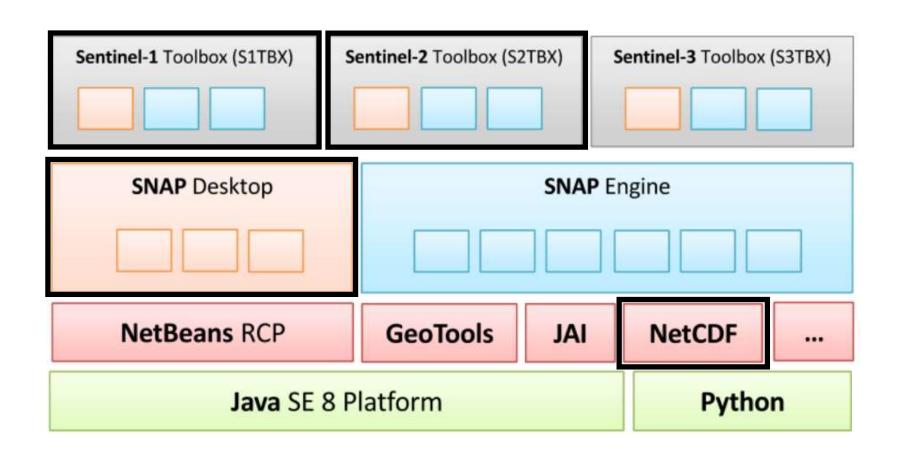
Introduction to SNAP



SNAP - What is?

- · An open-source, flexible and re-usable scientific Toolbox
- · Based on the strong software heritage of BEAM & NEST
- With specific Sentinel data exploitation tools
- Multi-mission
 - Sentinel-1/2/3
 - Envisat, MODIS, SeaWIFS, ...
 - AVHRR, SMOS, Chris-PROBA, SPOT VGT, ...
 - LANDSAT, RapidEye, SPOT
 - Generic formats: NetCDF, GeoTIFF, HDF...
- Modular and extensible

SNAP - Architecture



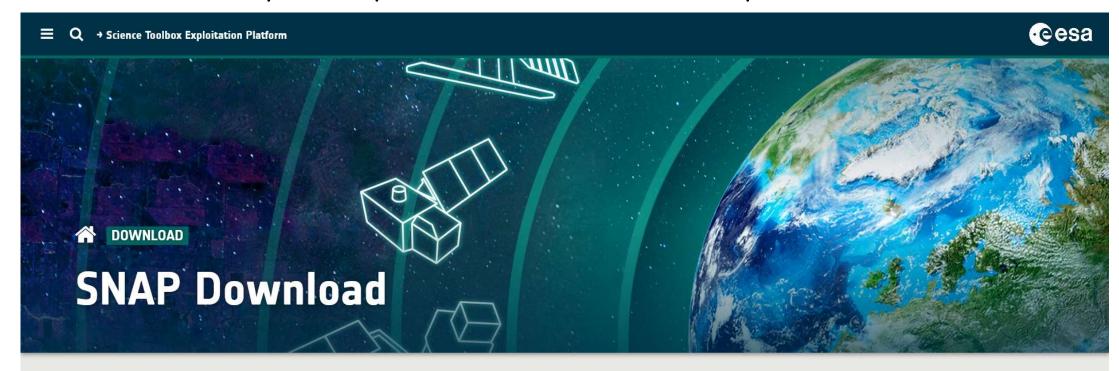
SNAP - Core features

- Common architecture and data model for all Toolboxes.
- Very fast image display and navigation even of giga-pixel images.
- Graph Processing Framework (GPF).
- Advanced layer management allows adding and manipulation of new overlays such as images of other bands, images from WMS servers or ESRI shapefiles.
- Flexible band arithmetic using arbitrary mathematical expressions.
- Accurate reprojection and ortho-rectification to common map projections
 Geo-coding and rectification using ground control points
- Automatic SRTM DEM download and tile selection.
- Multi-reading and Multi-core processor support.

SNAP - Extensibility

- · Java as the native language. A Java API to
 - Develop your own application (cli or gui)
 - Extend the existing application by adding modules.
- Python as a main extension language.
 - SNAPPY: The Python API mimics the Java API
 - Write your own Python scripts leveraging on SNAP
 - Extend SNAP by developing modules in Python (numpy, scipy, ...). Useful for bridging your C/C++ library.
- · Standalone Tools Adapter module
 - Use your own cli tools as if they were a native SNAP module
 - GDAL, Orfeo Toolbox, Sen2Cor, Sen2Three, ...

https://step.esa.int/main/download/snap-download/



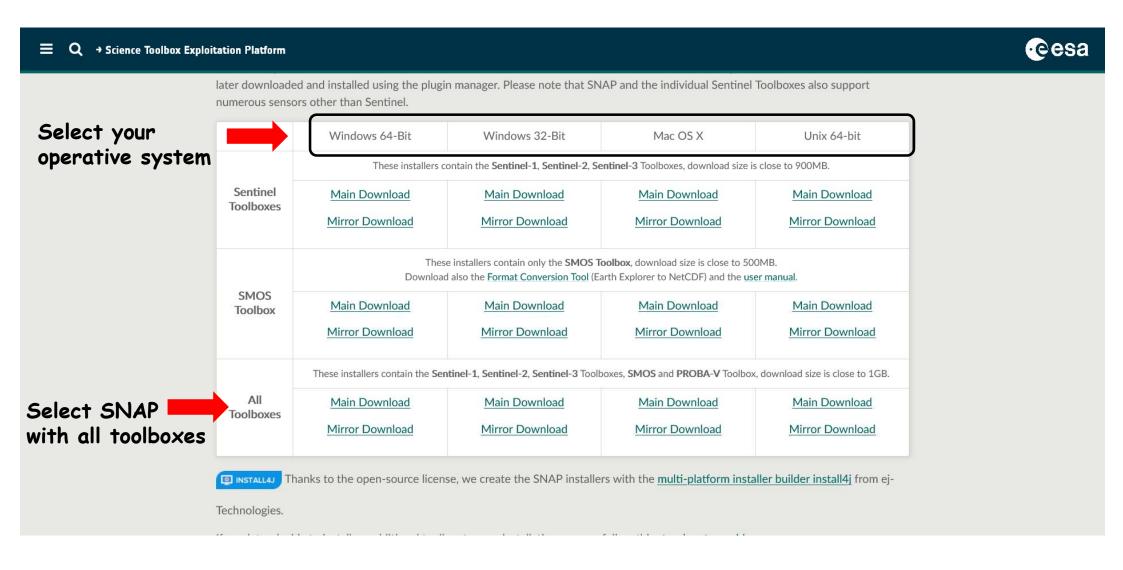
Here you can download the latest installers for SNAP and the Sentinel Toolboxes.

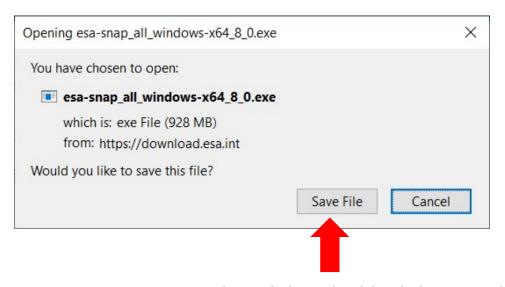
Data provision is available to all users via the **Sentinel Data Hub**.

Current Version

The current version is 8.0.0 (19.10.2020 15:00 UTC).

For detailed information about changes made for this release please have a look at the release notes of the different projects: SNAP,



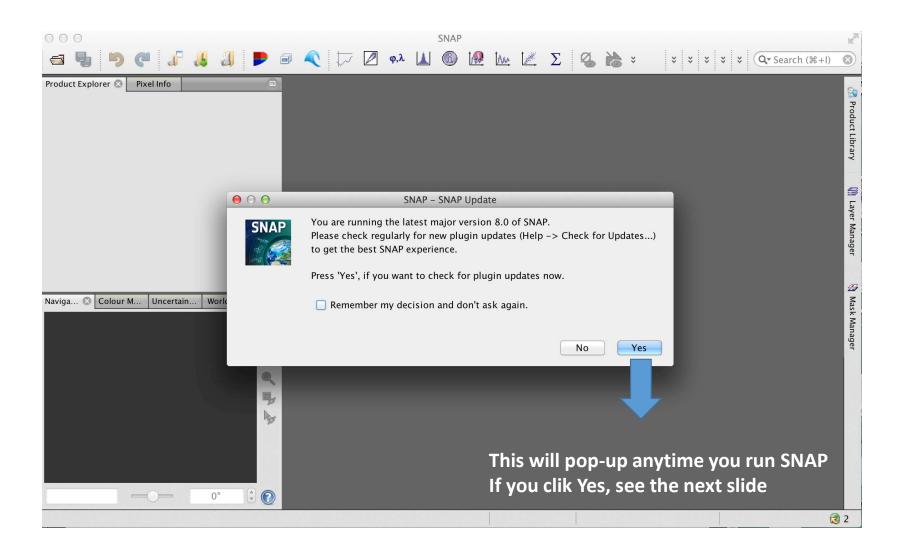


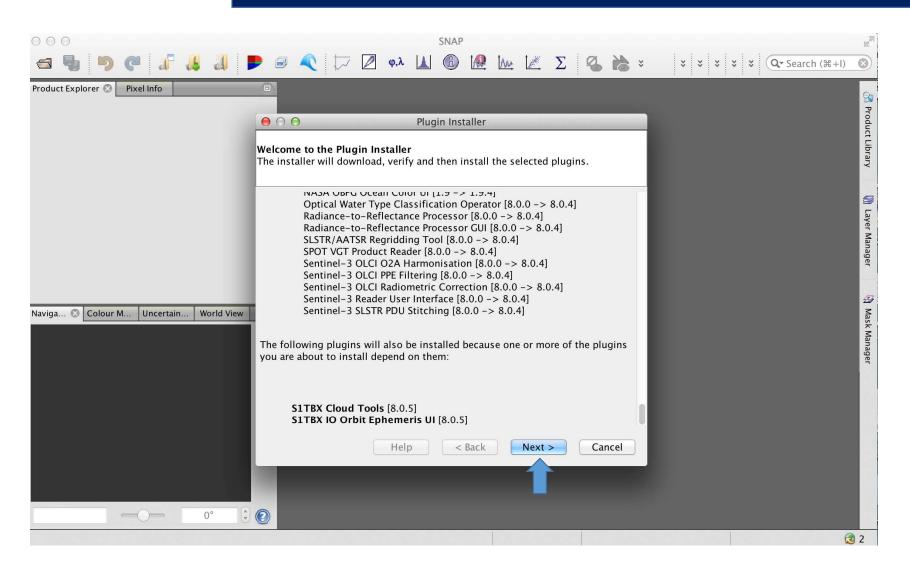
Save File and then double click to install Have a break untill SNAP ends the installation













SNAP - Community

http://forum.step.esa.int

step forum

FAQ GDPR Sign Up

Log In Q

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