



# EFFICIENT PROCESSING OF SAR TIME SERIES WITH SARSCAPE AND ENVI SERVER

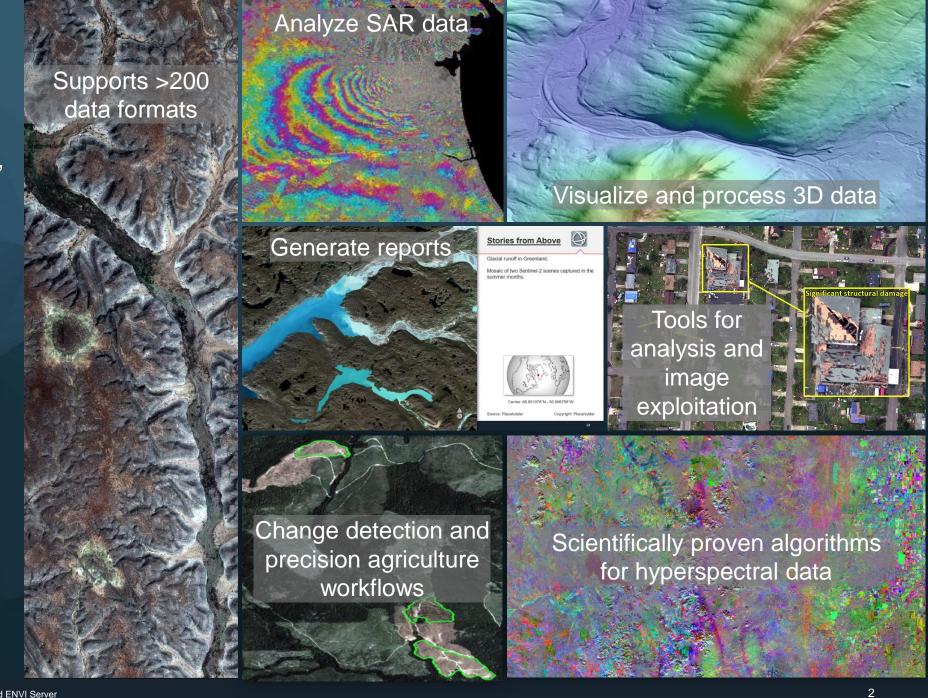
Large-scale SAR Operational Processing from Desktop to Enterprise Environments

#### What is ENVI?

The industry standard for image processing and analysis, used to extract accurate and timely information from remotely-sensed data

ENVI has remained on the cutting edge of innovation for more than three decades

ENVI makes image analysis accessible and requires no prior experience or programming



### **ENVI SARscape**

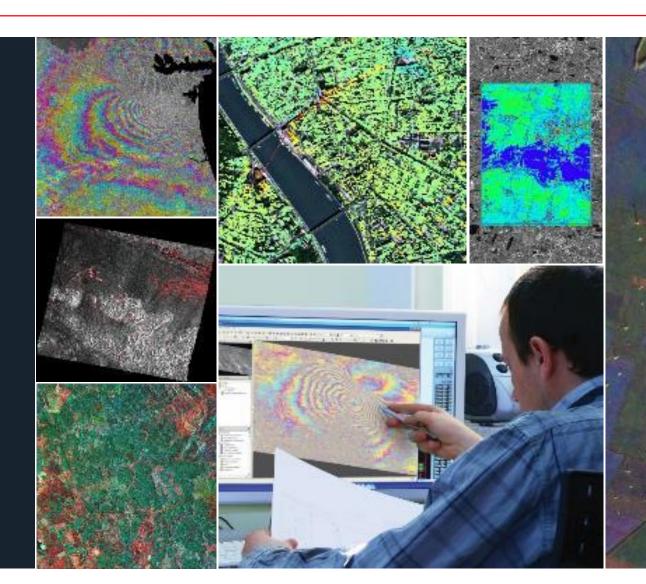


# Easily process and analyze SAR data

ENVI integration brings advanced image processing and analysis together with SAR processing in one package

Generate products (like DEMs or surface deformation maps) that can be integrated with other geospatial products

Built-in workflows and modules simplify processing and can be customized



# Why should I care about ENVI Server in SARscape?

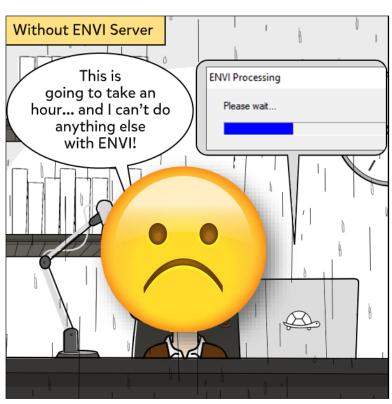


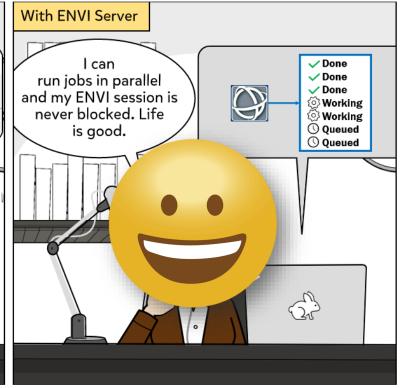
Take advantage of modern hardware

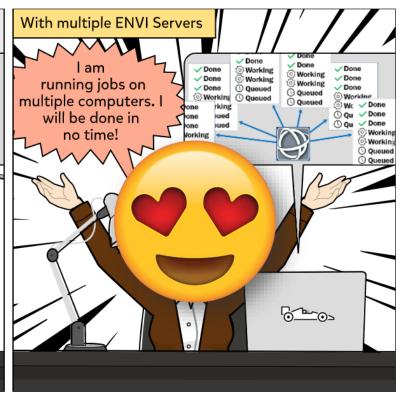
Save time by running processes in parallel

Run processes in the background in ENVI

Distribute processing to local servers with common data access





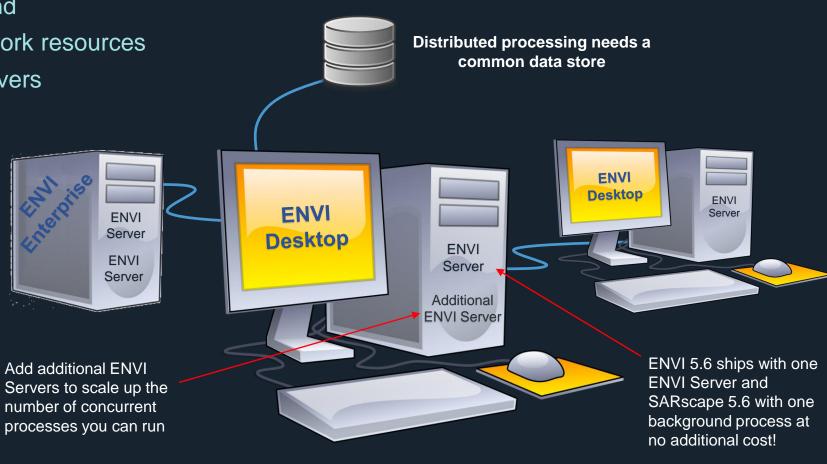


#### **Operational Processing with SARscape and ENVI Server**



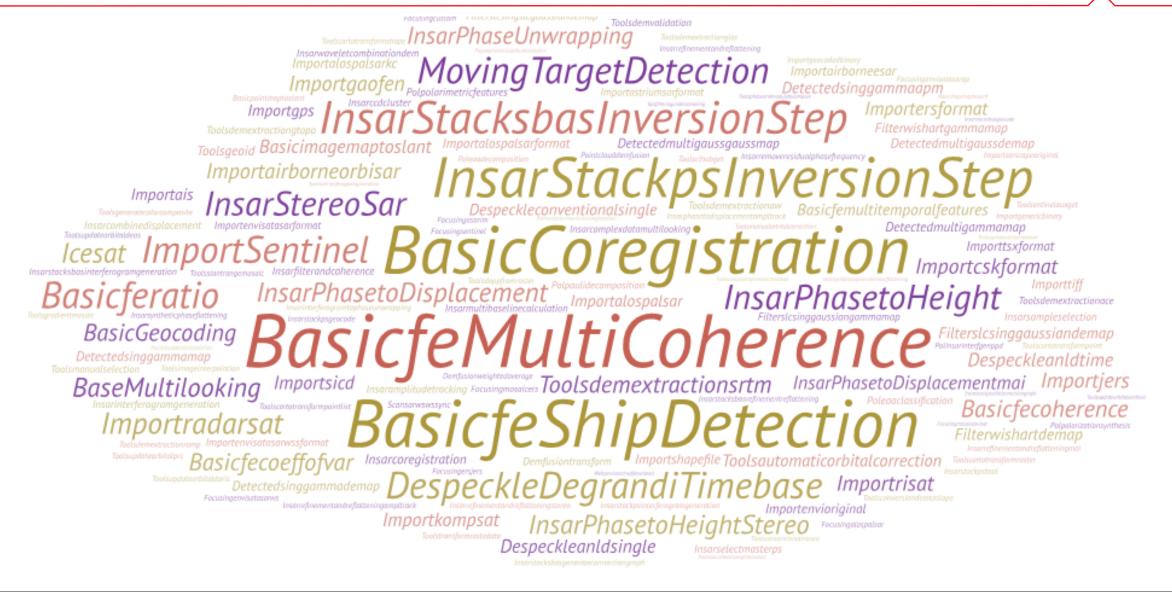
#### SARscape 5.6 supports ENVI Server to run processing remotely or in the background of ENVI

- Save time by running processes in parallel
- Bulk processing in the background
- Take advantage of powerful network resources
- Distribute processing to local servers with common data access
- No programming required!



## **SARscape Tasks: Library of Functions for SAR Processing**





#### **ENVI Modeler: Visual Programming for Remote Sensing**



#### Combines the power of the ENVI API with an intuitive user interface

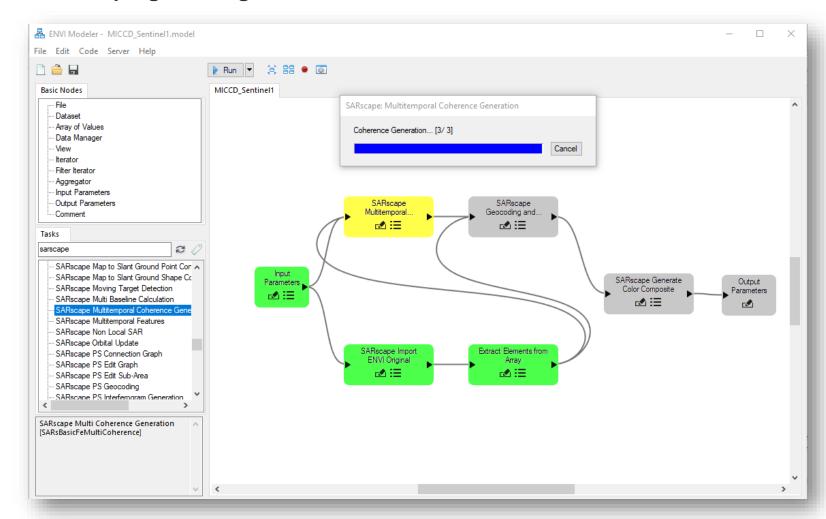
Batch processing without any knowledge of ENVI programming

Build Workflows that mix SAR and Optical processors seamlessly

Run workflows remotely or in the background with ENVI Server

Generate IDL and Python programs from models, create extensions to **ENVI**, and export metatasks to ArcGIS

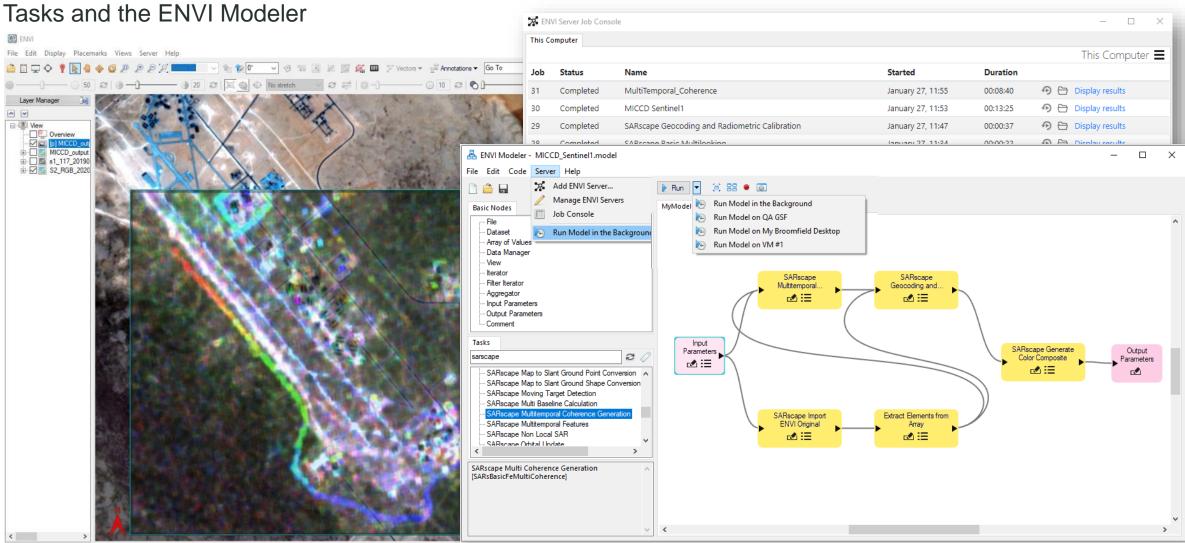
#### A visual programming tool to create custom task-based workflows in ENVI



#### **ENVI Server: Through SARscape Tasks and ENVI Modeler**



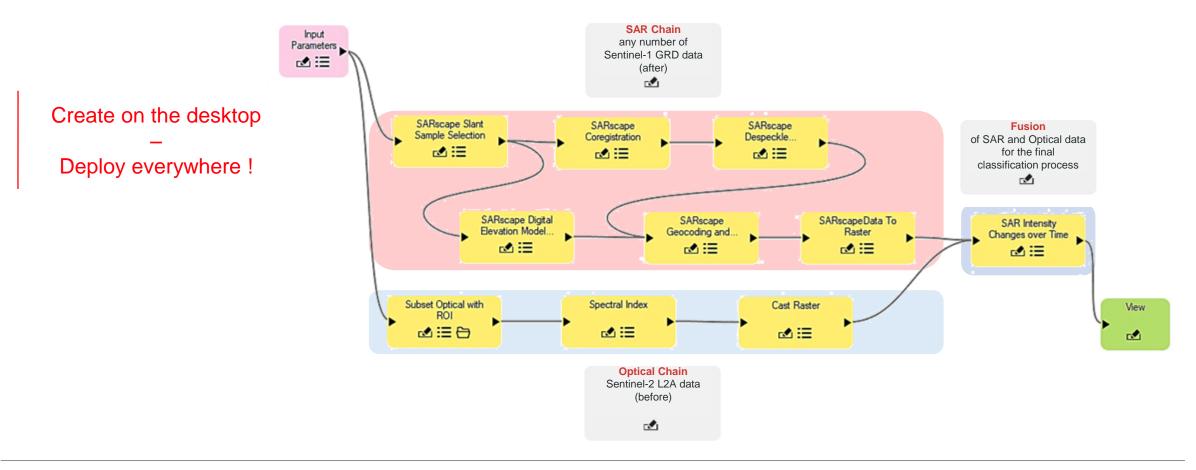
Automate and batch process SAR data remotely or in the background through ENVI Server, with SARscape



#### **ENVI Modeler: Fusion of Optical and SAR Processes**

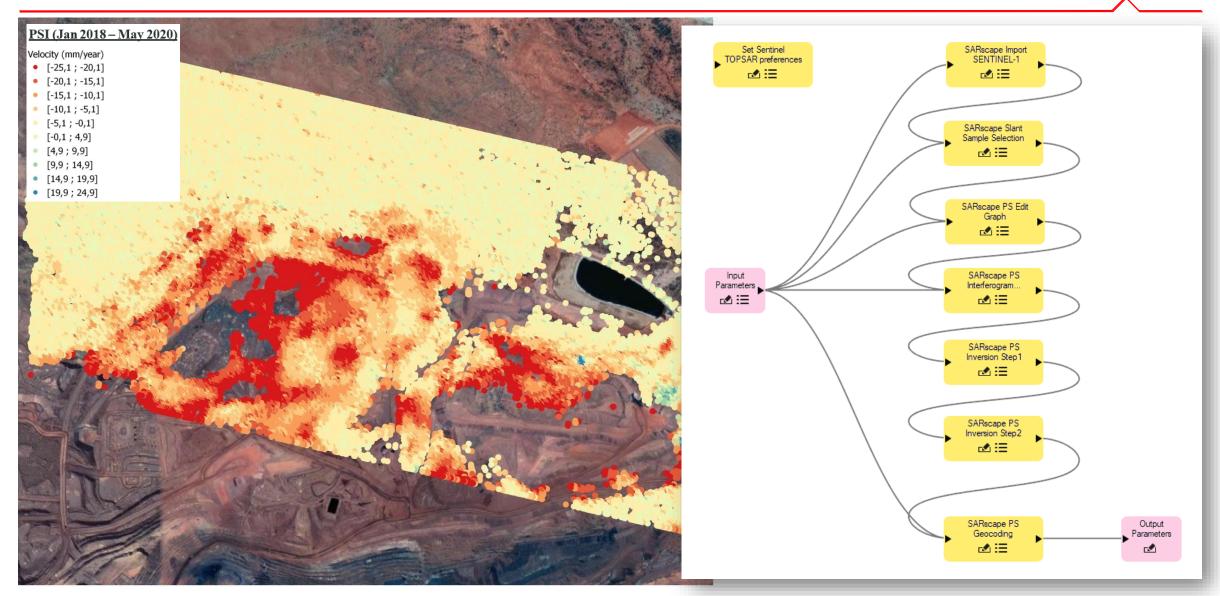


- Full support of nodes in non-native technology (e.g. Python, Java, ...).
- Workflows can mix SAR and Optical processors seamlessly.



## **Example: Persistent Scatterer Monitoring of an Open Pit Mine**





#### **Demo: Monitoring Ground Activities – Coherence Change Detection**

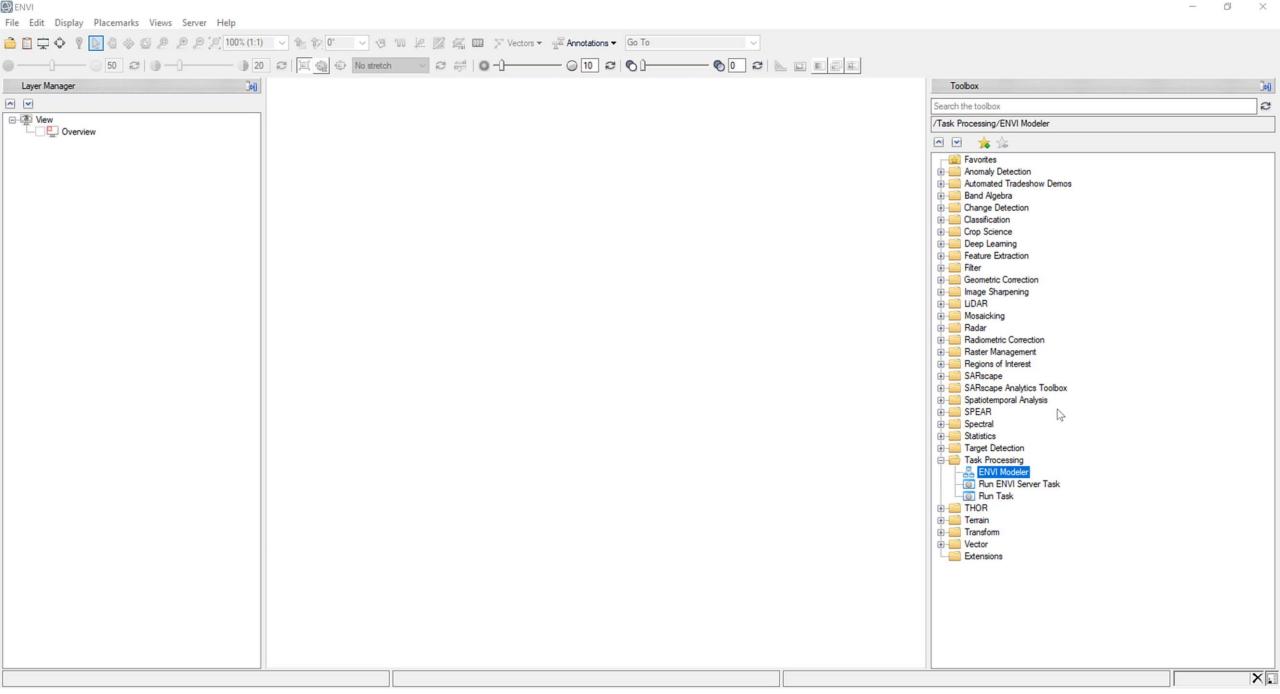


Sentinel-2 (06 June & 01 July 2019)

Sentinel-1

Multi Inverse Coherence Change Detection







NICOLAI HOLZER | L3HARRIS GEOSPATIAL | SALES ENGINEER EMEA Nicolai.Holzer@L3Harris.com

**EMLYN HAGEN** | L3HARRIS GEOSPATIAL | SENIOR MANAGER DACH / NL Emlyn.Hagen@L3Harris.com

**ALBERTO MERONI** | L3HARRIS GEOSPATIAL | DIRECTOR BUSINESS DEVELOPMENT Alberto.Meroni@L3Harris.com