DestinE Platform



DESTINE PLATFORM ONBOARDING

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Destination Earth Funded by the European Union Implemented by ECMWF esa EUMETSAT

monitoring of the planet's health by focusing on climate change

what-now
what-next
what-if

Destination Earth

European Commission initiative that aims to develop a digital model of our planet

Digital Twins
EuroHPC JU
Simulations

prediction of man-made environmental damage

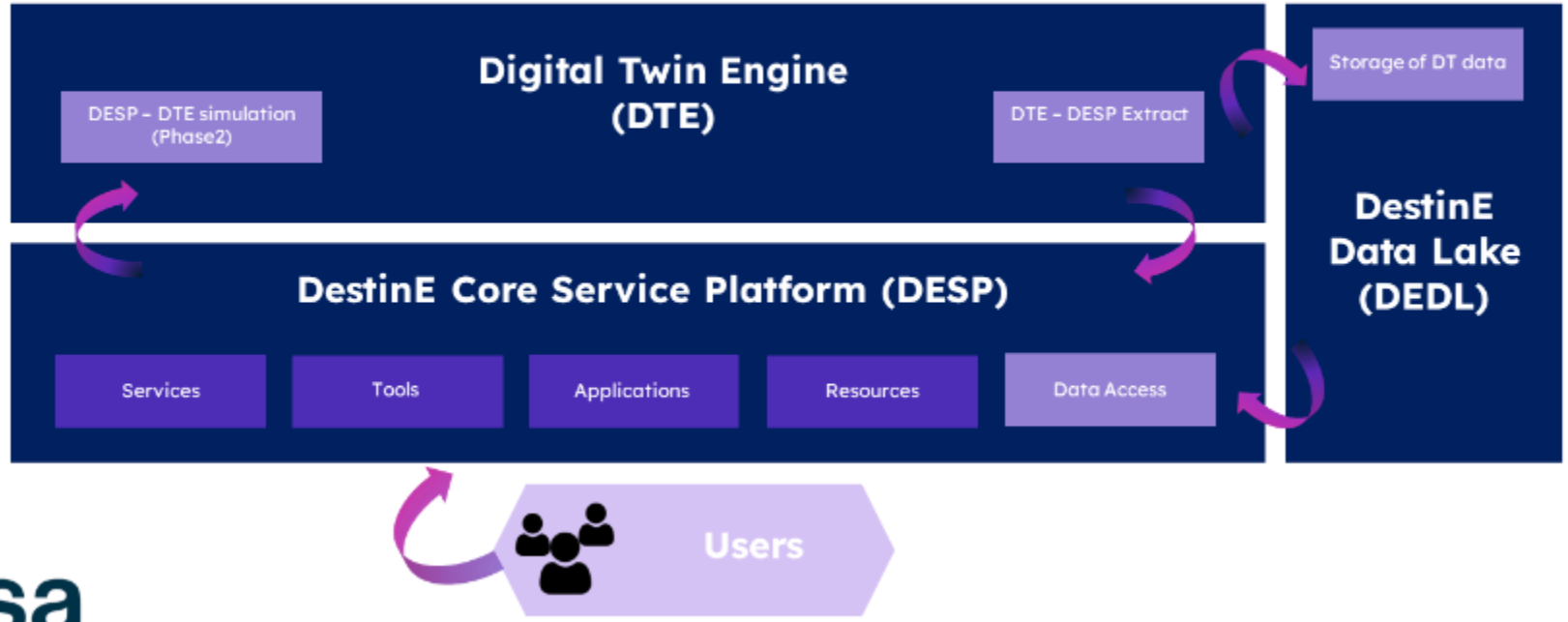
Anticipate extreme events & adapt policies to climate-related challenges

Destination Earth

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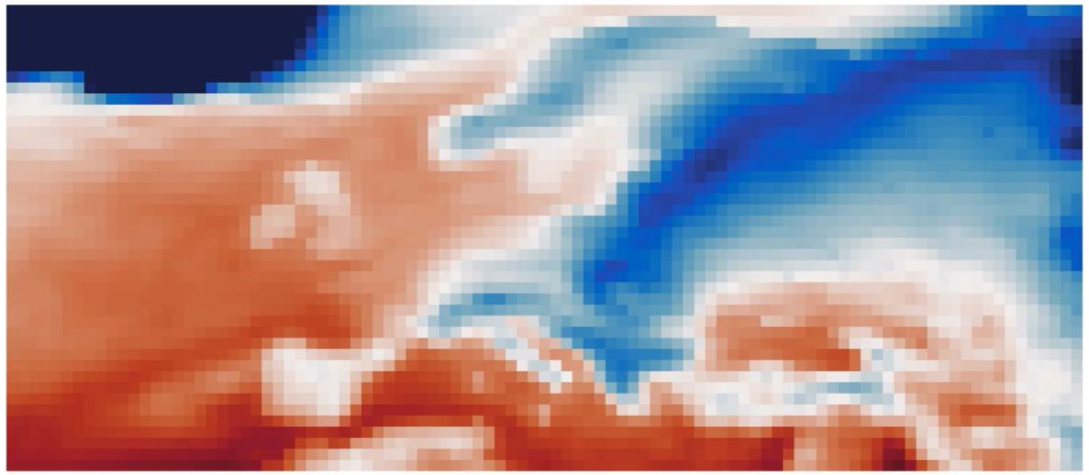
ECMWF



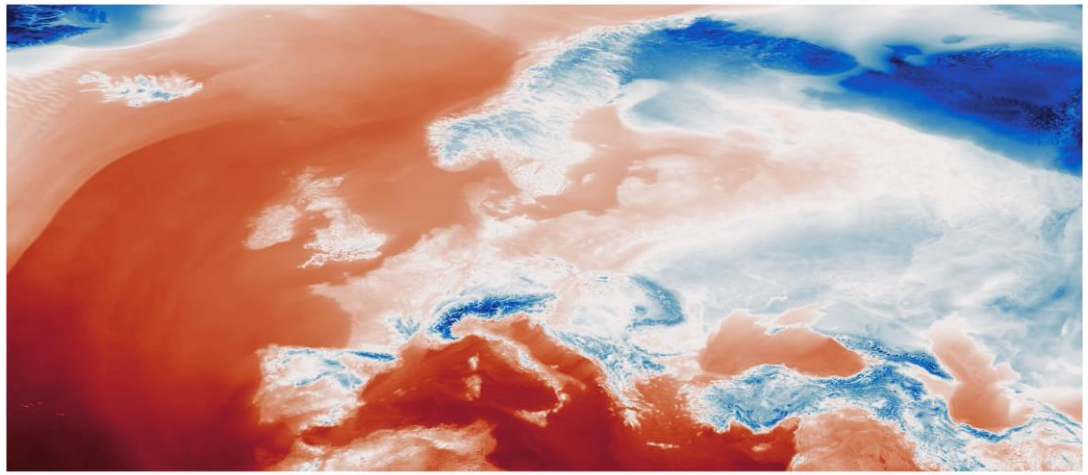
EUMETSAT

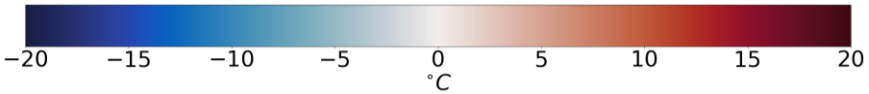
esa

IPCC AR6 (2021), 100km



DestinE Climate DT data, 5km





DestinE's Digital Twins, implemented by **ECMWF**,

generate global information at a km-scale

DESTINE PLATFORM OVERVIEW

Destination Earth

Platform Management services

Identity Access management
- Access authorization
- User admin, federation

Data management
- Data privacy
- GDPR Compliance

Orchestration platform
- Security capabilities
- Resource management

Monitoring dashboard
- Manage resources
- Track performance

Onboarding
- Streamlined process
- Dedicated support

User support
- Service Desk
- Support, FAQ, Forum

Data Management services

Visualization
- 2D/3D/4D data visualization
- Export feature

Data workflow
- Access to DestinE data
- Data Cache service

Development environment
- Ready-to-use environments
- AI notebooks

Processing environment
- Advanced processing via UI/API
- Build code & configuration via UI

Advanced services

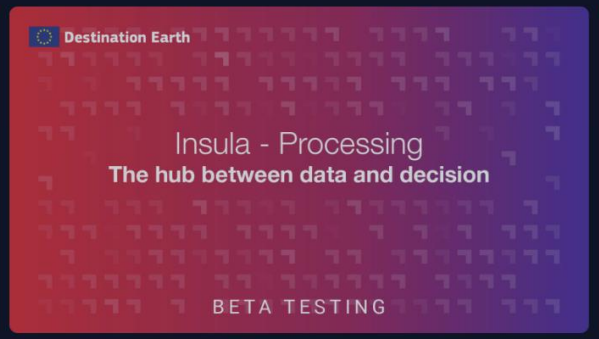
Sandbox	Collaborative services	Dashboard
e.g. Flood monitoring	e.g. Climate risks assessment	

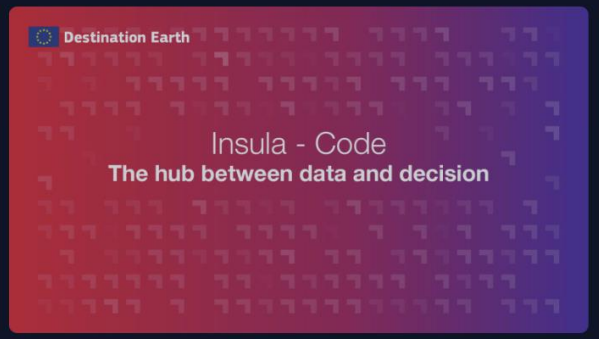
EUROPEAN CLOUD INFRASTRUCTURE

Access and exploit data









Discover DestinE applications







miniDEA
DATA VISUALISATION

Alia Space Systems | Interactivity | Climate | DestinE | Data Visualization



https://platform.destine.eu/services/service/minidea/

ONBOARDING
PROCESS

Destination Earth

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 objectives
- Innovation, market need
- Long-term sustainability

03 INTEGRATION

SUPPORT & 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

DestinE Platform

FOCUS ON
ONBOARDING REQUEST

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01

Service Description & Resources

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

02

Communication setup

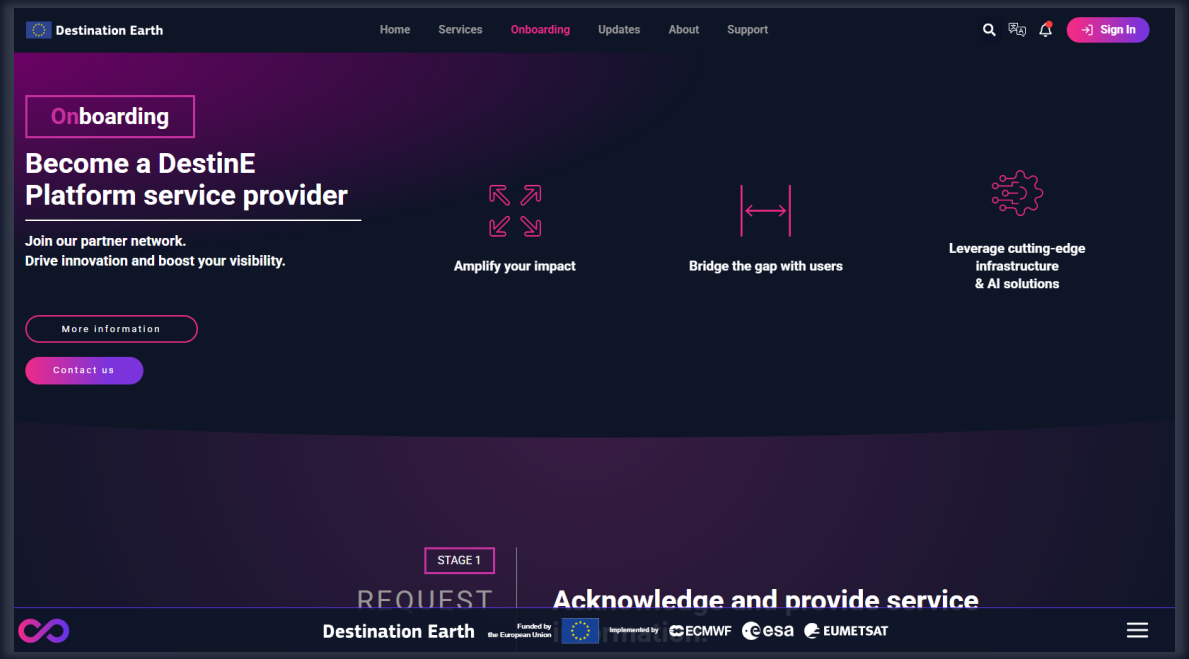
- Define operational Point of Contact for operation & integration activities
- DestinE Platform Service Desk

03

Compliance acknowledgement

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

https://platform.destine.eu/onboarding

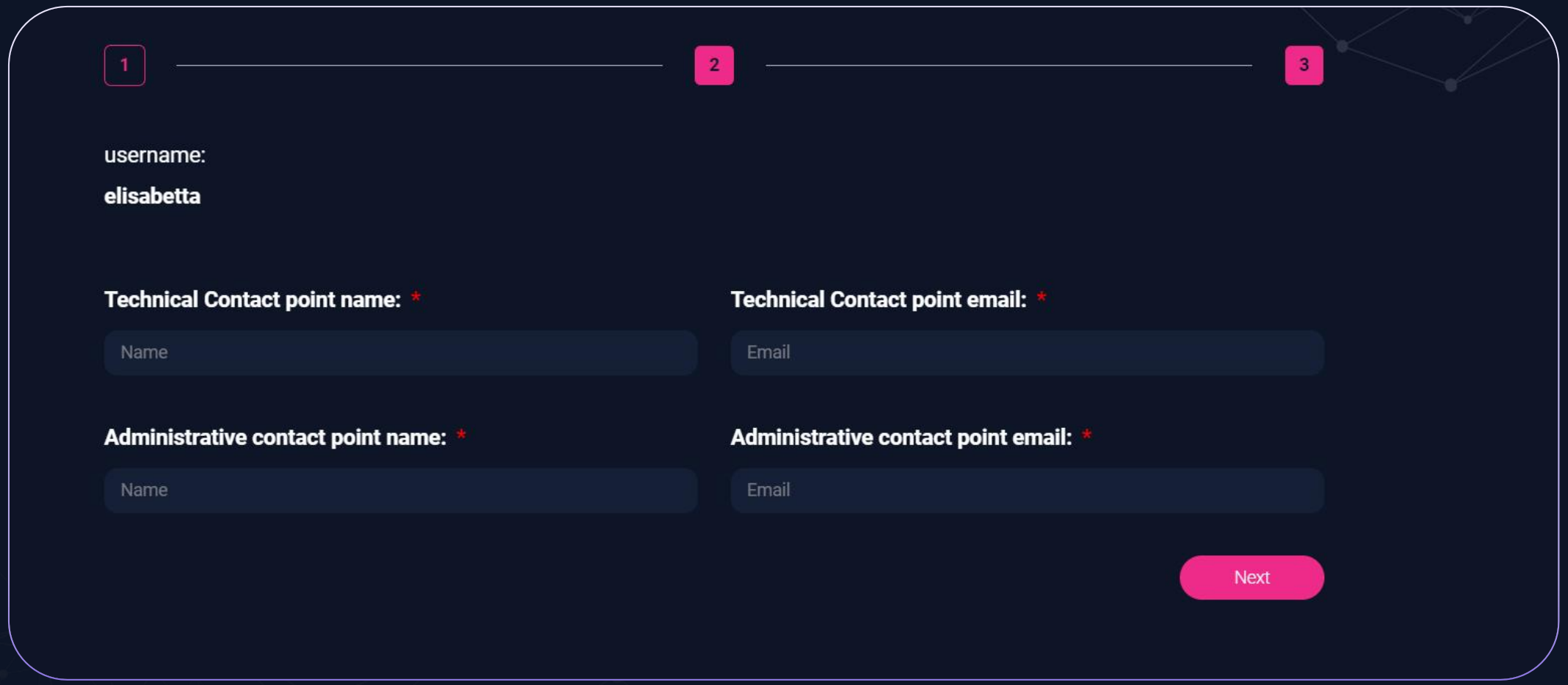


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SERVICE ONBOARDING REQUEST

PLATFORM.DESTINE.EU/ONBOARDING

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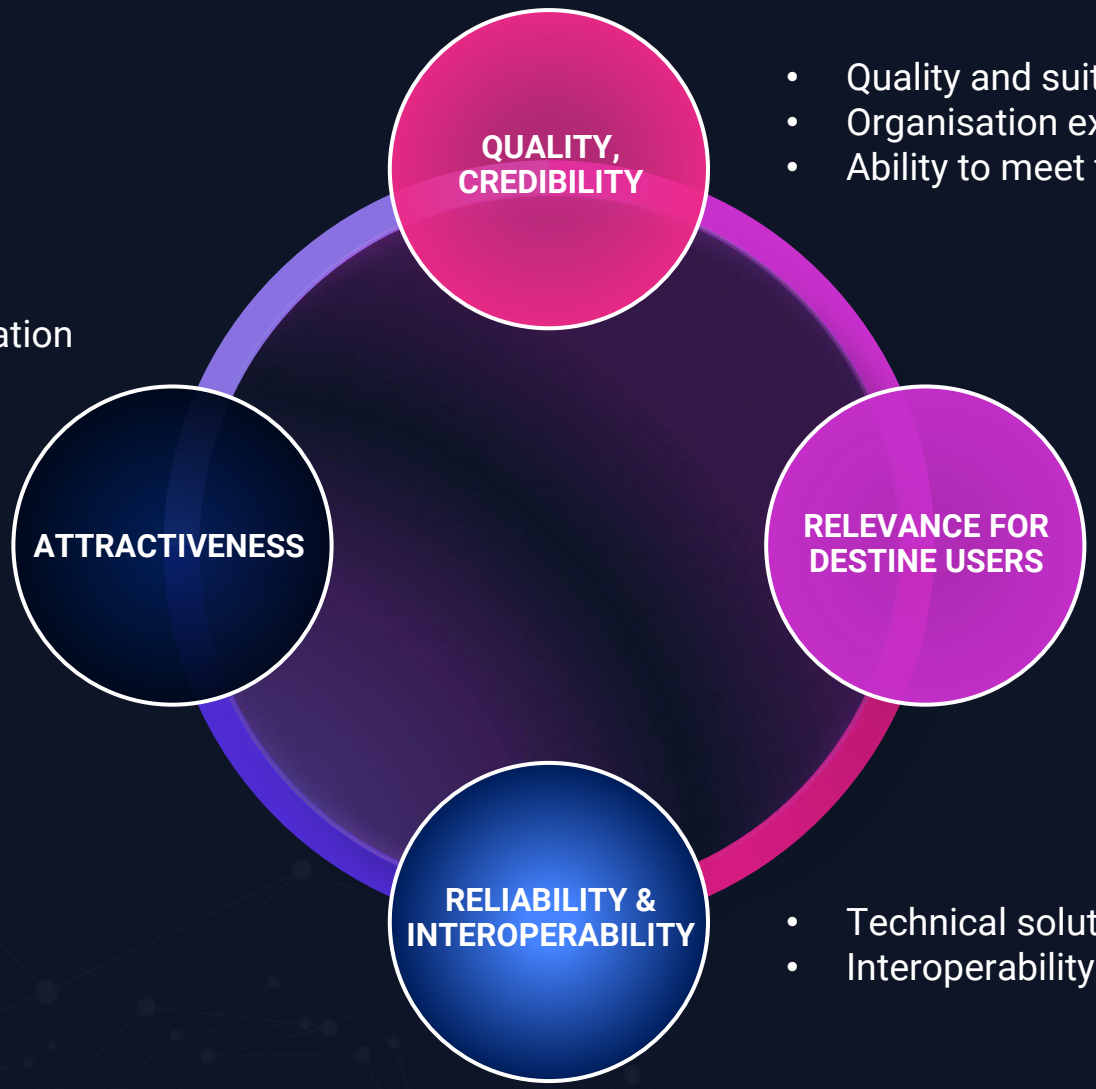


The applicant must be registered on the platform and logged in

SERVICE EVALUATION

MAIN CRITERION

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- Quality and suitability of proposed solution
- Organisation experience & capacity in providing operational service
- Ability to meet the DestinE Platform SLA

- In line with EU Green Deal and EU Digital Strategy objectives
- In line with T&Cs and CoC

- Technical solution maturity, scalability
- Interoperability to ensure high performance level

- Technological innovation
- Market demand

SERVICE INTEGRATION
OVERVIEW

Destination Earth

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 tentant DESP
- Your own infrastructure / cloud provider



Data Management Services

- Data Cache
- Data access
- Data Processing
- Workflow orchestration
- Visualization



Additional integrations

- Monitoring System
- Tenancy

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FOCUS ON
RUNTIME PLATFORM BENEFITS

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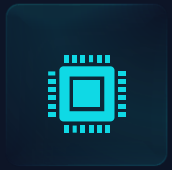
Embedded Security

- 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

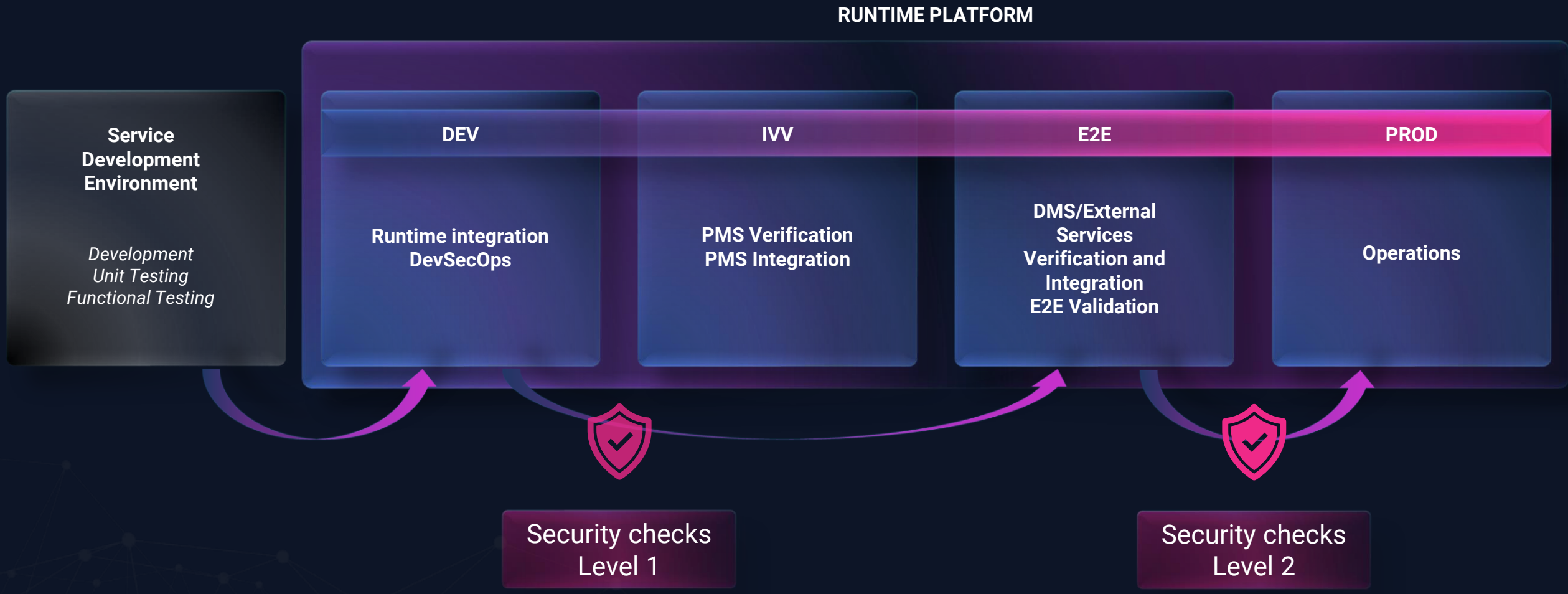


Infrastructure operations

- Centralised infrastructural management and monitoring
- Backup and Recovery management

FOCUS ON
DEVSECOPS PIPELINE

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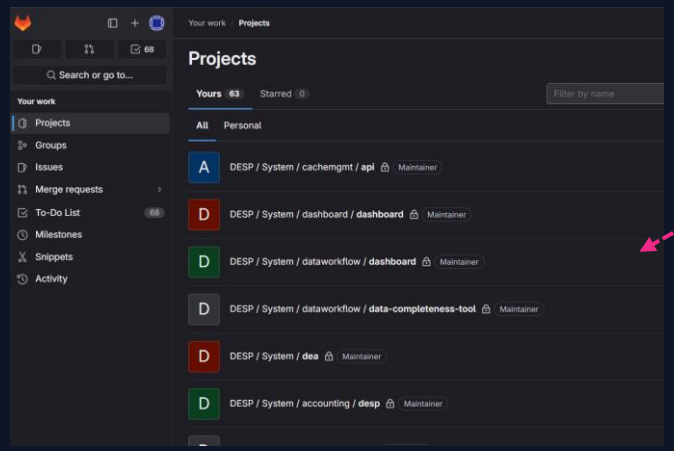


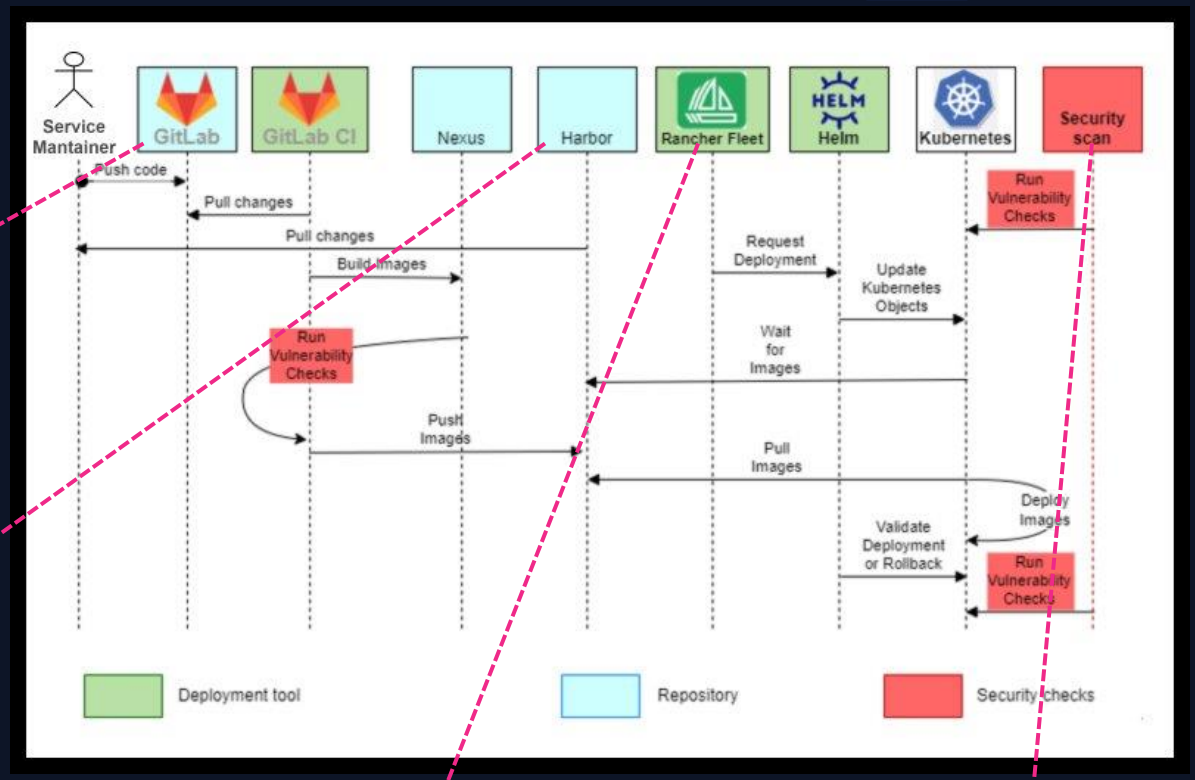
Four environments to run security checks, integration and E2E tests and finally move to Operations

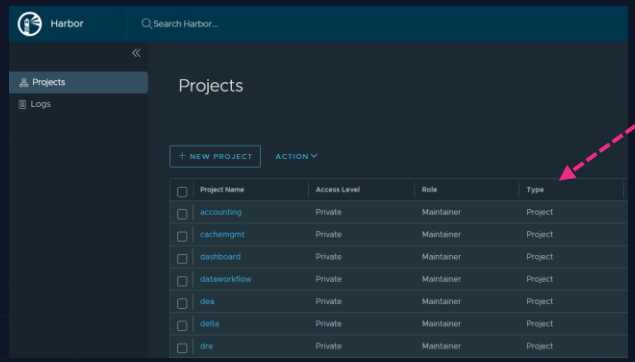
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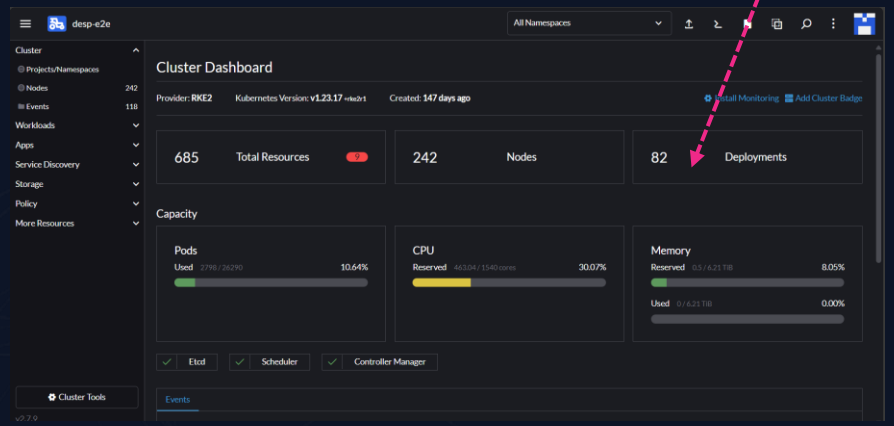
FOCUS ON
TECHNOLOGIES & CI/CD

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