



NUTZUNG VON COPERNICUS-DATEN UND -DIENSTEN ÜBER DIE ARCGIS PLATTFORM

10. SITZUNG DES GEOIT ROUND TABLE NRW

31.01.2020

STEFAN KAUP

ESRI | CENTER OF EXCELLENCE REMOTE SENSING & ENVIRONMENT

IMAGERY IN DER ARCGIS PLATTFORM UND WIE MAN DAMIT SENTINEL BENUTZT

ARCHITEKTUR UND WORKFLOWS

IMAGERY IN DER ARCGIS PLATTFORM

#throwbackthursday 2012



Stefan Kaup in seinem Büro im Institut für Landes- und Stadtentwicklungsforschung. © Foto: Schnitzler

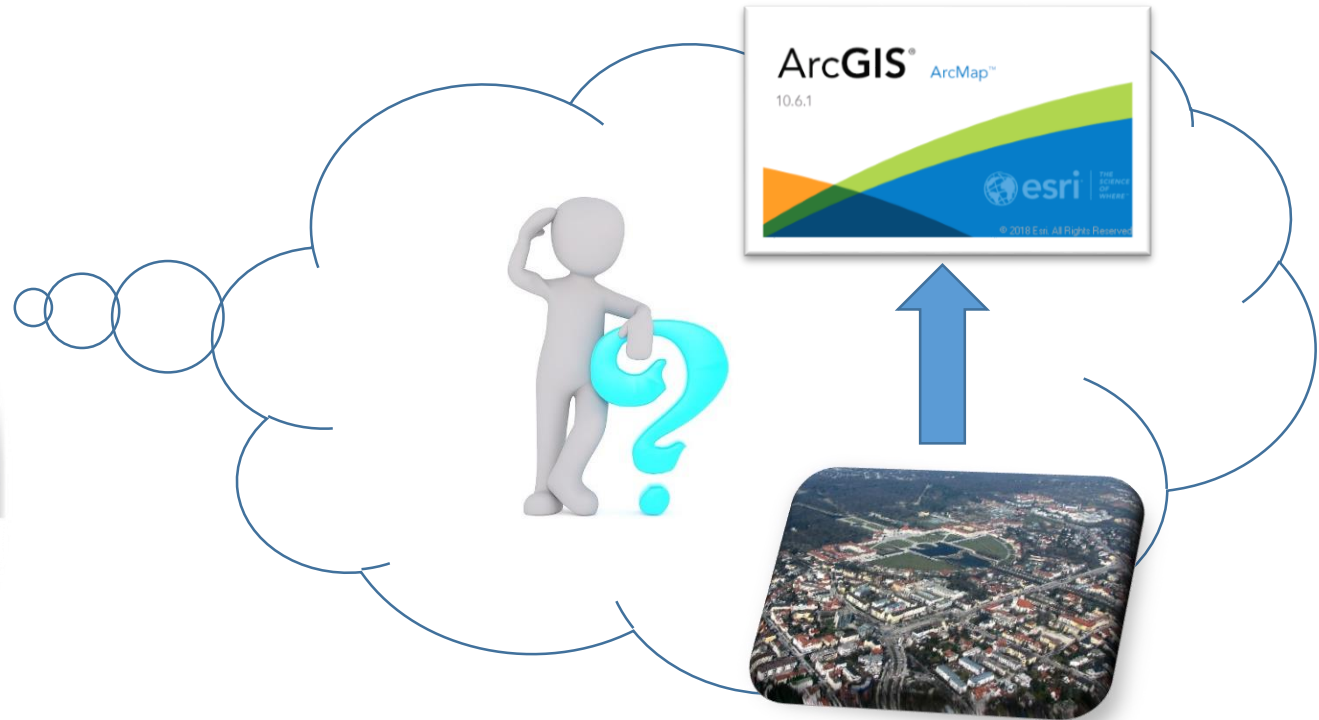
Aktualisiert am: 26.01.12 - 19:35

LABOR UND ICH

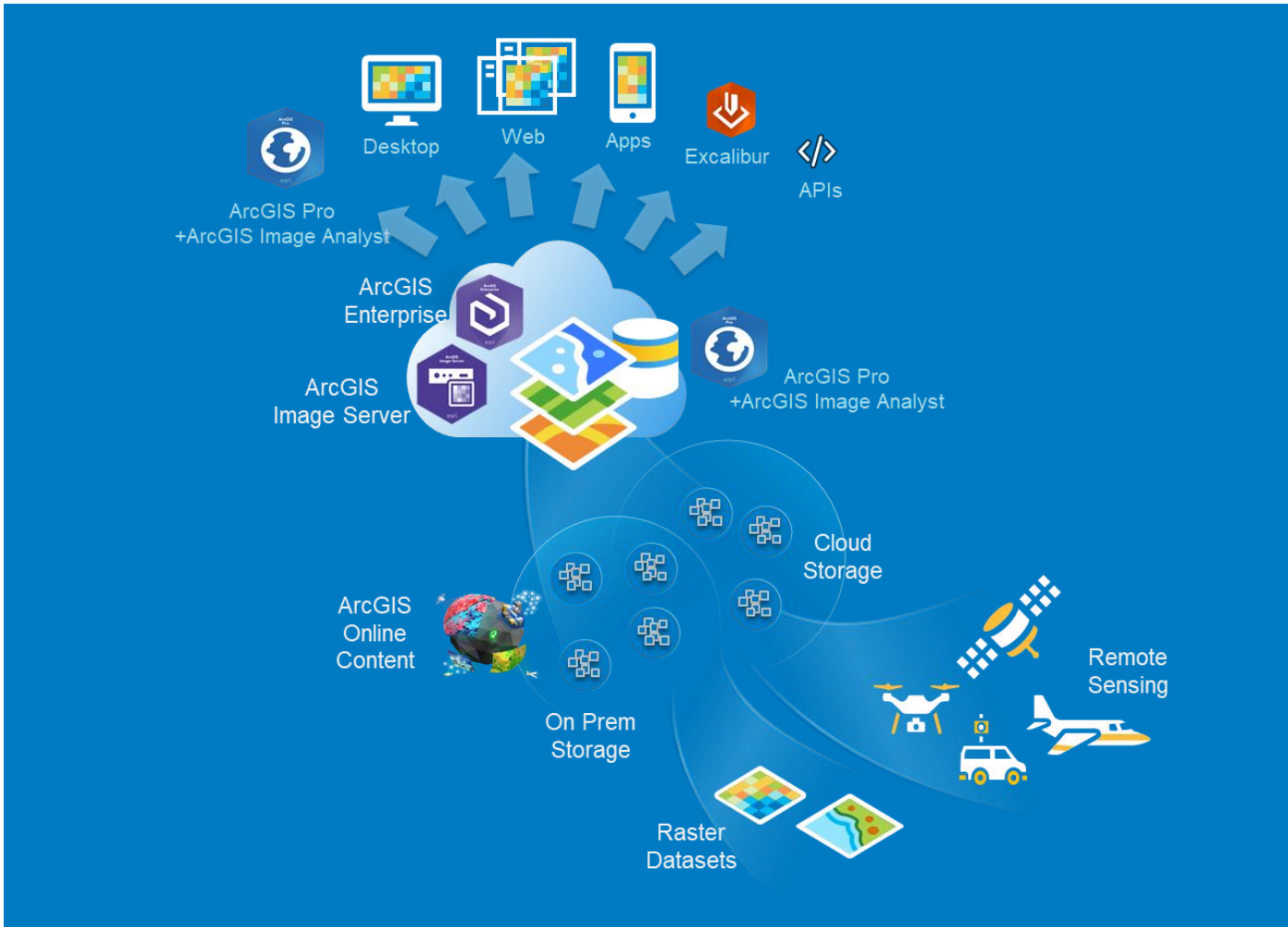
Stefan Kaup stellt aus Statistiken Karten zusammen

Stefan Kaup ist Diplom-Geograph und arbeitet als Wissenschaftler beim ILS - Institut für Landes- und Stadtentwicklungsforschung. Für seine Kollegen sucht er alle möglichen Daten und Statistiken zusammen, um daraus interessante und verständlichen Karten auf. Er greift auch auf Daten aus dem Internet zu.

Stefan Kaup ist ein Mann, der seinen frei zugänglichen Kartendienst im Internet – ein sehr interessantes Projekt – wie ein Restaurant oder die Bushaltestelle an der Ecke



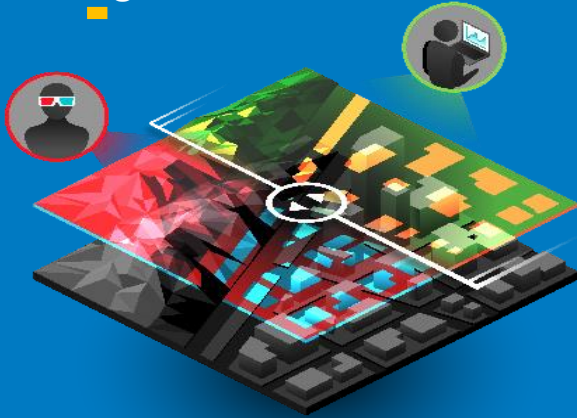
ARCHITEKTUR UND WORKFLOWS IMAGERY IN DER ARCGIS PLATTFORM



The screenshot shows the Esri Imagery and Remote Sensing overview page. The header includes the Esri logo and navigation links: Products, Industries, Support & Services, and About. The main heading is "Imagery & Remote Sensing" with the subtitle "Understand the world with ArcGIS". Below this, it states "Turn Earth observations into powerful insights". The page features a large 3D visualization of a globe with various data layers. A section titled "Fuel business decisions with proactive insights" mentions the Esri Geospatial Cloud. Below this, there are five cards: Content, Visualization & Exploration, Analysis, Management, and Map production, each with a brief description of its capabilities. At the bottom, there is a video player showing a presentation on "IMAGES IN ARCGIS" with the text "One platform to address local to global challenges".

5 SCHLÜSSELKOMPETENZEN IMAGERY IN DER ARCGIS PLATTFORM

Visualisierung
& In-Wert-Setzung



Management



Analyse



Karten-
erstellung



Content



SENTINEL DATENQUELLEN IMAGERY IN DER ARCGIS PLATTFORM

Sentinel-2 Views



Sentinel-2, 10m Multispectral, Multitemporal, 13-band images with visual renderings and indices. This Imagery Layer is sourced from the Sentinel-2 on AWS collections and is updated daily with new imagery. This layer is in beta release.

Imagery Layer von **esri**

Erstellt: 02.05.2018 Aktualisiert: 06.01.2020 Anzahl der Aufrufe: 418.779

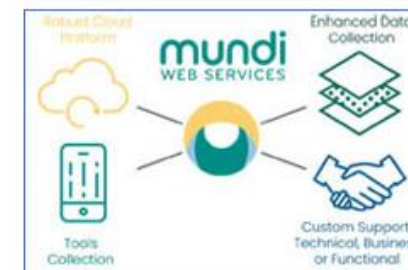
[Living Atlas](#) [Abonnent](#)

Beschreibung

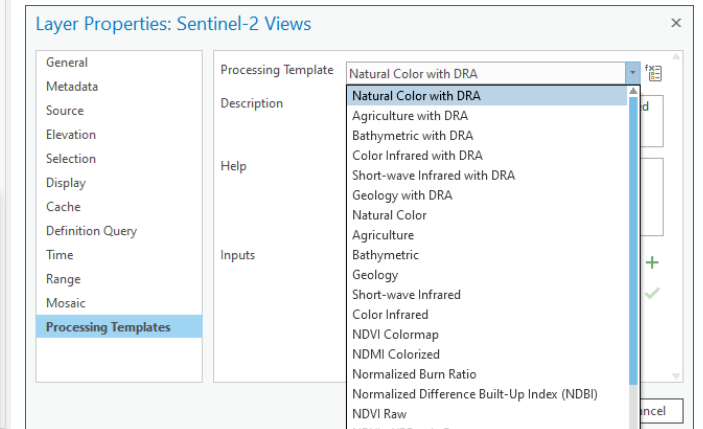
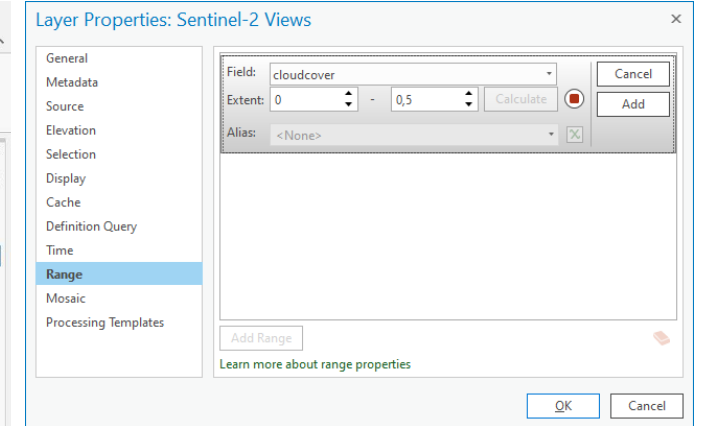
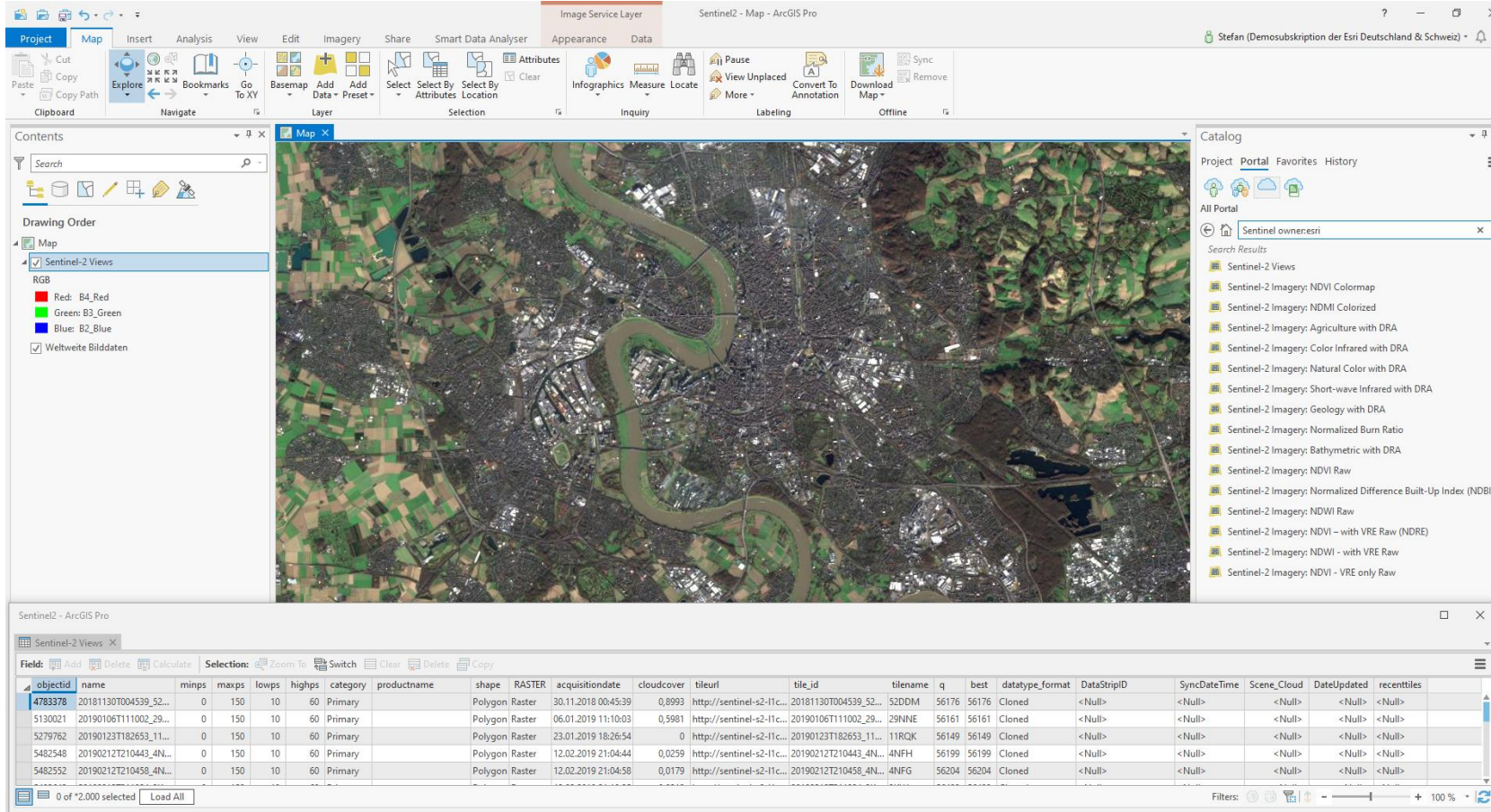
Sentinel-2, 10, 20, and 60m Multispectral, Multitemporal, 13-band imagery is rendered on-the-fly and available for visualization and analytics. This imagery layer pulls directly from the [Sentinel-2 on AWS](#) collection and is updated daily with new imagery.

This imagery layer can be applied across a number of industries, scientific disciplines, and management practices. Some applications include, but are not limited to, land cover and environmental monitoring, climate change, deforestation, disaster and emergency management, national security, plant health and precision agriculture, forest monitoring, watershed analysis and runoff predictions, land-use planning, tracking urban expansion, highlighting burned areas and estimating fire severity.

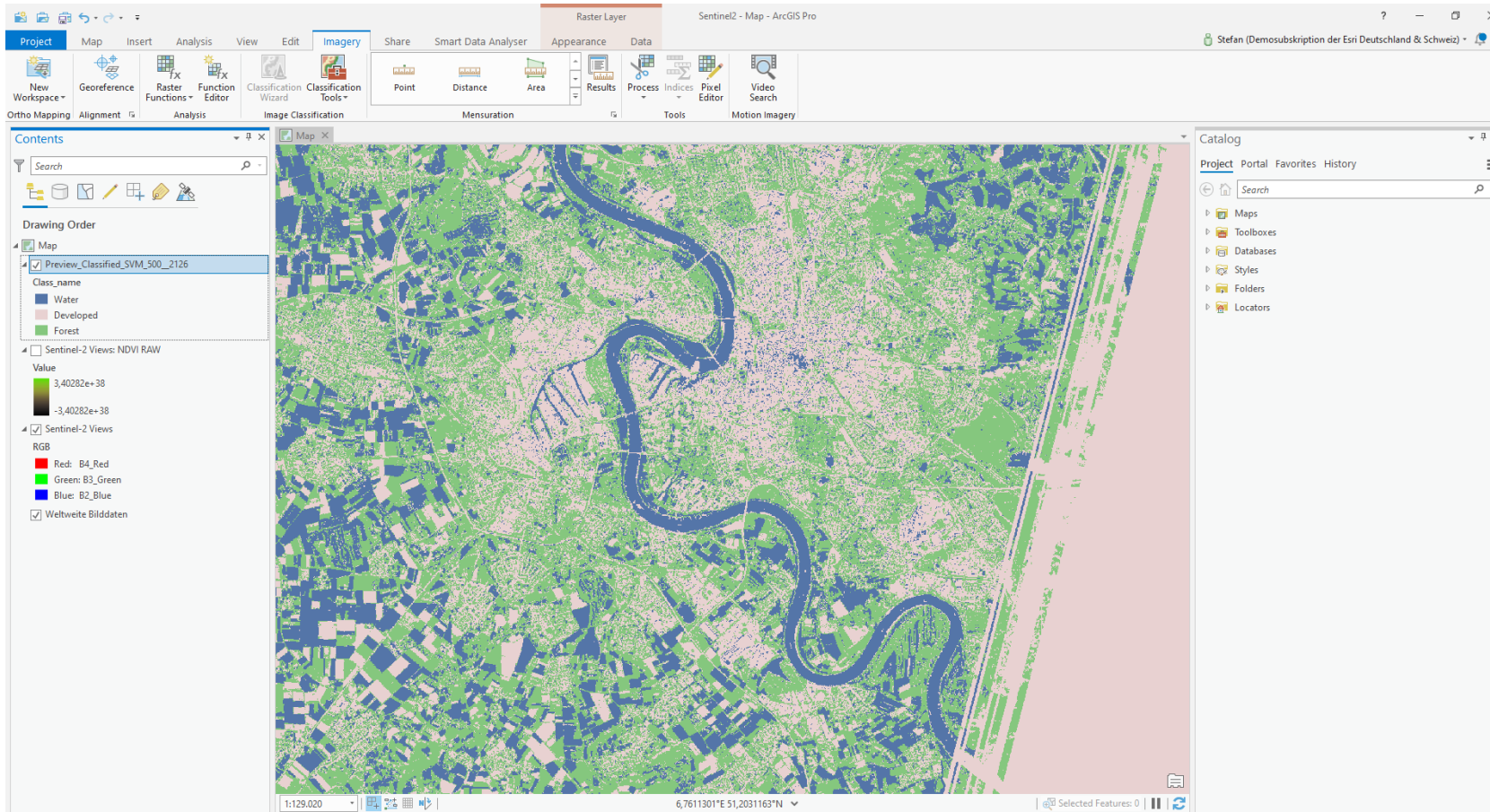
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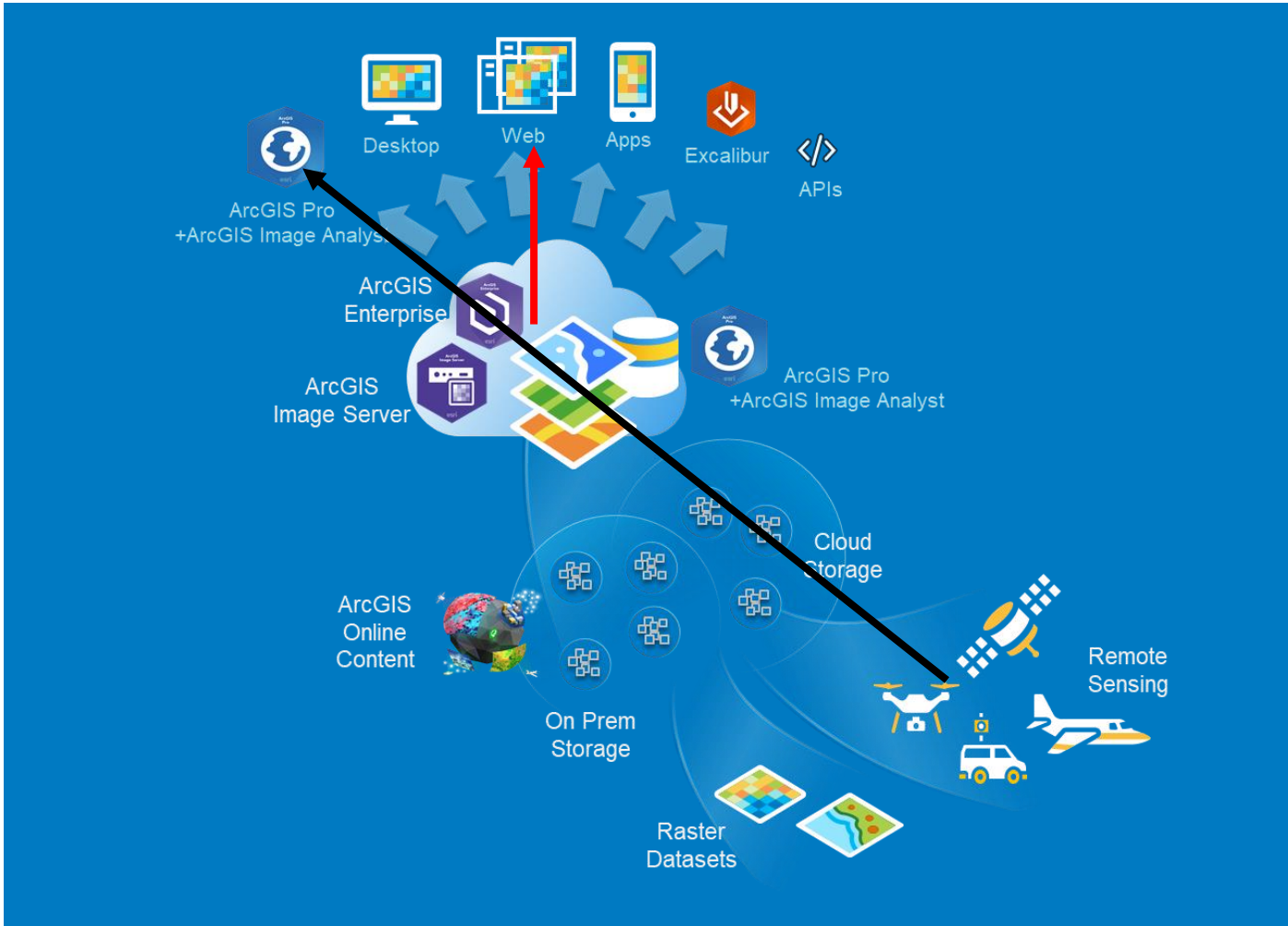
SENTINELDIENST IN ARCGIS DESKTOP IMAGERY IN DER ARCGIS PLATTFORM



DIENTSBASIERTES RENDERING UND INFORMATIONABLEITUNG IMAGERY IN DER ARCGIS PLATTFORM



ARCHITEKTUR UND WORKFLOWS IMAGERY IN DER ARCGIS PLATTFORM



The screenshot shows the Esri Imagery and Remote Sensing overview page. The header includes the Esri logo and navigation links: Products, Industries, Support & Services, and About. The main heading is "Imagery & Remote Sensing" with the tagline "Understand the world with ArcGIS". Below this, a sub-headline reads "Turn Earth observations into powerful insights".

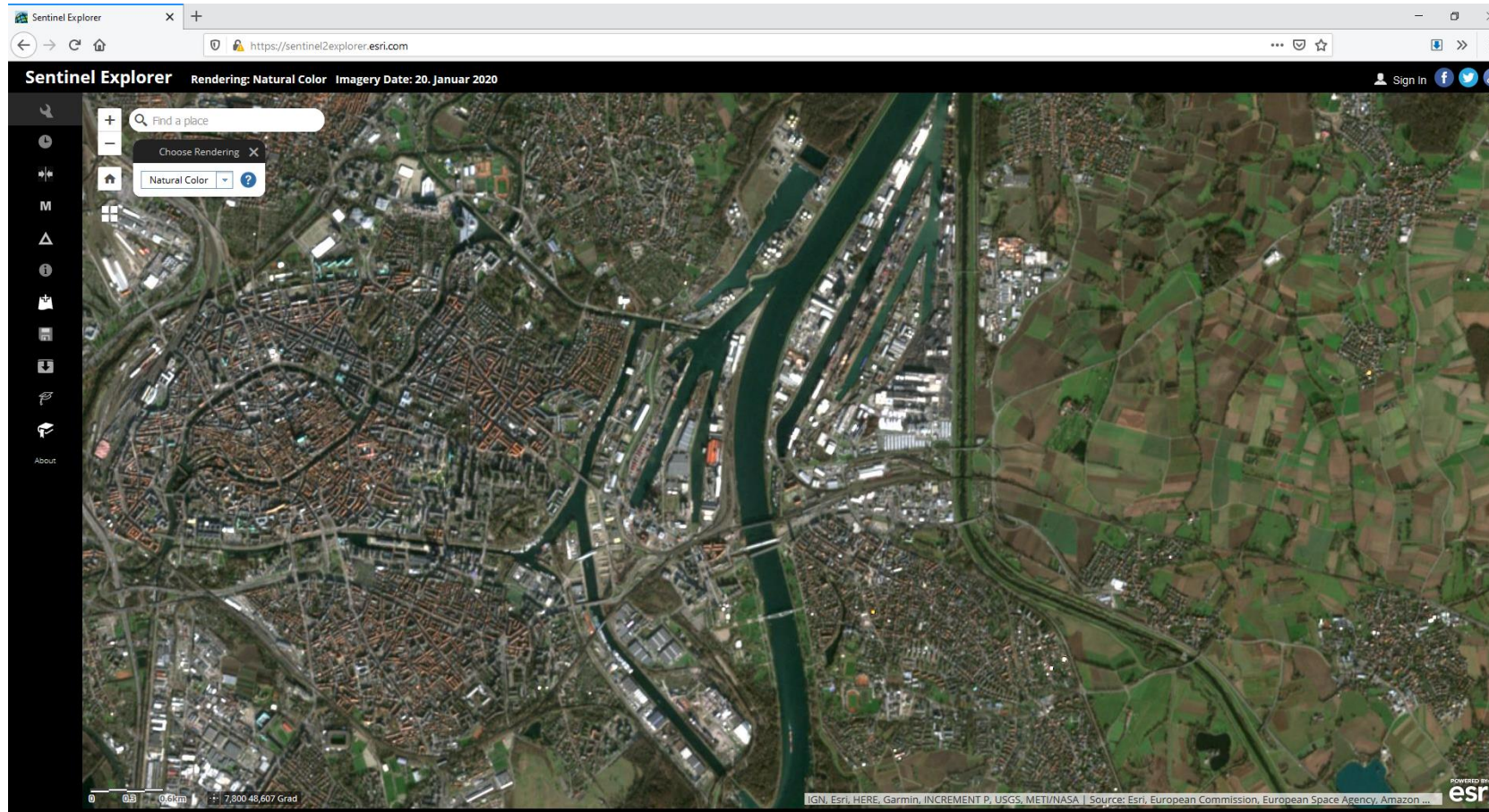
The page features a section titled "Fuel business decisions with proactive insights", which states: "Powered by the Esri Geospatial Cloud for better analysis, management, and organization-wide collaboration. With imagery and remote sensing data feeds included in the best-in-class location-based intelligence software, timely data-driven answers are possible for your business."

Below this text are five key capabilities:

- Content:** ArcGIS provides the world's largest online collection of imagery, terrain, and geospatial information layers to add insight and context to your work.
- Visualization & Exploration:** Discover the power of Earth observations by using dynamic desktop, web, and mobile applications that enable informed decision-making.
- Analysis:** Extract location-based information from geospatial data like land-cover classification, objects and features, and Earth changes.
- Management:** Catalog your imagery holdings to efficiently and securely store or publish them as web services. Access, scale, and unlock the information.
- Map production:** Create authoritative imagery derived products such as orthomosaics, digital elevation models, 3D meshes, and topographic maps.

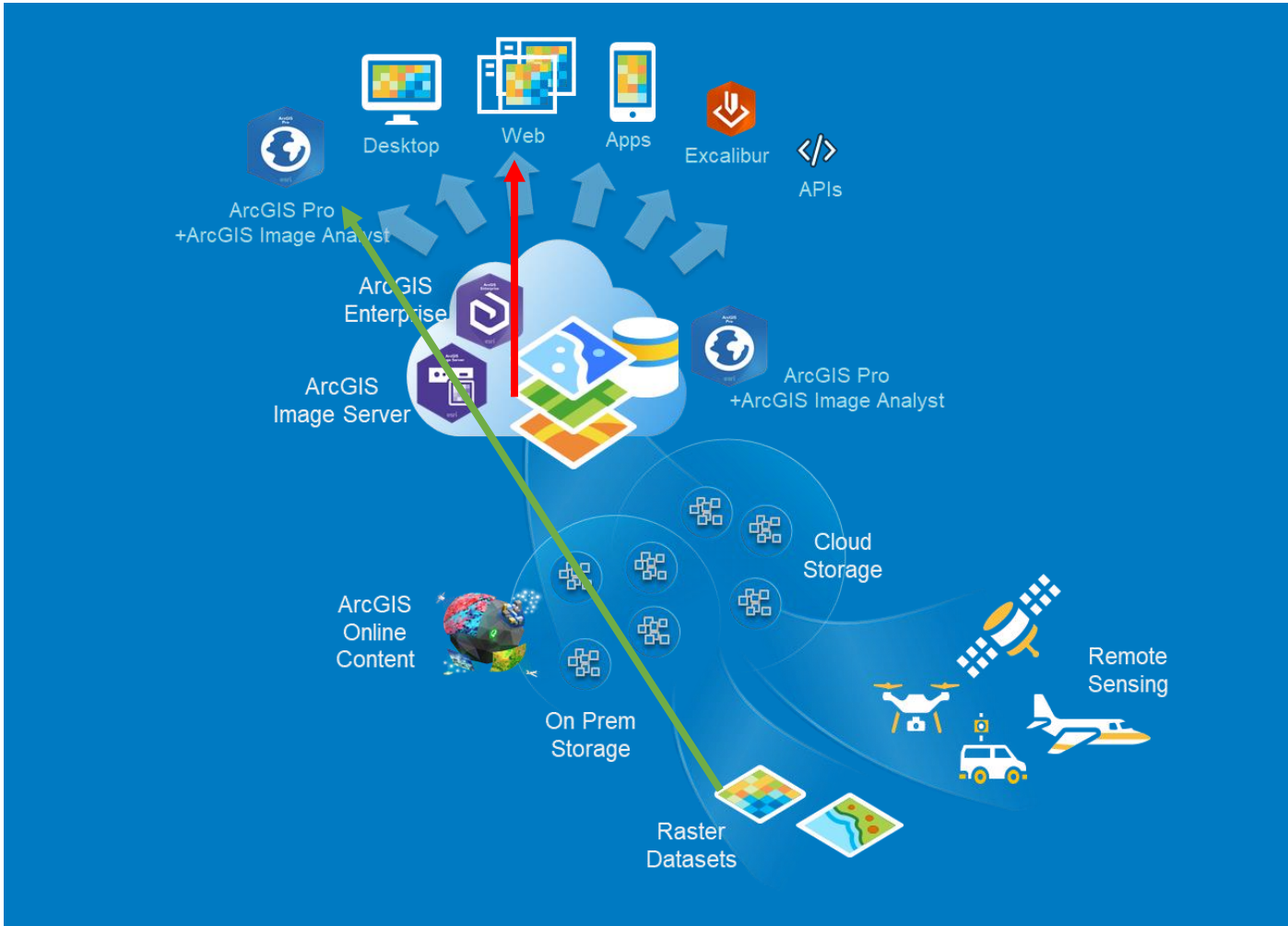
The bottom section, titled "IMAGES IN ARCGIS", features a video player showing a person using a laptop and a large screen displaying a map. The text reads: "One platform to address local to global challenges. Drone, aircraft, and satellite deployed sensors provide views of our planet from every possible vantage point, creating massive volumes of untapped information. Leverage the power of the Esri Geospatial Cloud to transform decision-making."

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<https://sentinel2explorer.esri.com/>

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The screenshot shows the **Imagery and Remote Sensing** overview page on the Esri website. The page features a header with navigation links (Products, Industries, Support & Services, About) and a search bar. The main content area has a large blue banner with the text "Imagery & Remote Sensing" and "Understand the world with ArcGIS". Below this, a section titled "Fuel business decisions with proactive insights" describes the benefits of the Esri Geospatial Cloud. A table of five key capabilities is provided:

Content	Visualization & Exploration	Analysis	Management	Map production
ArcGIS provides the world's largest online collection of imagery, terrain, and geospatial information layers to add insight and context to your work.	Discover the power of Earth observations by using dynamic desktop, web, and mobile applications that enable informed decision-making.	Extract location-based information from geospatial data like land-cover classification, objects and features, and Earth changes.	Catalog your imagery holdings to efficiently and securely store or publish them as web services. Access, scale, and unlock the information.	Create authoritative imagery derived products such as orthomosaics, digital elevation models, 3D meshes, and topographic maps.

At the bottom, a video player shows a presentation titled "IMAGES IN ARCGIS" with the subtitle "One platform to address local to global challenges". The video description states: "Drone, aircraft, and satellite deployed sensors provide views of our planet from every possible vantage point, creating massive volumes of untapped information. Leverage the power of the Esri Geospatial Cloud to transform decision-making."

THE SYSTEM OF RECORD FOR IMAGERY

IMAGERY IN DER ARCGIS PLATTFORM

Mosaic Datasets

- References Source
- Maintains Metadata
- Defines Processing To Be Applied
- Numerous Raster Data Types
- Highly Scalable

ArcGIS Image Server

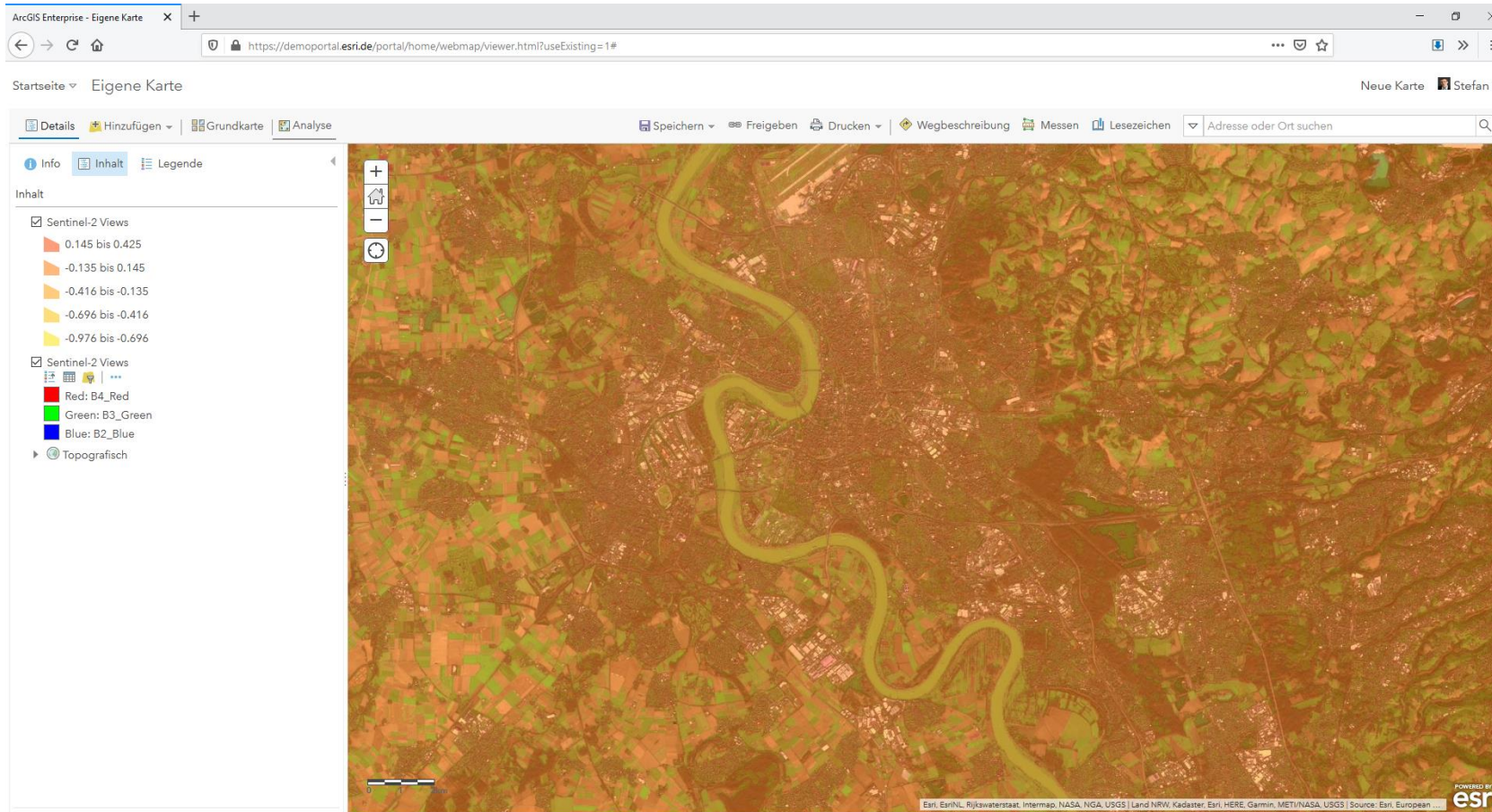
- Dynamic Image Services
- Image Hosting
- Raster Analytics
- Ortho Mapping

On Premise and Cloud
Support for AWS, Azure
Many Cloud Storage Options



*ArcGIS Pro – Standard
ArcGIS Image Server`*

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ArcGIS Enterprise mit Image Server

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DAS UNTERNEHMEN

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