

EOSCpilot: Architecture & Services

Jan Bot

Jan.Bot@SURFsara.nl

04/10/2017

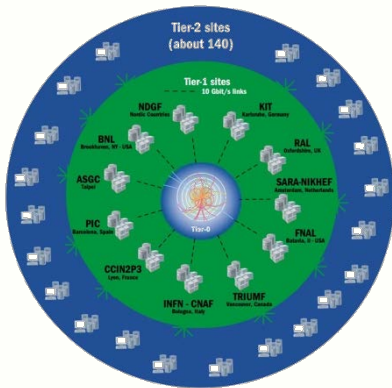
EOSCpilot

The European Open Science
Cloud for Research Pilot Project

www.eosc-pilot.eu



EOSC examples (?)



WLCG



LOFAR



Human Brain Project

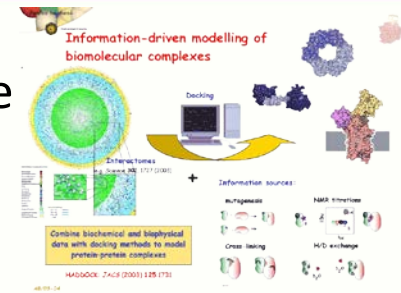


We-NMR & MoBrain collaboration

👤 International community supported by a variety of resource providers

- 👤 [INFN-PADOVA](#) (Italy)
- 👤 [RAL-LCG2](#) (UK)
- 👤 [TW-NCHC](#) (Taiwan)
- 👤 [SURFsara](#) (The Netherlands)
- 👤 [NCG-INGRID-PT](#) (Portugal)
- 👤 [NIKHEF](#) (The Netherlands)
- 👤 [CESNET-MetaCloud](#) (Czech Republic)

👤 Yearly 75M core hours & 50 TB storage





Lack of confidence in provided service

-  Service longevity

-  Service stability

-  Lack of clear SLA

Mismatch in requirements

-  Service scalability

Lengthy acquisition process

-  ...

 → translate into requirements for EOSC portfolio inclusion



Service Portfolio Management

The purpose of a Service Portfolio is to understand, both internally and externally, what services **an organisation** provides. This is necessary for effective service management as much of it is arranged and managed by service. A Service Portfolio also help create an internal awareness within the organisation of the concept of a 'Service' from an ITSM point of view, rather than a more technology orientated point of view (which tends to refer to Service Components as Services).

The Service Catalogue is a customer view of the same set of information, showing potential customers what services are available. This aligns the internal and external view on what customers are offered, which eases customer relationship management.



Collaboration with eInfraCentral


 Service Description	
Basic Service Information	
Service Brand Name	
Service Tagline (If applicable)	
Service Full Name (If applicable)	
Service Description	
Target Customers/Users	
Customer/User Value	
Usage and appreciation	
Service Provider	
Funding	
Service Webpage/Repository/Link	
Service Classification Information	
Service Version	
Service Phase/Status/TRL	
Service Type/Category	
Related Services	
Service Support Information	
Service Request	
Service Helpdesk	
Service User Manual	
Service Training Information	
Service Feedback	
Service Contractual Information	
Service Pricing	
Service Level Agreement	
Service Options	
Terms Of Use	

Service description template e-InfraCentral & EOSCpilot





Described services

EGI, EUDAT, GÉANT, OpenAIRE, PRACE

-  Service descriptions should arrive soon

GÉANT cloud catalogue

-  Dimension Data
-  Cloud Sigma

ICOS

-  ICOS Carbon Portal

LTER

-  DEIMS

SeaDataNet

-  SeaDataNet

SINE2020

-  e-neutrons.org

ASTERICS

-  12476 data resources & services




PIN

-  ARIADNE Portal


4TU

-  4TU.ResearchData








DANS

-  DataverseNL
-  EASY
-  Narcis















Nikhef

-  NDPF (compute, storage, co-location & peering)

Bonvin lab

-  HADDOCK
-  CPORT
-  DisVis
-  PowerFit
-  Prodigy
-  SpotOn
-  3D-DART
-  WHISKY

SURFsara

-  Cartesius (HPC)
-  LISA (HTC)
-  IaaS Cloud (HTC)
-  Grid (HTC)
-  Big data infra (Hadoop, Spark)
-  Visualisation
-  Swift
-  BeeHub
-  Data archive
-  Data ingest
-  PID service
-  Jupyter
-  Consultancy
-  Training

RUG

-  ...



Some EOSC portfolio principles

- Be as inclusive as possible

 - No service left behind

- Describe rather than threshold service levels

 - Service consumers can determine what service level is acceptable

- Implement light-weight portfolio management processes

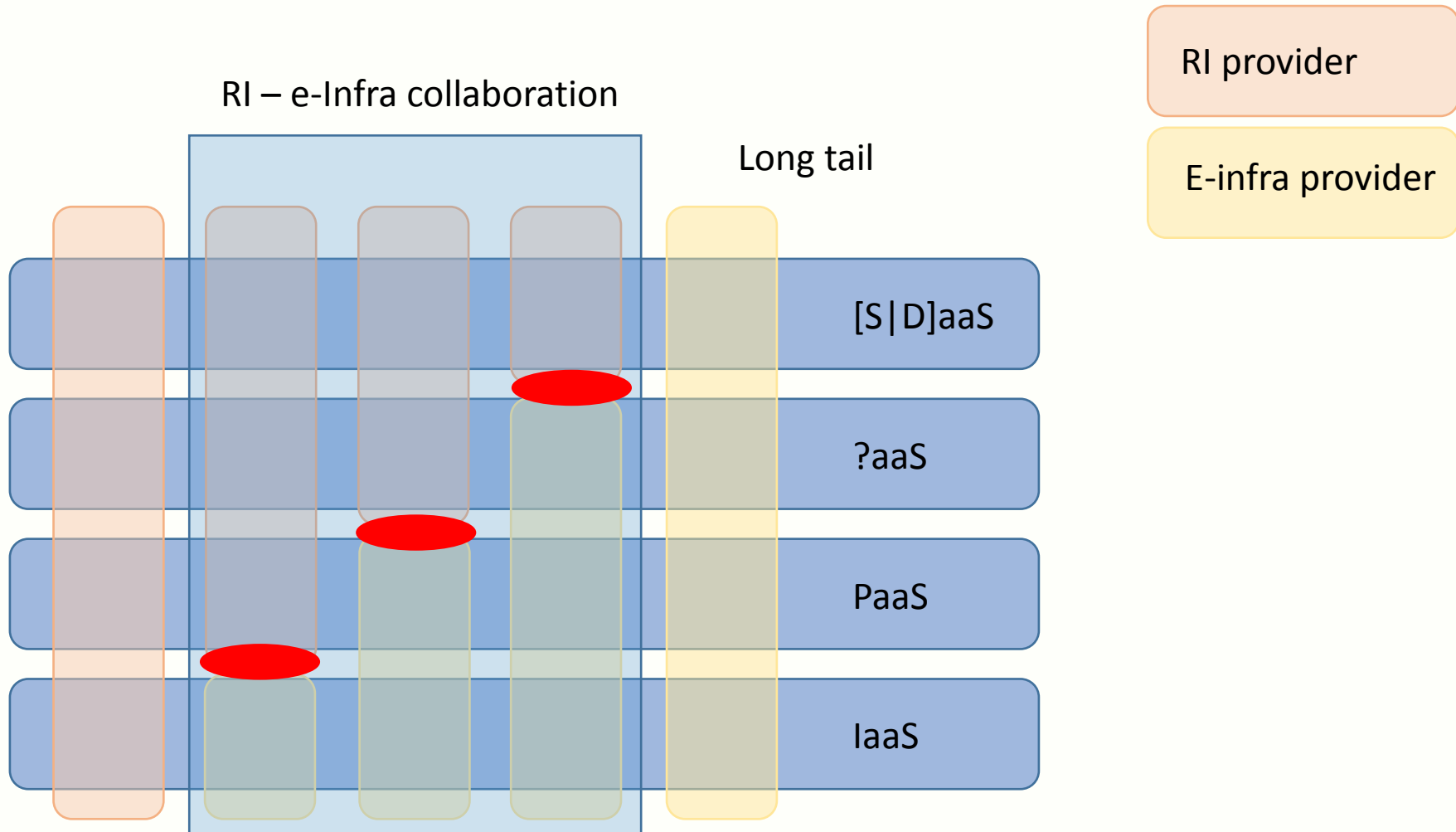
 - In line with expected impact of the service

- Flexible delivery model

 - Sponsored services, pay-as-you-go, ...

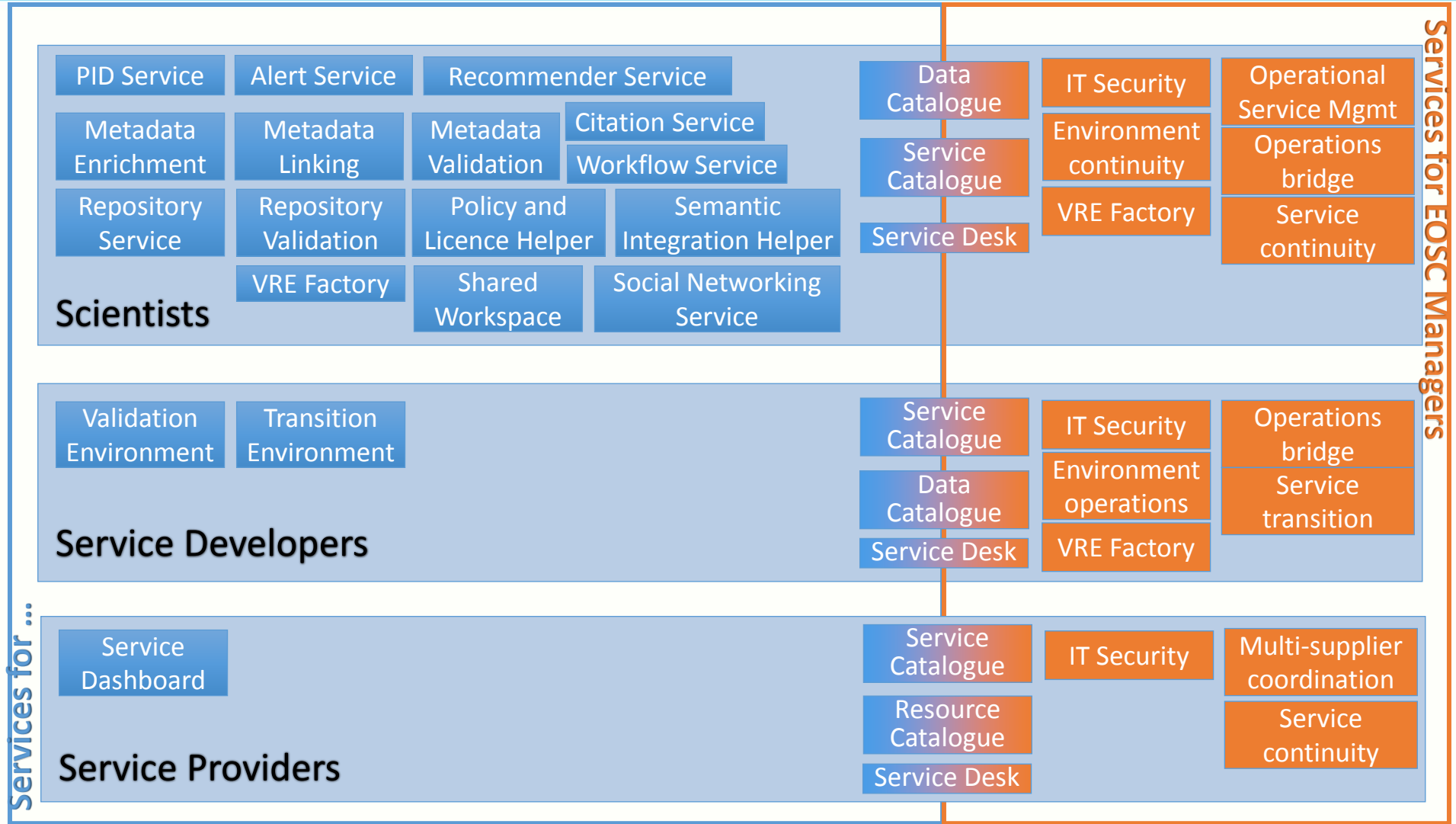


System-of-systems & service stacking







Abstract Class of Services






Individual users

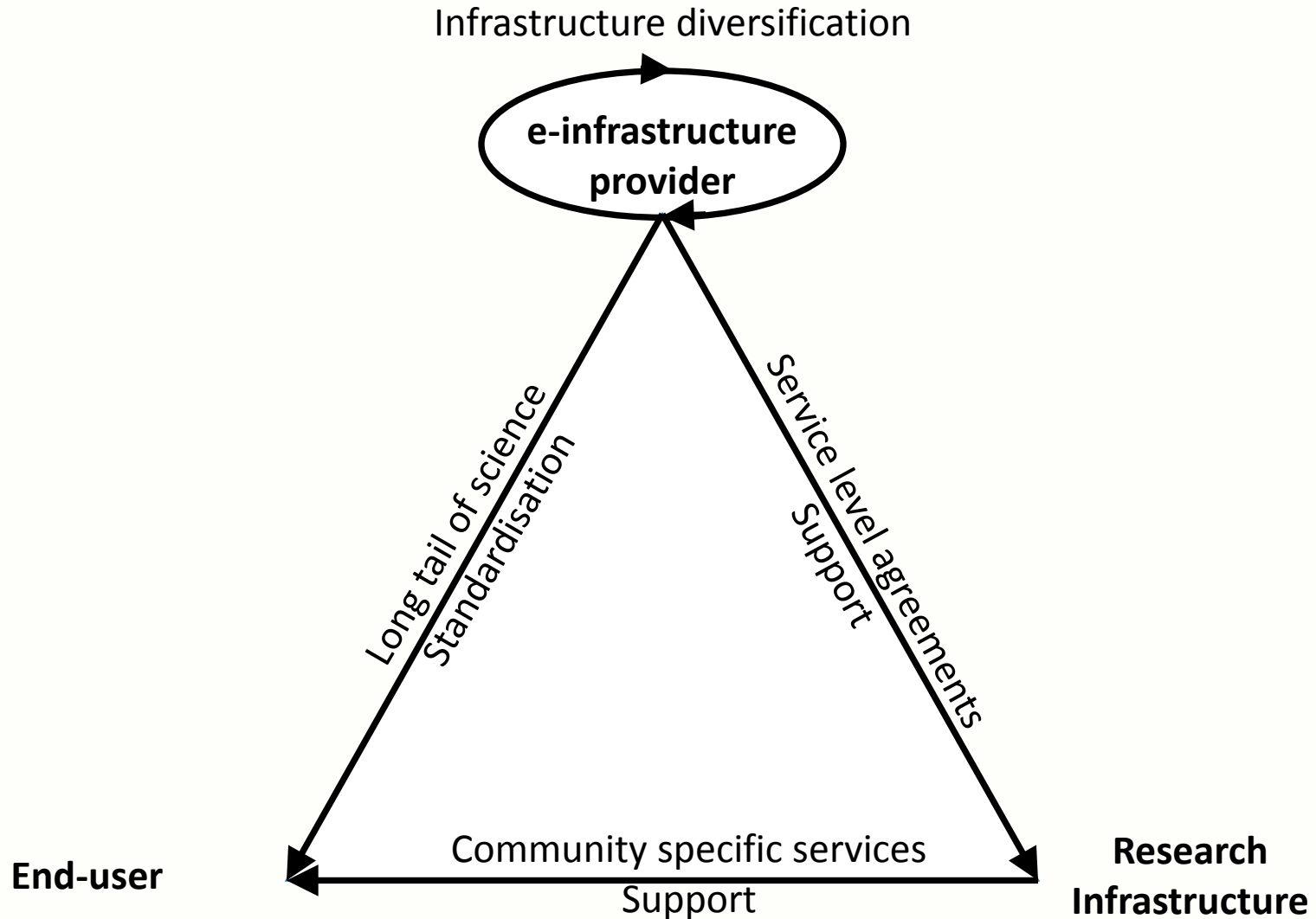
-  Cloud (I/PaaS) resources
-  Data sharing facilities

Research Infrastructures

-  Support
-  Data sharing facilities
-  Analysis platform



Service delivery triangle





MERIL: rules for entering the portfolio

MERIL eligibility checklist	YES	NO
1. Does the RI have a policy of providing access to users outside of the country in which it is located or by which it is coordinated?		
2. Does the RI provide clear access rules (for example application forms, open calls and contact information) and an access point for users on a publicly available web page?		
3. Does the RI provide a website in English (including the access rules)?		
4. Does the RI receive national, regional or European public funding?		
5. Does the RI have an appointed contact or manager responsible for the RI?		
6. The RI is of <i>more than national relevance</i> because it...		
a) can provide evidence that it is used by non-national (European or international) users by for example providing the number of non-national users per year		
b) is part of a European or international network		
c) has formal arrangements or agreements with international partners, for example with similar RIs in other countries		

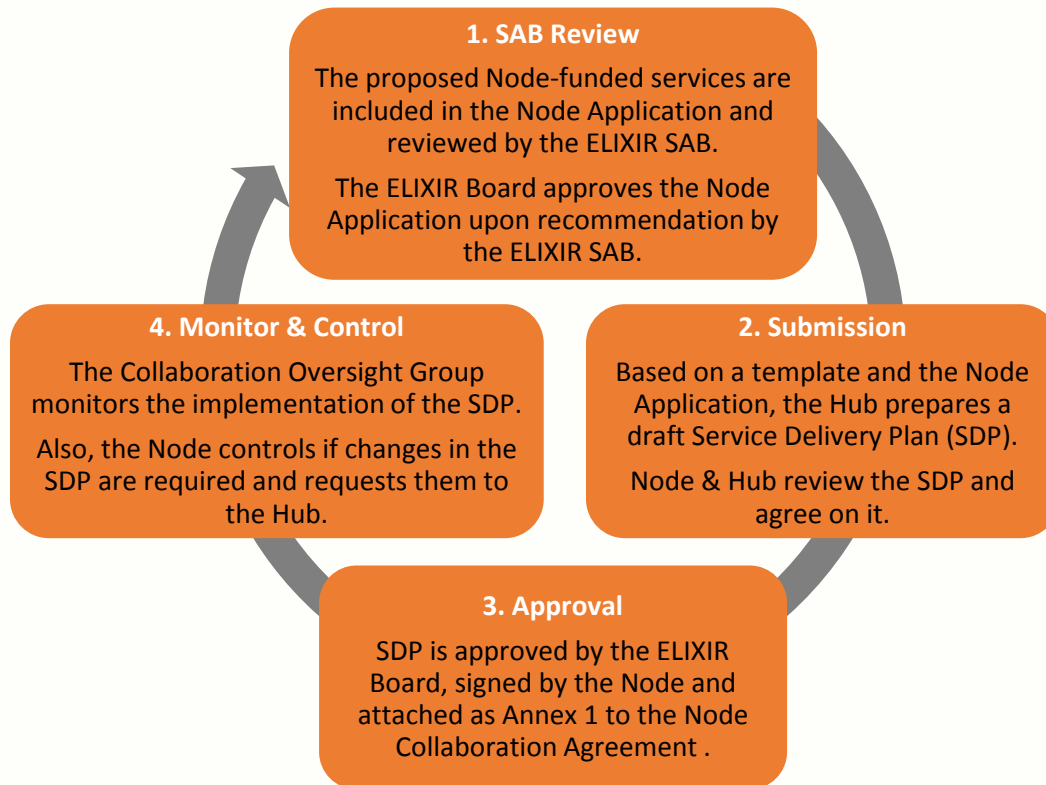
An RI is considered to be eligible to be included in MERIL if it can answer “yes” to all questions 1-5 and if at least one statement under 6 (a, b, or c) applies.



MERIL self-assessment form



Elixir: Portfolio processes



The full process for submitting and accepting ELIXIR Services consists in four steps



EOSC Model – Overview

How to translate into portfolio?

Member States

Institutional

Executive

“Other Resources”

“EOSC Compatible
Resources”

“EOSC Compliant
Resources”

“EOSC Managed
Resources”

“Core
Resources”

“Advisory” = Governance Ecosystem = Community

Original: Matthew Dovey

Jan Bot
Jan.Bot@SURFsara.nl

