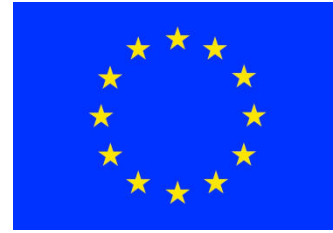


anses
French agency for food, environmental
and occupational health safety



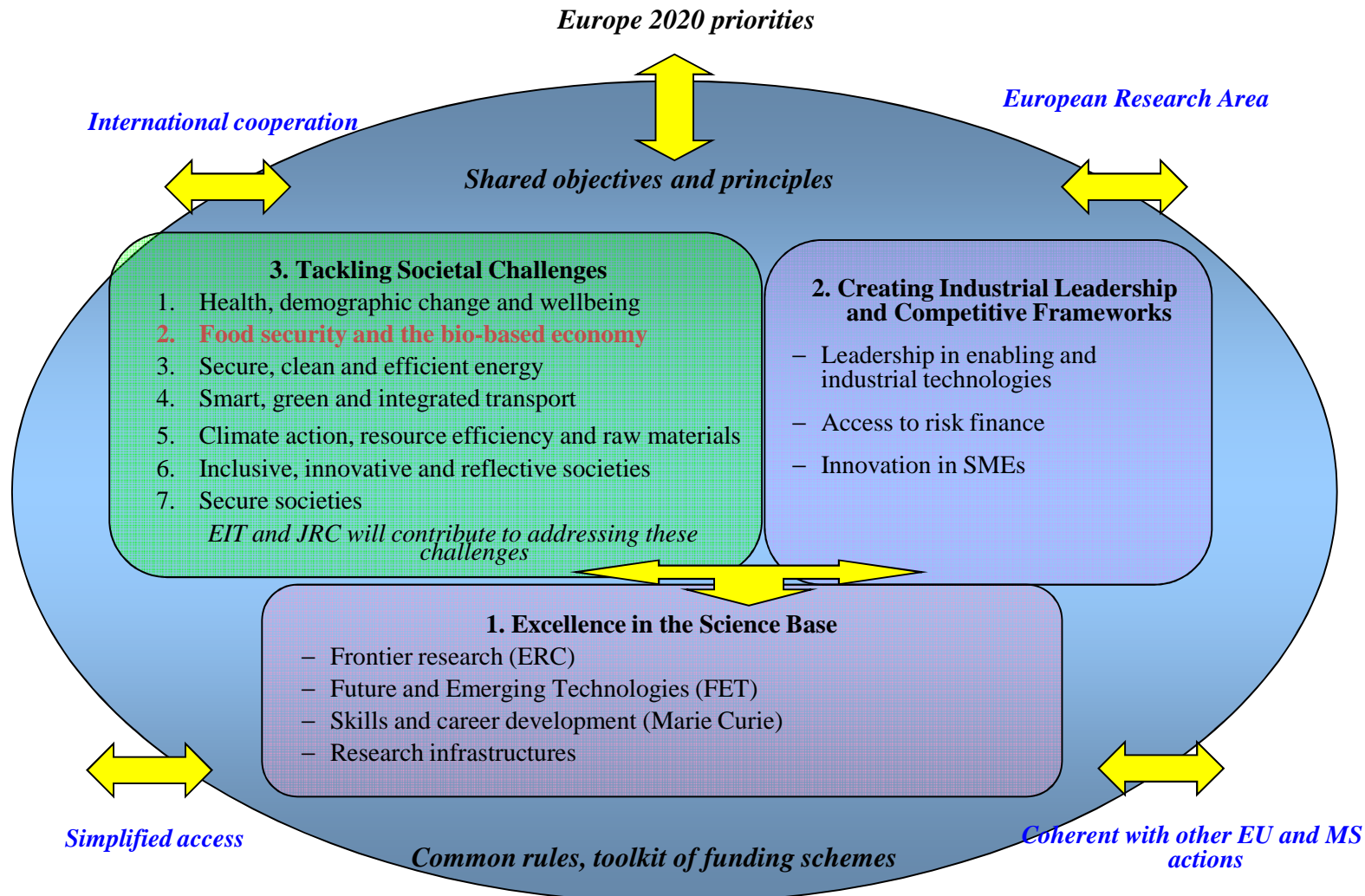
EURL for *Lm*

European Union Reference
Laboratory for
Listeria monocytogenes

Involvement of EURL *Lm* in the European project **COMPARE**

Sophie ROUSSEL, SEL Unit

Horizon 2020 - Objectives and structure



COMPARE project :

-Collaborative Management Platform for detection and Analyses of (Re-)emerging and foodborne outbreaks in Europe

-Coordinator : DTU-Food, (Franck Aarestrup's team)
01/12/2014-30/11/2019 (60 months)

-29 European partners :

-Anses : ; Unit SEL (EURL for *Listeria monocytogenes* , *Salmonella*, *E. coli*) ; Anses WGS platform (Ploufragan, Brittany)

-15 Work packages

- Face-to face meeting : 11-12 March 2015, Copenhagen

Similar aims to those targeted by GMI (Global Microbial identifier)
www.globalmicrobialidentifier.org

COMPARE - aims :

- ❑ **To promote** development and deployment of novel applications, data sharing and analysis systems across the diversity of pathogens, domains and sectors.
- ❑ **To improve** rapid identification, containment and mitigation of emerging infectious diseases and foodborne outbreaks,
- ❑ **To develop** a cross-sector and cross-pathogen analytical framework and globally linked data and information sharing platform,
- ❑ **To integrate state-of-the-art strategies**, tools, technologies and methods for collecting, processing and analyzing sequence-based pathogen data in combination with associated (clinical, epidemiological and other) data,
- ❑ **To generate actionable information** to relevant authorities in the human health, animal health and food safety domains;

Items covered by COMPARE - Partners

Human Health ; Animal health ; Food safety ; Viruses ; Bacteria ; Protozoa

1. DTU , DK : Veterinary /food bacteriology, Bioinformatics Meta-genomics
Foodborne pathogens, Risk Assessment, Risk modeling, Foodborne virus
2. EMC , NL: Public health epidemiology, Molecular virology, Comparative pathology, bioinformatics
3. SSI , DK : Public health epidemiology, Foodborne pathogens
4. FLI , DE : Veterinary Virology/Zoonoses, Epidemiology, Databases, Data analysis and curation, Next generation sequencing
5. ANSES , FR: Molecular bacteriology, Foodborne pathogens, Epidemiology
6. RKI , DE : Molecular diagnostics, epidemiology, biochemistry
7. ISS , IT : Molecular biology and epidemiology, Parasitology
8. RIVM, NL : Veterinary virology, epidemiology
9. AHVLA , UK : Veterinary bacteriology and virology, bioinformatics, epidemiology, risk assessment modeling

Partners

11. UEDIN , UK : Epidemiology, pathogen evolution
12. UK- Bonn (DE) Virology, molecular diagnostics, virus evolution
13. AMC , NL: Microbiology, bacteriology, clinical diagnostics
14. UA , BE : Microbiology, bacteriology, clinical diagnostics
15. Artemis, NL : Virology, wildlife health, virus discovery
16. UCAM , UK : Mathematical modeling, pathogen evolution
17. TIHO , DE : Veterinary pathology
18. UCLM, ES , : Wildlife health
19. FMER , FR : Microbiology, pathogen discovery
20. AUTH , GR Microbiology, molecular epidemiology, veterinary virology
21. IFREMER , FR : Molecular bacteriology
22. EUR , NL : Epidemiology
23. ANU , AU : Epidemiology
27. UNIBO , IT : Veterinary & food bacteriology
28. DSMZ , DE : Bacterial population genomics
29. Sanger , UK : Genomics, molecular microbiology

WP2 – Harmonised standards for sample processing and sequencing

To develop harmonized analytical workflows for generation of high quality NGS data in combination with relevant metadata for pathogen detection and typing across sample types , pathogens and domains

- sample handling, sample processing, sequencing protocols, sequence curation, storage...
- Historic and prospective biobanks as reference
- Develop a scheme for ring trials and external quality assurance systems