Destination Earth Core Service Platform

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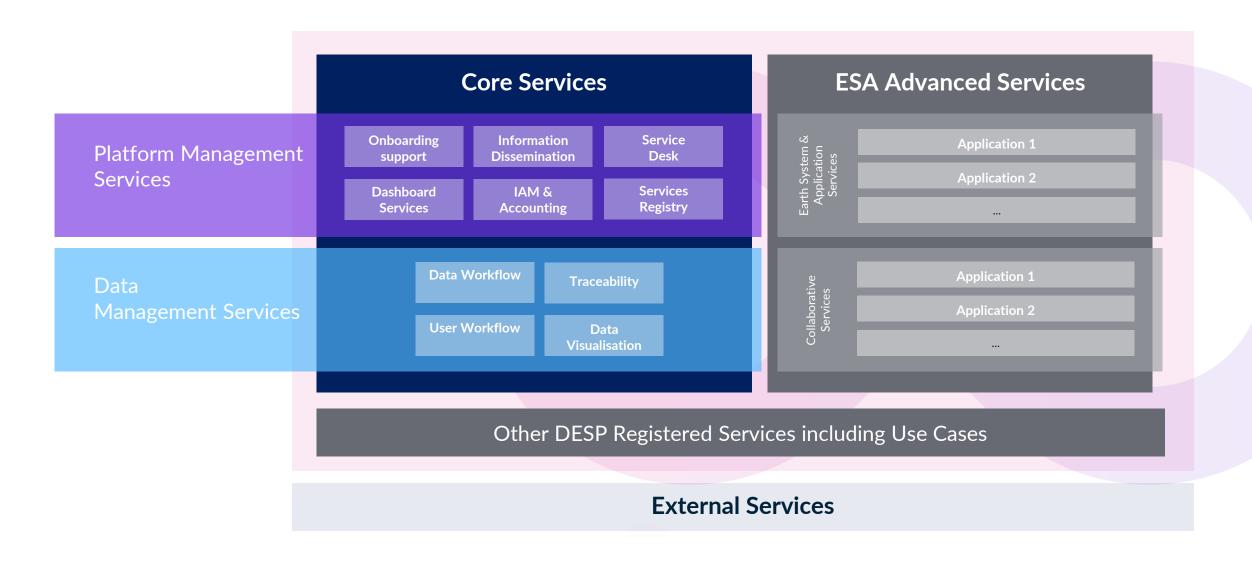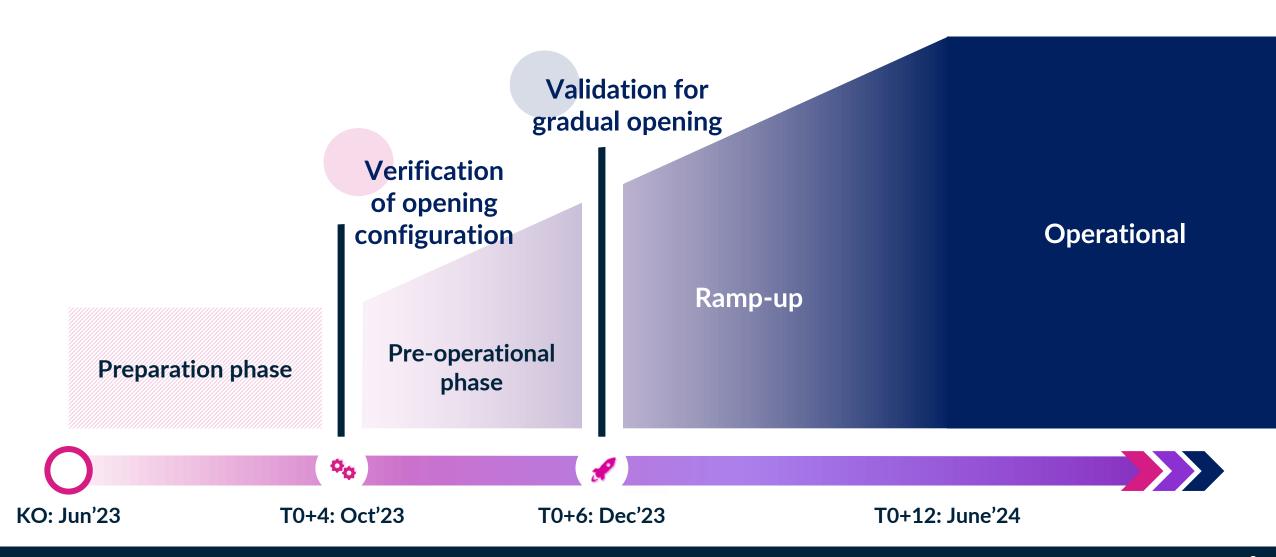
DestinE Core Service Platform – Overview

Core Services

ESA Advanced Services

Platform Management Services

- Onboarding support
- Information Dissemination
- Service Desk
- Dashboard Services
- IAM & Accounting
- Services Registry

Data Management Services

- Data Workflow
- Traceability
- User Workflow
- Data Visualisation

Earth System & Application Services

- Application 1
- Application 2
- ...

Collaborative Services

- Application 1
- Application 2
- ...

Other DESP Registered Services including Use Cases

External Services

DestinE Core Service Platform timeline

Validation for gradual opening

Verification of opening configuration

Operational

Ramp-up

Preparation phase

Pre-operational phase

KO: Jun'23

T0+4: Oct'23

T0+6: Dec'23

T0+12: June'24

"Deploying the backbone of the Platform"

- **Cloud infrastructure** :
  - Secure Kubernetes layer set-up
  - Integration with DESP IAM

- **Information Dissemination & Dashboard Services**

  - DESP Web Portal v1
  - Initial info pages publication on DESP Web Portal
  - Service Onboarding Procedure publication
  - Executive Dashboard

- **Service Desk**
  DESP Team "contact us"

- **Service Registry**
  - Service catalogue and Service registration

- **IAM & Accounting Services**
  - AuthN & AuthZ functionalities
  - User taxonomy implementation
  - Registration + Log-in

- **Data Workflow Services & Traceability**

  - Data Access, Retrieval and Discovery for selected datasets

  - Data Traceability verification

  - First integration with Data Management Services and DEDL

"Upgrading the platform after the verification phase"

- **Information Dissemination & Service Desk**
  - Ticket management and Feedback collection
  - User Forum
  - Info model publication

- **IAM & Accounting**
  - Identity providers setup
  - Federation with Entrusted Entities

- **Service Registry set-up**
  - Feedback collection

- **Dashboard services**
  - Operational Dashboard for DESP Services

- **Data Workflow Services**
  - Data Transformation (ADAM platform)
  - Visualization ready data in cache

- **Data visualization**
  - Use case visualization
  - Integration with Data Management Services

- **User workflow**
  - Processing Environment for pipeline generation
  - Creating custom software stack service for the installation of dev environments

desp

"Getting ready for Operations"

- **Cloud infrastructure**
  - PaaS available + orchestration function

- **IAM & Accounting**
  - Accounting & Billing
  - Additional federations

- **Information Dissemination**

  - Image Gallery
  - Services Documentation, wiki and training material

- **Service Registry set-up & Traceability Service**
  - Software Traceability

- **Data visualization**
  - Export functionality
  - User-generated data visualization

User workflow
  - Software Traceability management
  - Artifact repository
  - Possibility to deploy on different back ends with CPU and GPU support.
  - Container orchestration workflow

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