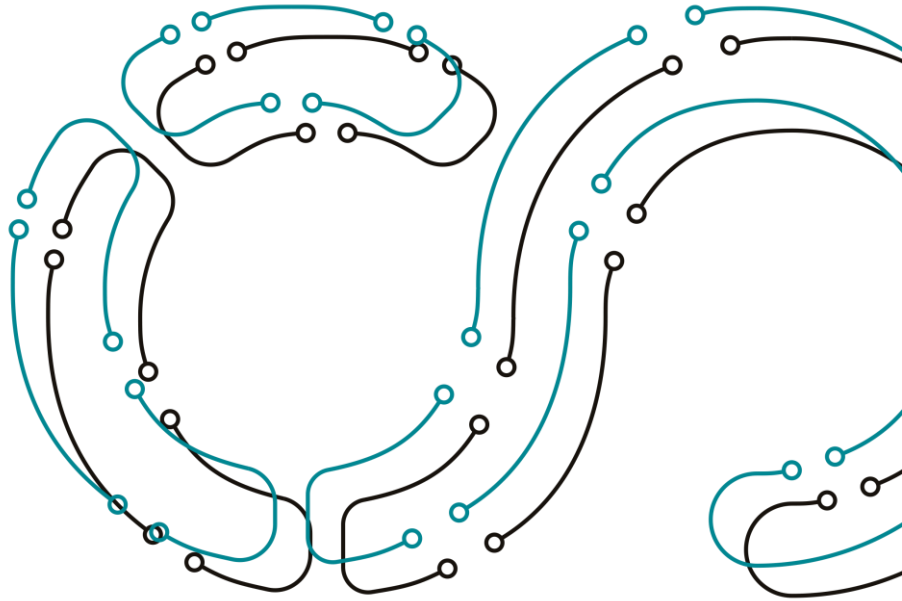
Session: Usage of EOSC Nodes and related benefits

METROFOOD-RI: Cross-node Catalogue Federation



Karl Presser, Magdalena Pilch

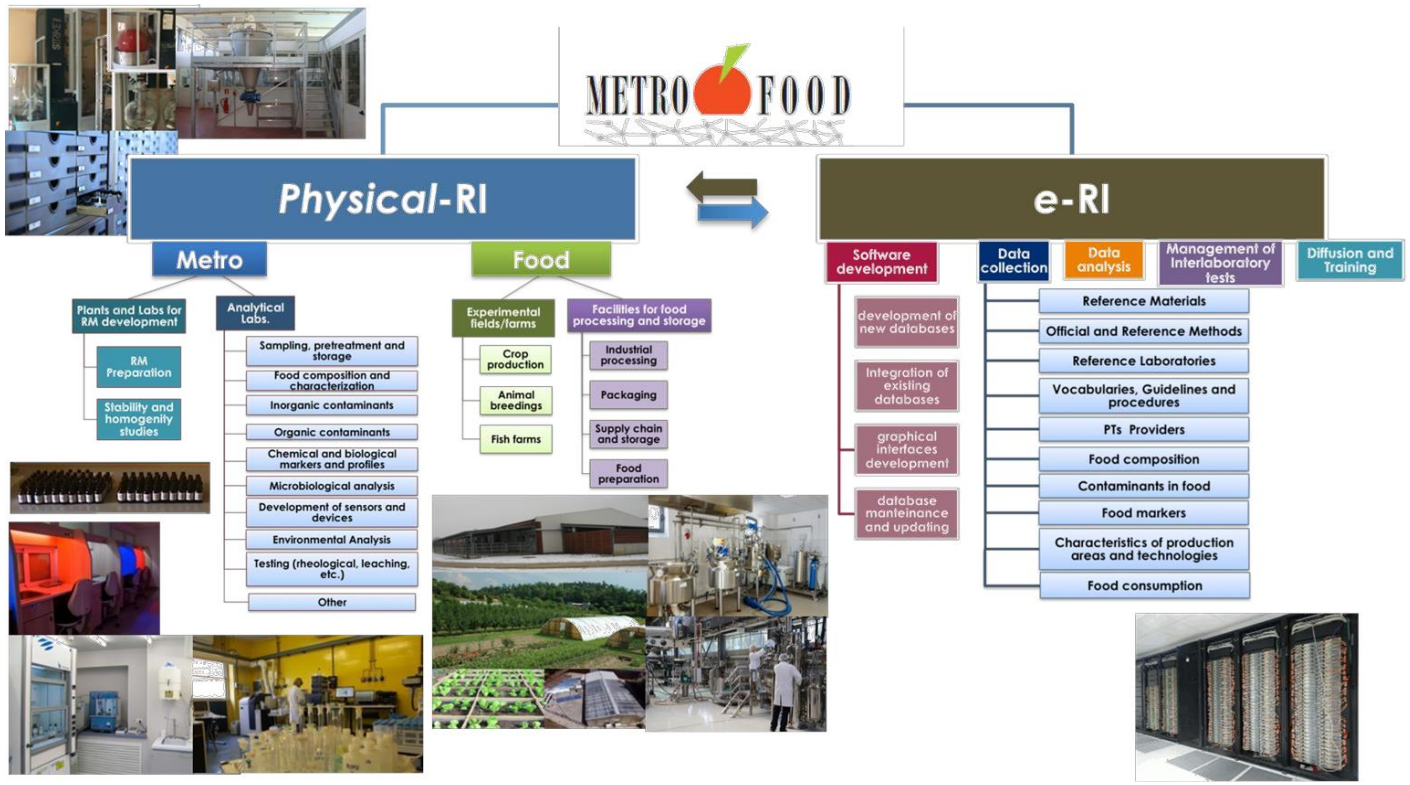
Premotec GmbH

Premotec Poland sp. z o.o.

METROFOOD-RI

A thematic node for metrology in food and nutrition

METRO FOOD
INFRASTRUCTURE FOR PROMOTING METROLOGY IN FOOD AND NUTRITION





One catalogue for resources and services

Physical lab infrastructure and e-infrastructure in one place

Research services

food analysis · reference materials · proficiency testing · methods and devices

ICT & data services

datasets · databases · applications · software and repository development

Shared elements

controlled vocabularies · provider portal · login via METROFOOD AAI

catalogues.eosc.metrofood-services.eu



Resources and services in one: lab services from the national nodes and digital resources are described with one model, found with one search and reached with one login.

One catalogue for resources and services

Physical lab infrastructure and e-infrastructure in one place

Food and nutrition resources are now found and used across other EOSC Nodes

- Discovery across nodes via the EOSC Discovery Hub
- One login across nodes via EOSC AAI
- Selective exchange of catalogue entries with partner nodes

2nd wave candidate EOSC Node

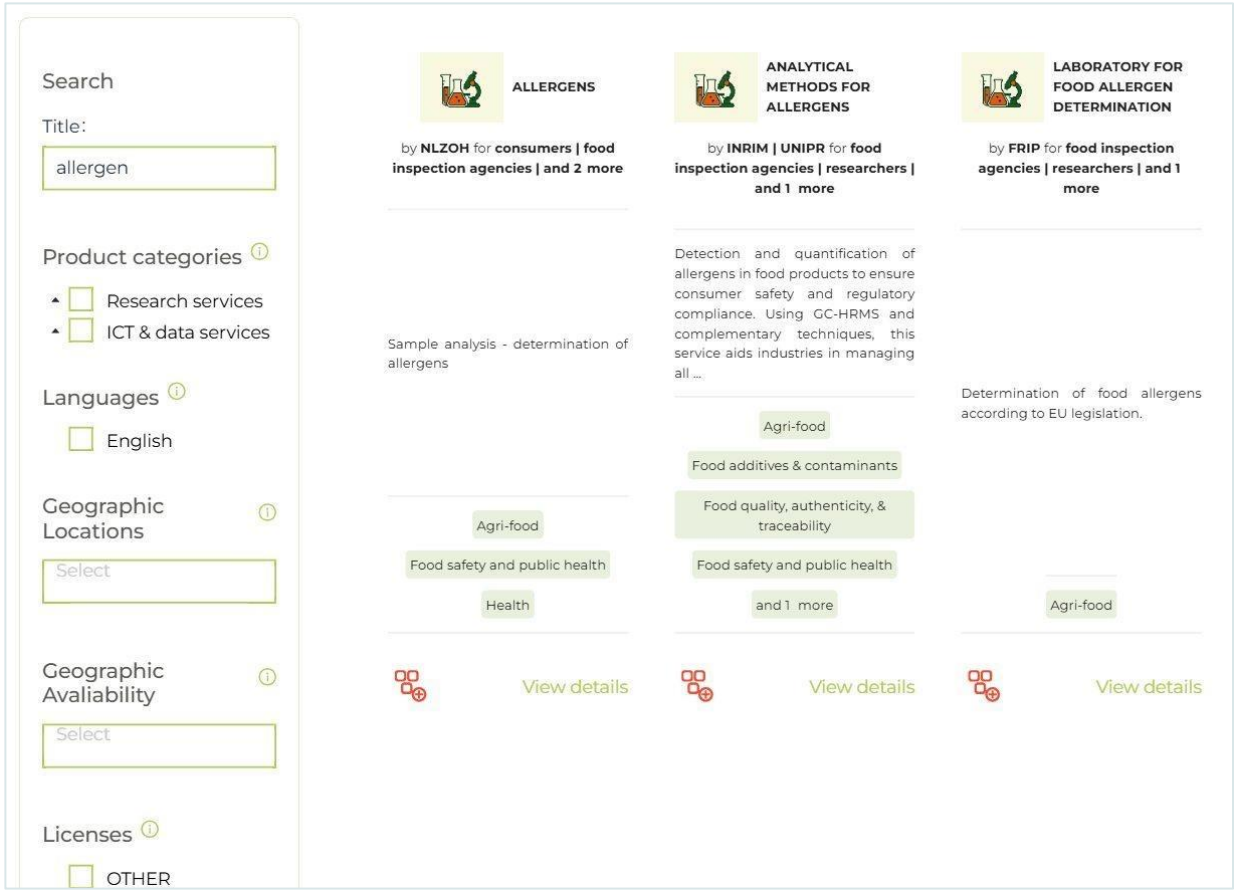
catalogues.eosc.metrofood-services.eu



Pilot goal: access to food and nutrition resources across EOSC.

One search across all services and resources

Example: looking for allergen analysis



1 **Search by keyword**

Type a term such as “allergen” in the title search.

2 **Narrow down**

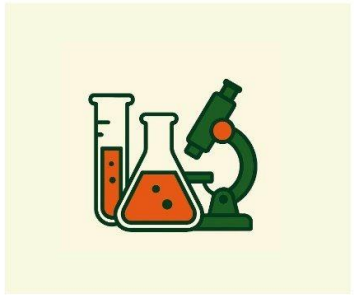
Filter by category (research or ICT & data services), access type, scientific domain, location or provider.

3 **Compare results**

Each card shows the provider, target users and topic tags.

Check: what the service or resource offers

Each entry follows the same structure



Analytical methods for allergens detection in food

Detection and quantification of allergens in food products to ensure consumer safety and regulatory compliance. Using GC-HRMS and complementary techniques, this service aids industries in managing allergen risks and verifying allergen-free claims. Researchers can utilize this service to investigate allergen prevalence and improve detection methodologies.

ASK FOR SERVICE

ADD TO INTEGRATED SERVICES

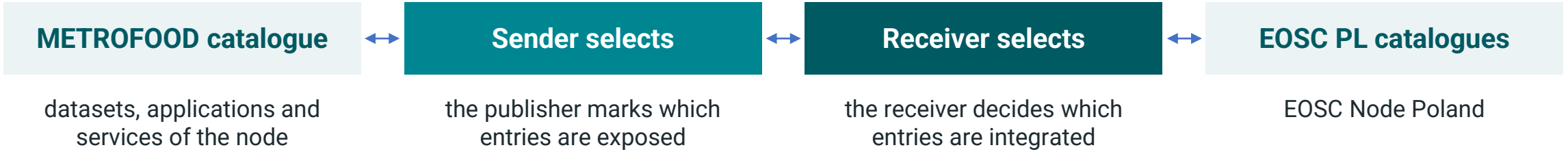
DETAILS:

Metrofood Categories:	Agri-food, Food additives & contaminants, Food quality, authenticity, & traceability, Food safety and public health, Health
Languages:	English
Scientific domains:	Generic, Generic
Target users:	Food business operators, Researchers, Food inspection agencies
Access types:	Remote access, Physical access
TRL:	9 - actual system proven in operational environment

- **Who it is for:** target users and scientific domain
- **How to use it:** physical, remote, virtual or hybrid access
- **How mature:** technology readiness level (TRL), facility and provider
- **Who to contact:** contact details shown after login with EOSC AAI

Selective exchange: both nodes decide

Entry-level control on the sending and the receiving side



The sender defines which catalogue entries are shared. The receiver decides which entries are integrated.

Result: each community shares exactly what it wants across nodes, and both sides stay in control of their own catalogue.

Multi-node use case in practice

METROFOOD, EOSC Beyond sandbox

THEMATIC NODE

METROFOOD-RI catalogue

- Research services
- ICT & data services
- Applications

2nd wave candidate EOSC Node

EOSC BEYOND

Sandbox catalogues

Federation established

NATIONAL NODE

EOSC Node Poland catalogues

1st wave EOSC Node

WHAT IT SHOWS

- **Cross-node interoperability:** entries can be found across a thematic and a national node
- **Selective exchange:** datasets, applications and services shared by rule, not by bulk copy
- **Across borders:** federated discovery and reuse across organisational and national boundaries

Benefits and feedback for Node operators

What we learned from real node usage

BENEFITS

- Food resources reach users of other nodes
- One login across thematic, national and EU-level services
- Each node keeps control of its own catalogues

BLOCKER WE MET	WHAT NODES NEED
Metadata profiles and vocabularies differ between nodes	**A shared minimal profile and harmonised metadata**
Only part of ~250 services synced correctly at first	**Validation tools and clear sync feedback**
No common way to filter what is exchanged	**Selective exchange as a standard for all nodes**
Federation requirements spread across many guideline versions	**One consolidated, up-to-date set of guidelines**

Thank you for your attention

TRY THE METROFOOD-RI CATALOGUE

catalogues.eosc.metrofood-services.eu

CONTACT

Karl Presser · karl.presser@premotec.ch
Magdalena Pilch · magdalena.pilch@premotec.ch

