

## From ship to shoe, know your ocean.

RPS.

# Innovative Workflow for Today's Hydrographic Office

#### Qinsy

Survey planning and acquisition

#### Qimera

Data processing and cleaning

#### Fledermaus

4D geospatial analysis and visualization



### Workflow Overview



Multibeam, Singlebeam, SSS, SBP, Magnetometer, LiDAR, etc...

Sonar data (DB)

Processed Data and Backscatter (GSF)

🤂 એimera.

Processed Data and
Backscatter (GSF)
Validated Grid (BAG)
ENC point, line and area
objects (S-57)

**1** Fledermaus.

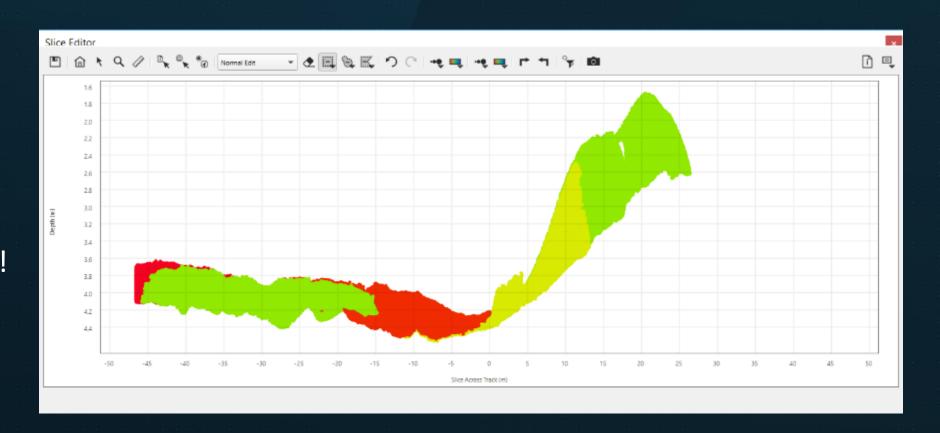
Analysis, Presentation
Backscatter Mosaic (TIFF)
Export bathymetry and
Images (GeoTIFF) to
ArcGIS geodatabase

Open Source
Data Submission to
Hydrographic Office

#### Other Acquisition

Sonar data (ALL, KMALL, HSX, S7K, GSF, JSF, XSE, R2SC)

## Qimera Filters (Spline, CUBE, ....)



"One-Click"!

## Data Filtering

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## Qimera Live

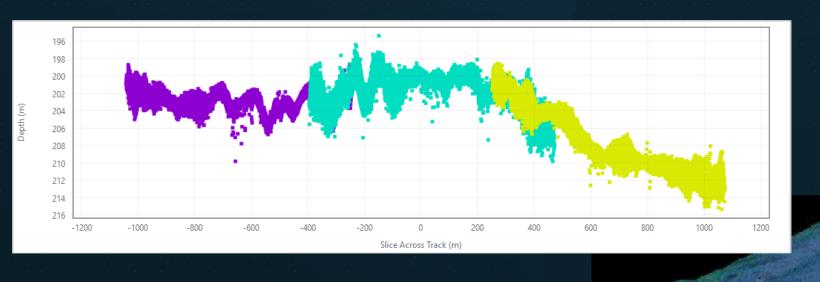
Directory monitoring for near real-time processing

Sonar files processing automatically

## Qimera TU Delft sound speed inversion

Automated and repeatable

Use swath overlap to correct for refraction



RPS.

## Qimera Wobble Tool

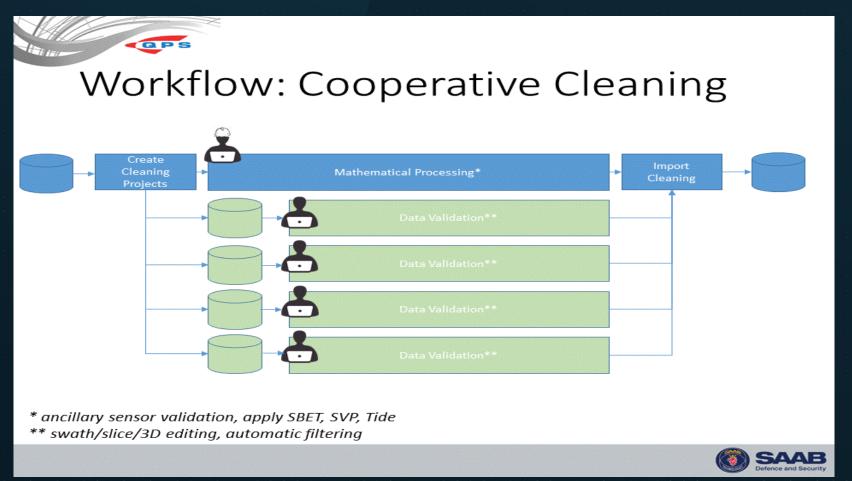
Adjust multibeam and motion sensor configuration

Dynamically solve for problems

## Qimera Cooperative Cleaning

Easily divide project for improved efficiency

Work locally with faster approach



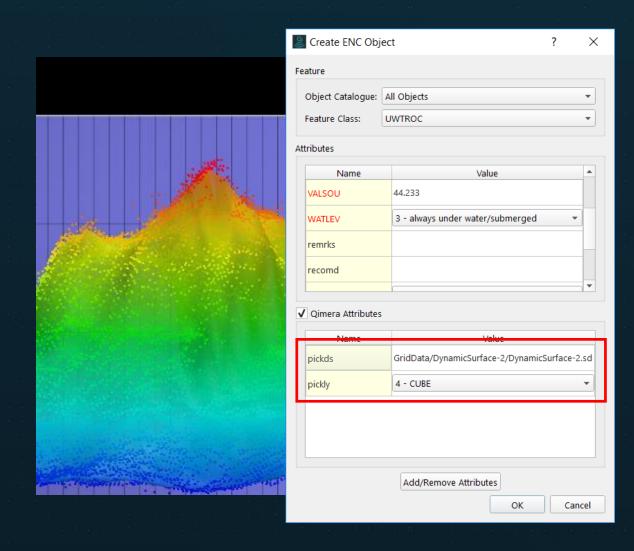
## Qimera "Connected" S-57 Workflow

#### Link S-57 to bathymetry

Features update automatically after further processing

#### Customize your workflow

Source the S-57 feature from a sounding, or a grid node



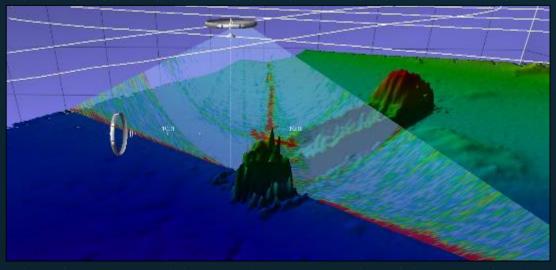
## Qimera

#### Water-column processing

Easily attain safer least depths atop wrecks and obstructions

#### Seamless backscatter processing

Export the GSF from Qimera for creating Backscatter Mosaics (GeoTIFF)

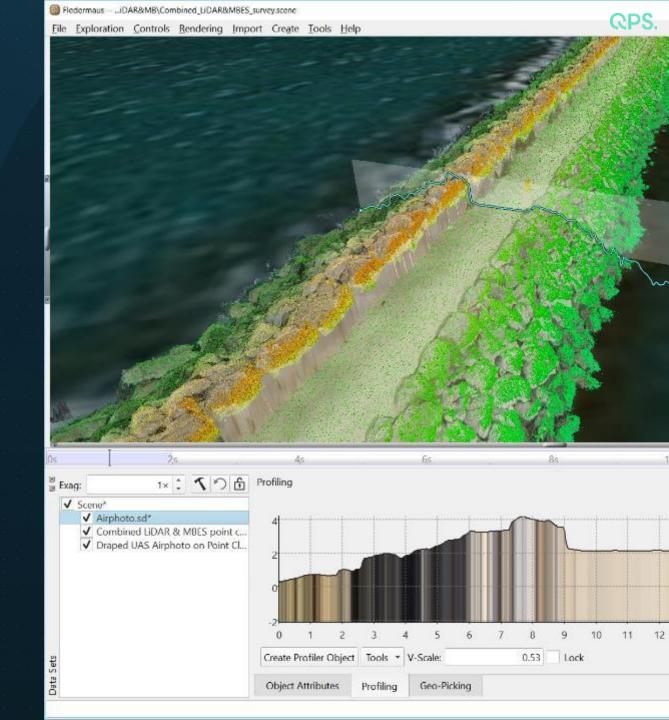




### Fledermaus

#### Main features

Time/space notes movie-making 2D, 3D and 4D data in scene Surface/DTM analyses tools



## Thankyou.