

## PARTNERS

### INSA – NATIONAL HEALTH INSTITUTE DOUTOR RICARDO JORGE

The National Institute of Health Dr. Ricardo Jorge (INSA) is a public body integrated in the indirect administration of the State, under the supervision of the Ministry of Health, endowed with scientific, technical, administrative and financial autonomy. INSA is organized, in technical-scientific terms, in six large departments: Department of Food and Nutrition, Department of Infectious Diseases, Department of Epidemiology, Department of Human Genetics, Department of Health Promotion and Prevention of Noncommunicable Diseases and Department of Environmental Health. Department of Food and Nutrition (DAN), is in charge of METROFOOD-RI.

[www.insa.pt](http://www.insa.pt)

### FCT NOVA – FACULTY OF SCIENCE AND TECHNOLOGY

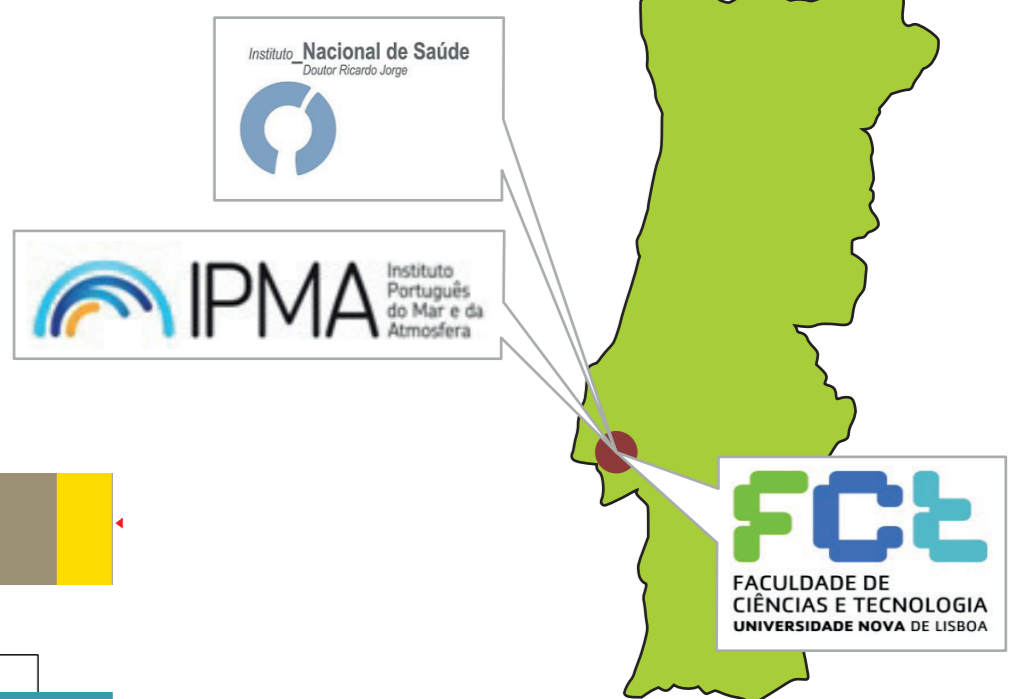
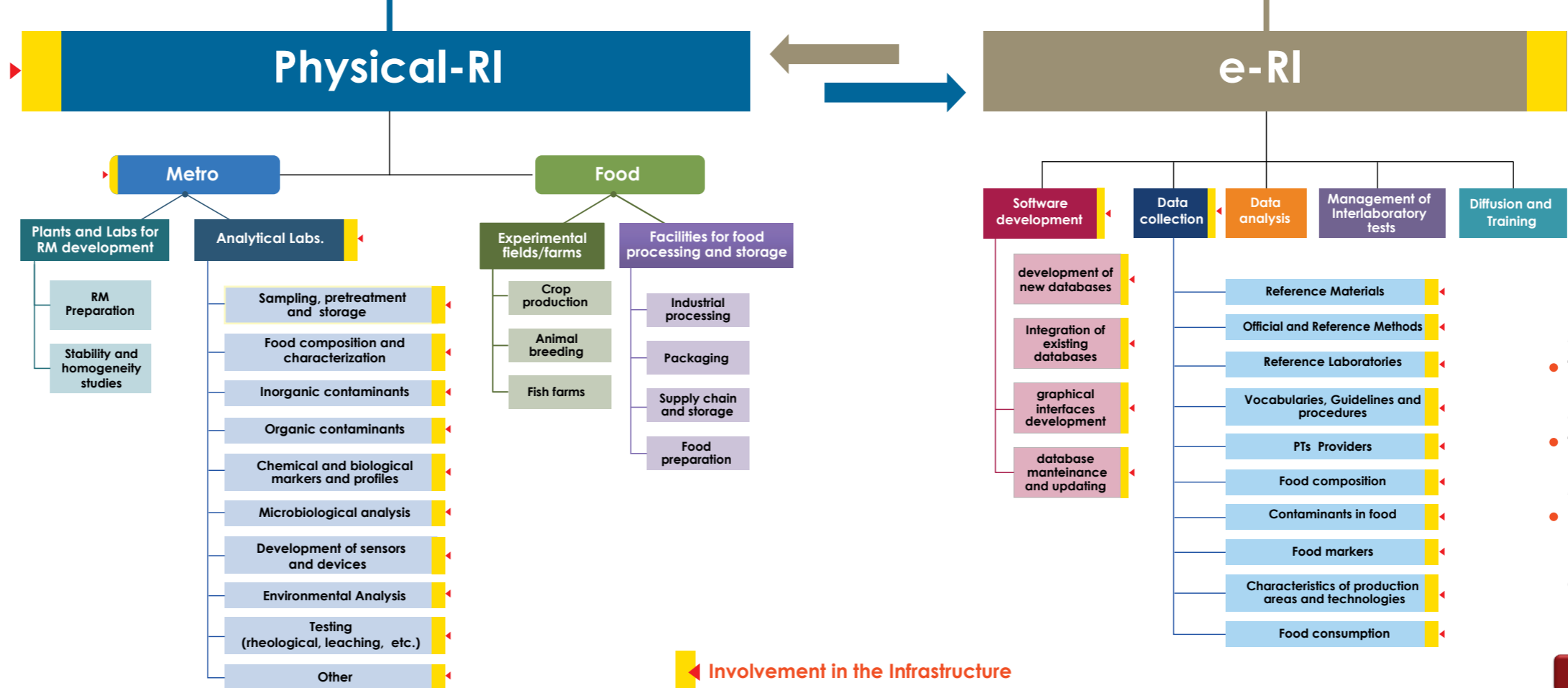
FCT NOVA founded in 1977, is one Portuguese public schools of science and engineering, with a total enrolment of 8000 students (Degree, MSc and PhD). UNIDEMI (Research and Development Unit for Mechanical and Industrial Engineering). The scientific research services provided by UNIDEMI, regarding Industrial Engineering and Mechanical Engineering competences, are quite well demanded by companies, interested in developing scientific application projects in product design, prototyping, supply chain design, lean six sigma, ergonomics, industrial simulation, production management, logistics and warehousing, technology development and metrology in food.

[www.fct.unl.pt/en](http://www.fct.unl.pt/en)

### IPMA – PORTUGUESE INSTITUTE FOR SEA AND ATMOSPHERE

IPMA, I.P. is a public research institute devoted to carry out research, technological development, innovation, services and dissemination activities on sea and atmosphere. The METROFOOD team belongs to the Aquaculture and Upgrading Division (DivAV) has expertise in seafood quality and safety being the national reference laboratory for bivalve mollusc microbiological quality and for chemical contaminants in farmed fish species. DivAV team has also a deep expertise in making use of biotechnological processes and innovative technologies to obtain new nutritional marine products and biomolecules with several applications.

[www.ipma.pt](http://www.ipma.pt)



#### Pre-existing value:

• tot. 1.885 k€

#### Involved researchers:

• tot. 21 units (2,4 FTE)

#### Research Areas:

• Food Composition, Applied Nutrition, Food safety, Food Toxicology, Risk assessment in the food chain and Food and health promotion.

#### MINISTERIAL SUPPORT

National Research Council,  
FCT Ministry of Science and technology

## Physical Facilities

### Analytical Labs



The facility of INSA involved in METROFOOD-RI is the whole Department of Food and Nutrition (DAN). The main facilities are composed by three Analytical labs: a Chemistry lab, a Microbiology lab and a Reference Materials lab, divided in six areas: Food Composition, Applied Nutrition, Food safety, Food Toxicology, Risk assessment in the food chain and Food and health promotion.

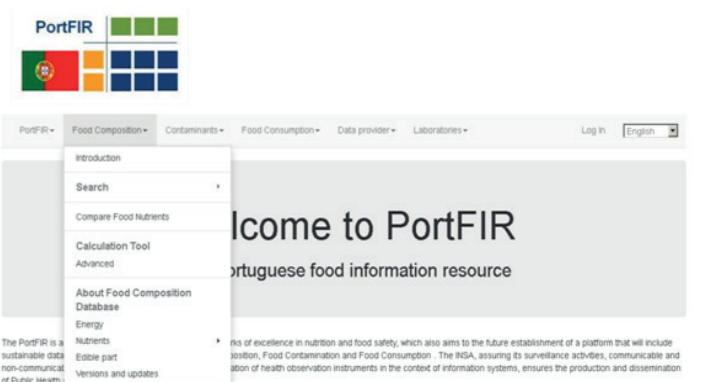


#### ANALYTICAL CAPACITIES

OTHER ANALYTICAL CAPACITIES	MATERIALS		AGROECOSYSTEM				NUTRITION		AUTHENTICITY TRACEABILITY				FOOD QUALITY				FOOD SAFETY																	
Other	Plastic materials		Air pollution W & dry depositions Biodegradation Bioaccumulation Metals				Soils and sediments characterization Surfaces and groundwater quality characterization		Proteins and amino-acids Vitamins Carbohydrates Fatty acids Other		Genetic markers Metabolic profiles Elemental profiles Rare Earth Elements Sensory profiles Trace elements Non target analysis Isotopes of heavy elements Isotopes of light elements				Microbiological analysis Autofluorescence Other Biocatalytic compounds Biocatalytic compounds Biological analysis Physico-chemical analysis Nutritional quality Organoleptic properties Radioactivity Other				Food contact materials (migration) GMO Pathogenic micro-organisms Nanomaterials Biogenic amines Biocides Hydrocarbons Phenols Phenolics Foodborne viruses and Prions Other toxins (mycotoxins, aflatoxins, etc.) Adaptogens Other Chemical speciation Pesticides VOCs Veterinary drugs Mycotoxins Other toxins (neurotoxic, carcinogenic, etc.) Aflatoxins Adaptogens Other															

## Electronic Facilities

### Software



INSA has available an internal resource (software) named FoodCase.

The domain of this software is at the moment Food, but soon it will have also metro domain. In the food domain, INSA dispose of Food composition, Contaminants in food, Primary production (environment, technology), Food processing technologies, Food contact materials, Food storage technologies, Food preparation practices, Food consumption, Total diet study, Risk assessment, Guidelines and procedures and Terminology.

► Data Base / Data Calculation

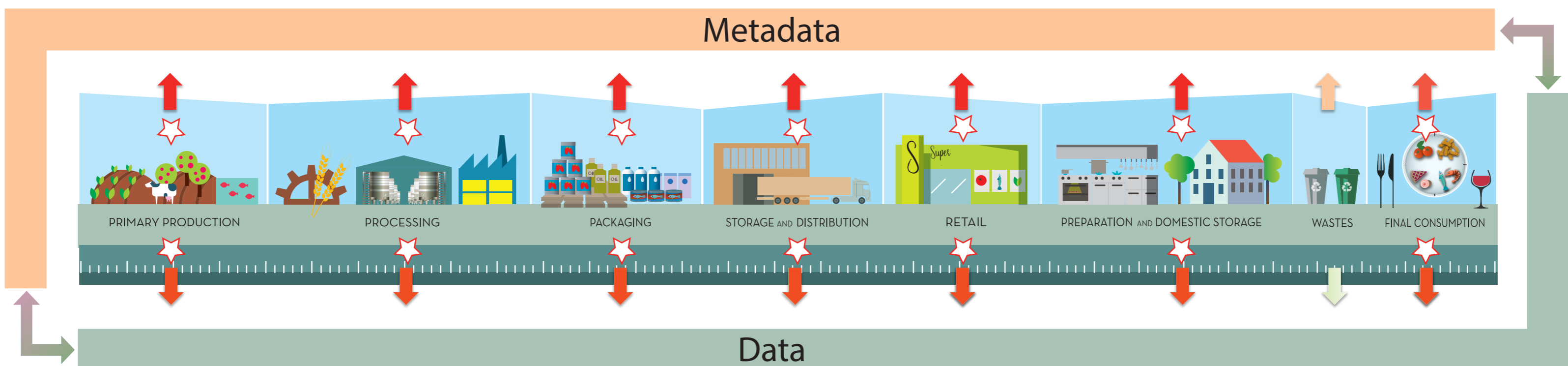
► Calculation / Data Processing

► Modeling / Data Integration

► E-learning platforms

► Other e-facilities

### Food Chain Data



### Food Quality & Safety Data



METROFOOD-PP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871083.



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