

# NextGEOSS

Bente Lilja Bye, BLB

Nuno Catarino, DEIMOS, Marie-Francoise Voidrot, OGC, Pedro Goncalves, Terradue, Julian Meyer-Arnek, DLR, Nuno Grosso, DEIMOS, Bram Janssen, VITO, Michelle Cortes, Viderum, Bart De Lathouwer, OGC

CEOS WGISS, DLR Oberpfaffenhofen 24th October 2018



European  
Commission

Horizon 2020  
European Union funding  
for Research & Innovation

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# 1

# What is NextGEOSS?

## Quick facts

Next generation European centralised hub for Earth observation data and processing.

European contribution to GEO:

*H2020 SC5-20-2016 call: European data hub of the GEOSS  
information system*

10M€, 27 partners, 3.5 years

NextGEOSS has a strong emphasis on **engaging the communities** of European data providers and users.

NextGEOSS provides **access to data** to the European user communities, together with **Cloud resources**, seamlessly connected to provide an integrated ecosystem that supports applications.

# VALUE PROPOSITION

## Supports the Sustainable Development Goals

Increasing monitoring capacity based on Earth observations

## User feedback mechanism is integrated in the Data Hub

Enables users to efficiently find fit-for-purpose GEOSS data

## Advanced Discovery Tools

For GEO related data and information for thematic areas

## Community Enhancement

NextGEOSS is developed with the community for the community, providing relevant and tailored tools

**NEXTGEOSS** Next Generation European GEOSS Data Hub and Cloud Platform  
Contributing to the Vision of GEO

**Supporting The Sustainable Development Goals**  
Increased monitoring capacity and information based on Earth observations

**Sustainable Development Goals**  
17 GOALS TO TRANSFORM OUR WORLD

**INNOVATION**

**PILOT ACTIVITIES**

- Agricultural Monitoring
- Biodiversity
- Space & Security
- Cold Regions
- Air Pollution in Mega Cities
- Disaster Risk Reduction
- Territorial Planning
- Food Security
- Smart Cities
- Energy

**Business**

**User Feedback Mechanism**  
Enabling users to efficiently deliver and find fit-for-purpose GEOSS data and information.

**Advanced Discovery Tools**  
Increased discoverability of Earth observations and related information for thematic areas

**Community Enhancement**  
Developing solutions with the communities for the communities, creating relevant tools tailored to meet community specific needs.

**Open, Inclusive, and Agile Development Strategy**  
The NextGEOSS approach and methodology are aligned with the EU openness policies and the GEO open data sharing policy. Multiple releases allow extensive collaboration.

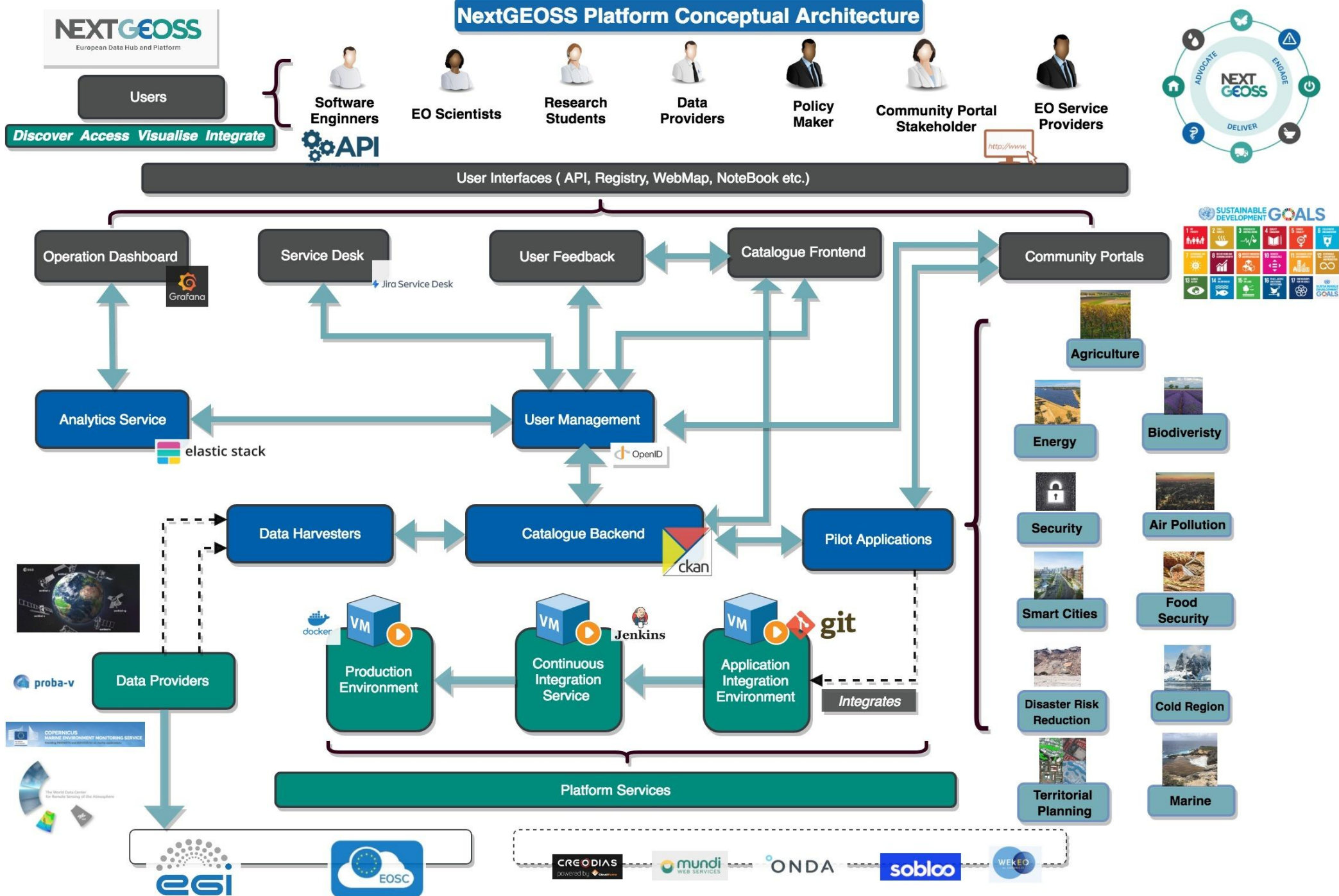
Alpha release Summer 17 | Beta release Winter 17/18 | 1. release Summer 18 | 2. release Summer 19 | 3. release Summer 20

**NextGEOSS Project Facts**  
EUSSDS project, 2014 - 2020, 27 partners from 13 countries  
Budget: 15M EUR  
\* NextGEOSS is a working area in the GEOSS 2020-2025 EU



CONCEPTUAL

# NextGEOSS Platform Conceptual Architecture



ARCHITECTURE

# PILOT SERVICES

## Innovative Pilot Services

IP1 Agricultural  
Monitoring



IP2  
Biodiversity



IP3  
Space &  
Security



IP4  
Cold Regions



IP5  
Air Pollution  
in Mega Cities



IP6  
Disaster Risk  
Reduction



## Business Pilot Services

BP1  
Territorial  
Planning



BP2  
Food Security



BP3  
Smart Cities



BP4.1/2  
Energy\*



BP5 Marine  
Drift



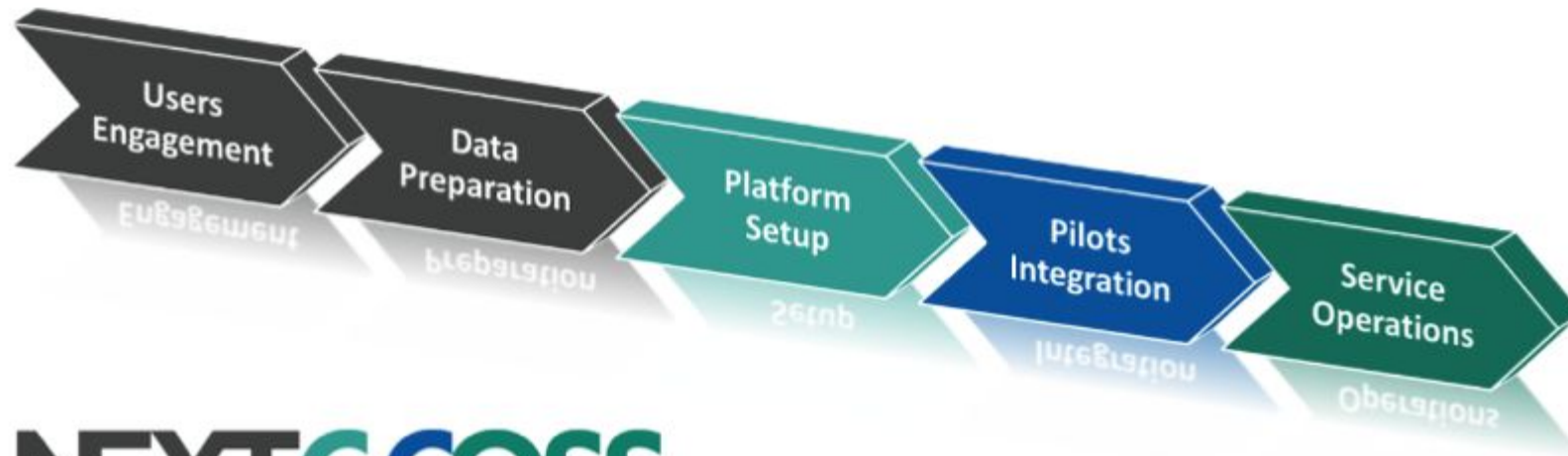
# 2

## How can you use NextGEOSS?

- 5-step user experience
- Onboarding process
- Capacity building
- Sustainability (News)



# USER EXPERIENCE



## User engagement

- Submit candidate pilot services
- Selection of pilot services
- Kickoff preparation



## Defined engagement priorities for new services

Agriculture: Emphasized into the grant document, strong partner, strong relation with GEO

Marine: as a result of Value Creation Wheel analysis (DEIMOS + NOVA SBE)

Disasters: As a topic of interest for cooperation with other Regional GEOSS

## Data Preparation

Assess data required by applications and it's availability

Submit data description in Service Desk

Dedicated Tech Meetings

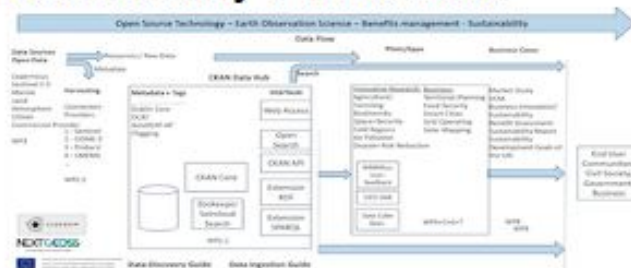
Prepare data access, harvestors & catalogue

Continuously assessing data access and readiness

Building Community Feedback



**NEXTGEOSS**  
Contributing to the Vision of GEO



## Platform Setup

Analyse ICT resources needs and availability

Technical meetings

Provisioning of resources

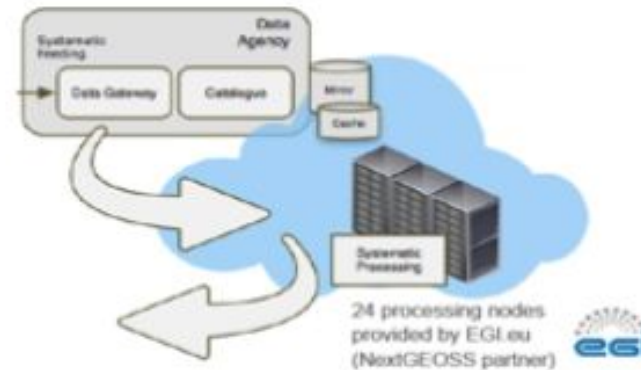
Setup auxiliary tools and services required

NextGEOSS assesses and provides feedback on ICT readiness

Sign up and access to resources



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Contributing to the Vision of GEO



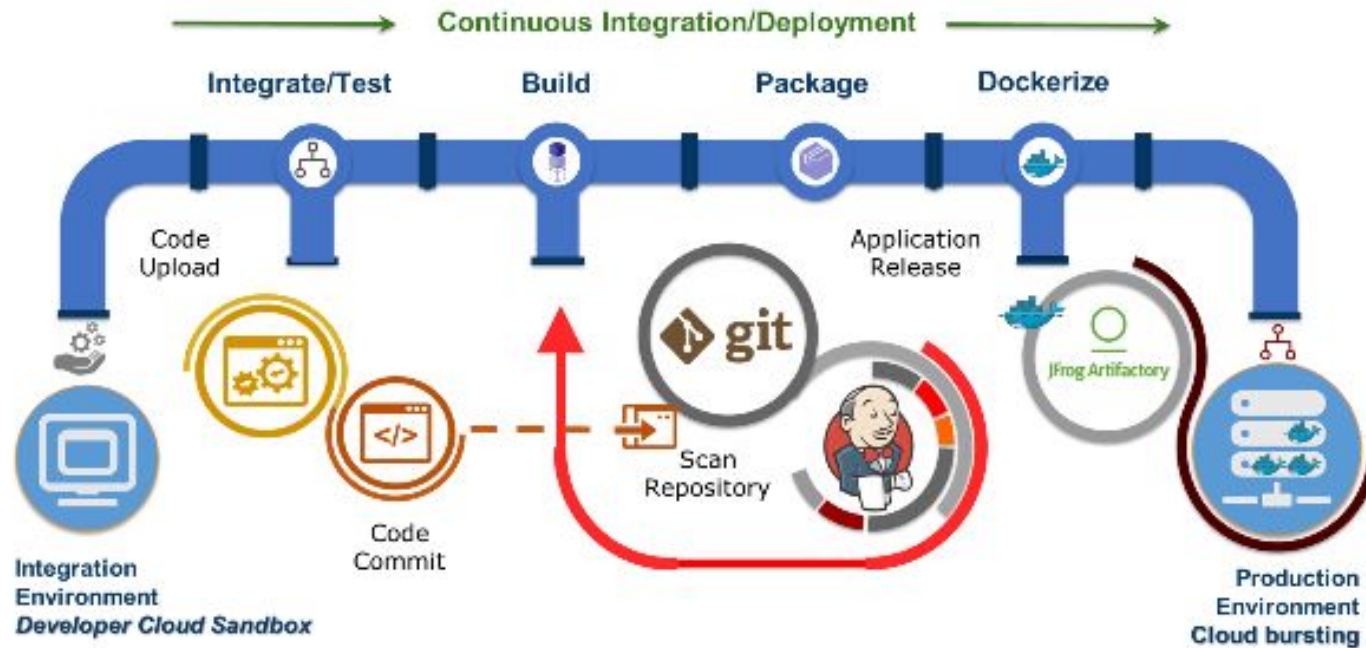


## Pilots Integration

Integrate pilot and tools

Test and Validate

Transfer for Operations



- Integrate
- Build
- Package
- Deploy

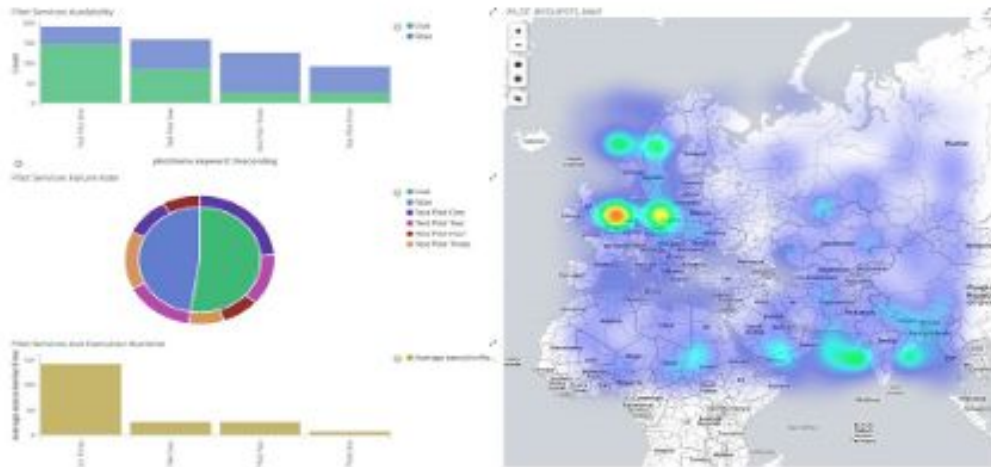


## Service (pre-)Operations

Running systematic EO-based services

Continuous monitoring

Engagement with pilot service users



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Contributing to the Vision of GEO

### Processes & Tools

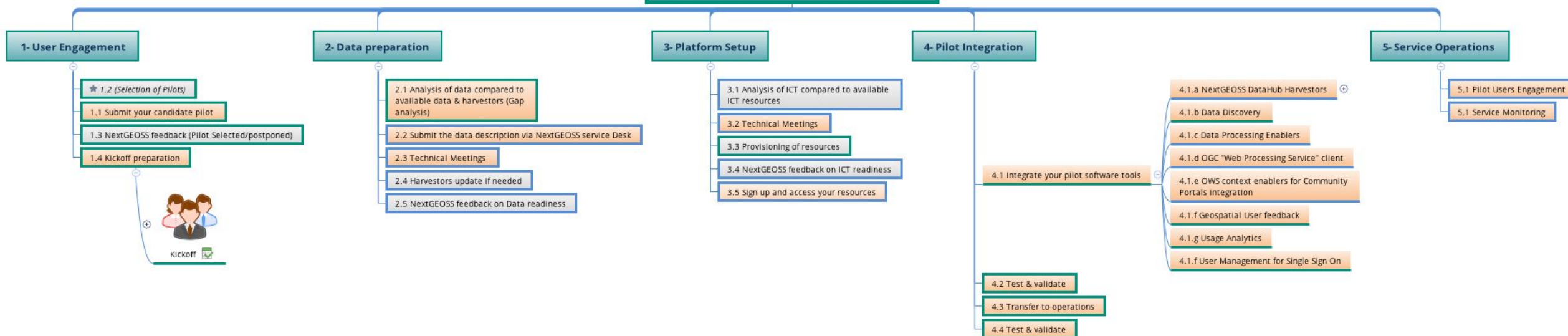
- User Management
- Data Catalogue
- Data Processes
- Cloud Controller
- Community Feedback
- Operations Dashboards
- Service Desk

+ Community Portals

# ONBOARDING PROCESS



A set of **personas** reflects the different tasks of the onboarding



- Built-in capacity building
  - Training
  - Webinars
  - INSPIRE Hackathons
- Sustainability - Continuity

**FREE WEBINARS**  
on  
**OPEN DATA & APIs**

**ANTWERP INSPIRE HACKATHON 2018**  
**Register NOW!**

**WHAT ARE YOU WAITING FOR?**

INSPIRE Conference 2018  
Inspire Users: Make it work together

EUROPEAN DATA PORTAL | EU Open Data Portal | GODAN Global Open Data for Agriculture & Nutrition | DATABio | NEXTGEOSS European Data Hub and Platform | EUXDAT | PolVisu | everest | OGC | Plan 4 all

**NEXTGEOSS**  
European Data Hub and Platform

**FREE WEBINAR**  
**[Project] Sustainability 101**

In this webinar you will be introduced to different concepts and perspectives on H2020 project sustainability. We also offer you a couple of success stories.

What is your understanding of sustainability of H2020 projects? Do you have good examples of how to solve this challenge?

22 October 2018

Simon Semhuur | Torus Mildorf | Bente Lilja Bye





ANTWERP  
**INSPIRE  
HACKATHON  
2018**



ORLÉANS/OGC  
**INSPIRE  
HACKATHON  
2018**



PRAGUE  
**INSPIRE  
HACKATHON  
2018**



INSPIRE Conference 2017

**INSPIRE  
Hack  
2017**



**CONTINUITY - SUSTAINABILITY**



# 3

## NEWS - Announcements

First set of external pilot candidates selected

NextGEOSS offers [NEW] Earth observation information data hub services

NextGEOSS and GEOSS Evolve coordinate the next GEOSS AIP - opens January 2019



# MEET US!

- GEO Week 2018, Kyoto, Japan
- AGU 2018, Washington DC, USA



**@NextGEOSS**

Bente Lilja Bye

bente@blb.as



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730329