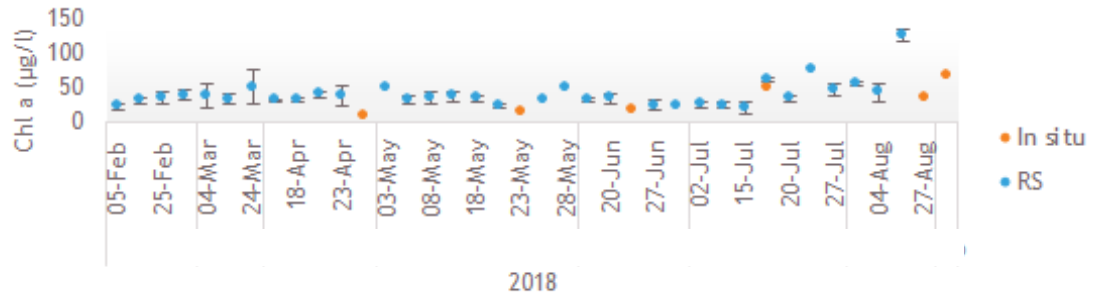
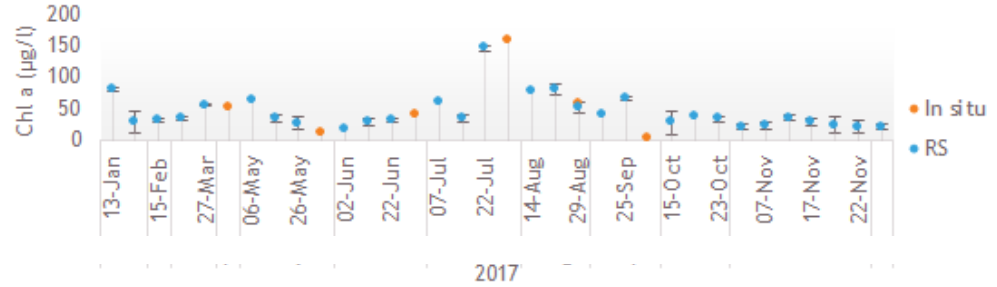


Enabling platform: use case #1

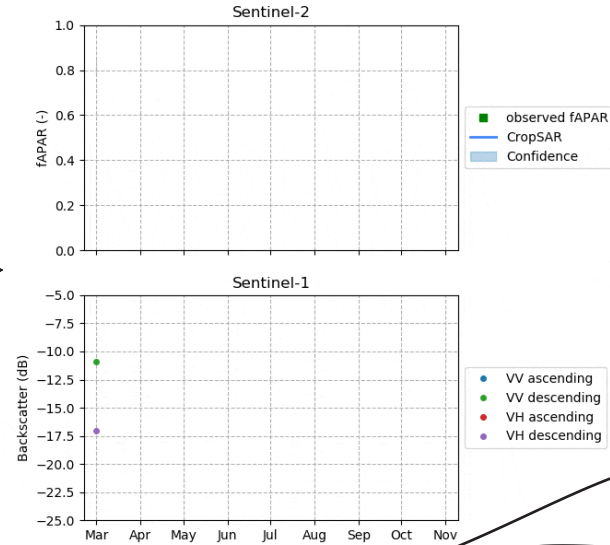
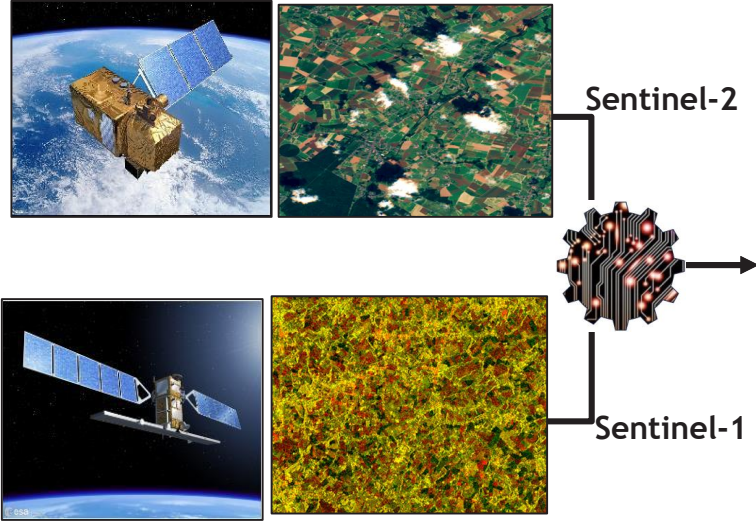
VMM – Watermonitor – water quality from space



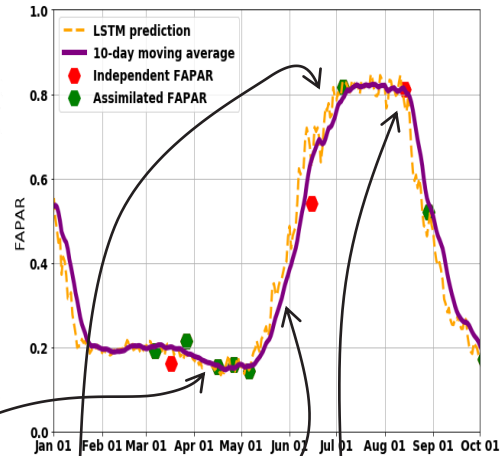
Watermonitor-validation with VMM in-situ Chl-a data: lake Schulensmeer



Enabling technology: CROPSAR



Sentinel-2 uninterrupted

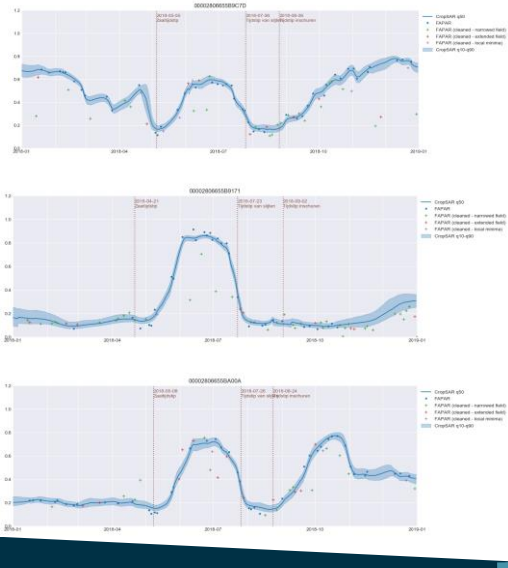


Enabling platform: use case #2

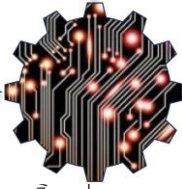
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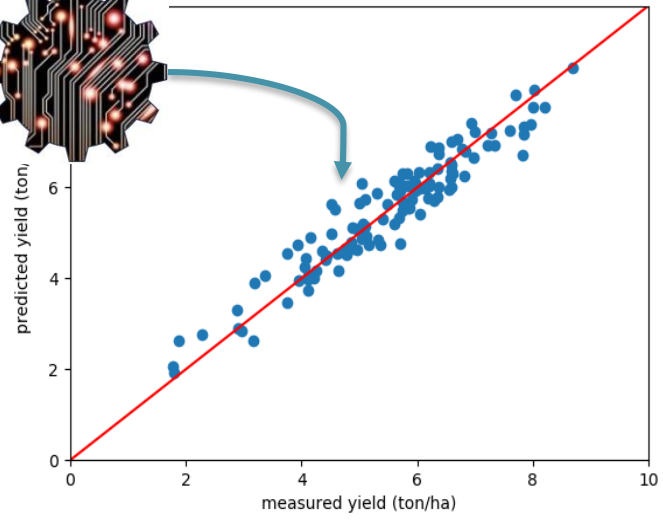
phenology



AI



crop production



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