

MARKTPLATZ DER MÖGLICHKEITEN

Vorschau auf ERDAS IMAGINE 2023

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HEXAGON



Lizenzportal

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→ <https://supportsi.hexagon.com/help/s/licensingportal>

Einloggen im Lizenzportal

StartseiteFälleGeospatial Öffentliche Sicherheit

Licensing Portal

GEOSYSTEMS GmbH (GEOSYS)

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Auswahl Produkt und Version

1 APOLLO Advantage - ONE - 8 Core	Pick from list
2 APOLLO Advantage - ONE - 8 Core	Pick from list
3 APOLLO Essentials - ONE - 8 Core	Pick from list
4 Educational Core Level 2 - Perm License CC (15 seat)	Pick from list
5 Educational Core Level 2 - Perm License CC (15 seat)	Pick from list
6 Educational IMAGINE Objective Level 2 - Perm CC (15 seat)	Select value
7 GeoMedia Advanced Collection CC	none
8 GeoMedia GI Toolkit CC	16.6
9 GeoMedia Image CC	16.7

Download des Software Pakets über zugesendeten Link

→

ERDX1362.zip

condor-v16.7-win-x86.zip

ermapper-v16.7-win-x86.zip

ermapper-vector-v16.7-win-x86.zip

Geospatial-Licensing-2022.zip

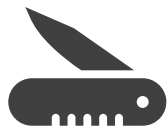
imagine-v16.7.2-win-x64.zip

orima-v16.7-win-x64.zip

Spatial Modeler 2022 Python Examples.zip

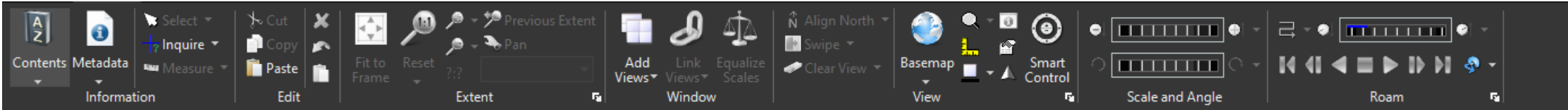
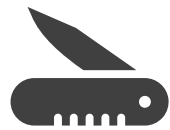
ERDAS IMAGINE

Performance & Usability

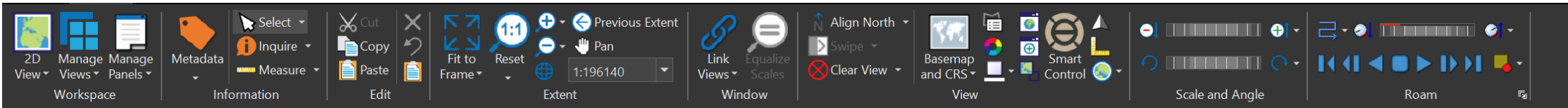


View-Spezifische Home Tabs

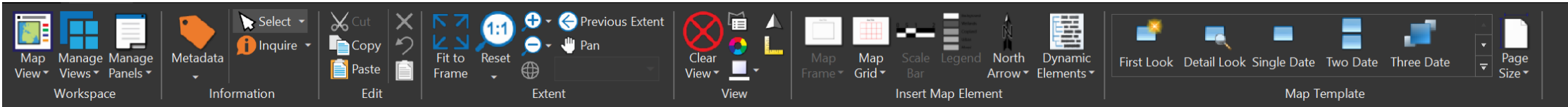
HomeTab 2022



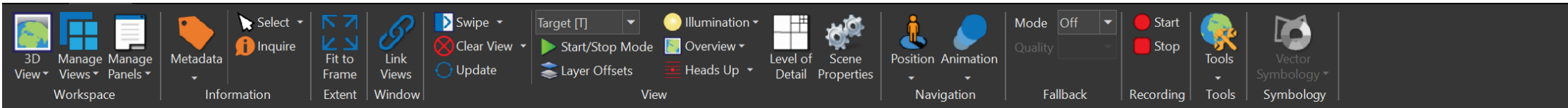
2D View



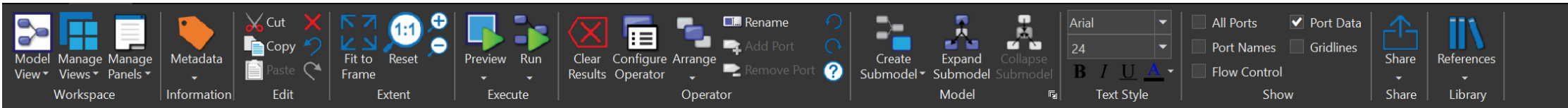
Map View



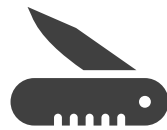
3D View



Model View



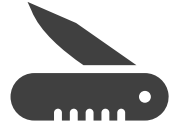
Technologie Verbesserungen



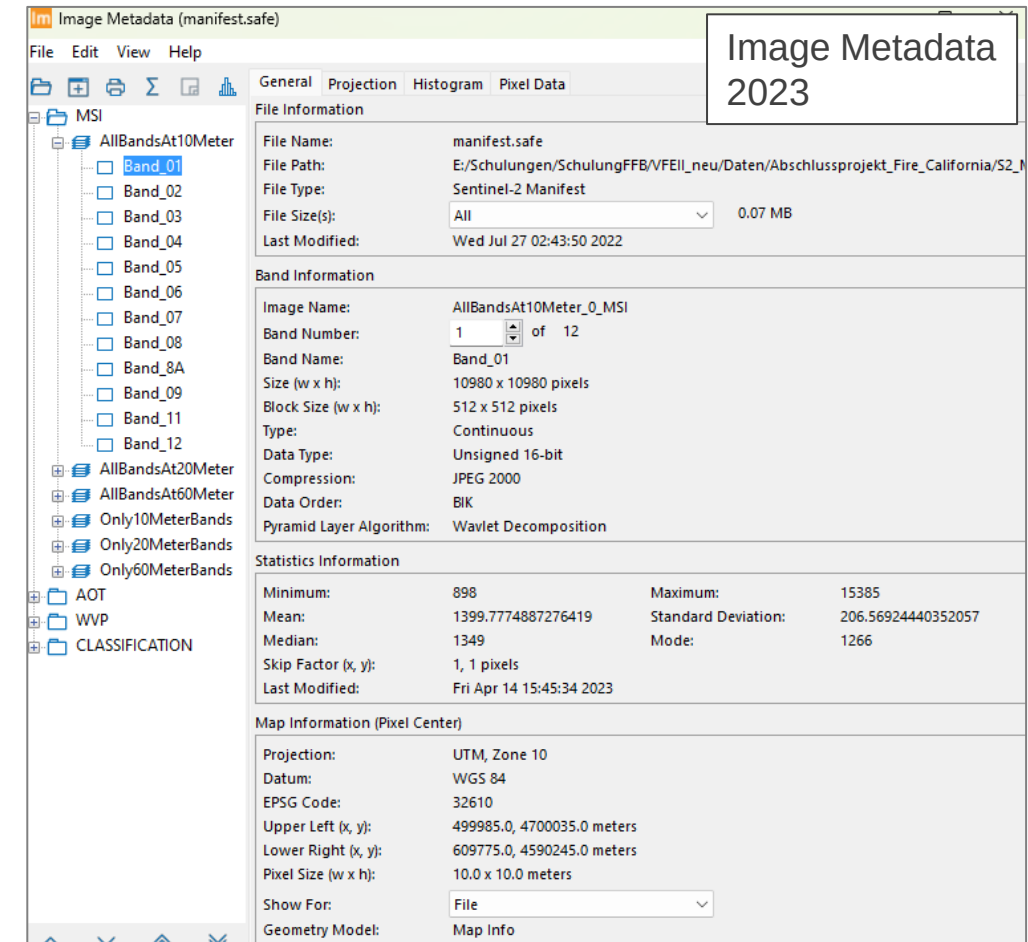
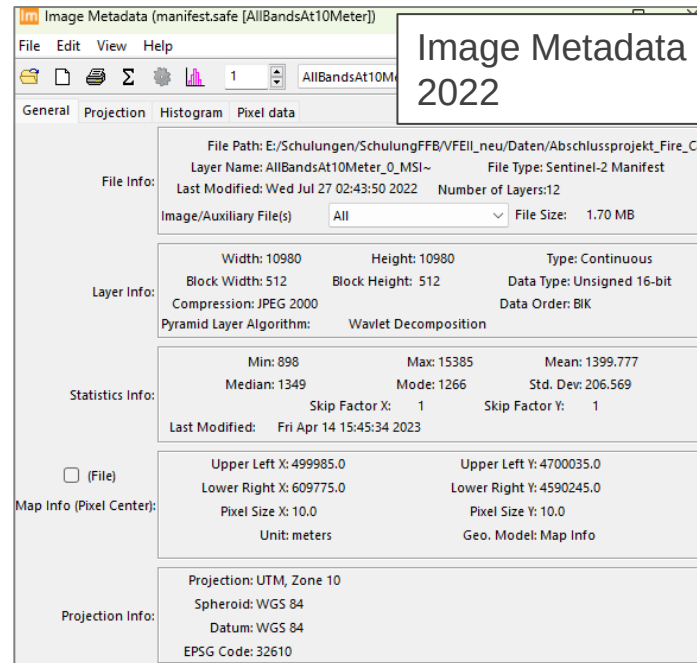
Option zum (automatischen) Speichern der Image Chain Styling Parameter

Preference

Neu gestaltetes Metadata Tool



- Neuorganisation von Image, Vector, Point Cloud und Annotations
- Koordinatenanzeige in x, y <units> format
- Alle Informationen können selektiert und kopiert werden
- Image Metadata (ImageInfo) unterstützt sub-images



Aktualisiertes (Ortho) Resampling

- Neue Funktion im Resampling Dialog
- 30% schneller
- Gilt für alle Operatoren, die ein Resampling nutzen

Reproject Images

Input File:

Processing Option: ☐ Calibrate Input File ☒ Resample to Output File

Output File: (*.img)

Output Projection:

Categories:

Projection:

Units:

Resample Method:

☐ Rigorous Transformation ☒ Polynomial Approximation:

Maximum poly order:

Tolerance (pixels):

☐ Compute Valid Area

Background Value Range: From: To:

☒ Four Corner Area Crop Area:

OK Batch Cancel Help

Ortho Resampling

General Rescale Advanced

Input File Name: lag11p1_16bit.jp2 Active Area: 100.0%

Output File Name: (*.img)

DTM Source: Constant Vertical Units: meters

Constant Value: 0.0000

Output Cell Sizes X: 2.00000000 Y: 2.00000000 meters

ULX: 420764.00000000 LRX: 436034.00000000

ULY: 3723552.00000000 LRY: 3708278.00000000

Output rows: 7638 columns: 7636 Recalculate...

☐ Compute Valid Area

Background Value Range: From: 0 To: 0

☒ Four Corner Area Crop Area: 0%

Add... Add Multiple... Delete Align Pixels Show Path

Row #	Input Image Name	Active	Output Image Name	Active Area	Inclusion Polygon N
1	lag11p1_16bit.jp2	☒		100	

Images

Row # Image ID

1 1

2 5

3 6

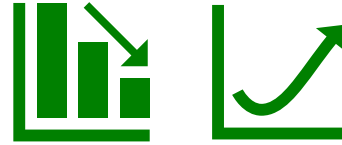
432869.44, 3715062.77 (UTM / Clarke 1866) 432869.44, 3715062.77 meters (UTM Zone 11(Clarke 1866))

☒ Compute Valid Area

Background Value Range: From: 0 To: 0

☒ Four Corner Area Crop Area: 0%

Verbesserte Formate



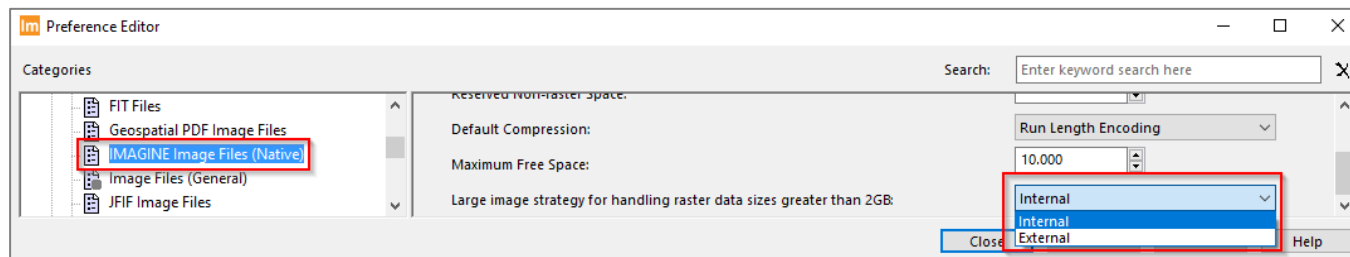
IMAGINE Image File Format (IMG) > 2 GB

- **EINE Datei**
Kein Separieren von .img und .ige Dateien
- **Verlustfreie Kompression**
Laufängerkodieren auch bei größer 2 GB
- Speicherung einer **NoData Mask** im IMG

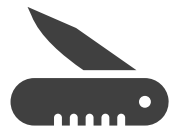
east_coast.ige	2/10/2006 11:42 PM	IGE File	Bisher	24,108,306 KB
im east_coast.img	6/14/2022 3:03 PM	ERDAS IMAGINE D...		17 KB
east_coast.rrd	11/13/2019 3:47 PM	RRD File		2,020,578 KB
im east_coast_big_image.img	3/10/2023 3:41 PM	ERDAS IMAGINE D..	Neu !	9,683,395 KB
east_coast_big_image.img.pyrx	3/10/2023 3:41 PM	PYRX File		145,092 KB



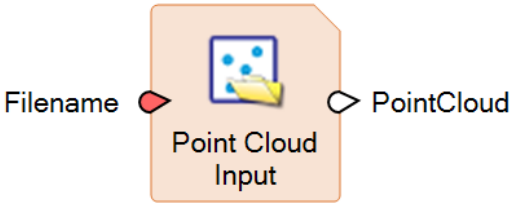
Nicht abwärtskompatibel!



Neue Formate

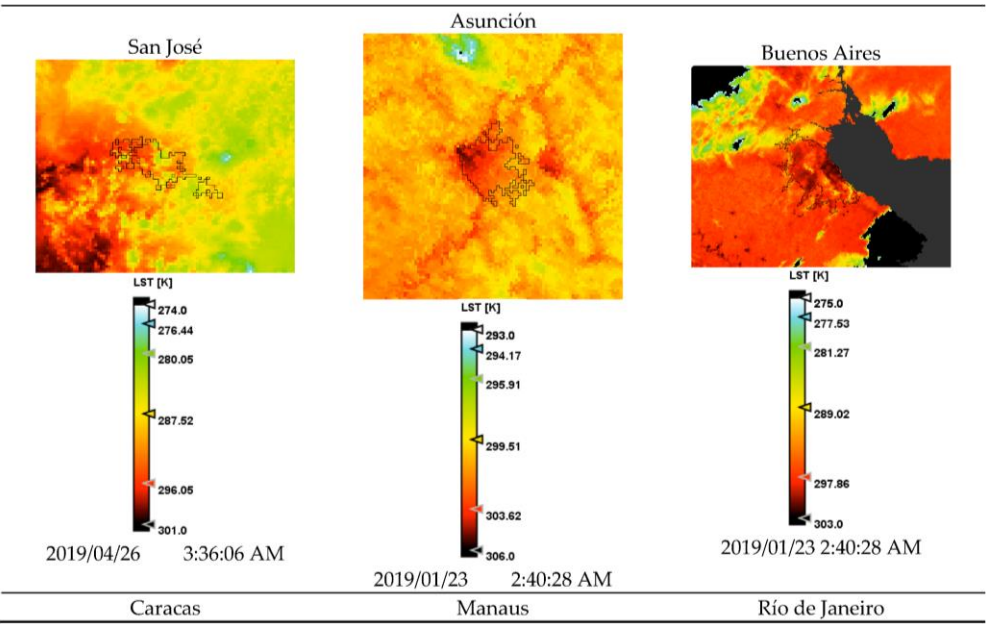


- **Hexagon Smart Point Cloud (HSPC)**
als „native“ Point Cloud Format



File Name:	
File Type:	Hexagon Smart Point Cloud as Point Cloud
30 Files, 4 S	All File-based Point Cloud Formats
	BPF as Point Cloud (*.bpf)
	Hexagon Smart Point Cloud as Point Cloud
	LAS as Point Cloud (*.las)
	LAZ as Point Cloud (*.laz)
	MrSID as Point Cloud (*.sid)

- **Sentinel-3 SLSTR Level 2 WST**
(Level-2P Sea surface temperature) read



SPATIAL MODELER



Neue Preview Operatoren – Chart Preview

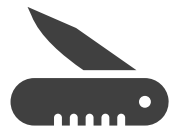
View

2D Preview

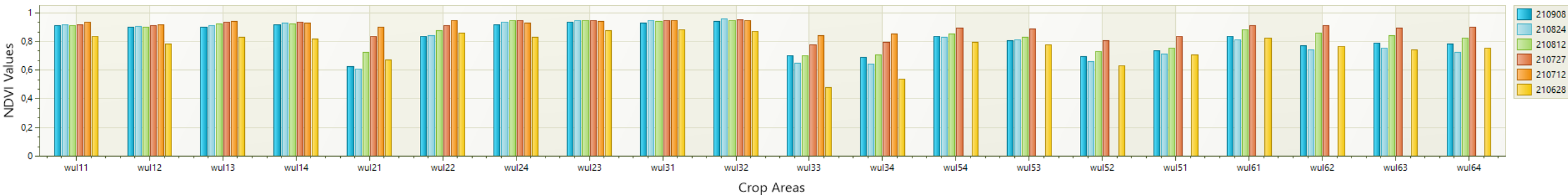
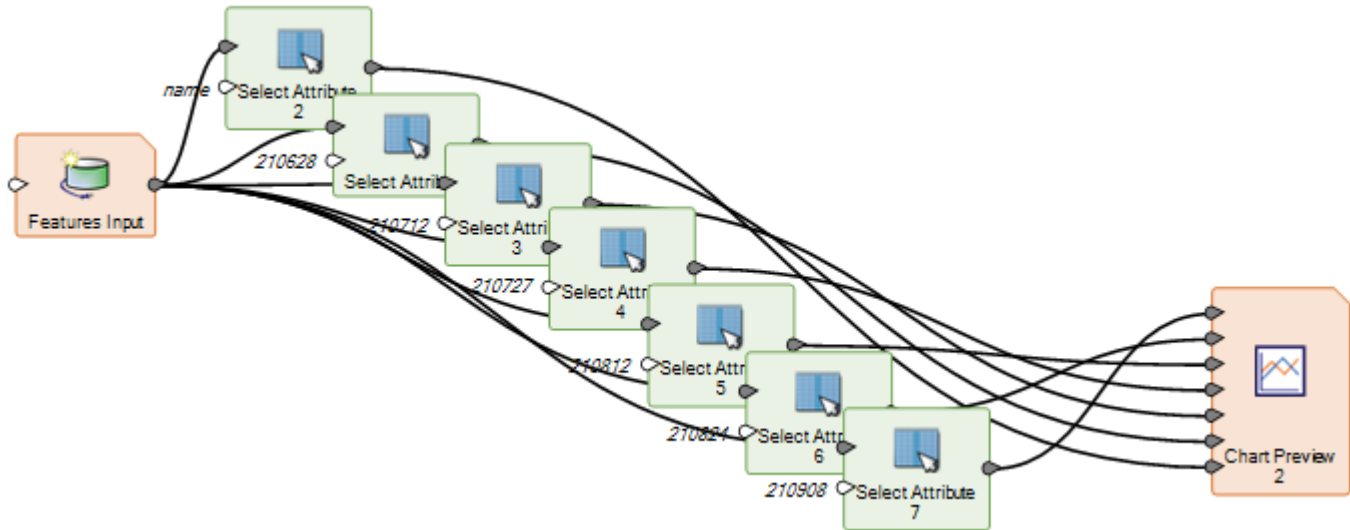
3D Preview

Chart Preview

Web Preview

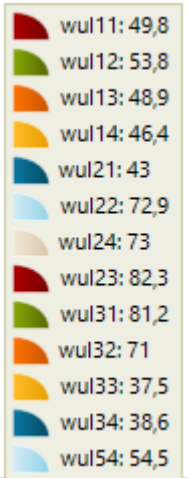
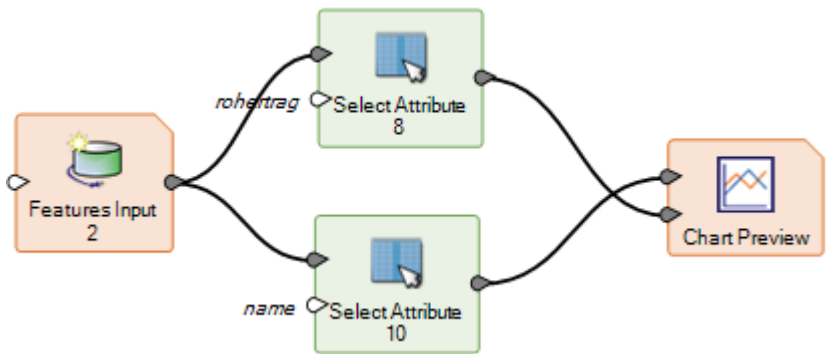


NDVI Werte über eine Vegetationsperiode für verschiedene Flächen



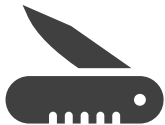
Neue Preview Operatoren – Chart Preview

Ertrag in kg je Ackerfläche



View

- 2D Preview
- 3D Preview
- Chart Preview
- Web Preview



Neue Preview Operatoren – Chart Preview

Erosion und Permeabilität verschiedener Bodenarten

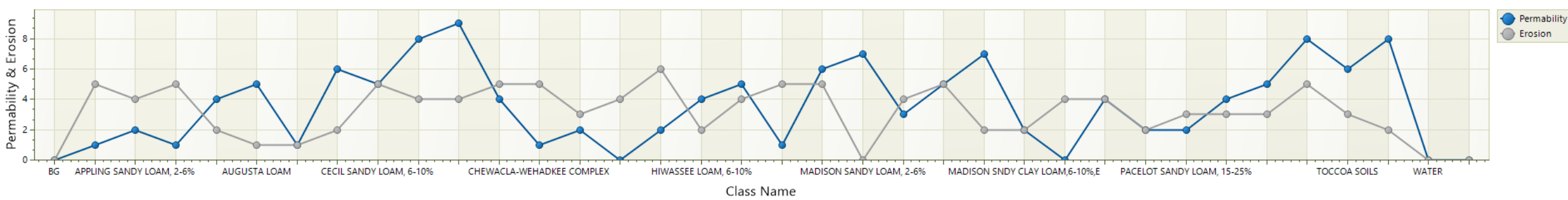
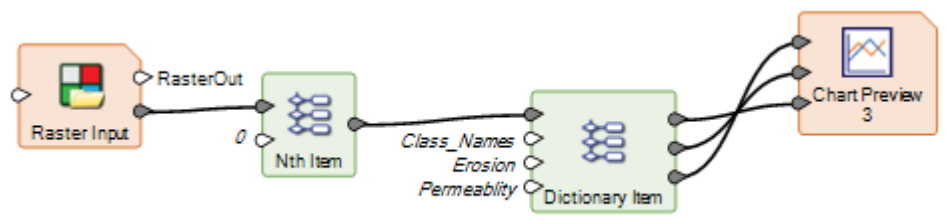
View

2D Preview

3D Preview

Chart Preview

Web Preview



Neue Preview Operatoren – Chart Preview

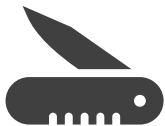
View

2D Preview

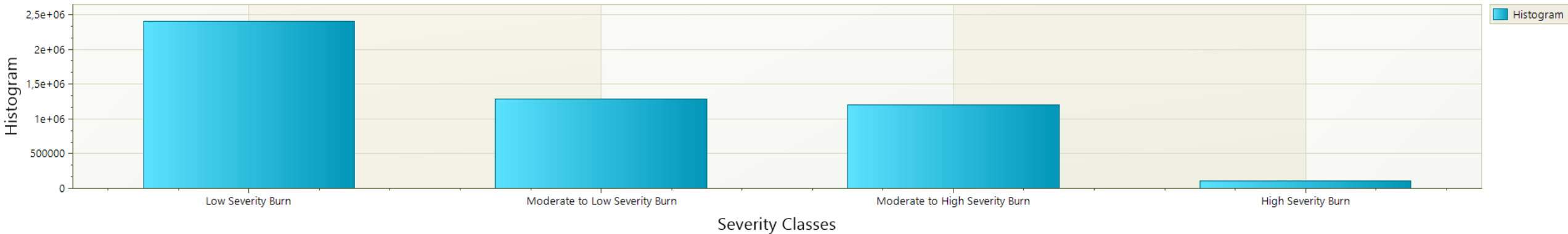
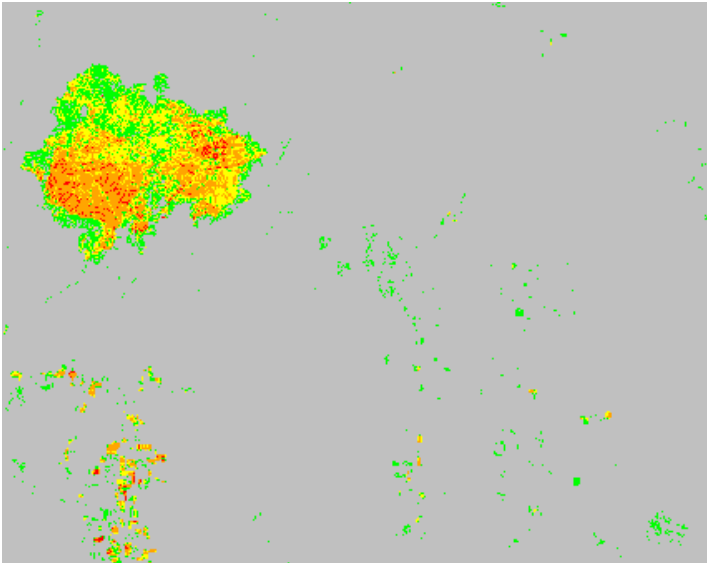
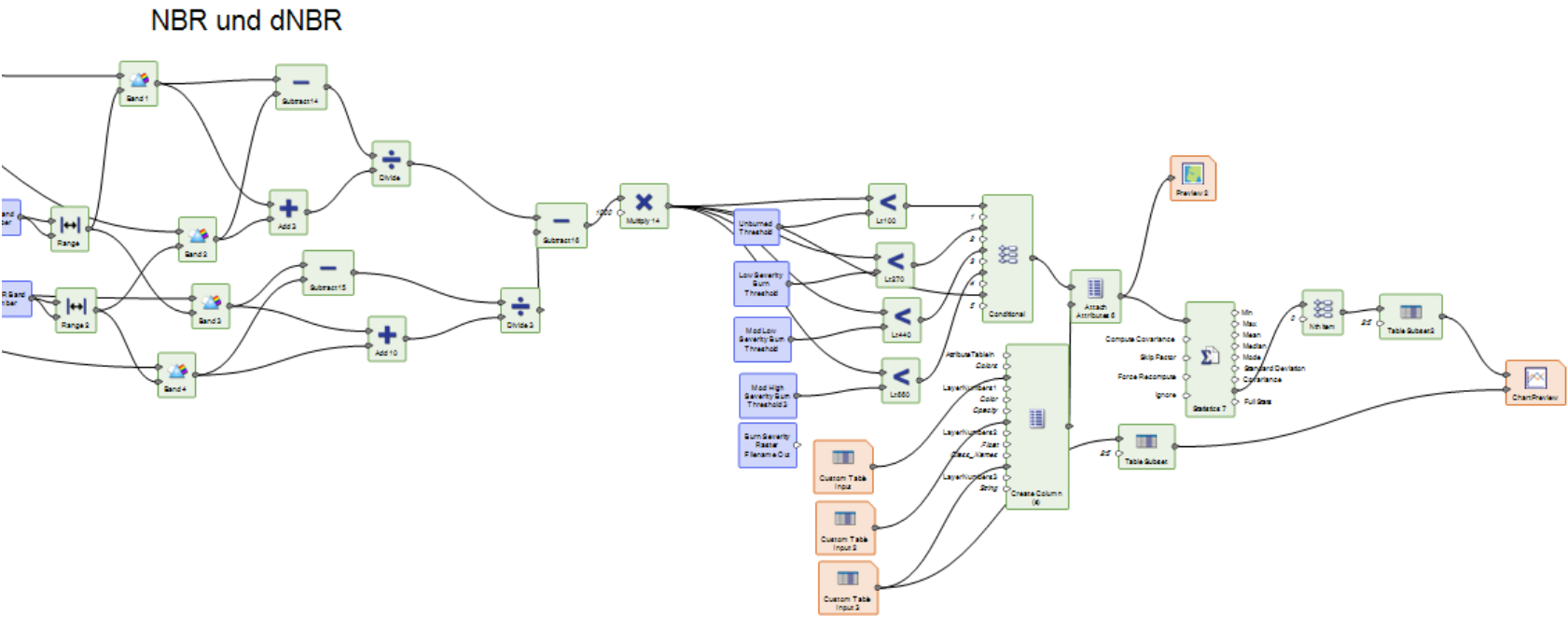
3D Preview

Chart Preview

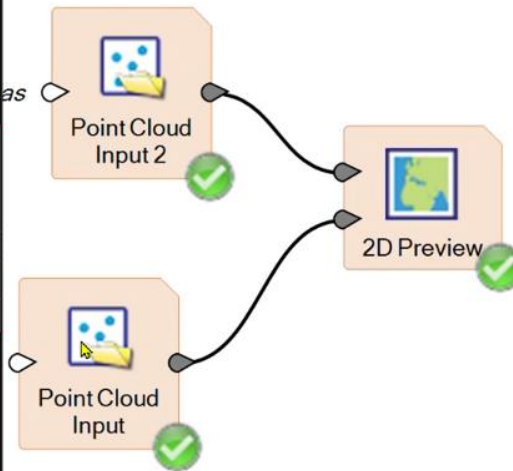
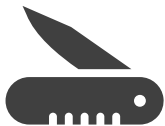
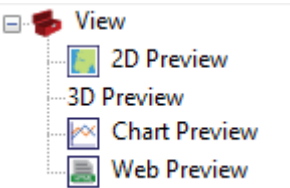
Web Preview



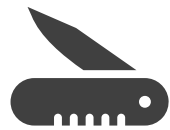
Verbrannte Flächen nach Waldbrandereignis nach Schweregrad klassifiziert



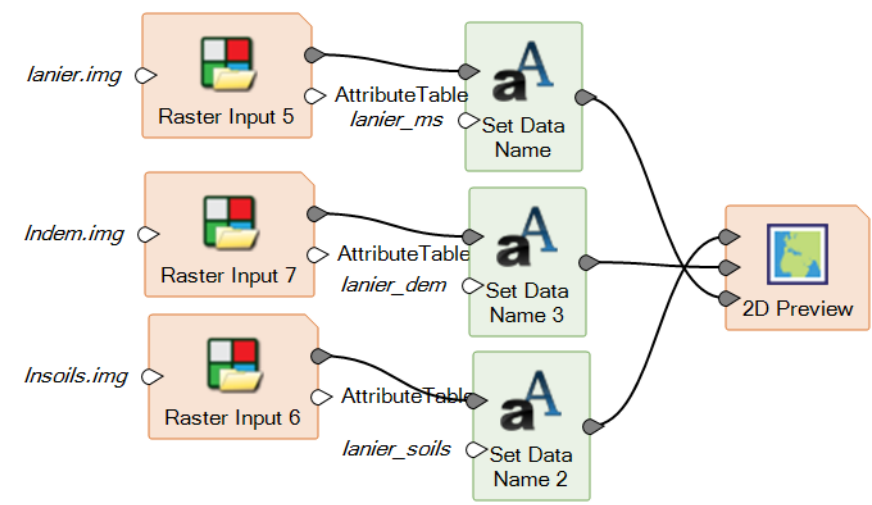
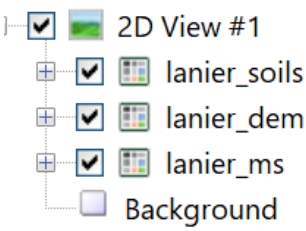
Neue Preview Operatoren – 3D Preview (speziell für Punktwolken)



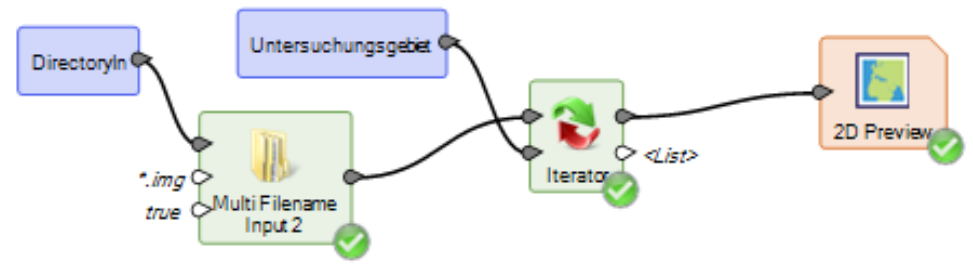
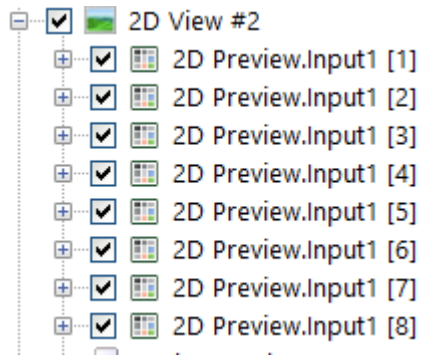
Spatial Modeler – neue und aktualisierte Operatoren



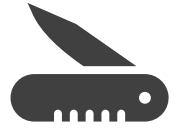
Bessere Übersichtlichkeit im **Preview** mit “**Set Data Name**”



Erweiterte Darstellung durch **Listen** für Raster im Preview

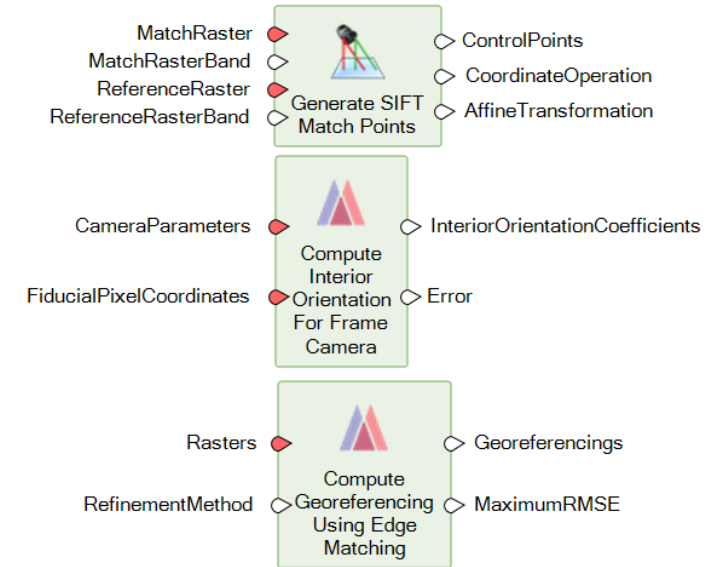


Spatial Modeler – neue und aktualisierte Operatoren



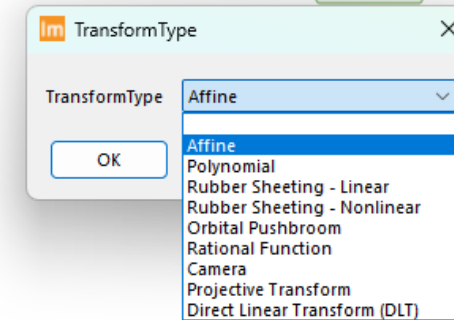
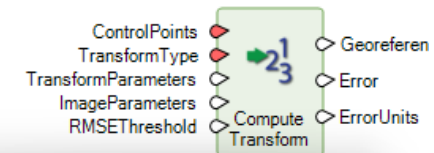
Erweiterung der PhotogrammetrieTools

- Generate SIFT Match Points (z.B. für Coregistrierung)
- Compute Interior Orientation for Frame Camera
- Compute Georeferencing Using Edge Matching



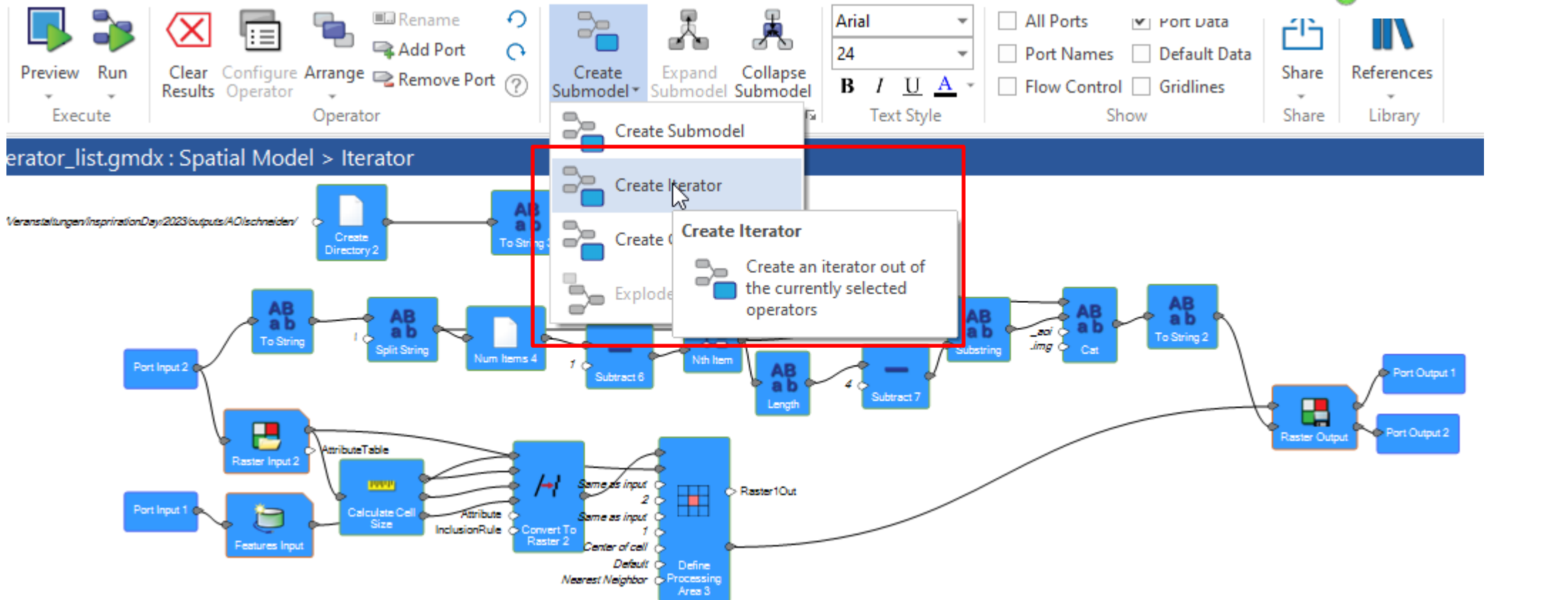
Erweiterung des Operators “Compute Transform” um die Modelle

- Camera
- DLT
- Projective Transform

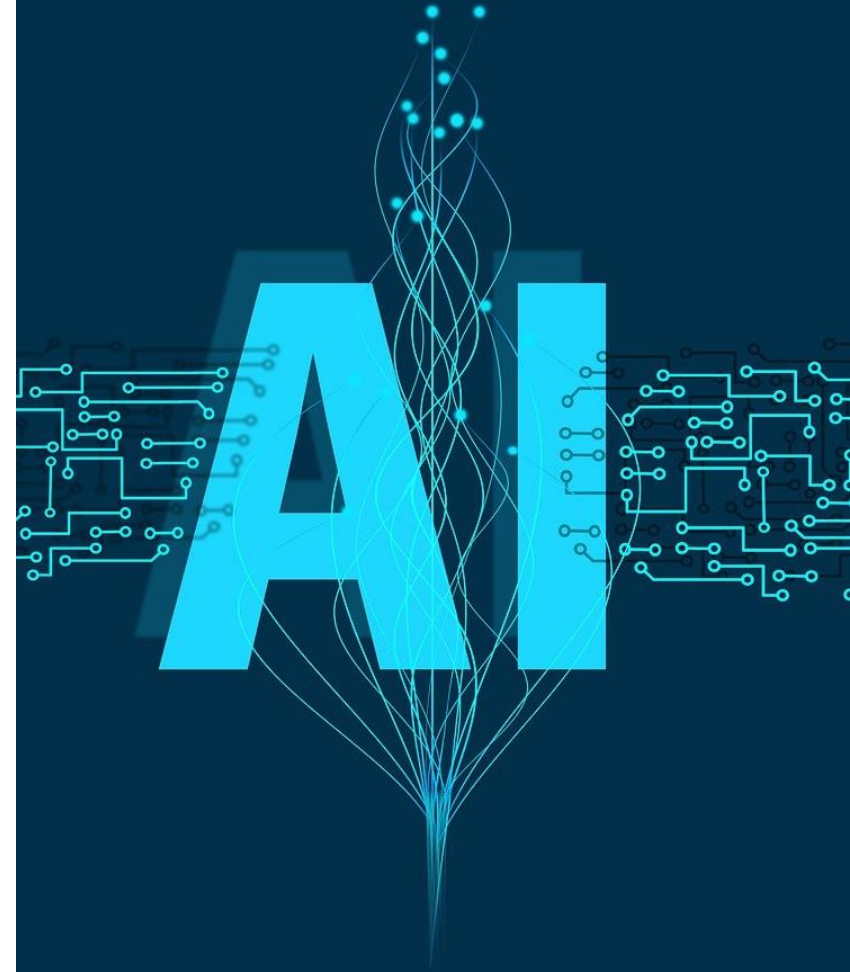


Spatial Modeler – Allgemeine Neuheiten

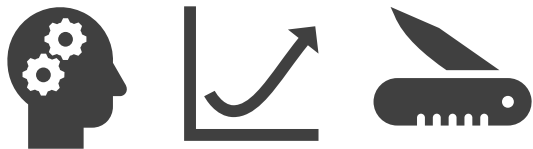
Create Iterator wurde dem Ribbon hinzugefügt



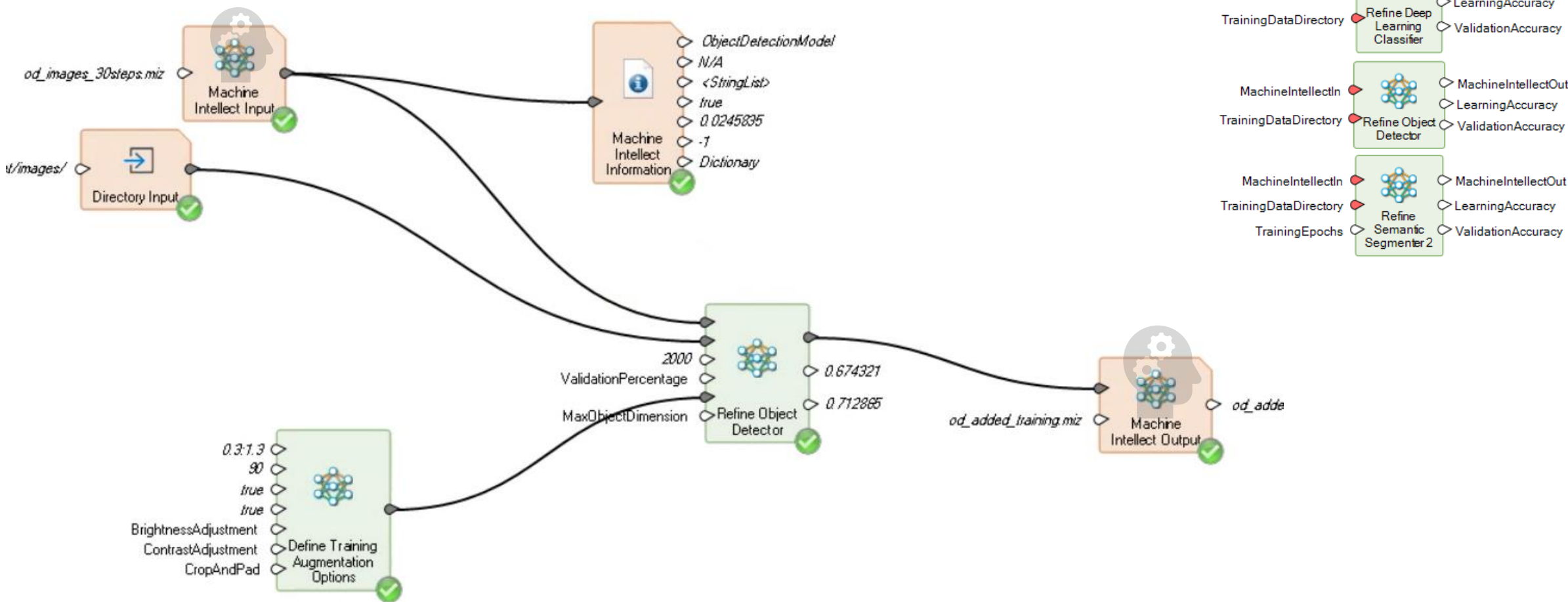
Neue KI Funktionalität



Spatial Modeler – neue KI Operatoren

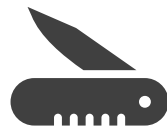


Iteratives Training für Deep Learning - Refine

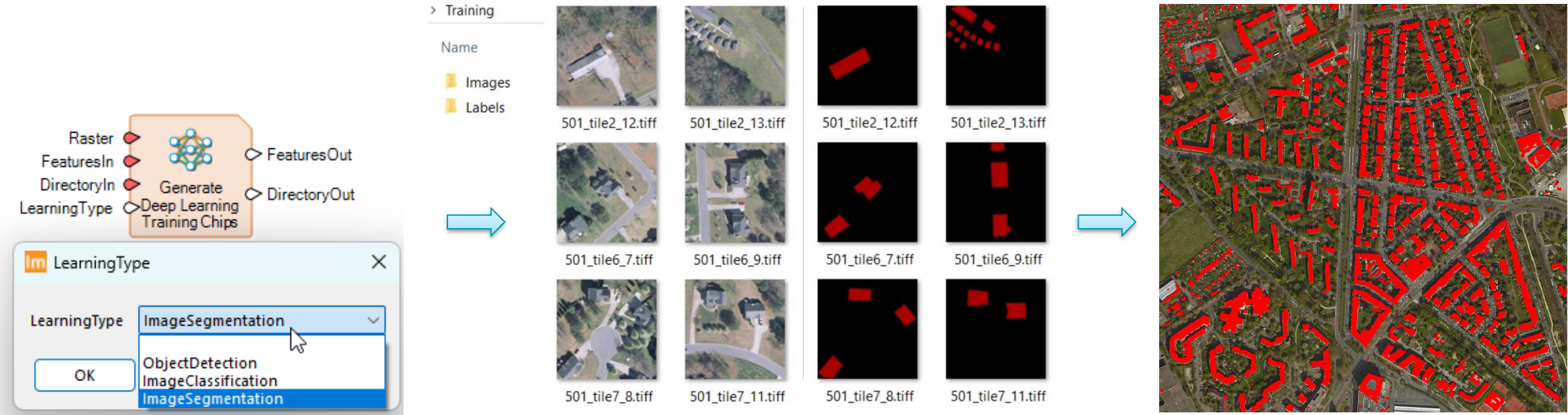


Zur Verbesserung bereits trainierter Netze durch Hinzufügen neuer Trainingsamples

Sampling - Spatial Modeler – aktualisierter Operator

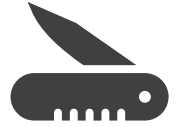


Generate Deep Learning Training Chips
für Semantic Segmentation

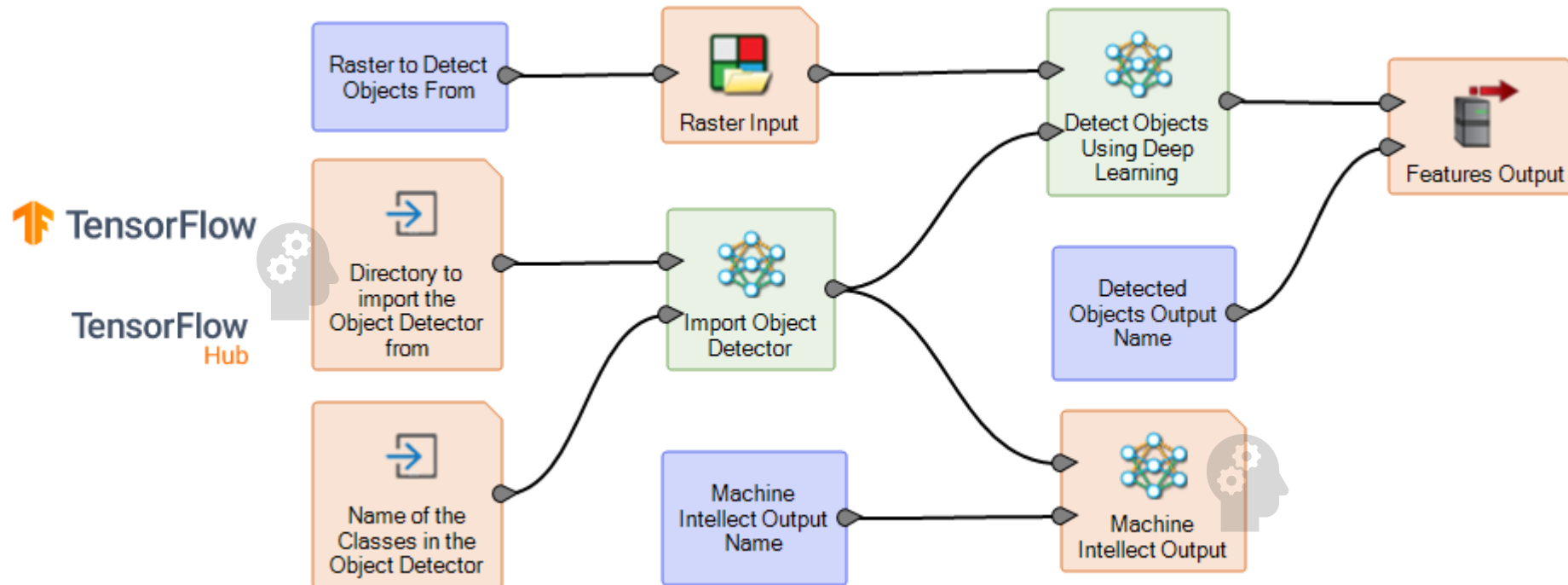


Erstellen von Trainingsamples aus Bestandsdaten

Spatial Modeler – neue KI Operatoren

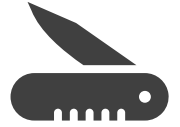


Import von externen Modellen im TensorFlow 2 Format
(`tf.keras.saving.save_model`)

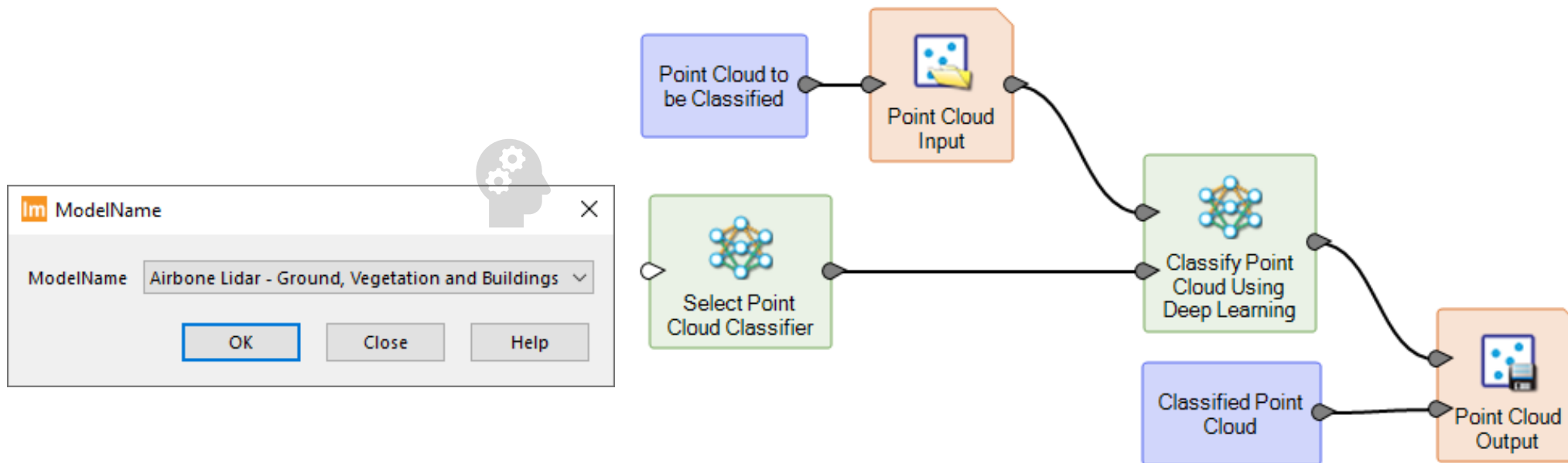


Einfügen extern trainierter Netze in eigene Workflows

Spatial Modeler – neue KI Operatoren



Klassifikation von Punktwolken



Vortrainierte Netze in IMAGINE