Motivation

- free and open source plugin for QGIS
- process imaging spectroscopy data
- state-of-the-art applications
- intuitive graphical user interface

- algorithms are integrated into QGIS processing framework (toolbox and model builder)
- API with high level data types and operators
- tools for data exploration and preparation

EnMAP-Box 3
A QGIS Plugin to explore and process imaging spectroscopy data
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GRAPHICAL USER INTERFACE

- Interactive application example for image statistics and histogram plotting.
- Processing algorithm example showing the auto-generated dialog for applying a fitted Classifier to an image.

APPLICATION PROGRAMMING INTERFACE

HUB Databcube API
- API for conveniently reading and writing data with on-the-fly re-projection, resampling and vector rasterization
- user defined processing functions for block-wise i/o and (parallel) processing

HUB Workflow API
- API for higher-level workflows
- data types ensure data integrity
- better code readability due to domain-specific type and method naming

API Stack
- Numpy
- Scipy
- GDAL
- Matplotlib
- QGIS API
- PyQt
- EnMAP-Box UI
- Processing algorithms

HUB Workflow processing chain example