# SMART FOOD CHAIN A

Developing and implementing effective smart packaging technologies to restructure conventional food supply chains. Food supply chains have come under increased scrutiny in recent years. Food safety, food security and waste reduction in food as well as in packaging are now central issues which have to be addressed at every stage. New smart packaging technologies can offer vital data all along the value chain, to ensure stakeholders make the right decisions at the right time. AIPIA and its partners will bring together a group of experts from **every stakeholder in the chain** in order to develop a complete new supply chain.

- Generate and better use of **data** generated by smart packaging
- Use of (active) and sustainable packaging to increase **shelf life** 
  - Integration of **sensors** for better quality control









# **The Smart Food Chain**

### Goal & funding scheme

### Goal

The goal of the Smart Food Chain project is to develop and integrate the following technologies:

- Sensors & condition indicators
- Connectivity components & modules
- An interoperable data system
- Advanced data-analytics for supply chain management

The Smart Food Chain aims to significantly reduce food loss throughout the supply chain, improve overall food quality and safety and provide end-to-end traceability.

### In accordance with the European Roadmap

Our goal directly coincides with the aim of the Electronic Components and Systems (ECS) Strategic Research and Innovation Agenda (SRIA), which is the main subject for a European (Chips-JU) subsidy call. On the next slide an overview is found of the envisioned technological developments (top) of the Food supply chain (middle) with the expected results (bottom).



# Consortium





### **Project Scope**



# Work packages







# **Envisioned Smart Food Chain**



![](_page_6_Picture_0.jpeg)

# Planning

		M1-6	M7-12	M13-18	M19-24	M25-30	M31-36
		D	Develop	1	est	Imp	lement
WP1	Demo Description & Requirements						
	Demonstration in food supply chain						
							<u>Î</u>
WP2	Development of sensor						
	Prototype		P	rototype 1	Prototype 2	₽¦	
	Testing					Ì	
					1		
WP3	Development of equipment						ļ
	Prototype		F	rototype 1	Prototype 2	<b>∼¦</b>	
	Testing					ì	
WP4	Development of data system						
	Integration				<b>▼</b>	Lj	
	Operational SFC					T	*
WP5	Development of data analytics				¥		
	Virtual supply chain testing						
	End to end supply chain analysis						$ \rightarrow $
WP6&7	Project management						
	Dissemination and ecosystem dev.				_		

![](_page_7_Picture_0.jpeg)

## **Funding** Subsidy Program: Chips-JU

### The proposal will be submitted in the Chips-JU program

- Chips-JU is the new name for the existing Key Digital Technologies-JU program from 2024
  - Focus of the program remains hardware & software innovation
- Total available subsidy for the Global SRIA call (IA) =  $\in$  103M EU + member state financing ~  $\in$  200M

### Chips-JU info

- Countries: EU + Israel, Iceland, Norway and Turkey
- Project size: €10M €100M (we aim for 40M total budget with 20M subsidy -> ~ 1M budget per partner)
- Duration: ~ 3 years
- Deadlines
  - Project outline 14 May 2024
  - Full proposal 17 September 2024

![](_page_8_Picture_0.jpeg)

# Funding

### Subsidy percentages for the Chips-JU

Subsidy percentages Chips-JU	EU RIA / IA TRL 3-4 / 5-8	NL (National) RIA & IA
Large Enterprise	RIA 25% / IA 20%	20%
SME	RIA 35% / IA 30%	30%
Knowledge Institution	RIA 35% / IA 35%	25%

### Example:

A Dutch Large Enterprise, working at TRL 5-8 will receive 40% total funding (20% European + 20% national)

![](_page_9_Picture_0.jpeg)

# **Next steps**

Towards the full-proposal: please try to continue, do not wait!

![](_page_9_Figure_3.jpeg)

![](_page_10_Picture_0.jpeg)

# **Participation conditions**

As shared in the invitation for joining the Smart Food Chain project

The participant hereby agrees with the following:

- 1. Each participant nominates one other party that will join the project.
- 2. Each participant will participate in the AIPIA world congress in Amsterdam (once per year) to present their progress in the project, the costs are eligible for subsidy.

### Per participant the costs are:

- 3. The cost for the Project Outline phase is 3.500 Euro.
- 4. The cost for the Full Project Proposal is 2% "no cure no pay" of the subsidy assigned.
- 5. The costs for Project Management and Valorization (AIPIA) is 3% of the total project costs for that participant.

![](_page_11_Picture_0.jpeg)

# **Management Team**

![](_page_11_Picture_3.jpeg)

# Berenschot

![](_page_11_Picture_5.jpeg)

Initiator, Network Organisation

![](_page_11_Picture_7.jpeg)

Eef de Ferrante <u>eef@aipia.info</u> +31 6 54 33 14 58

Coordinator

![](_page_11_Picture_10.jpeg)

Mark van Boxsel Mark.van-Boxsel@tsystems.com +31 6 11 45 01 87

### Program Management

![](_page_11_Picture_13.jpeg)

Erik Teunissen <u>e.teunissen@berenschot.nl</u> +31 6 53 51 49 01

### Technology advisor

![](_page_11_Picture_16.jpeg)

Dick de Koning <u>d.dekoning@packz.org</u> +31 6 31 01 46 08

![](_page_12_Picture_0.jpeg)

### Berenschot

www.berenschot.nl

linkedin.com/berenschot