



# FNS - Cloud

Food Nutrition Security

## What can FNS-Cloud offer to EU Missions?

Karl Presser (Premotec GmbH)

EOSC Symposium

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# FNS-Cloud: Project Information

**Funding:** Horizon 2020 – Innovation Action (SFS-26-2019, Food Cloud Demonstrators)

**Duration:** 48 Months (Oct 2019 – Sept 2023)

**Budget:** €10.9m

**Beneficiaries:** 35



**Coordinator (CO):** RTDS

**Scientific Coordinator (SCO):** QIB

**Executive Board (EB):** WP Leaders (RTDS, PMT, JSI, UCD, QIB, EuroFIR, UWTSD, JdIC)

**External Experts Advisory Board (EEAB):** variety of relevant experts and stakeholders from different countries and domains

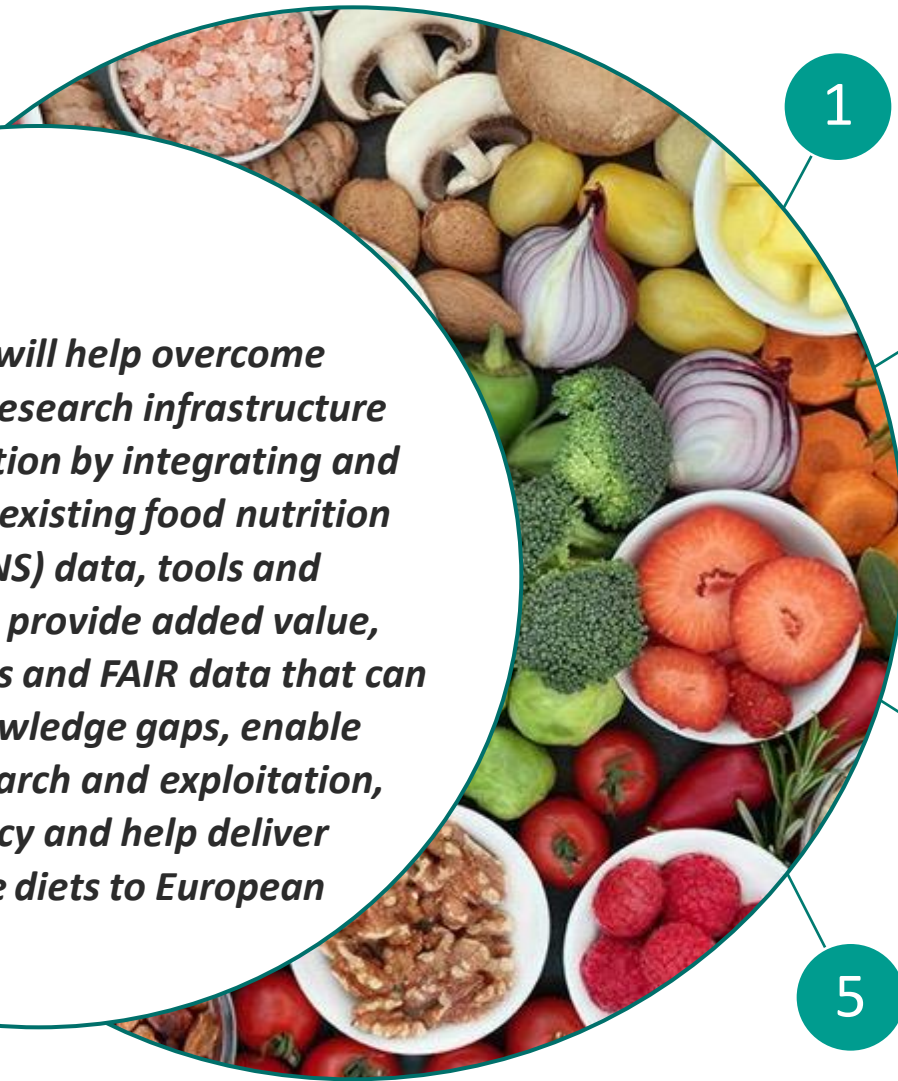
**General Assembly (GA):** decision-making body consisting of a representative from each partner

# FNS-Cloud: Aims & Objectives



## **VISION**

***FNS-Cloud will help overcome European research infrastructure fragmentation by integrating and federating existing food nutrition security (FNS) data, tools and services, to provide added value, open access and FAIR data that can reduce knowledge gaps, enable better research and exploitation, inform policy and help deliver sustainable diets to European citizens.***



1

Implement and test 'cloud' via Use Cases (WP4) and Demonstrators (WP5) to test existing and new proof-of-principle data and tools across FNS domain

2

Develop, integrate and test innovative FNS Cloud Services

3

Enable harmonisation and standardisation of FNS data (sources and format) and external services for integration and interoperability

4

Engage FNS User Communities (especially researchers) to improve co-operation and reduce barriers to innovation and exploitation

5

Develop sustainable FNS Cloud governance and business models, as part of the wider EOOSC

# FNS-Cloud in the Research Landscape

ESFRI: METROFOOD, CESSDA, EATRIS, SHARE, ECRIN, BBMRI, ELIXIR

Primary Production

Public-private

**International Initiatives**  
GloboDiet  
Quisper®

JPI-HDHL  
ENPADASI  
DEDIPAC

**Past Projects**  
EuroDISH  
RICHFIELDS  
EuroMix  
ISO-Food

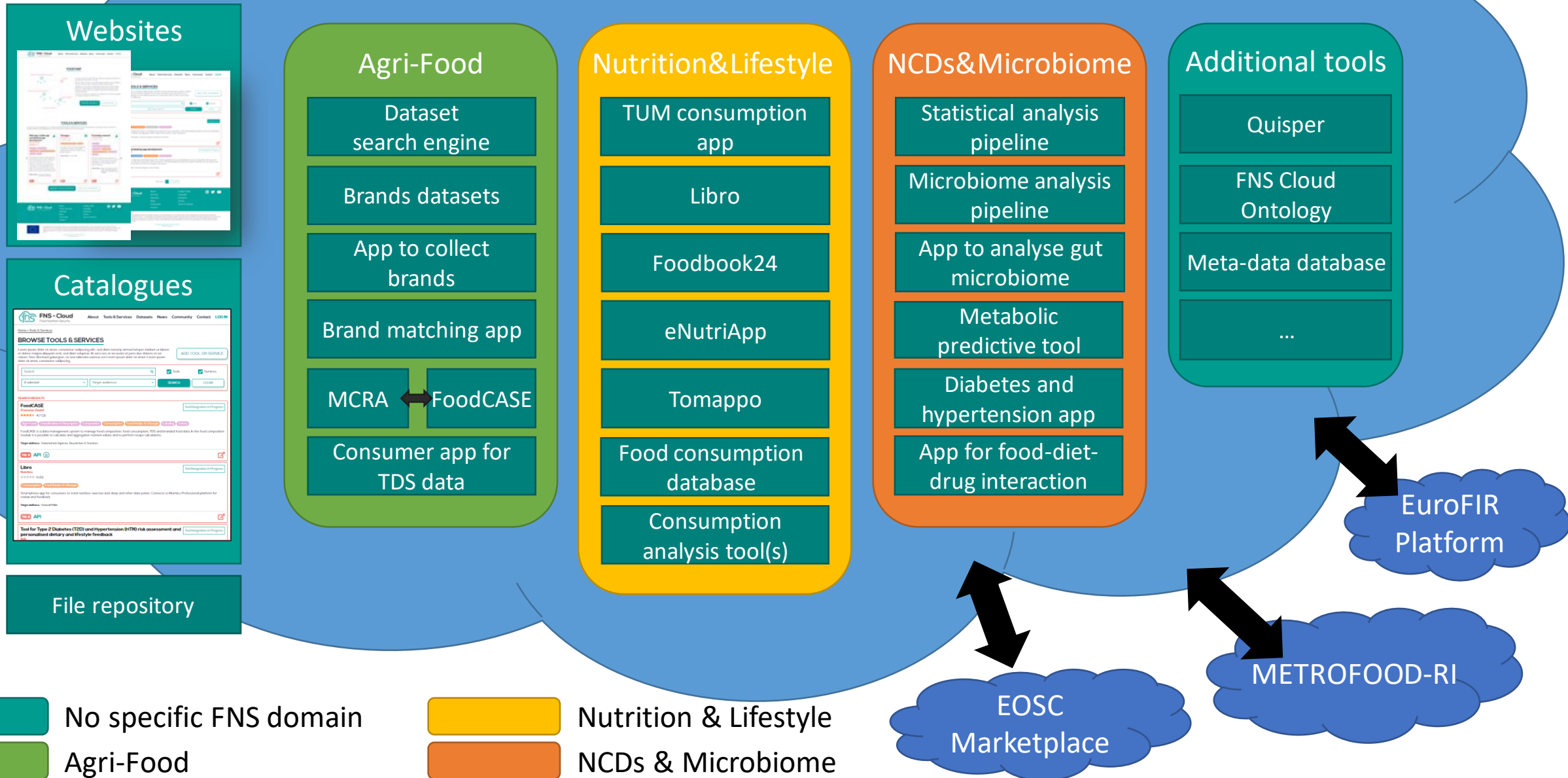
**Complimentary Projects**  
Precious  
iFAAM  
REFRESH  
SUSFANS  
Comfocus



**Networks**  
NUGO  
EuroFIR  
MoniQA  
TDS MCRA  
FNHRI  
EU Menu

Public-private

Health



# Key Project Outcomes



List of generated and further improved tools, datasets and other resources



FNS Cloud Catalogues, myFNSCloud (CoP), FNS Cloud website (MVP)



High degree collaboration within and across beneficiaries (OA scientific publications, tools, data)



Interoperability across data & tools as shown by the Demonstrators



D&C materials for end users: videos, training materials, user manuals, guidelines (MVP)



FNS Harmony Ontology and proposed domain experts (MVP)

# Contribution to EU Missions



## Mission 1: Adaptation to Climate Change

- Experimental fields/farms help to investigate impacts on nutrient and contamination contents in food
- Infrastructure for consumption studies helps to discover changing nutritional patterns caused by climate change (taste, price, availability)

## Mission 2: Cancer

- Food-and-drug knowledge base help improve the quality of life for patients and their families

# Contribution to EU Missions

## **Mission 3: Restore our Ocean and Waters**

- Infrastructure for consumption studies, food waste, nutritional quality and contamination help to understand the problem and to find feasible solutions
- Communication of over-fishing and “mono-culture nutrition” informs consumers who then can contribute by buying food responsibly
- Infrastructure for food quality helps to understand benefits of bio-diversity for human nutrition
- Infrastructure for food contamination helps to understand how ocean and water contamination accumulates in seafood products

## **Mission 4: Climate-Neutral and Smart Cities**

- Data infrastructure can help to make food supply chains smarter
- Seed exchange and menu planning support citizens in “balcony gardening” and optimising nutrition



# Contribution to EU Missions

## Mission 5: A Soil Deal for Europe

- Unhealthy soil -> unhealthy food
- Experimental fields/farms help to investigate contamination uptake and contamination resistance

# Thank you for your attention!

## Acknowledgements



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### FNS-Cloud Partners



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