OSCARS
Open Science Clusters' Action for Research & Society

ENVRI in OSCARS 2
Consolidation activities

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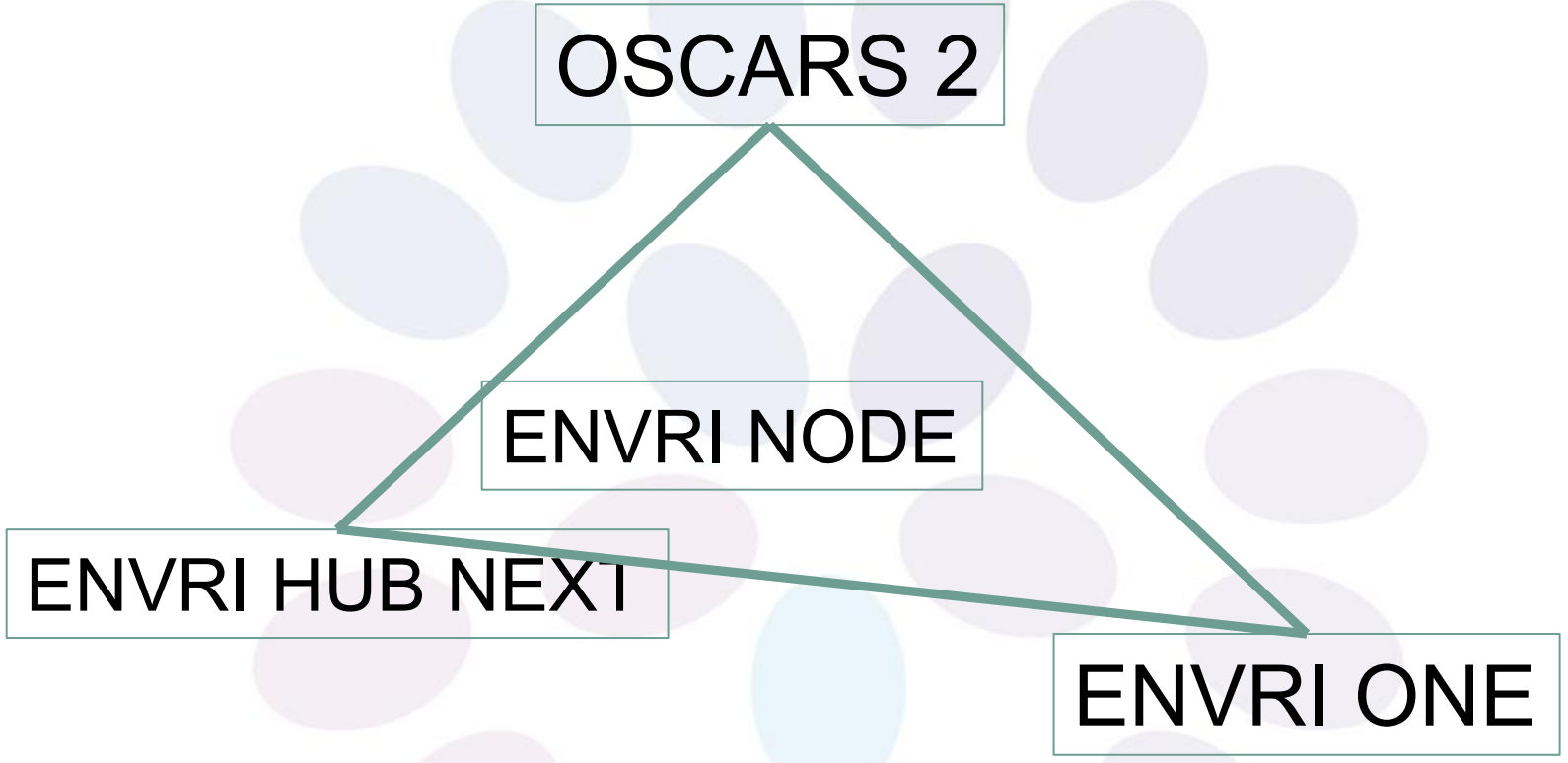
Funded by the European Union


OSCARS 2
ENVRI NODE
ENVRI HUB NEXT
ENVRI ONE

Open-source governance model for ENVRI Hub software

Why this is needed
- Cluster-developed software is mostly project-driven and sustained informally
- Contribution rules, decision-making, and release practices are often unclear
- Sustainability and reuse across projects and RIs remain ad hoc
- Lack of governance undermines long-term EOSC service provision

What is proposed (common OSCARS work)
- Define practical open-source governance models for cluster-level software
- Clarify roles, contribution and review processes, licensing, and release practices
- Focus on operational governance mechanisms, not legal entities or foundations
- Pilot governance models on selected software components across clusters

Why this is cross-cluster
- All science clusters develop and share software assets
- No cluster should reinvent governance independently
- A shared approach reduces fragmentation and evaluator risk
- Strengthens software sustainability across the EOSC ecosystem

EOSC Interoperability Framework (EIF) Alignment & Operational Validation

Why this is needed
- EIF alignment is often treated as a checklist or documentation exercise
- Nominal compliance frequently fails during real EOSC onboarding
- Late operational failures reduce trust and slow EOSC uptake
- Fragmented interpretations across clusters threaten EOSC coherence

What is proposed (common OSCARS work)
- Central interpretation of EIF requirements and development of shared guidance
- Common templates, tools, and alignment practices for all clusters
- Selection of a small number of representative services per cluster
- Practical EIF alignment and pilot onboarding using real services
- Feedback loops from operational tests to refine guidance

Why this is cross-cluster
- EIF is federation-level, not domain-specific
- Inconsistent alignment across clusters would undermine EOSC
- Central coordination plus cluster-embedded validation is scalable and credible

Thematic Node Service Portfolio Characterisation

Why this is needed
- Users lack clarity on which services are stable and reliable
- Clusters risk overpromising by implicitly “owning” services they do not operate
- Service maturity and expectations are not clearly communicated
- This creates usability, sustainability, and trust issues

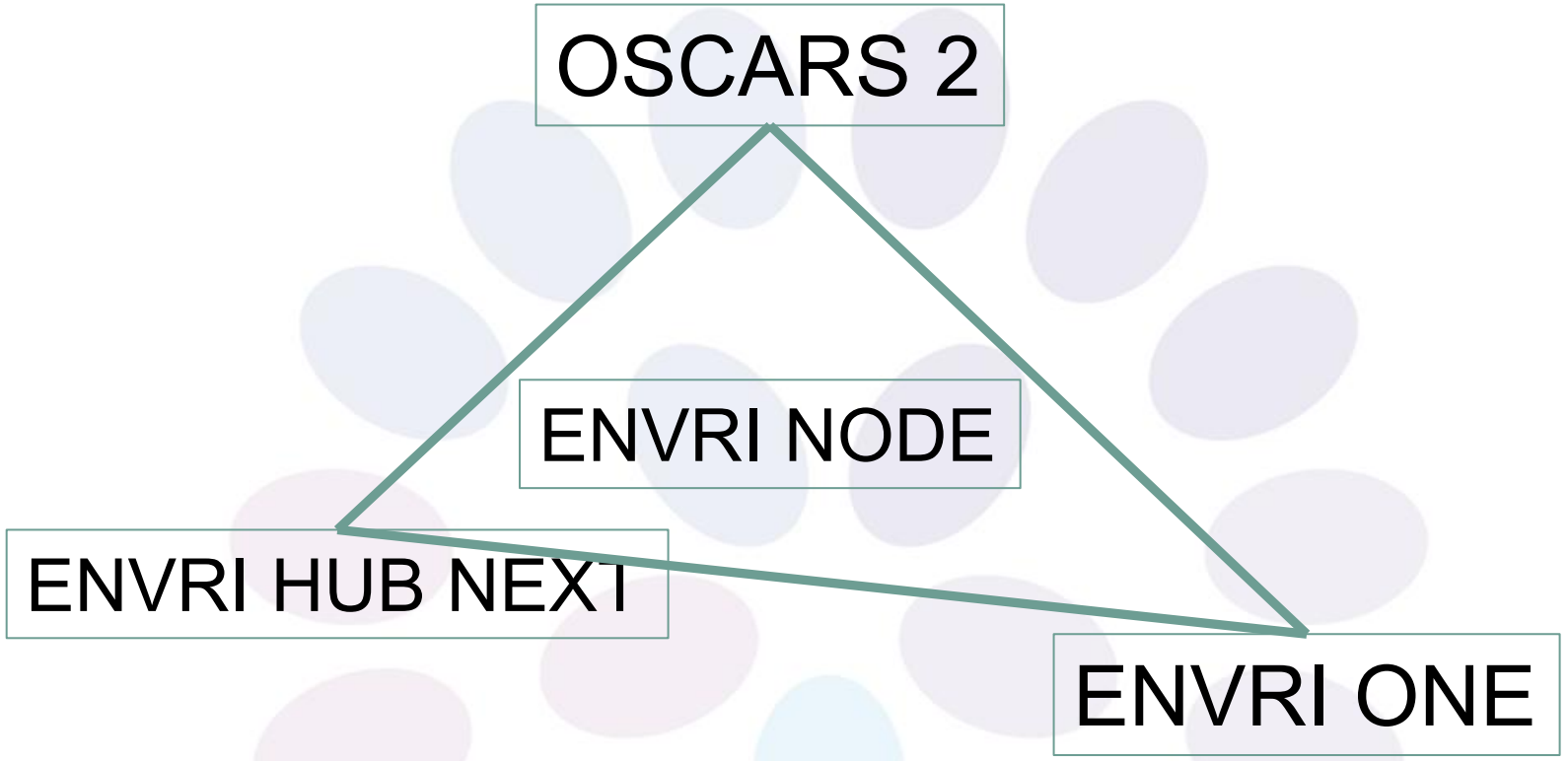
What is proposed (common OSCARS work)
- Characterise thematic node service portfolios as Core vs Added-Value
- Base classification on maturity, interoperability readiness, and user expectations
- Document service roles, dependencies, and usage in EOSC workflows
- Validate classifications through real EOSC-enabled workflows
- No implication of service operation or long-term ownership

Why this is cross-cluster
- Every thematic node faces the same portfolio clarity challenge
- This is about transparency and usability, not control
- A shared approach avoids inconsistent definitions across clusters

- FAIR data alone does not guarantee EOSC uptake
- Sustainable software, operational interoperability, and clear service expectations are required
- These are **structural, cross-cluster needs**, not domain-specific features
- OSCARS 2 is the right place to address them once, consistently, for all clusters

OPEN CALL TOPICS

Using the triangle in brainstorming potential open call topics

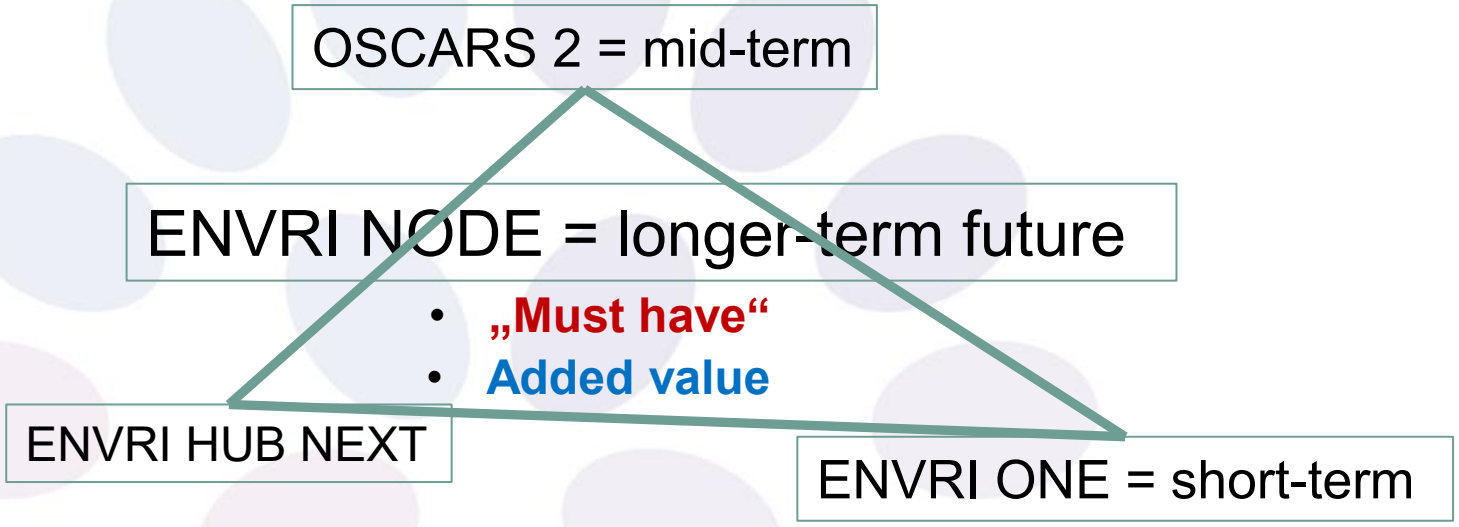


Using the triangle in brainstorming potential open call topics

- **Added value**
  - External expertise
  - Options for solutions

OPEN CALL TOPCS

- **„Must have“**
  - Cluster specific, SCLs
  - Cross-cluster



- Long-lasting, cross-projects construction process
- Priority modules for further development as backbone of ENVRI Node

- **„Must have“** ○ Cluster specific

„Must have“: Adresses by Anca; most know the ENVRI Hub

- Reference system for observed environmental variables across RIs and mapping to disciplinary/domain EV systems (EOSC entry points)
- Cross-RI reference framework for environmental in-situ facilities (EOSC entry points)
- Harmonised QA/QC procedures as reusable cross-RI Pipelines
- Demonstrators of scientific benefits of shared semantics for data discovery, access, and reuse across RIs.
- Integration of in situ environmental data with Earth Observation through EOSC
- FAIR environmental LONG-TERM time-series for advanced analytics and AI use


OSCARS
Thank you