

DestinE Platform

DESTINE TRAINING SESSION

DARMSTADT, 16 OCTOBER 2024



Destination Earth

Funded by
the European Union



Implemented by





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slido.com
#TrainingSession

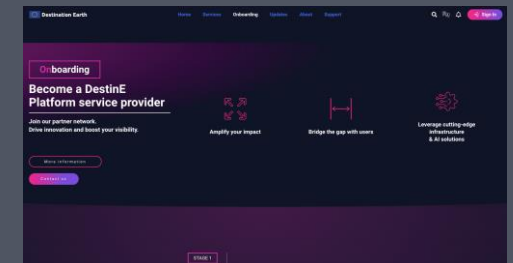
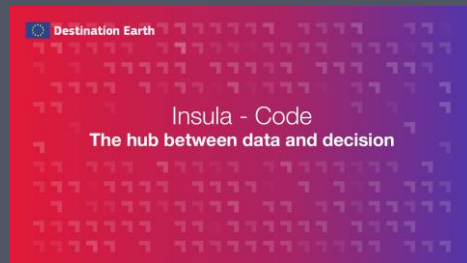
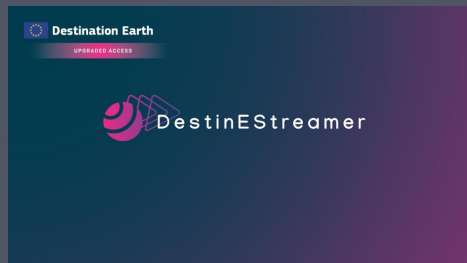


<https://app.sli.do/event/emgz48pQrhy7qyx5YWz2ho>

REGISTER ON DESTINE PLATFORM

[PLATFORM.DESTINE.EU](https://platform.destine.eu)

- Insula Code & Insula Processing – *Cesare ROSSI, CGI*
- SesamEO, DeltaTwin – *Christophe DEMANGE, GAEL Systems*
- DestinE Streamer – *Wolfgang KAPFERER, Geoville*
- DestinE Platform – Service onboarding – *Elisabetta GIULIANI, Serco*





THE HUB BETWEEN DATA AND DECISIONS

Destination Earth

Insula - Processing
The hub between data and decision

BETA TESTING

Destination Earth

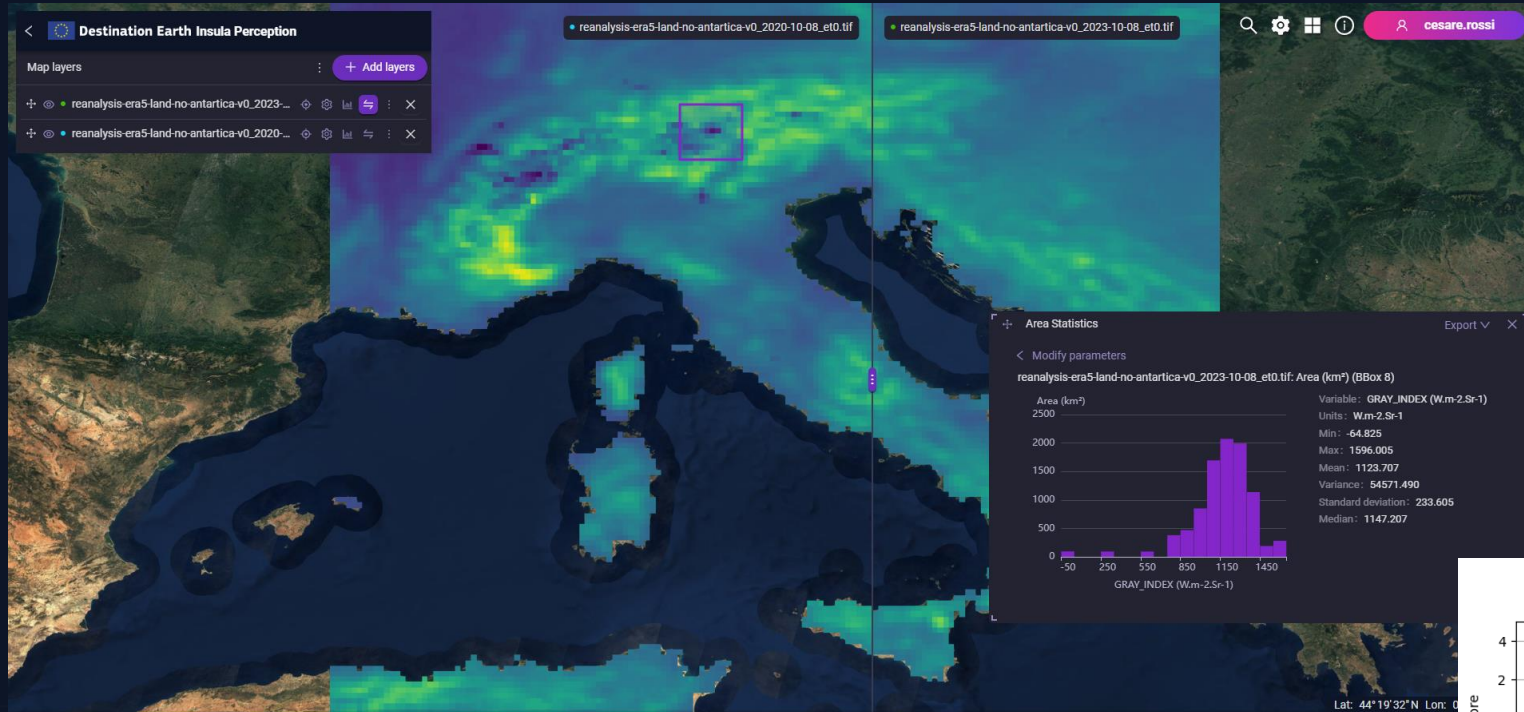
Insula - Code
The hub between data and decision

CGI

THE HUB BETWEEN DATA AND DECISIONS

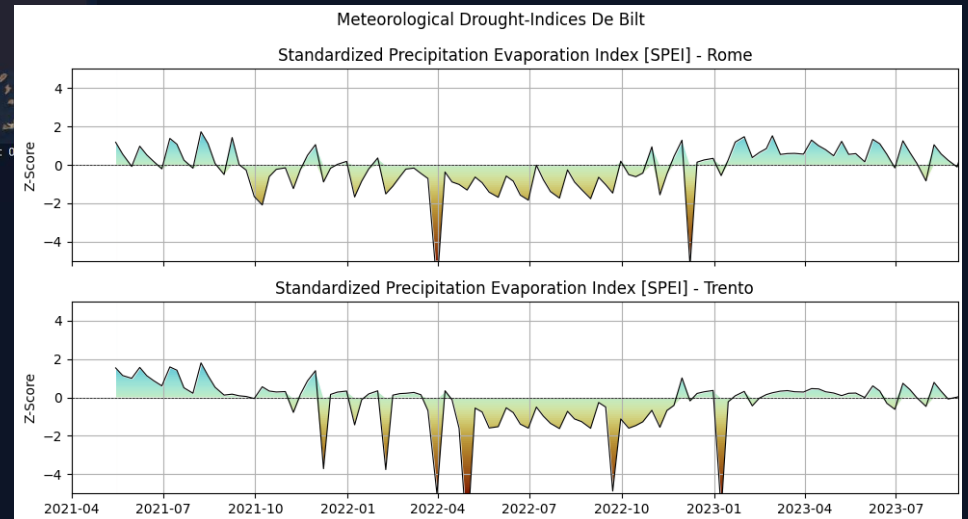
Collaborate and share your findings with ease, fostering a data-driven approach to Earth Observation.

- **Experiment & test** your algorithms and datasets
- **Run your own code** in production, or services shared by the community and partners
- **Gain deeper insights** with advanced analytics
- **Scale your processing** capabilities to handle large-scale campaigns

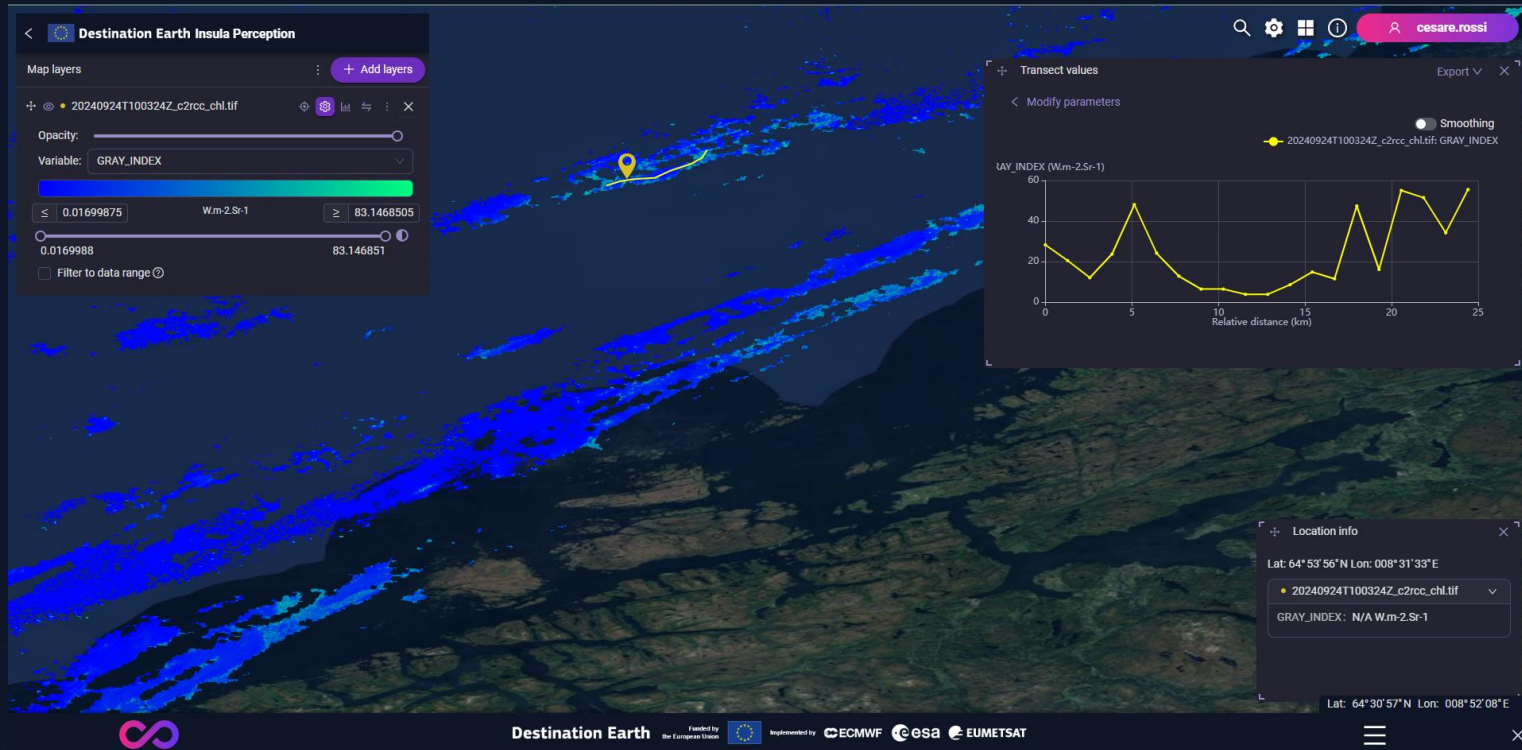


Tutorial

Compute the Penman-Monteith Evapotranspiration index with ERA5 and perform historical analysis



Year



Tutorial

Develop and run a service based on ESA SNAP 10 using the CR2CC and IdePix plugins with Sentinel-3 OLCI

Year



Join at
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#TrainingSession



<https://app.sli.do/event/emgz48pQrhy7qyx5YWz2ho>



SesamEO DATA ACCESS

Gael Systems

Data access

Earth Observation

CDSE

DestinEData Lake

GUI

SesamEO makes data from Copernicus and others (statistics, atmospheric or climate) accessible via themes and collections from the catalogues. Collections can be browsed and searched by keyword. Products can be viewed, filtered and downloaded according to the provider's capabilities.

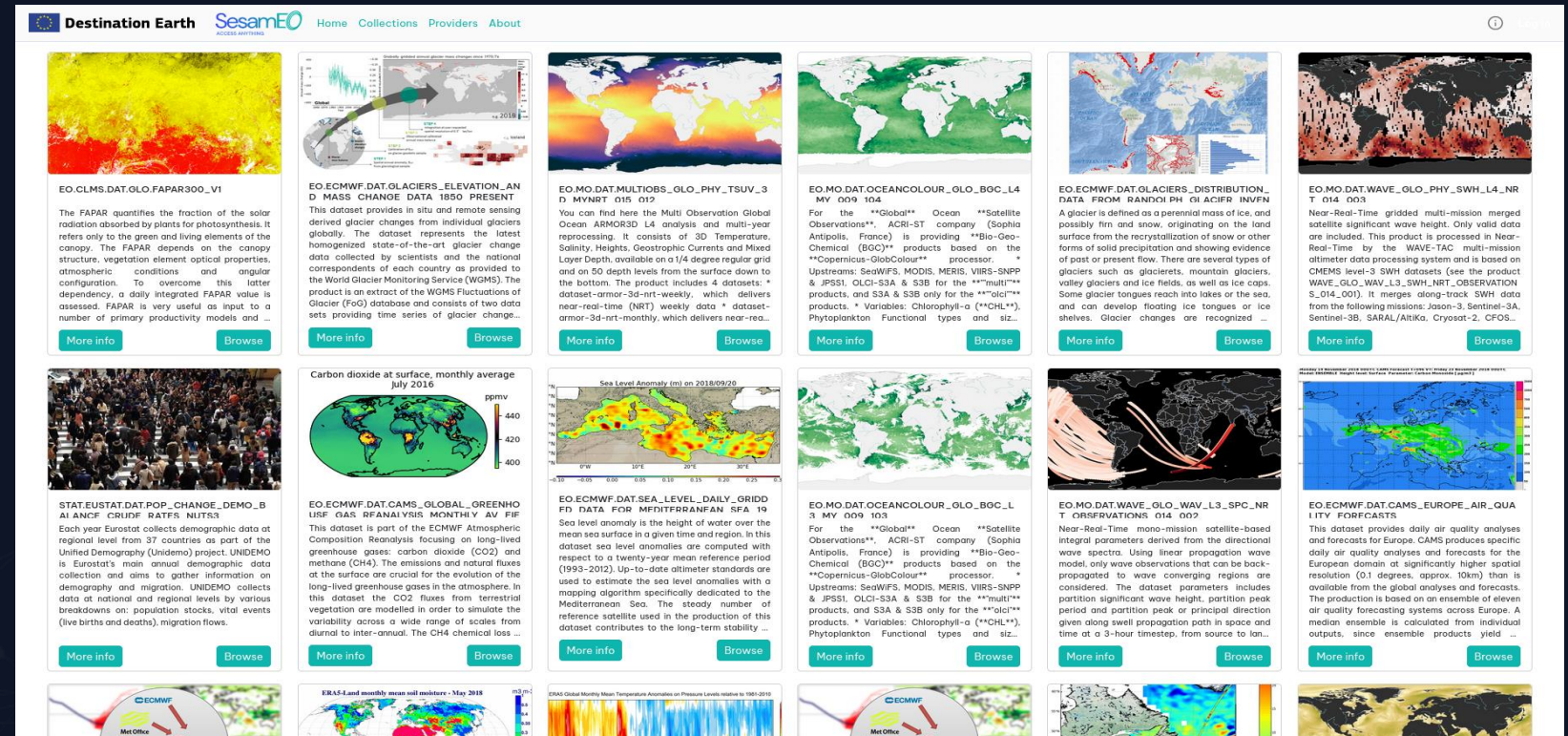


GÆEL SYSTEMS

SesamEO[®] offers easy access to a wide range of datasets from different sources.
It acts as a bridge to the various Providers' interfaces.

Data products are organised by Collections.




Data types can be images, JSON, XML, CSV, and metadata.



The screenshot displays the SesameEO web interface, which is organized into a grid of data collections. Each collection card includes a thumbnail image, a title, a brief description, and two buttons: 'More info' and 'Browse'. The collections shown include:

- EO.CLMS.DAT.GLO.FAPAR300_V1**: FAPAR quantifies the fraction of solar radiation absorbed by plants for photosynthesis.
- EO.ECMWF.DAT.GLACIERS_ELEVATION_AND MASS CHANGE DATA 1850 PRESENT**: Provides in situ and remote sensing derived glacier changes globally.
- EO.MO.DAT.MULTIOBS_GLO_PHY_TSUV_3D MYNRT 015 012**: Multi Observation Global Ocean ARMOR3D L4 analysis and multi-year reprocessing.
- EO.MO.DAT.OCEANCOLOUR_GLO_BOC_L4 MY 009 104**: Ocean Color Observations (OCO) from the Copernicus-GlobColour processor.
- EO.ECMWF.DAT.GLACIERS_DISTRIBUTION_DATA FROM RANDOM PH GLACIER INVEN**: Glacier distribution data from satellite imagery.
- EO.MO.DAT.WAVE_GLO_PHY_SWH_L4_NRT 014 003**: Near-Real-Time gridded multi-mission merged satellite significant wave height.
- STAT.EURSTAT.DAT.POP_CHANGE_DEMO_B AN ANCE CRUIDE RATFS NUTS3**: Demographic data from Eurostat.
- EO.ECMWF.DAT.CAMS_GLOBAL_GREENHO USE GAS RFANALYSIS MONTHLY AV FIF**: Global Greenhouse Gas Reanalysis from Copernicus.
- EO.ECMWF.DAT.SEA_LEVEL_DAILY_ORIDD FD DATA FOR MEDITERRANEA SFA 19 3 MY 009 103**: Sea Level Anomaly (SLA) data for the Mediterranean Sea.
- EO.MO.DAT.OCEANCOLOUR_GLO_BOC_L 3 MY 009 103**: Ocean Color Observations (OCO) from the Copernicus-GlobColour processor.
- EO.MO.DAT.WAVE_GLO_WAV_L3_SPC_NRT OBSERVATIONS 014 002**: Near-Real-Time mono-mission satellite-based integral parameters derived from the directional wave spectra.
- EO.ECMWF.DAT.CAMS_EUROPE_AIR_QUALITY FORECASTS**: Daily air quality analyses and forecasts for Europe.
- ERA5_Land monthly mean soil moisture - May 2018**: Soil moisture data from the ERA5 reanalysis.
- ERA5 Global Monthly Mean Temperature Anomalies on Pressure Levels relative to 1981-2010**: Temperature anomalies from the ERA5 reanalysis.

Three providers are currently supported

 <p>CDSE Copernicus Data Space Ecosystem</p> <p>Access a wide range of Earth observation data from the Copernicus Sentinel missions and more.</p> <p>Configuration</p>	 <p>DEDL Destination Earth Data Lake</p> <p>The DestinE Data Portfolio evolves according to user needs. It federates with existing data holdings as well as with complementary data from diverse sources like in-situ, socio-economic, or data-space data.</p> <p>Configuration</p>	 <p>EUROPEAN STATISTICAL SYSTEM</p> <p>EUROSTAT Eurostat</p> <p>High-quality European statistics.</p> <p>Configuration</p>
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Adding new providers with OData, STAC or SDMX interface can be easy

A search box enables finding collections by keywords

Collections are defined by the data providers, or via the SesamEO configuration.

Custom collections can be created by filtering for specific data types or fields.

Destination Earth SesamEO Home Collections Providers About

SesamEO ACCESS ANYTHING

CLIMATE

Popular tags: sentinel air forecast eurostat ocean

RESULTS

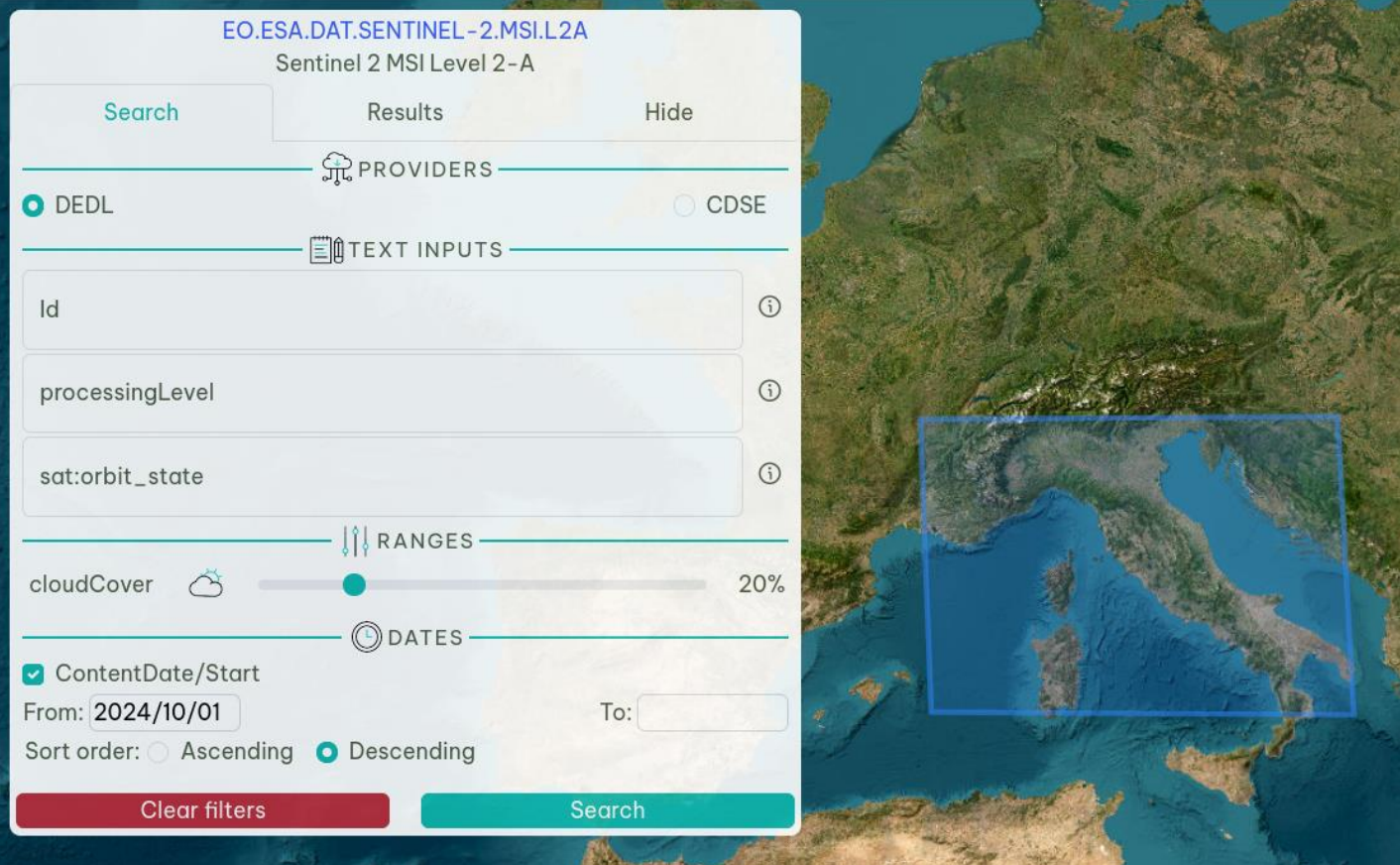
<p>EO.MO.DAT.OCEANCOLOUR_...</p> <p>For the Global Ocean Satellite Observations, ACRI-ST company (Sophia Antipolis, France) is providing Bio-Geo-Chemical (BGC) products based on the Copernicus-GlobColour...</p> <p>More info Browse</p>	<p>EO.MO.DAT.WAVE_GLO_PHY_...</p> <p>Near-Real-Time gridded multi-mission merged satellite significant wave height. Only valid data are included. This product is processed in Near-Real-Time by the WAVE-TAC multi-mission altimeter da...</p> <p>More info Browse</p>	<p>EO.MO.DAT.MULTIOBS_GLO_...</p> <p>You can find here the Multi Observation Global Ocean ARMOR3D L4 analysis and multi-year reprocessing. It consists of 3D Temperature, Salinity, Heights, Geostrophic Currents and Mix...</p> <p>More info Browse</p>	<p>EO.MO.DAT.OCEANCOLOUR_...</p> <p>For the Global Ocean Satellite Observations, ACRI-ST company (Sophia Antipolis, France) is providing Bio-Geo-Chemical (BGC) products based on the Copernicus-GlobColour...</p> <p>More info Browse</p>	<p>EO.MO.DAT.WAVE_GLO_W</p> <p>Near-Real-Time mono-r satellite-based integral parame... derived from the directional spectra. Using linear propa... wave model, only wave observ... that can be back-propagat...</p> <p>More info Bro</p>
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[See popular collections](#)

The filtering capabilities of the Collection/Provider are automatically discovered

Select preferred provider.

Harmonisation effort on similar filters from different providers with different names to simplify the user experience.



EO.ESA.DAT.SENTINEL-2.MSI.L2A
Sentinel 2 MSI Level 2-A

Search Results Hide

PROVIDERS

DEDL CDSE



TEXT INPUTS

Id ⓘ

processingLevel ⓘ

sat:orbit_state ⓘ

RANGES

cloudCover   20%

DATES

ContentDate/Start

From: 2024/10/01 To:

Sort order: Ascending Descending

Clear filters Search

PRODUCT LIST AND INFORMATION PANEL

Paginated result list with thumbnails and footprints
 Information panel with product's metadata, attributes, download links
 and licensing information related to the collection.

The screenshot displays the SESAMEO interface. On the left, a search results table shows a list of products with columns for 'Search', 'Results', and 'Hide'. The table lists product IDs, acquisition times, and percentages. A central map shows a grid of cyan footprints over a satellite view of Europe. On the right, a detailed information panel for product S2A_MSIL2A_20241008T095031_N0511_R079_T33TWE_20241008T124449 is shown. This panel includes a 'QUICKLOOK' section with a thumbnail, a 'FOOTPRINT' section with a map, a 'METADATA' section with product details, and a 'DOWNLOAD LINKS' section with a list of files for download.

Search	Results	Hide
Products found: 83	Showing 50 products	
S2A_MSIL2A_20241008T095031_N0511_R079_T33TWE_20241008...	<ul style="list-style-type: none"> 2024-10-08T09:50:31.024Z 2024-10-08T14:22:34.084580Z 8.662605 % 	<ul style="list-style-type: none"> Info Zoom Download
S2A_MSIL2A_20241007T101921_N0511_R065_T32TNL_20241007T...	<ul style="list-style-type: none"> 2024-10-07T10:19:21.024Z 2024-10-07T16:08:38.976622Z 12.963891 % 	<ul style="list-style-type: none"> Info Zoom Download
S2B_MSIL2A_20241007T093029_N0511_R136_T33SYD_20241007T...	<ul style="list-style-type: none"> 2024-10-07T09:30:29.024Z 2024-10-07T13:04:24.943602Z 8.575843 % 	<ul style="list-style-type: none"> Info Zoom Download

Product Information Panel:
QUICKLOOK: [Thumbnail of the product area]
FOOTPRINT: [Map showing the footprint grid]
METADATA:
 Name: S2A_MSIL2A_20241008T095031_N0511_R079_T33TWE_20241008T124449
 Id: DEDL:S2A_MSIL2A_20241008T095031_N0511_R079_T33TWE_20241008T124449
 Provider: DEDL
 Acquisition: 2024-10-08T09:50:31.024Z
 Publication: 2024-10-08T14:22:34.084580Z
DOWNLOAD LINKS:
 Click on the files below to download them
 - AUX_CAMSFO
 - AUX_ECMWFT
 - DownloadLink
 - FORMAT_CORRECTNESS.xml
 - GENERAL_QUALITY.xml
 - GEOMETRIC_QUALITY.xml
 - INSPIRE.xml
 - L2A_QUALITY.xml



DeltaTwin

BETA TESTING, MODELLING

Earth observation data products

Cloud infrastructures

Gael Systems

The DeltaTwin® service offers a collaborative toolbox to build and share your digital twin components. The UI is organized into sections facilitating seamless data representation and organization based on specific analysis topics. The Command line provides the same features as the UI in a CLI mode in order to enable developers to seamlessly script Delta command.



GÆEL SYSTEMS

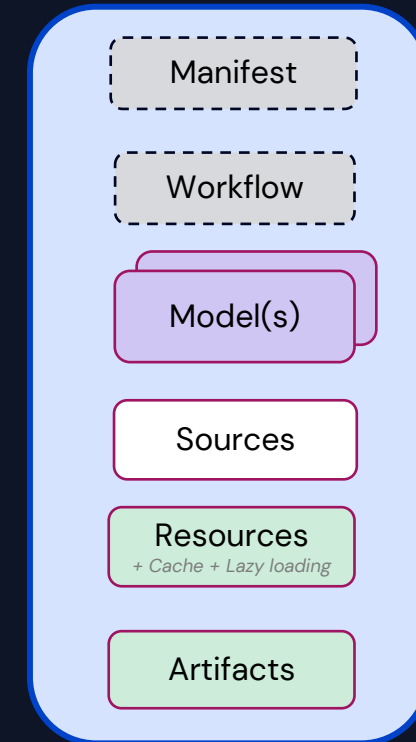
DELTATWIN COMPONENT

CONCEPT



The inner organization of the DeltaTwin[®] component includes:

- *Manifest* file is the core configuration item describing the DeltaTwin[®] component.
- *Workflow file* describes the orchestration step to complete the entire process.
- *Models* folder contains the runnable models configured for execution.
- *Sources* folder contains the source code of the models, when relevant.
- *Resources* describes static embedded resources resulting from execution or from other DeltaTwin[®] component dependency.
- *Artifacts* are DeltaTwin special outputs that can be published or reused by user. It is documented with a list of metadata indicating its characteristics and generation context.



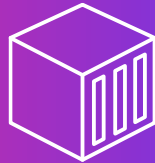


1. Configure



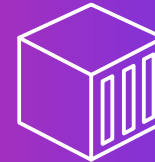
Defines your models, resources, dependencies and workflow

2. Deploy



Upload your component in DeltaTwin Drive in public or private mode

3. Run



Run and monitor your models

4. Share



Download generated outputs or publish them in your personal space.

CONTRIBUTE TO DIGITAL TWINS

CONCEPT



New data available

Link your models with datasources and benefit from connectors.



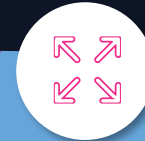
Trigger job

Schedule your runs regularly or link them to data-driven events.



Publish & share

Publish your artifacts and share them with your colleagues.



New valuable data

Get your generated outputs



Update your digital twin

Integrate your data into digital twins



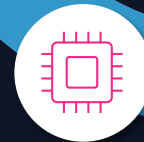
Notification

Inform your listeners and leverage from interoperability mechanisms like MIMs standard in urban digital twins ecosystems



Run

Orchestrate your workflow and benefit from scalability solutions



Monitor

View your runs and their live progress



Starter kit

A gallery of public DeltaTwin components that can be re-used or run depending on their usage policy.

Starter kit

Get started with one of our DeltaTwins components

Atl urban air temperature downscaling

Demo drought indicator

Band composition

Basic components to perform common operations. These act as building blocks for more complex DeltaTwin components.

Advanced DeltaTwin component more dedicated to non-developer users, like decision-makers, by providing quick insights into key indicators.

Our urban air temperature downscaling model, developed by our partner Colab+Atlantic, is designed in this way.





➤ DeltaTwin web application <https://app.deltatwin.destine.eu/>

➤ DeltaTwin Command Line Interface (CLI): `pip install deltatwin-cli`

The Command line interface is the developer dedicated tool, ideal for scripting and building your own DeltaTwin® component before publishing them in your online catalogues.

Its documentation is available on the Web Portal Documentation service:

https://platform.destine.eu/services/documents-and-api/doc/?service_name=deltatwin

TRY IT - RUN AND CREATE ARTIFACT

➤ Our first partner +Atlantic CoLAB

Using weather forecast (AROME), the model aims to pinpoint the locations where people are relatively more exposed to excessive heat in Lisbon city

DeltaTwins / atl-urban-air-temperature-downscaling

Public



Inputs

Input	Type	Default Value	Description
runHour	string		00 or 12, corresponding the hour of data loaded from IPMA's prediction model (AROME)

TRY IT - RUN AND CREATE ARTIFACT

➤ Our first partner +Atlantic CoLAB

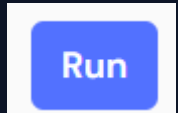
Outputs



Output	Type	Default Value	Description
uhi_gif	Data		Animated GIF containing hourly map representation of uhi (Urban Heat Island) indicators
downscaled_temperature	Data		Hourly map representation of downscaled air temperature
uhi_indicator	Data		Hourly map representation of uhi (Urban Heat Island) indicators
downscaled_gif	Data		Animated GIF containing hourly map representation of downscaled air temperature



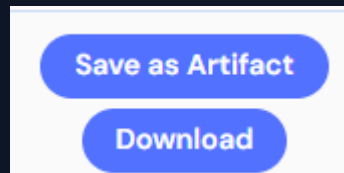
➤ Our first partner +Atlantic CoLAB



4 generated outputs success

Name	Type	Value	Size	Checksum	Options
uhi_indicator	Data	uhi_indicator_2024-10-11.zip	6.90Mo	md5@d1c2e41a4b28fbe289255643d8a30e49	Save as Artifact Download
downscaled_gif	Data	downscaled.gif	1.80Mo	md5@c973cd8a92bc97c7045d4f6ff41a245a	Save as Artifact Download
downscaled_temperature	Data	downscaled_map_2024-10-11.zip	14.81Mo	md5@c203e582cde45f757b9c1ffb1443435a	Save as Artifact Download
uhi_gif	Data	uhi.gif	879.28Ko	md5@5ad4a373a7e2206dd13a8467a41b2fc3	Save as Artifact Download

➤ Our first partner +Atlantic CoLAB



Save output as an artifact

Artifact name *
uhi_indicator

Description *
Add a short description

Topic *
Add a topic

Minimum Interoperability Mechanims (MIM2) ↗

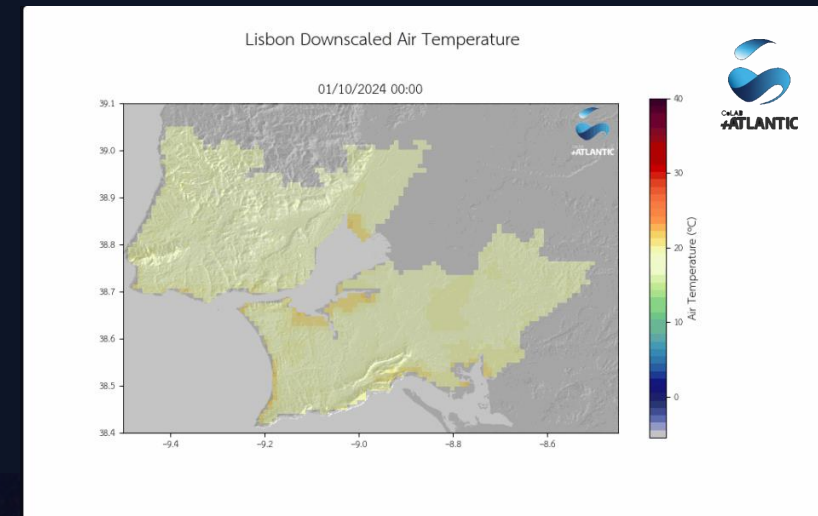
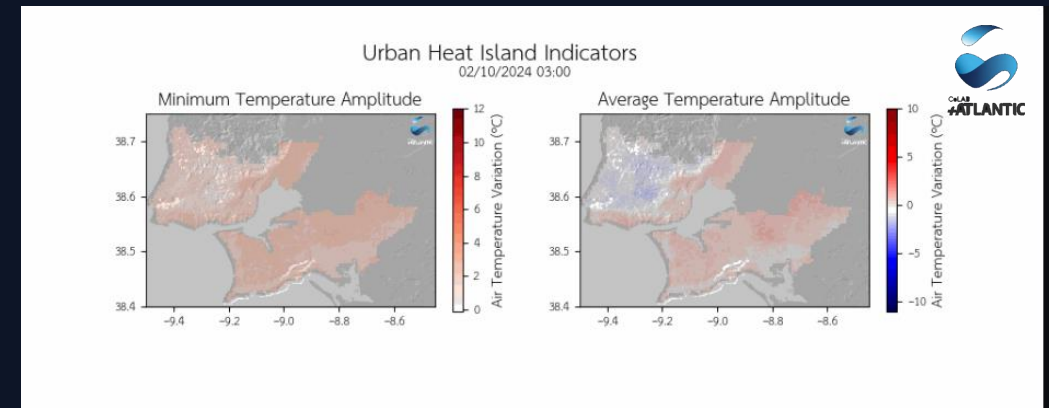
Smart Data Models

Search by attribute

Search by model

--Please choose an Smart Data Model--

Save



Interoperability

Smart Data Models is a collaborative program to provide models for urban digital twins based on actual use cases and open standards

- **Scheduler:** *program recurrent jobs*
- **New model from Colab+Atlantic:** *Climate Model based on DEDL data sources*
- **Sharing:** *share your artifacts or DeltaTwin components with the user community*
- **Search bar:** *find easily your artefacts or DeltaTwins by search criteria*
- **Infrastructure affinities:** *define your computing resources to run your models*
- **Interoperability with other DESP Services:** *Data Cache Management, DEA story telling*

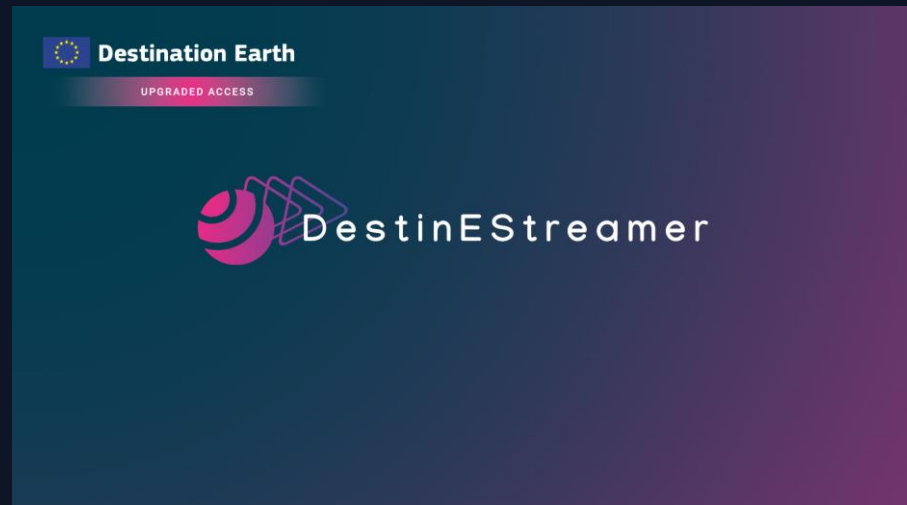


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slido.com
#TrainingSession



<https://app.sli.do/event/emgz48pQrhy7qyx5YWz2ho>

EFFICIENT DATA ACCESS MADE SIMPLE



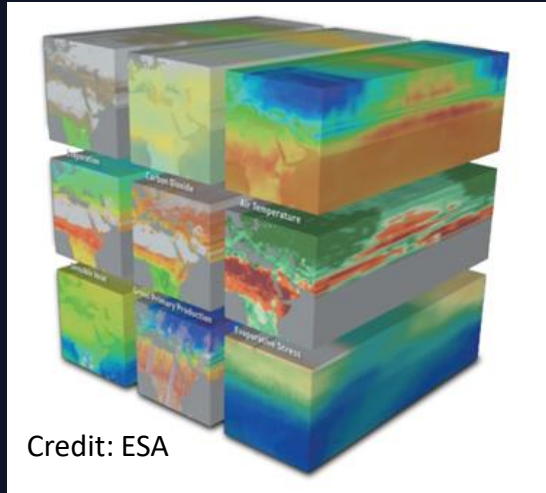
GeoVille

NOVEL HIGH PERFORMANT ACCESS TO CLIMATE AND EARTH OBSERVATION DATA

Enhanced Streaming technology from OTT Streaming (e.g., VOD Service Providers, Broadcasters) – extended and adapted for Earth Observation and Climate data.

- **Proven** high compressions with best quality – reducing costs, enabling more insights
- **Fast** access to huge datasets, locally in the platform, for non-experts and experts
- **Full timeseries** and **analysis-ready data-cubes** in seconds for enhanced analysis

Compression in 3D

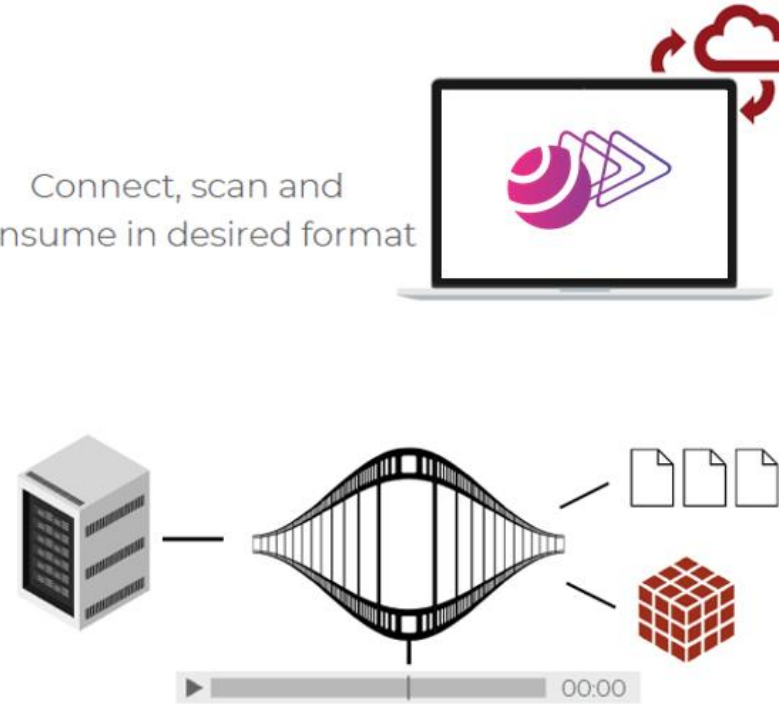


Transformation
into Bitstream
representation



NEW APPROACH

Connect, scan and
consume in desired format



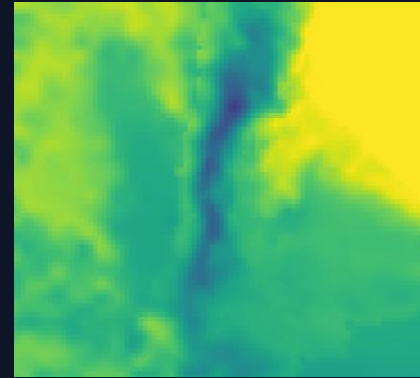
Enhancing data
analysis
capacities in the
DestinE Platform

✓ **ready for domain applications:** earth observation, climate change, situational awareness, defense and security data

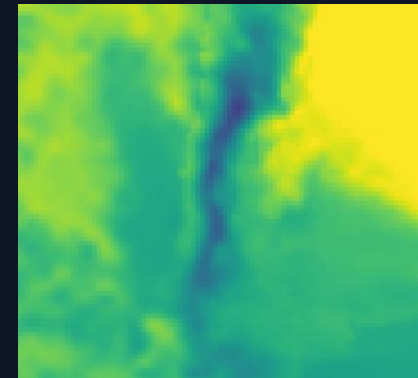
THE IMPACT

Zoom in
ERA5 Dataset
long-wave radiation flux

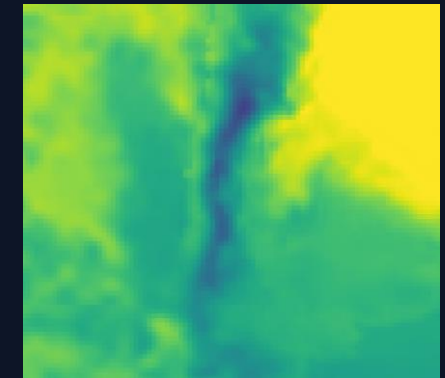
Original compressed
size



Original



Average SSIM 0.9096
Ratio: 33.82

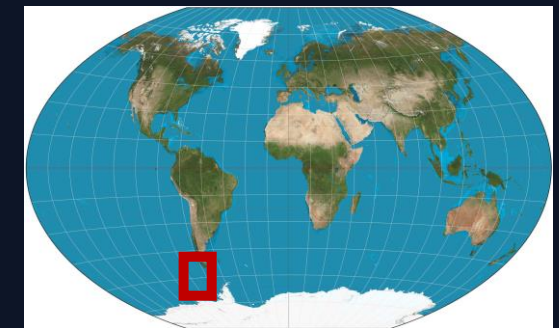


Average SSIM 0.88
Ratio: 44.64



DestinEStreamer

Reduction in size of a
factor of ~10 to ~30
leads to quality
differences in values
< 0.1%

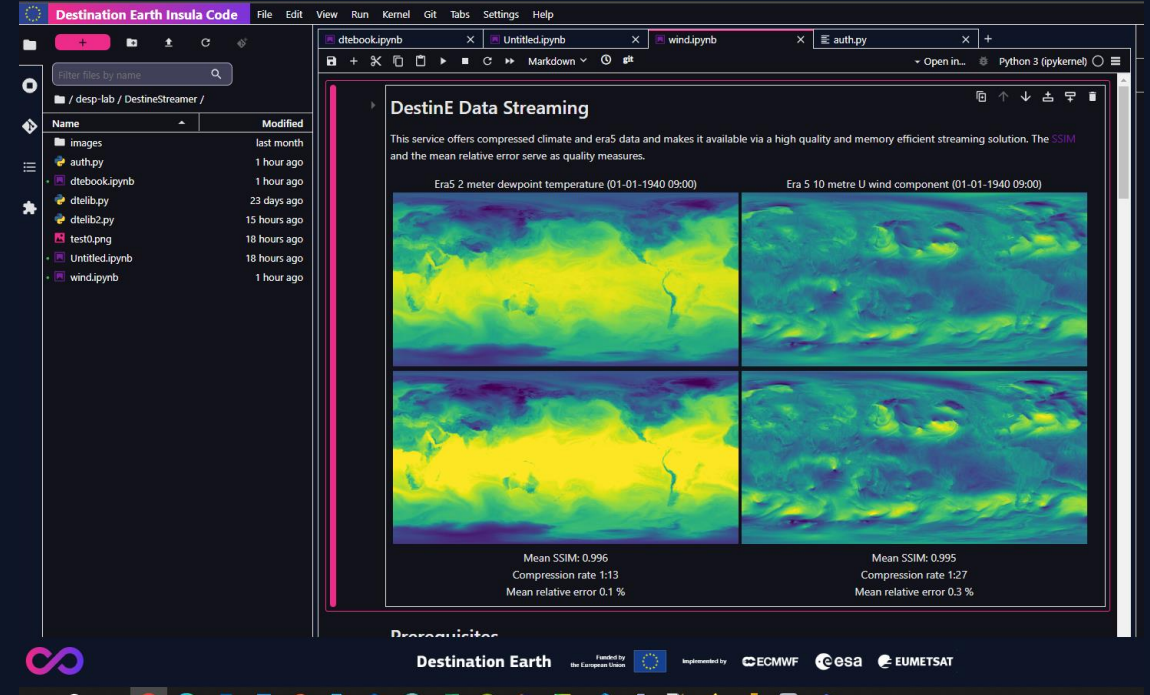


ACCESSING DESTINE STREAMER

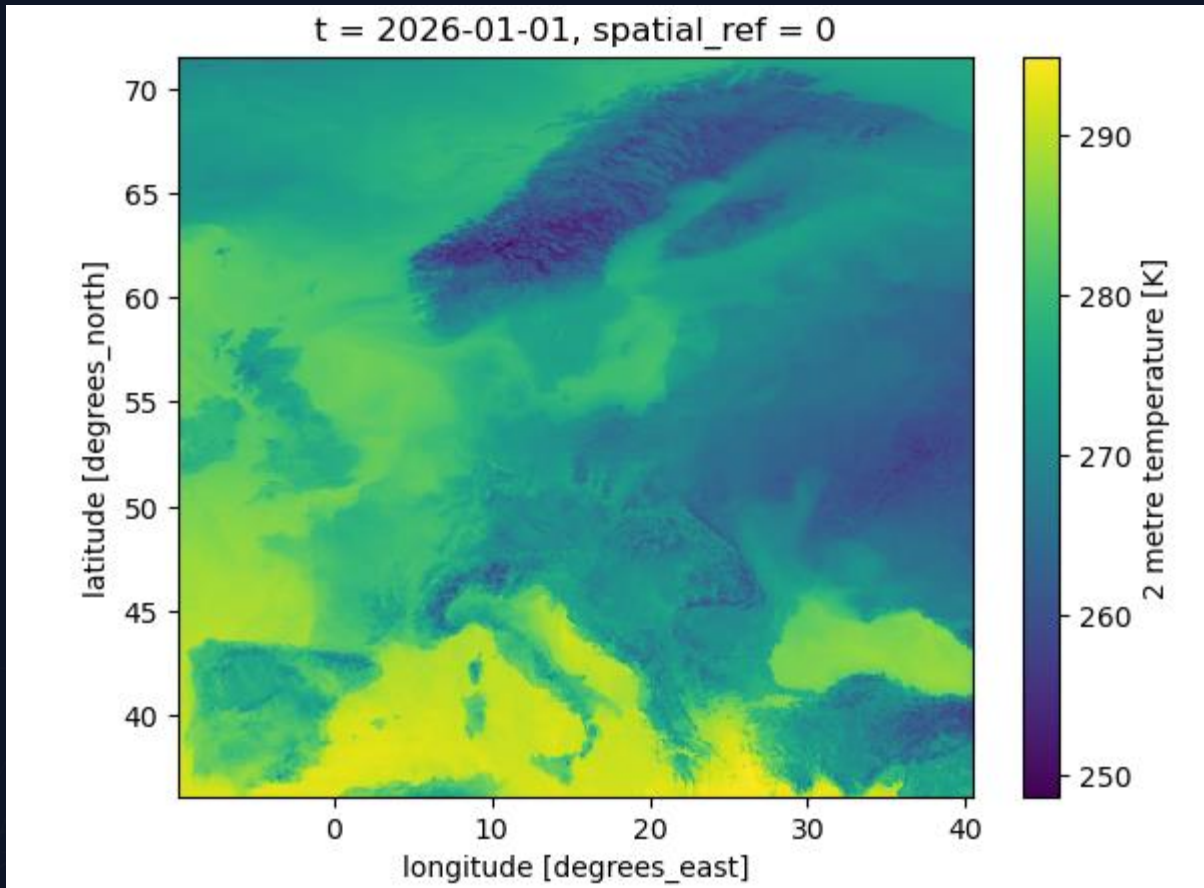
FASTSCANNER FOR FIRST GLANCE AT THE DATA



Destination Earth

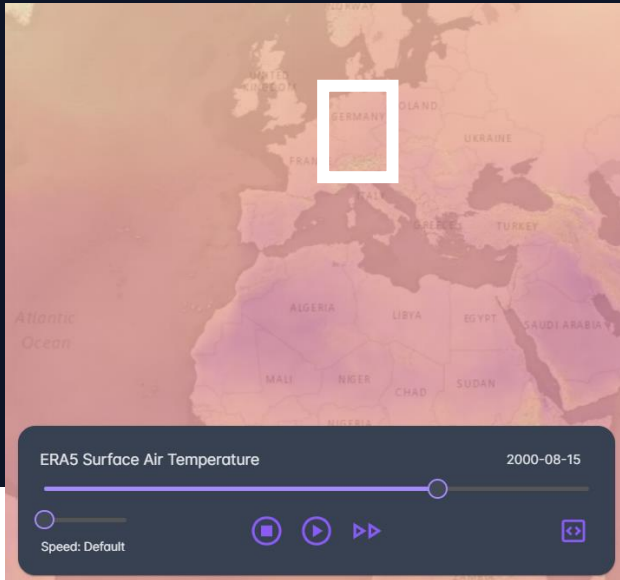


The DestinEStreamer Python module allows users to access DestinE data streams in the Destine Platform Platform in the JupyterLab Insula.



Tutorial Example 1

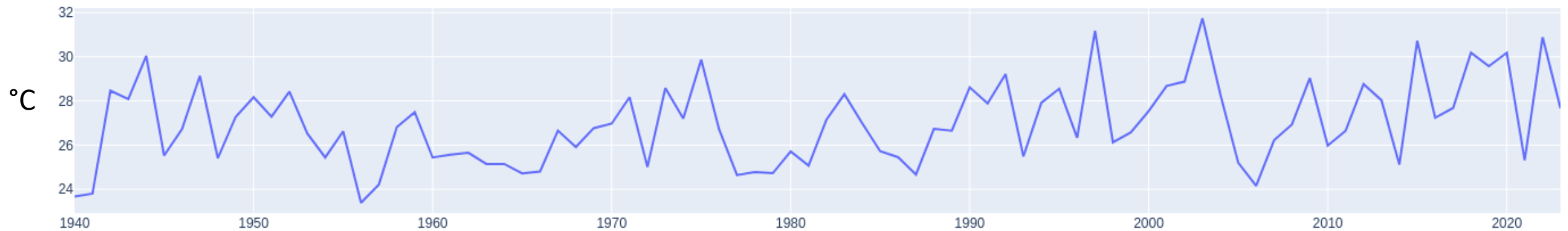
How to access a point in space and time from a datastream and to plot the result georeferenced.



Tutorial Example 2

How to plot a timeseries, like a average temperature over a region, over time.

Example average temperature from 1940 to 2023 over Germany in August (at 12 a.m.) Source ERA 5 [2t]





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<https://app.sli.do/event/emgz48pQrhy7qyx5YWz2ho>



Onboarding

Become a DestinE
Platform service provider

Join our partner network.

Drive innovation and boost your visibility.

serco

 DestinE Platform

01 REQUEST

DIRECTLY ON THE PLATFORM, FILLING A DEDICATED FORM

- Provide all information and documentation about the service
- Acceptance T&Cs and Code of Conduct
- Compliance with security requirements

02 EVALUATION

GOVERNANCE BOARD SELECTS SERVICES BASED ON DEFINED CRITERION

- Alignment with DestinE objectives
- Innovation, market need
- Long-term sustainability

03 INTEGRATION

SELECTION AND IMPLEMENTATION OF INTEGRATION SCENARIO

- Integration with IAM
- Deployment solution
- Optional integrations



PUBLICATION ON SERVICE REGISTRY

SUPPORT BY DESTINE PLATFORM ONBOARDING TEAM

platform.destine.eu/onboarding



01

Compliance acknowledgement

- Acceptance of Platform T&Cs and Code of Conduct
- Security requirements

02

Service Description & Resources

- Provide Service description
- Provide Service documentation
- Provide required information

03

Communication setup

- Define operational Point of Contact for operation and integration activities
- DestinE Platform Service Desk

SERVICE ONBOARDING REQUEST

PLATFORM.DESTINE.EU/ONBOARDING

1

username:

elisabetta

2

Technical Contact point name: *

Name

Technical Contact point email: *

Email

Administrative contact point name: *

Name

Administrative contact point email: *

Email

3

Next

SERVICE ONBOARDING REQUEST

PLATFORM.DESTINE.EU/ONBOARDING



Destination Earth

Service name: *

Service description: *

A description of the service primary purpose, highlighting its anticipated user scenario, benefits, features and technological components.

Service documentation (if available max 5MB):

No file chosen

Service demonstration:

Attachment

No file chosen

Specify which users typology is targeted by your service: *

ie. policy-makers, scientists, developers, etc.

Provide an example of the foreseen usage of your service, and how it would benefit the DestinE community *

Demonstrate alignment with Destination Earth objectives *

SERVICE ONBOARDING REQUEST

PLATFORM.DESTINE.EU/ONBOARDING

Has the service been selected as part of Destination Earth competitions? *

Yes

Access Policy: *

Public access

Registration Method (Identity and Access Management): *

DestinE Platform IAM

Interface Type:

GUI API Other

DestinE Usage Profile: *

A free version of the service will be provided

DATASET(S) USED (FOR EACH DATASET PLEASE SPECIFY):

DestinE data

Earth Observation data

In-situ data

Socio-economic data

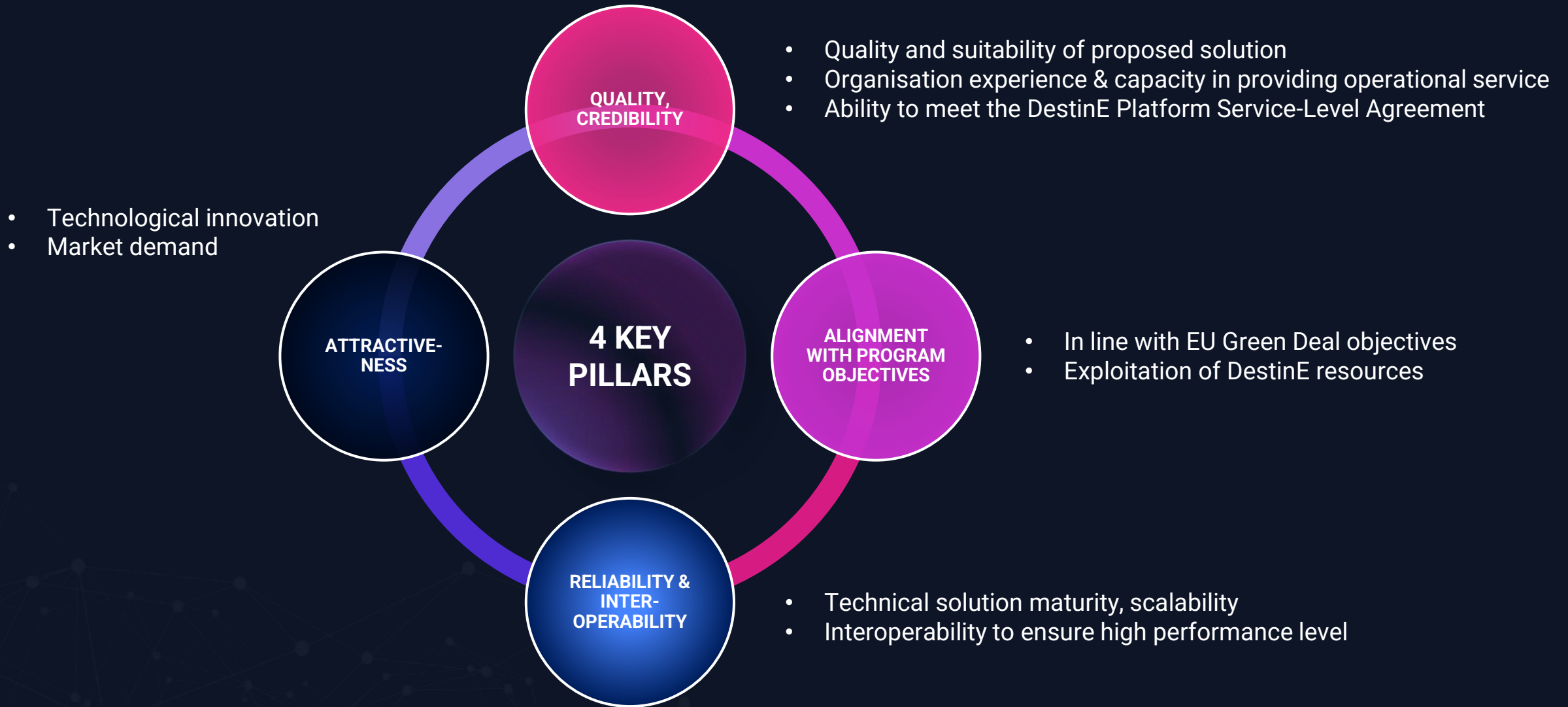
Other type

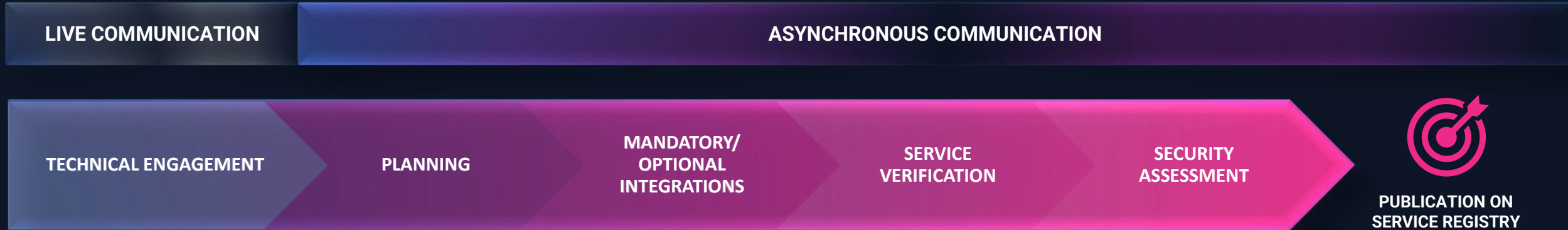
By creating a DestinE Platform account, the requestor has already accepted the following documents:

[DestinE Platform Privacy Policy](#)

[DestinE Platform Code of Conduct](#)

[DestinE Platform Terms & Conditions](#)





Starter Kit

Jira setup

JIRA Kanban Board:

- Dedicated JIRA Project (named DOSI)
- Integration Tasks created by Serco
- Tasks assigned to technical contact point
- Users can update tasks statuses / insert comments / attach files
- Notifications sent for any action
- JIRA Epic for each new Service
- Unique Board (filter possible via Epic)

Regularly review the tasks board for insights/feedback provisioning

Email communication channel for questions/requests



<input checked="" type="checkbox"/>	DOSI-8 [SERVICE_NAME] IAM Service Integration	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-9 [SERVICE_NAME] Service Registry Integration	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-10 [SERVICE_NAME] Web Portal Integration - Documen...	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-11 [SERVICE_NAME] Service Desk Integration	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-12 [SERVICE_NAME] Infrastructure selection and Integr...	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-13 [SERVICE_NAME] Service Verification	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-14 [SERVICE_NAME] Service Security assessment	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-15 [SERVICE_NAME] On-Boarding Plan	SERVICE-NAME	TO DO ▾
<input checked="" type="checkbox"/>	DOSI-70 [SERVICE_NAME] IAM Service Federation	SERVICE-NAME	TO DO ▾

Tasks List example



openicrus Your work ▾ Projects ▾ Filters ▾ Dashboards ▾ Teams ▾ Assets Apps ▾ Create

DESP On-Boarding Servi... Software project

Projects / DESP On-Boarding Ser... / DOSI-1 / DOSI-9

[SERVICE_NAME] Service Registry Integration

Attach Link issue Create

Description
Service Registry is a system dedicated to store and managing all the existing Services exploitable within DESP Platform; it can be used to discover available Services. The integration is achieved filling a survey.

✓ This Task aims to provide a complete survey containing useful details to enable the Service being visible and searchable in the Service Registry.

Useful info (attached)

- DEST-SRCO-FM-2400446 - DESP Onboarding Survey.pdf, fill the survey to collect information to be inserted in the Service Registry.

Environment
None

Attachments 1

VICE Survey: [Thumbnail of survey document]

DEST-SRCO-FM-..._vey.pdf
14 Mar 2024, 12:30 PM

SB Add a comment...
Pro tip: press **M** to comment

To Do ▾ Actions ▾

Details

Assignee: SB Seia Bucci
Reporter: SB Seia Bucci
Development: [Create branch](#), [Create commit](#)
Labels: None
Start date: None
Epic Link: Replaced by Parent field
Priority: Medium
Parent: DOSI-1 SERVICE-NAME
Exalate: Open Exalate

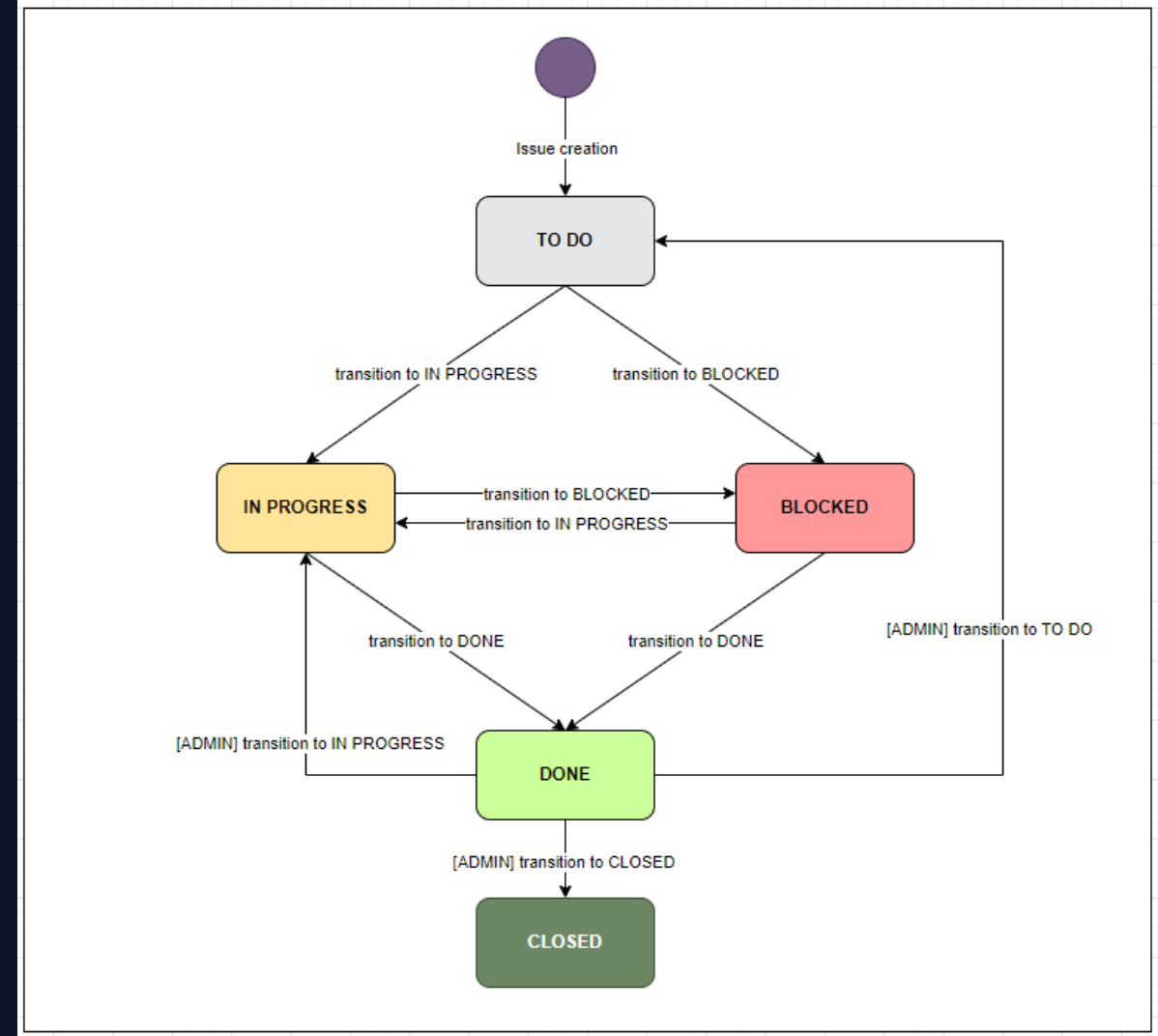
More fields

Original estimate: 0m
Time tracking: No time logged
Sprint: None
Due date: None

- Actions allowed on Tasks for DOSI Project Users:
- View
 - Watch
 - Comment
 - Delete own comments
 - Transition (Status update)
 - Attach files
 - Delete own attachments

- Available Statuses
- **TO DO:** Indicates tasks that are planned but not yet started.
 - **IN PROGRESS:** Signifies that work is actively being undertaken.
 - **BLOCKED:** Designates tasks that cannot proceed due to some impediment or dependency.
 - **DONE:** Tasks have completed all necessary steps in the integration process and are considered finished or resolved.
 - **CLOSED:** Tasks have been reviewed and no additional actions are needed.

JIRA DOSI Tasks Statuses Workflow





Join at
slido.com
#TrainingSession



<https://app.sli.do/event/emgz48pQrhy7qyx5YWz2ho>

DestinE Platform

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Destination Earth

Funded by
the European Union



Implemented by

