EU Food Safety Platform

2-3.12.2024

Rome

EU FOOD SAFETY FORUM

Supporting the Food Safety Systems of the future

2-3.12.2024

Rome

www.foodsafety4.eu

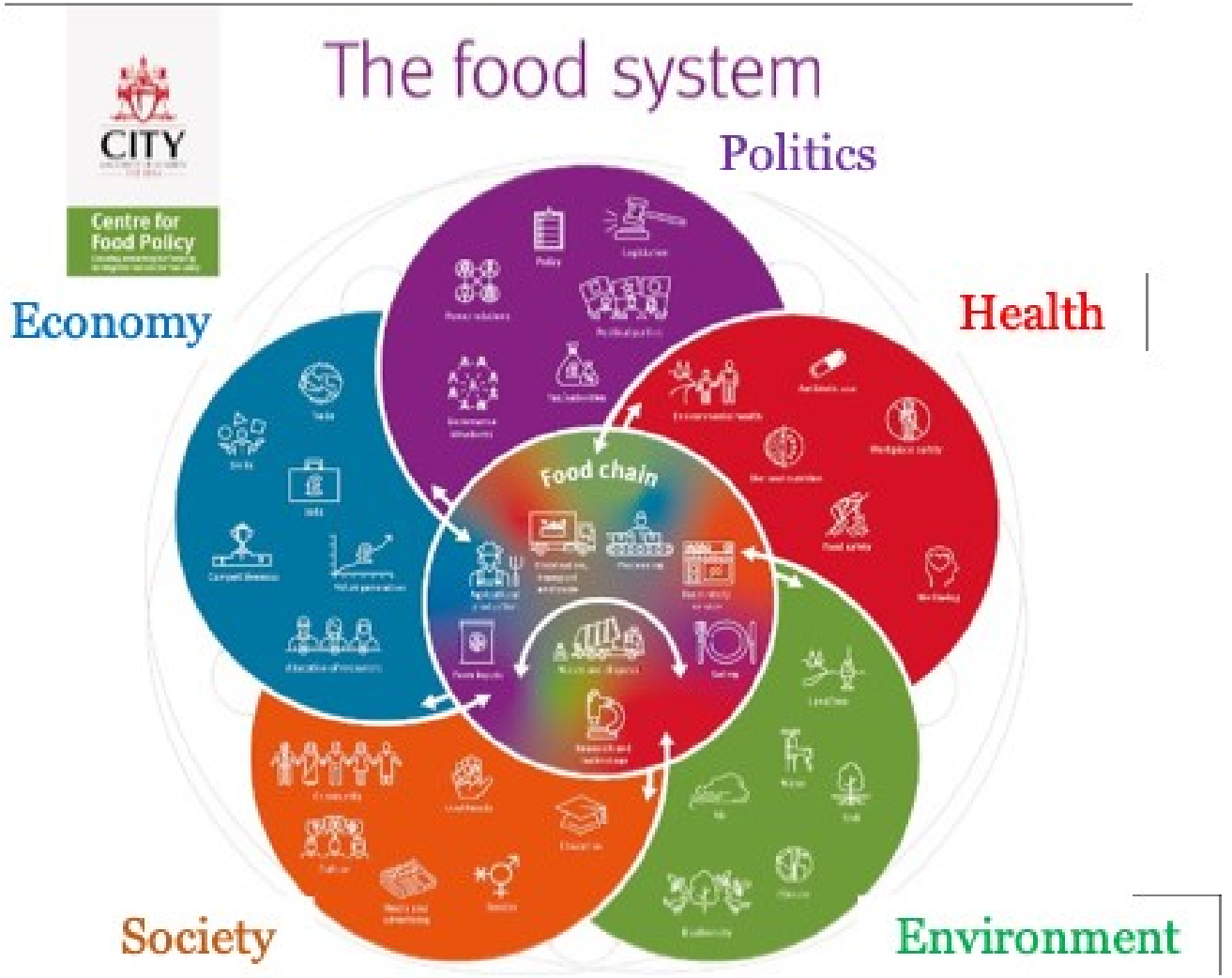
MYcotoxin MAnagement platform To face Climate change impact on food safety and human Health

MYMATCH

Paola Battilani, Università Cattolica del Sacro Cuore

EU Food Safety Platform is funded by FoodSafety4EU project (Grant Agreement No.101000613)

Food system approach



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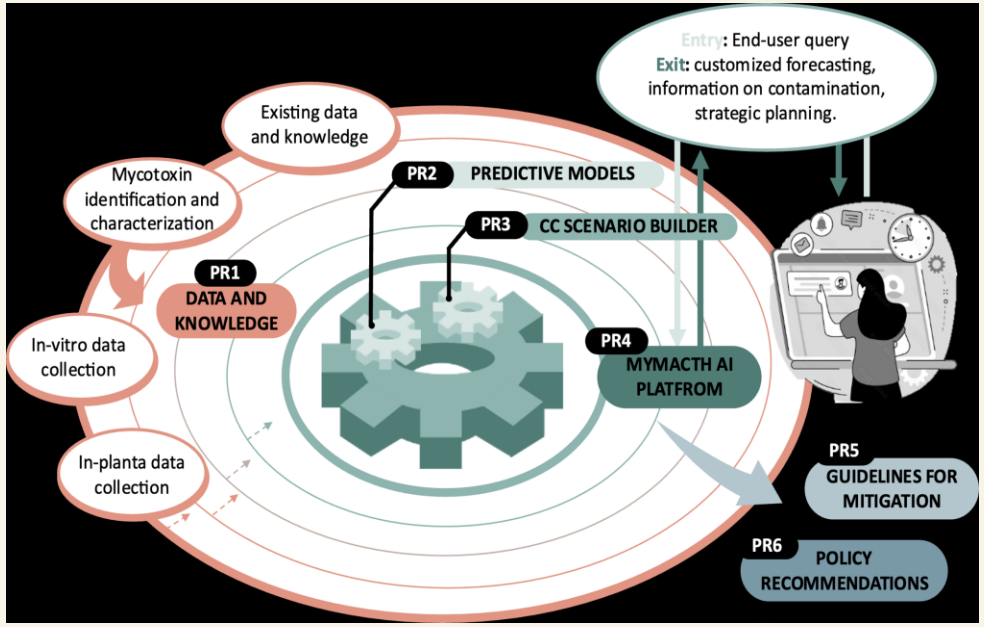
MYMATCH CONCEP SCHEME



- To develop and implement an **AI**-powered predictive **DSS-platform tool** relying on accurate **climate change scenarios** to anticipate the increase in **MY occurrence** in the European food systems.

- **The support** will be targeted to **farmers**, **food industries, and policymakers** with **MY occurrence risk prediction** scenarios, updated **mitigation approaches, and risk assessment** to undermine **food safety threats** caused by CC-induced MY exposure.

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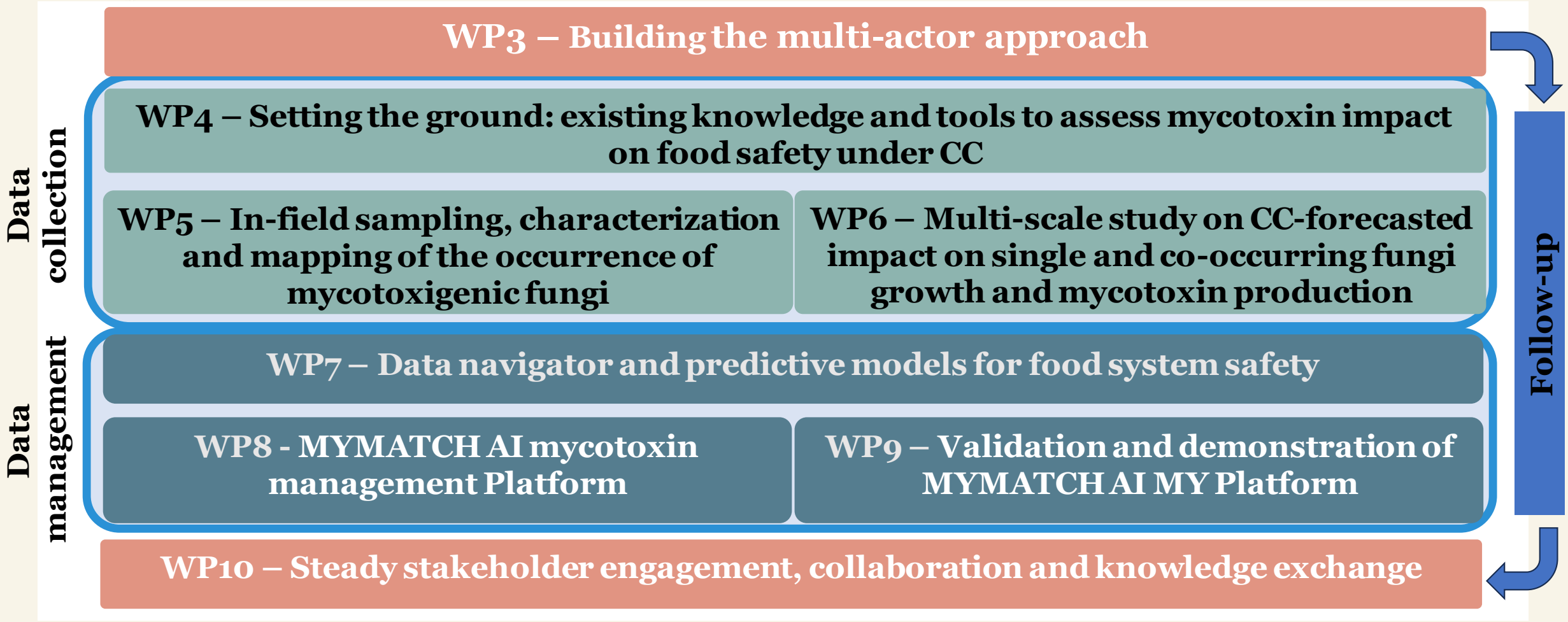

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WP4 – Merging and critically analyse existing data

- conducting an **extensive literature review** to gather relevant data andmethodologies for integration into MYMATCH
- collation and review of national/European **databases on MY occurrence**
- evaluation of **rapid on-site detection methods** throughout the food production chain
- development of **exposure scenarios** under **various dietary habits**

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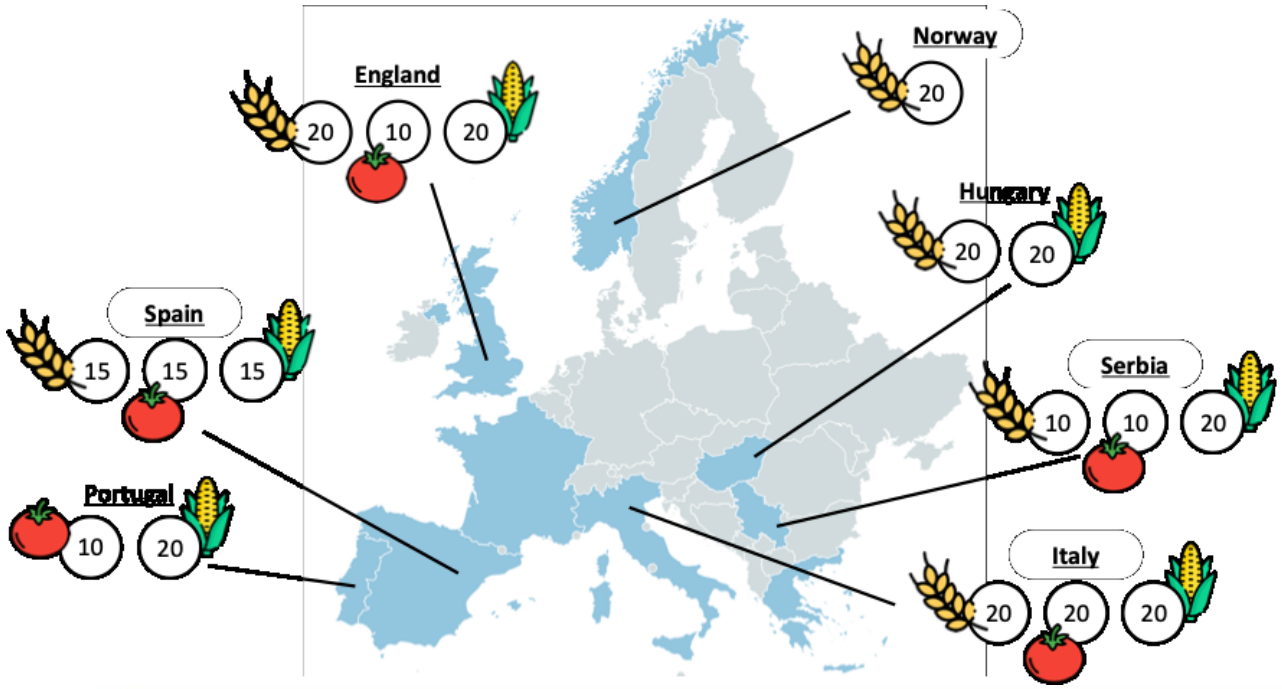
WP5 **Field**: fungi and mycotoxin data collection (molecular characterization)

WP6 **Multi-scale**: CC impact on single and co-occurring fungi growth and mycotoxin production



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WP7 – Data navigator and predictive models for food system

Improvement in mycotoxin forecasting through:

- collection & generation of **agro-climate data**
- setup of accurate and specific **CC scenarios**
- Improvement/development of mechanistic **predictive models** accounting for diverse MY occurrence in selected food systems

WP8 - MYMATCH AI mycotoxin management

WP9 – Validation and demonstration of MYMATCH

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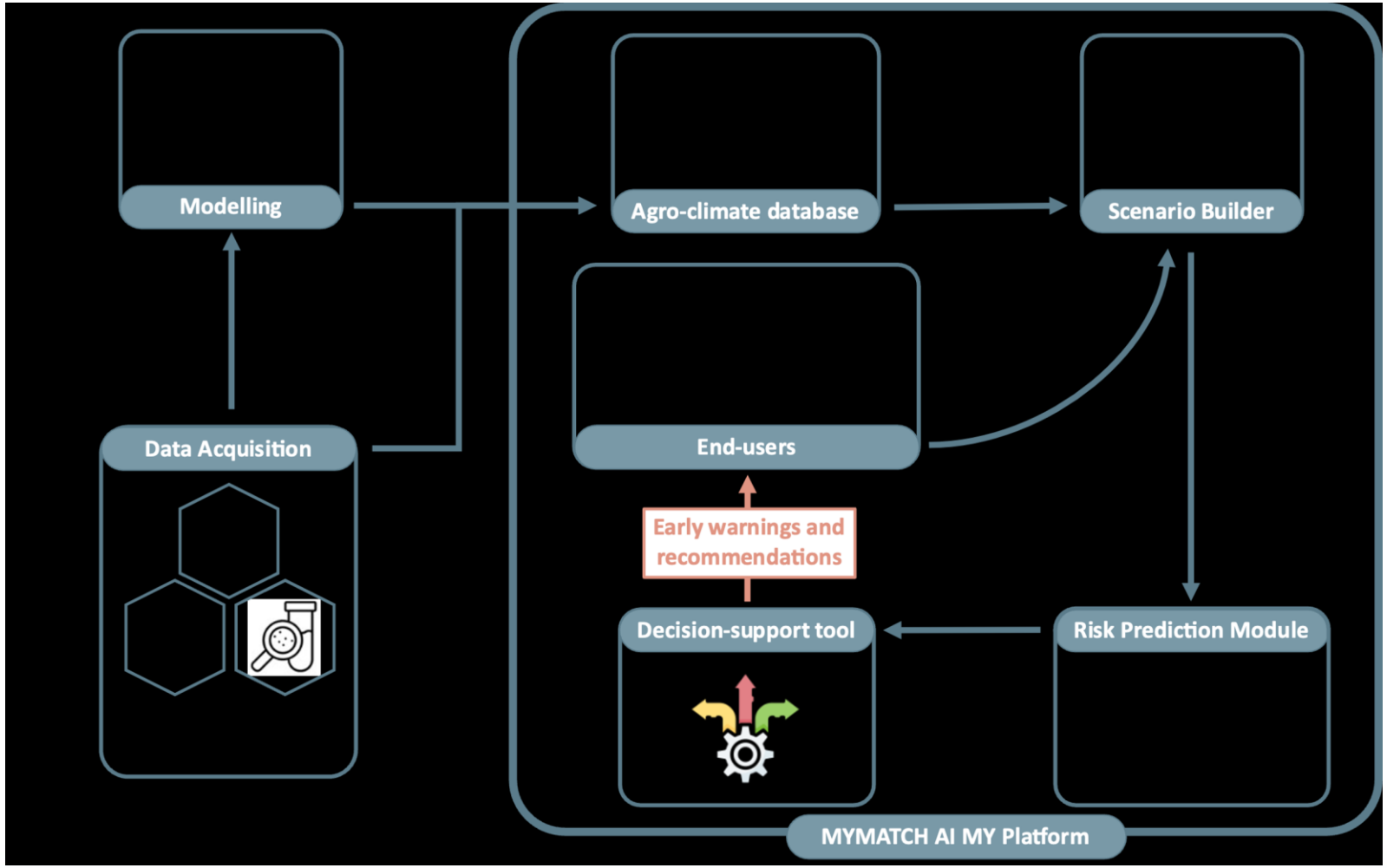

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WP3 – Building the multi-actor approach

- Establishing/maintaining an **dialogue with relevant stakeholders**
- Defining the **requirements of end-users** for MY management under CC
- Co-designing the **MYMATCH AI MY Management Platform**
- Establishing collaborations with the **FS4EU** Platform and other EU projects.

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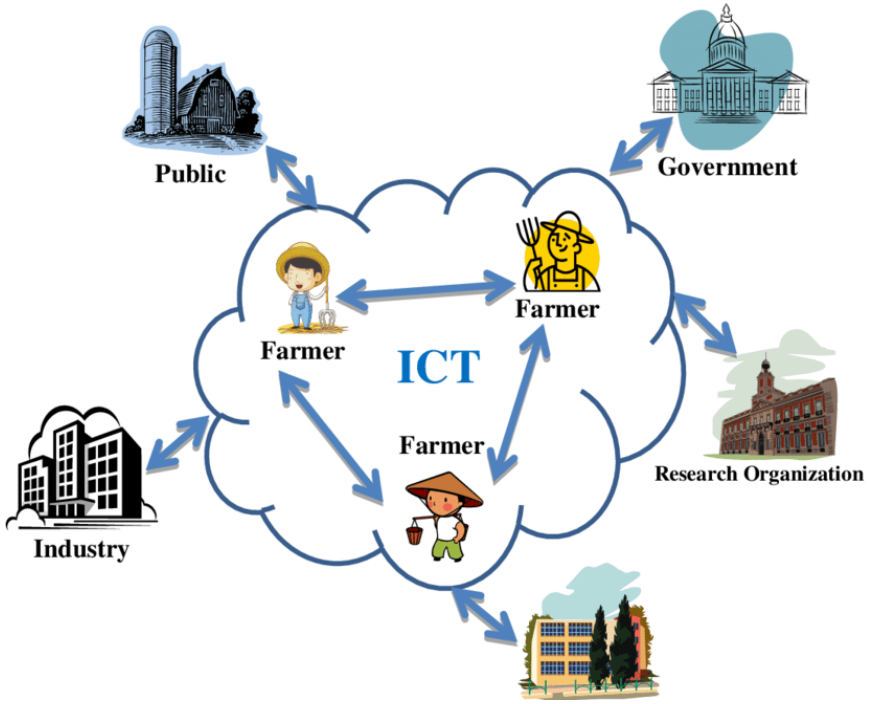
WP10 – Steady stakeholder engagement, collaboration and knowledge exchange

- Promoting **stakeholders'** engagement/collaboration (*double-direction info flow)*
- Providing **guidelines for MY mitigation** in the food systems under CC
- to compare **MYs co-exposure scenarios** for different **population targets**
- to engage with **public bodies and policy-makers** (*support regulatory*)



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THANK TO ALL

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