

DestinE Platform

ONBOARD THE PLATFORM

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Serco





01

SECURITY, PRIVACY

- Based on a European Cloud infrastructure, ensuring compliance with EU regulations
- Embedded security features and dedicated cybersecurity requirements

02

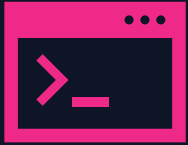
SCALABILITY & FLEXIBILITY

- Scale resources up or down automatically based on demand for cost-efficiency and sustainability
- Handle increased user demand by distributing workloads and automatically provisioning additional computing power

03

BUILD AN OPEN ECOSYSTEM

- Open-source and EU technologies & initiatives
- Seamless Service Providers onboarding for efficient uptake and increased attractiveness
- Public evolution roadmap & user community involvement



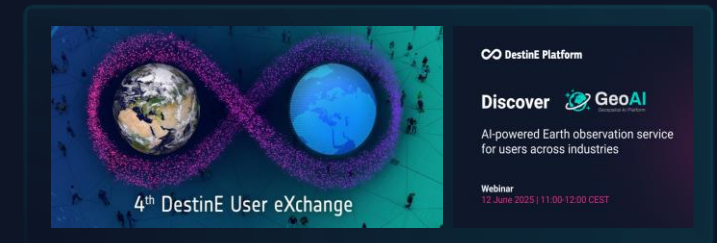
SERVICE PROVIDERS

- Attract innovative services, leveraging DestinE data & resources
- Stimulate the ecosystem (industry, research, etc.) and facilitate onboarding
- Organization of open calls, Invitation to Tenders, challenges



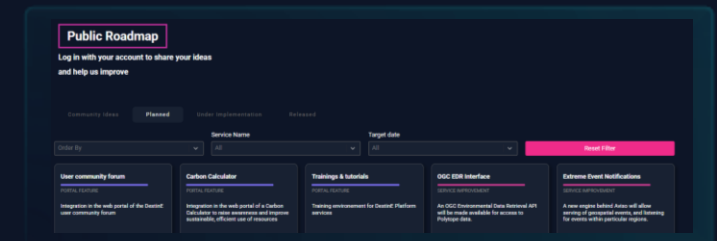
USER UPTAKE

- Support the user uptake through dedicated initiatives, workshops & events
- Gather feedback and evolve the system according to user needs



BRIDGE THE GAP

- Co-design services based on user needs/requirements
- Connect User Needs to Service Providers capabilities



PLATFORM MANAGEMENT SERVICES



Identity Access management

- Access authorization
- User admin, federation



Data management

- Data privacy
- GDPR Compliance



Orchestration platform

- Resource scalability
- Embedded security features



Monitoring dashboard

- Manage resources
- Track performance



Onboarding

- Documentation & resources
- Dedicated support



User support

- Service Desk
- Support, FAQ, Forum

DATA MANAGEMENT SERVICES



Data access

- Access to DestinE data
- Open standards/APIs



Development environment

- Ready-to-use coding environments
- Customized notebooks



Data processing

- Advanced processing via UI/API
- Batch & real-time processing chains



Visualization

- 2D/3D/4D data visualization
- Collaborative & export features



Data streaming

- Real-time interaction with data
- Advanced compression



Digital Twin toolbox

- Build & share DT Components
- Collaborative workflows

ADVANCED SERVICES

Interactive
Training
Environment

Collaborative
services

DestinE Forum

Ground stability
& deformation

Urban quality
of life

Crop
monitoring

Water quality
monitoring

Land
temperature
monitoring

Mosquito
disease alerts

EO data
compression

Locust outbreak
alerts

Sustainable
mobility

ONBOARDED SERVICES

Enabling
services

End-user
services

Local Digital
Twins

EUROPEAN CLOUD INFRASTRUCTURE



UNIQUE ACCESS TO UNPRECEDENTED DATA

- Seamless access to **Destination Earth Data** through API (format e.g. STAC xarray, zarr)
- Access to all **federated data** (ERA5, CDSE, Landsat, Eurostat)



FLEXIBILITY

- Leverage ready-to-use operational services and resources (free tier)
- Co-design tailored service
- Build your own service



RELIABILITY & AVAILABILITY

- **Operational system:** strong operational requirements and performance
- Service-Level Agreement with all Service Providers



FOCUS ON

USER JOURNEY



REGISTRATION

- Create user profile
- Provide requested information
- Accept platform policies (T&Cs, Privacy)
- Verify your email

REGISTERED USER ACCESS

- ✓ Selected Services

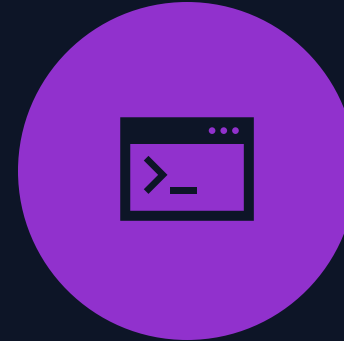


UPGRADED ACCESS

- Request access
- Provide requested information
- Accept dedicated T&Cs
- Application is reviewed

UPGRADED USER ACCESS

- ✓ Selected Services
- ✓ DestinE Data Services



SERVICES DISCOVERY

- Access service catalog
 - Discover DestinE applications
 - Access DestinE data on the edge
 - Identify relevant services
- Provide feedback
 - Impact public roadmap

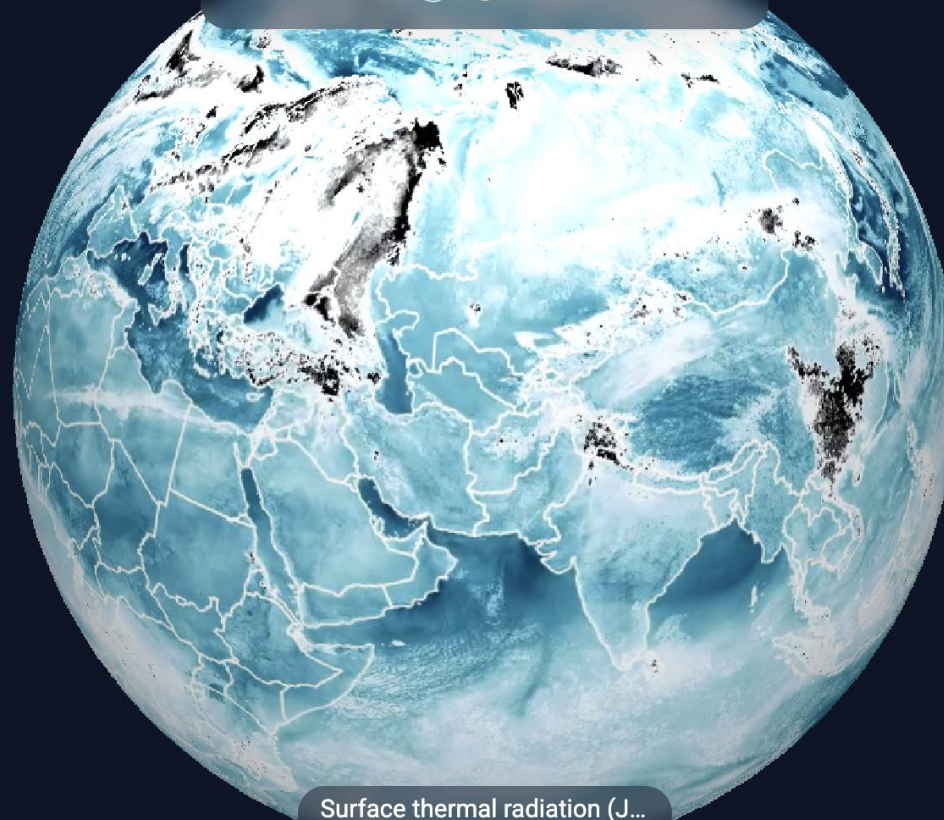


SUPPORT

- FAQ
- Service Documentation
- Service Desk
 - Technical issues
 - Account-related queries
 - Service-specific support
 - Security aspects

1 month of DestinE Climate DT (2026)

JAN FEB



Surface thermal radiation (J...

-500000

-25000

Powered by dea

2.989

Users

23

Services already available

Discover

Data available from

2

DestinE Digital Twins

Explore



DestinE Platform

Your gateway to a sustainable future

A unique ecosystem of services
harnessing the power of
Destination Earth.



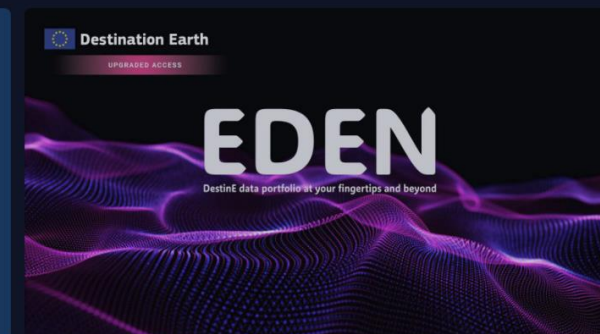
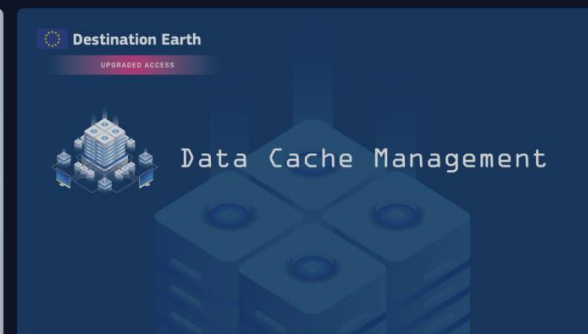
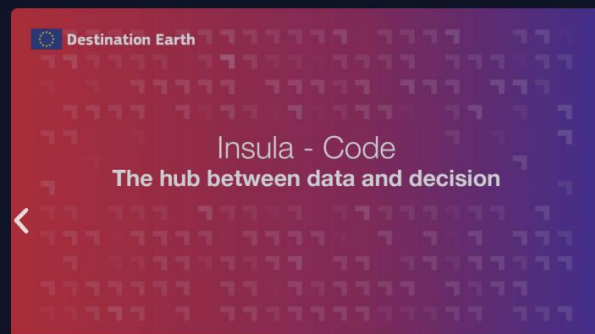
Destination Earth

Funded by
the European Union

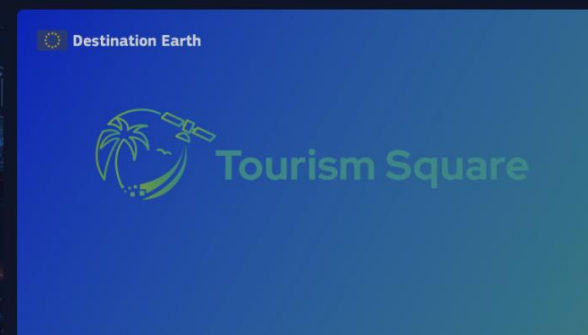
Implemented by



🔍 Access and exploit data



Discover DestinE applications



Access DestinE data on the edge



Insula - Code

The hub between data and decision

Insula Code

USER WORKFLOW

[2D Graphics](#)
[Analytics](#)
[API](#)
[Catalogue](#)
[Data Cube](#)
[Data Lake](#)
[Decision-Making](#)
[Digital Twins](#)
[Earth Observation](#)

[Harmonized Data Access](#)
[IDE](#)
[Julia](#)
[Jupyter Notebook](#)
[Plots](#)
[Processing](#)
[Python](#)
[R](#)
[S3](#)
[Workflows](#)
[zarr](#)
[CLI](#)

Insula, the Hub between Data and Decisions. Effortlessly process complex information and generate clear visualizations, transforming raw numbers into insightful maps and graphs.

Website: [Insula Code](#)
 Operated By: [CGI](#)



[Documentation](#)

[Go to service](#)

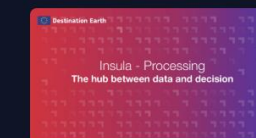
Other services that might interest you



STACK



SesamEO



Insula Processing



Destination Earth

Funded by the European Union



Implemented by



CONTENTS:

[Getting Started](#)
[Insula](#)
[Insula Code Lab](#)
[FAQs](#)
[Known Issues](#)

Insula Documentation

With its powerful big data analytics capabilities, Insula allows users to perform complex analyses on this integrated and harmonized dataset. This includes trend analysis, anomaly detection, predictive modeling, and much more, providing users with deep insights into Earth-related phenomena.

Insula is designed for everyone, regardless of your background in Earth Observation. Thanks to its user-friendly interface it ensures a seamless user experience. Moreover at CGI we leverage cutting-edge technology to provide the most accurate and up-to-date information. You can tailor Insula to your specific needs, from selecting the data sources that matter most to creating customized reports and dashboards.

Insula excels in providing a comprehensive set of functionalities designed to maximize the value of EO data:

- **Combine Data and Services for Information Generation:** Insula seamlessly combines data and services to transform raw information into actionable insights, empowering informed decision-making. Its standard interface enables to integrate new dataset driven by user needs.
- **Integrate New Services:** Insula's adaptable platform allows users to effortlessly integrate new services, ensuring access to cutting-edge technologies without constraints.
- **Run processing campaigns with autoscaling:** Insula's autoscaling feature optimizes large-scale processing for efficiency and cost-effectiveness.
- **Monitor Processing Execution:** Insula's robust monitoring system offers real-time oversight, enabling users to track progress, identify issues, and make quick adjustments for enhanced efficiency and accuracy.

The following pages provide a guidance to the Insula's services and capabilities.

You may also find it useful to refer to:

- The list of [FAQs](#).
- The list of [Known Issues](#).

If none of these pages answer your question, then please contact us at <https://platform.destine.eu/support>.

Contents:

- [Getting Started](#)
 - [Accessing Insula](#)

Insula - Code

The hub between data and decision

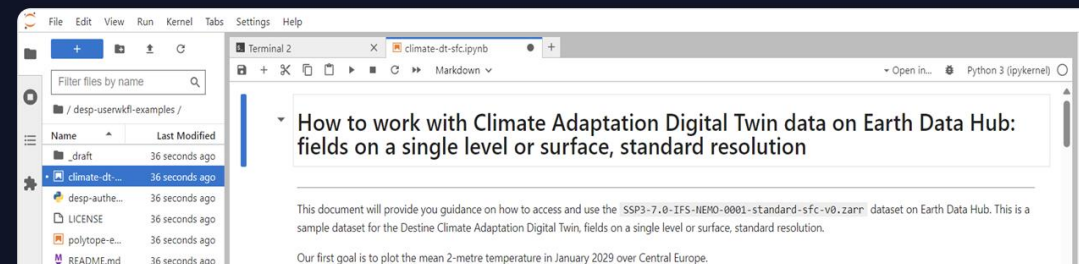
Insula Code

USER WORKFLOW

2D Graphics Analytics API Catalogue Data Cube Data Lake Decision-Making Digital Twins Earth Observation
Harmonized Data Access IDE Julia Jupyter Notebook Plots Processing Python R S3 Workflows zarr CLI

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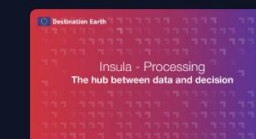
Other services that might interest you



STACK



SesamEO



Insula Processing



Destination Earth

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/

Name

- datalake-lab
- datalake-lab-insula
- lost+found
- platform-lab
- polytope-lab
- Untitled Folder

Launcher

Notebook

Python 3 (ipykernel)

Julia 1.10.5

Pluto Notebook

Polytope

R

Console

Python 3 (ipykernel)

Julia 1.10.5

Polytope

R

Other

Terminal

Text File

Markdown File

Julia File

Python File

R File

Show Contextual Help

FOCUS ON
ROADMAP



Tenancy

- Brings organizations to DestinE Platform
- Collaboration environment
- Advanced features & dedicated quotas



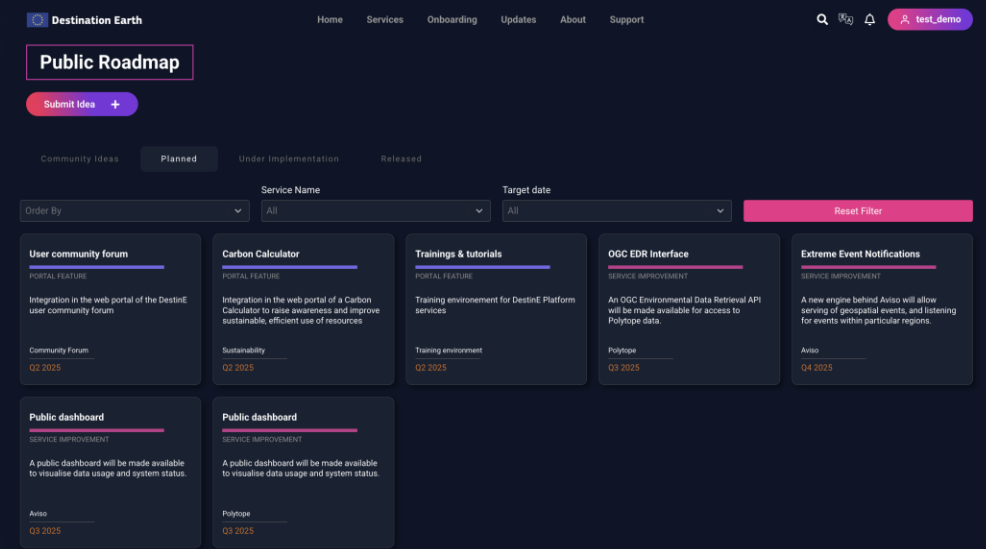
Learning Hub

- Tailored content: tutorials, webinars, trainings
- Demonstrators showcasing DestinE capabilities



Carbon calculator

- Increase awareness on Digital Responsibility
- Share best practices





FOCUS ON

ONBOARDING

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 EVALUATES SERVICES BASED ON DEFINED CRITERION

- Alignment with DestinE
- 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

Service Description & Resources

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

02

Communication setup

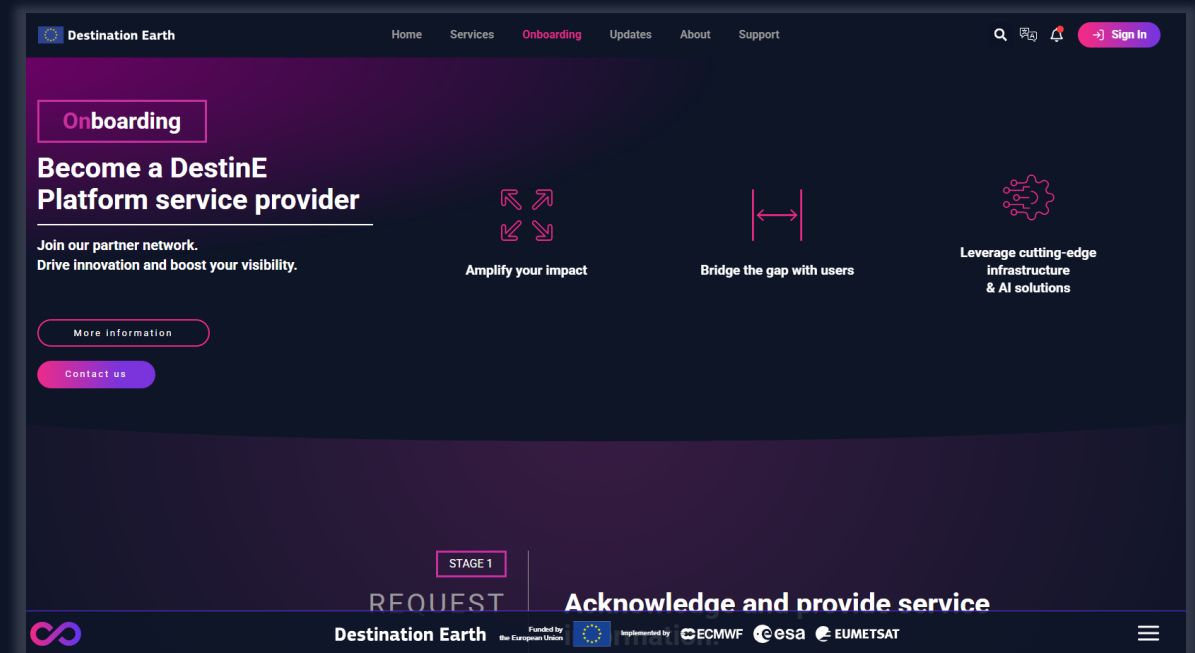
- Define operational Point of Contact for operation & integration activities
- DestinE Platform Service Desk

03

Compliance acknowledgement

- Acceptance of Platform T&Cs
- Code of Conduct
- Security requirements (privacy policy)

platform.destine.eu/onboarding



SERVICE ONBOARDING REQUEST

PLATFORM.DESTINE.EU/ONBOARDING



Destination Earth

1

2

3

username:

elisabetta

Technical Contact point name: *

Name

Technical Contact point email: *

Email

Administrative contact point name: *

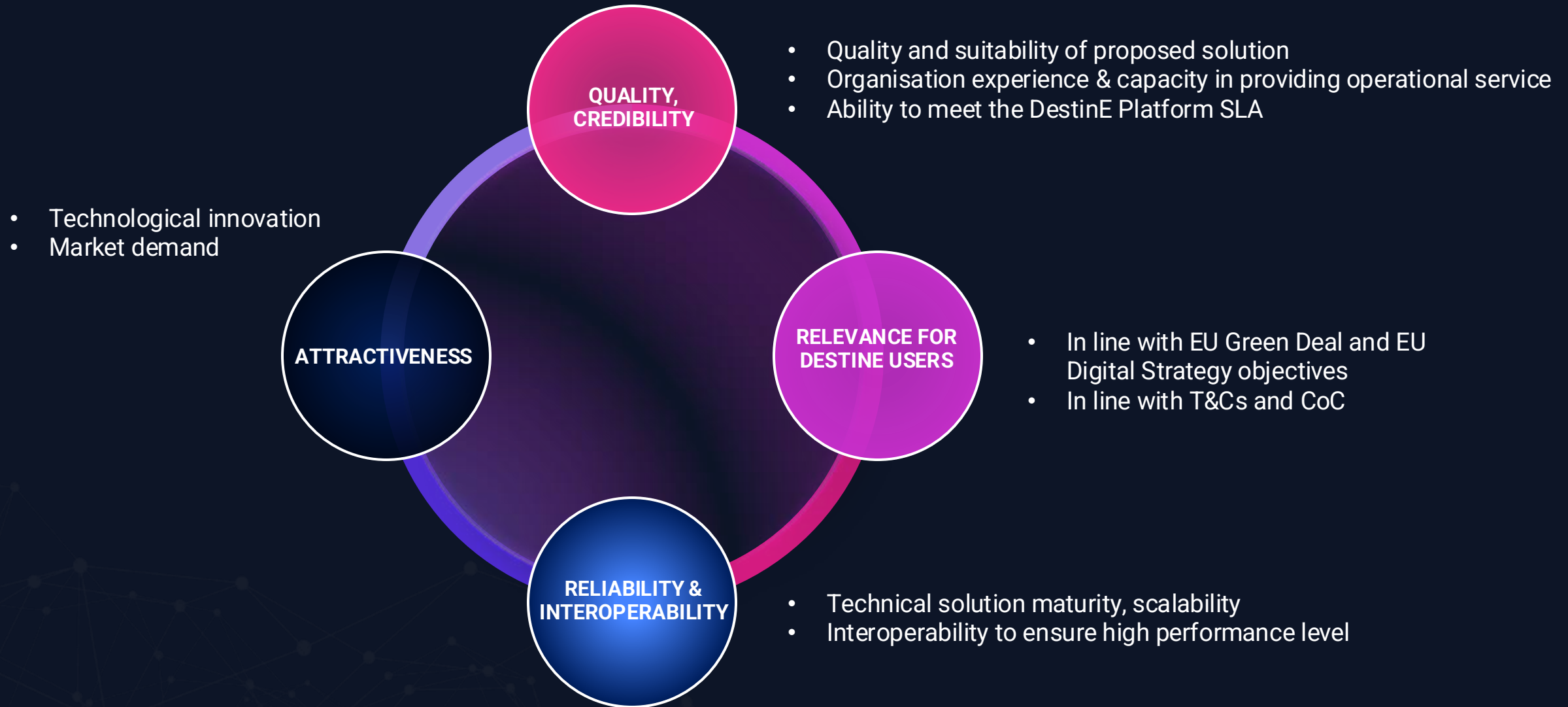
Name

Administrative contact point email: *

Email

Next

The applicant must be registered on the platform and logged in



LIVE COMMUNICATION

ASYNCHRONOUS COMMUNICATION

TECHNICAL ENGAGEMENT

PLANNING

MANDATORY/
OPTIONAL
INTEGRATIONS

SERVICE
VERIFICATION

SECURITY
ASSESSMENT



PUBLICATION ON
SERVICE REGISTRY

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

TAILORED INTEGRATION

MAIN CHOICES



Destination Earth



Identity Access management

Integration with DestinE Platform IAM

Federation



Service Registry

Integration with DestinE Platform service registry



Deployment

Integration on Runtime Platform

Usage OVH tenant DESP

Your own infrastructure / EU cloud provider



Data Management Services

Data Cache

Data access

Data Processing

Workflow orchestration

Visualization



Additional integrations

Monitoring System

Tenancy





FOCUS ON

RUNTIME PLATFORM



Embedded Security

- Secure Architecture
- DevSecOps pipeline to undergo automated Security Checks



High-Availability

- Microservices orchestration to build flexible and modular Applications
- Kubernetes management of multiple replicas to boost availability



Resource optimization

- Node scalability allows to consume only what is needed
- Non-operational platforms leverage shared resources



Infrastructure operations

- Centralized infrastructural management and monitoring
- Backup and Recovery management

FOCUS ON

DEVSECOPS PIPELINE



Destination Earth

RUNTIME PLATFORM



Four environments to run security checks, integration and E2E tests and finally move to Operations