Development of a digital food supply network with consumers and industry as equal partners

EIT Food

CLC North-East

RIS@eitfood.eu

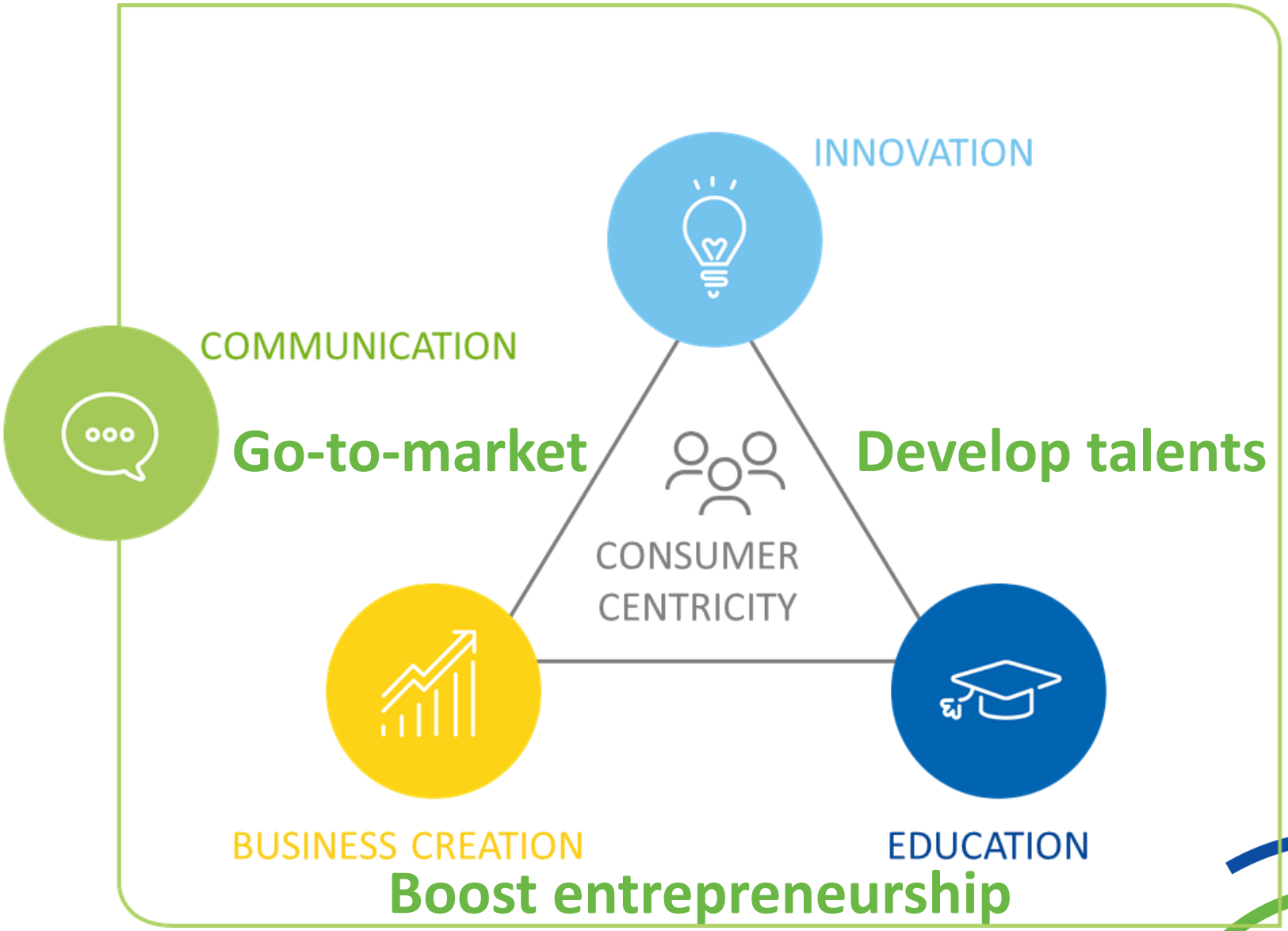
EIT Food is supported by the EIT
a body of the European Union

Marcin Kardas Budapest, April 4th, 2018

Challenges	Objectives
Low consumer trust & transparency	Overcome low consumer trust
Distorted nutritional habits	Create consumer-valued food for healthier nutrition
Sustainability	Enhance sustainability through resource stewardship
Fragmented supply chain	**Build a consumer-centric connected food system**
Skills gap	Educate to engage, innovate and advance
Limited entrepreneurial culture	Catalyze food entrepreneurship and innovation

Mission

EIT Food's mission is
to catalyse the transformation of the food system
and effectively meet the global food sector demands
of present and future generations
by building, managing and empowering
a sustainable and trusted multi-stakeholder community
with a central role for the consumer.


INNOVATION
COMMUNICATION
Go-to-market
Develop talents
CONSUMER
CENTRICITY
BUSINESS CREATION
EDUCATION
Boost entrepreneurship

The EIT Food community

Core partners:
- Industry
- Higher education
- Research

RisingFoodStars
- Start-ups

Network partners:
- Civil society
- Regional and public authorities

5 Co-location Centers (CLCs):

Leuven, Reading, Madrid; Munich; Warsaw

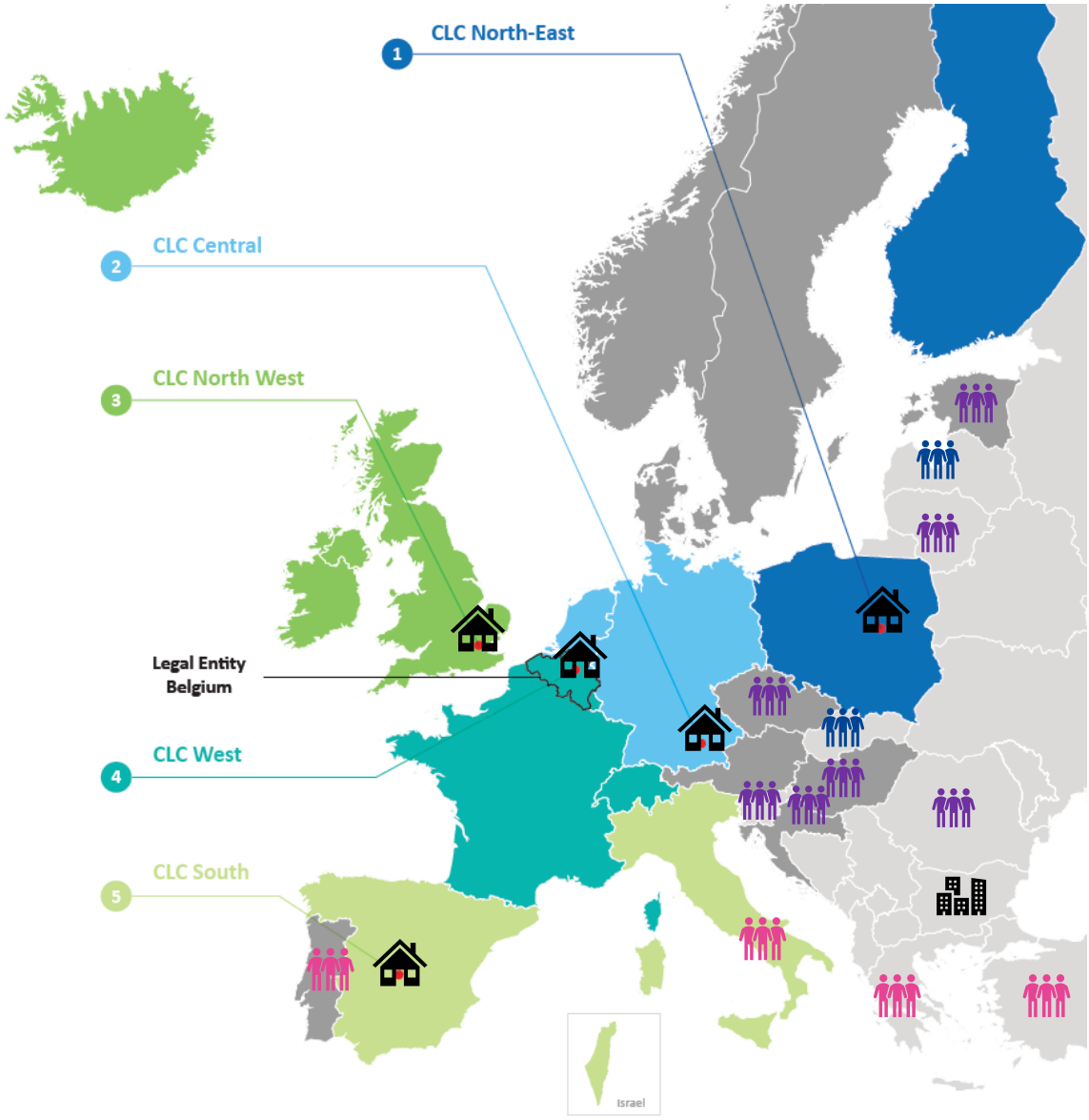
4 CLC South Hubs (2018):

Portugal, Italy, Greece, Turkey

7 CLC North-East Hubs (2018):

Croatia, Czech Rep., Estonia, Hungary, Lithuania, Slovenia, Romania

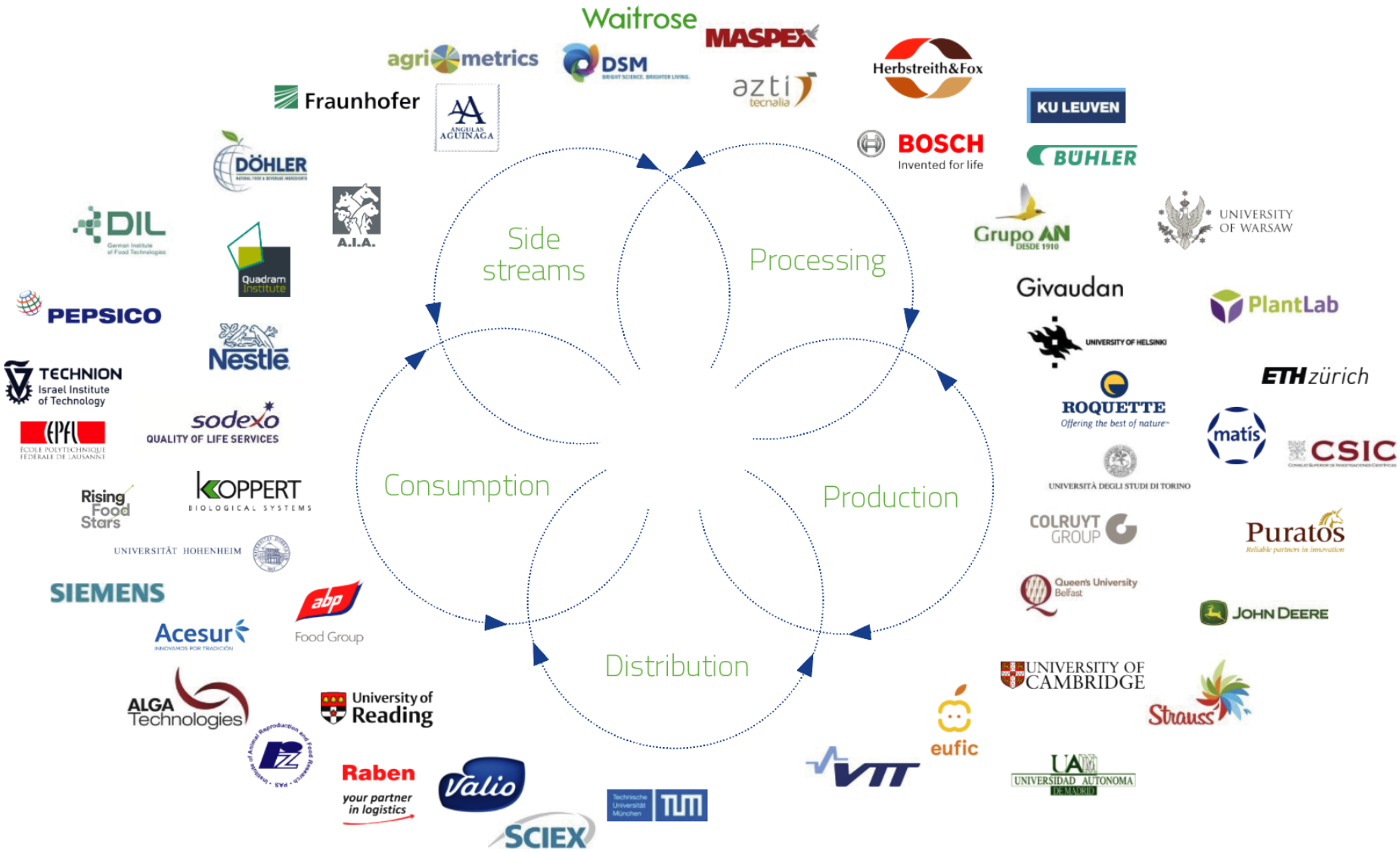
Latvia, Slovakia (2019)



Cross-hubs: Bulgaria

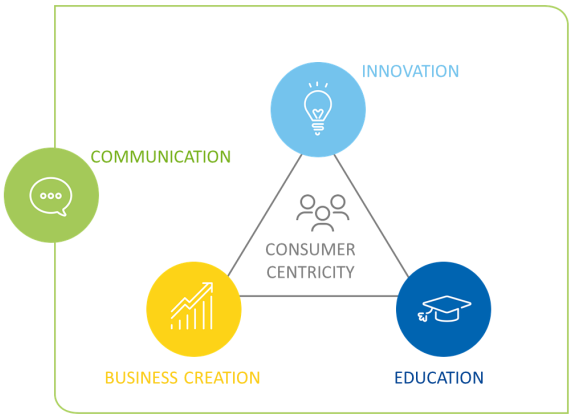
EIT Food partners:

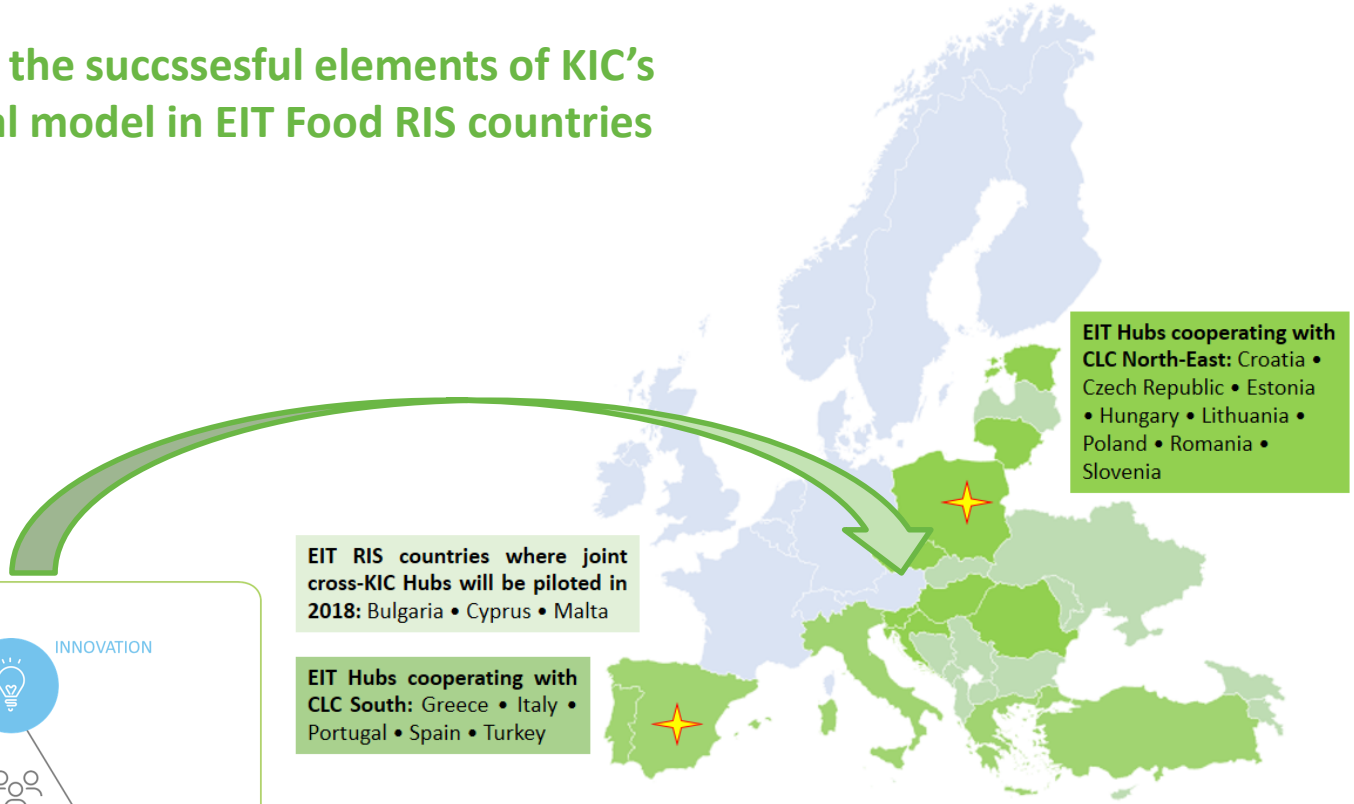
transforming our food system together



EIT Food RIS Strategy, 2018-2020

Replication the succssesful elements of KIC's operational model in EIT Food RIS countries





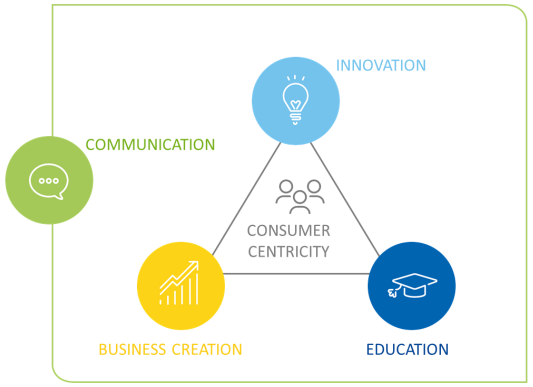
EIT Hubs cooperating with CLC North-East: Croatia • Czech Republic • Estonia • Hungary • Lithuania • Poland • Romania • Slovenia

EIT RIS countries where joint cross-KIC Hubs will be piloted in 2018: Bulgaria • Cyprus • Malta

EIT Hubs cooperating with CLC South: Greece • Italy • Portugal • Spain • Turkey

EIT RIS countries eligible for selected EIT Food instruments: Albania • Armenia • Bosnia and Herzegovina • Faroe Islands • Georgia • Latvia • Macedonia • Moldova • Montenegro • Serbia • Slovakia • Ukraine

eit Regional Innovation Scheme



Complementarities of EIT Food pillars and EIT Food RIS instruments (2018)

Innovation

- Expert Community
- Talents (2019)

Education

- Fellowships
- Food Government Executive Academy
- Summer School

Business creation

- Innovation Scouting
- Innovation Grants
- Demo days

Communication

- RIS Events

Start-up club ‘RisingFoodStars’

Rising Food Stars

- Peptide-receptor modelling (Nuritas)
- Sugar reduction (RouxMatok)
- IoT enabled nutrition shaker (fitto)
- Biotechnology (N-Zyme)
- Platform for reducing food waste (Foller)
- Big data management (Analytics Engines)
- 3D food printer
- Pod-based machine for baking (flatev)
- Flavour Pairing Algorithms (Big Data) (FOODPAIRING)
- Nutrition portal (FOODMAESTRO)
- Local micro farm to consumer (MON POTAGER)
- PEF Systems to increase nutrition
- Sustainable packaging (TIPA)
- Big Data Poultry Farm Management (Porphyrio)
- High pressure homogenization tech
- Advanced crop analytics (GAMAYA)
- 3D Plant phenotyping (PHENOSPEX)
- Satellite based farm management (GeoPulse)
- Agri-food microbiology (microbion)
- Solar panels (Brite)
- Personalized Nutrition (DAY TWO)
- Proteïn from insects (PROTIX)
- Lupine as proteïn & dairy alternative (PROLUPIN)
- Liquid oat ingredients (GLUCANOVA)
- Food waste into biodiesel (entomics)
- Recycling spent coffee grounds (bio-bean)
- Online marketplace (Rethink Resource)
- Smart cooking device & app (eskesso)
- Hand-hold spectrometer (tellspec)
- Home Farming for Superfoods (GreenOnyx)
- Home appliance for vertical farming (agrilution)
- Health, nutrition & fitness app (BeYou)
- AI for smart shopping (AI talentum)
- Pulsed Electric Field Systems (elea)
- Vegetable proteïn (YASO)
- Tech for safety in plastic products (Morphotonix)
- Beacon hard- & software (kontakt.io)
- High-speed cereal diagnostics (QualySense)
- AgTech - soil and water sensors (cropx)
- Big Data for farming (GRAINSENSE)
- Biosensors & Nanotoxicity (nanoimmunotech)
- Egg gender identification (INOVO)
- Smart weeding (ecorobotix)

Why do we need digitalisation and ICT in food system?

- to move faster and to map critical supply chain issues, reduce waste, and improve risk control
- to become active agents with full transparency on ingredients and origin of the food products and allow for the early detection of potential threats
- to enable innovations including precision farming, controlled-environment agriculture, livestock management, contamination detection and the IoT in agri-food industry

Examples of EIT Food activities

Digital food supply chains - EIT Food Summer School 2018

Closing the gap between digital technologies and Europe's food supply chain i.e. digital technologies, entrepreneurship and innovation and food supply chains and sustainability

Examples of EIT Food activities

Digital Twin Management

Fraunhofer

Givaudan

SIEMENS

Strauss

Technische Universität München

Software for the management of „digital twins" for food products

- synchronization of data collected from the physical object with its digital twin
- consistent management of the distributed storage of data in e.g. clouds, local servers at different suppliers or RFID chips
- management of data access and configuration of the access rights, e.g. for a Digital Food Passport

Innovate with us!

EIT Food is supported by the EIT
a body of the European Union

RIS@eitfood.eu