

#### Session 1: Visions for the **Transformation of Industrial Parks**



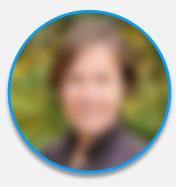
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mplemented by



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Food Processing Initiative e.V.



















#### From industrial park to cluster approach – leveraging synergies for sustainable and digital transition

Norbert Reichl Food-Processing Initiative e.V. 6<sup>th</sup> June 2023 SIA-Conference, Cairo



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#### **Mark Twain**

The secret of getting ahead is getting started.

The secret of getting started is breaking your complex overwhelming tasks into

small manageable tasks, and starting on the first one.



## Short CV

- Diploma in economics, political sciences and economic psychology
- 25 years managing food innovation networks
- Experience with innovation and co-operation projects in the food sector on national and international level
- Married, 2 kids



## Today's menue

FPI – the cluster in a nutshell

Twin transition – our concepts & actions

Twin transition – relevance for SIA development

Brief summary & take home





## **FPI in a nutshell**

- 1996 initiated by Ministry of Economic Affairs of the State of North Rhine-Westphalia / Germany
- November 2000 foundation of association
- Organisation with 118 members
- Networks & projects with regional, national and international partners.

#### www.foodprocessing.de





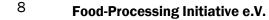
#### **Mission statement**

- Initiate & moderate dialogue between actors of the innovation ecosystem
- ✓ Fostering collaboration (b2b & b2s).
- Dissemination and exploitation of new knowledge from R&D projects.
- Supporting implementation of innovative solutions.



#### Main topic areas

- Quality & safety
- Sustainable production
- Alternative Proteins
- Digital transformation
- > HR development
- Knowledge & tech transfer
- Collaboration (b2b & b2s)
- International networks





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#### We need to talk about ...

#### Actual & future crises



Consequently, we are experiencing vulnerable value chains! Transformation towards sustainability and resilience!



#### **Challenges & drivers**

- Rising prices! (energy, raw materials, personnel)
- Disrupted international value chains & availability of components.
- From resource efficient to climate neutral production.
- From linear to circular approaches.
- Digital solutions as key enabling technology.
- Twin transition of the food system as target.

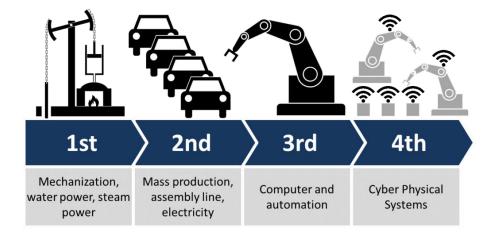




#### Way forward: twin transition



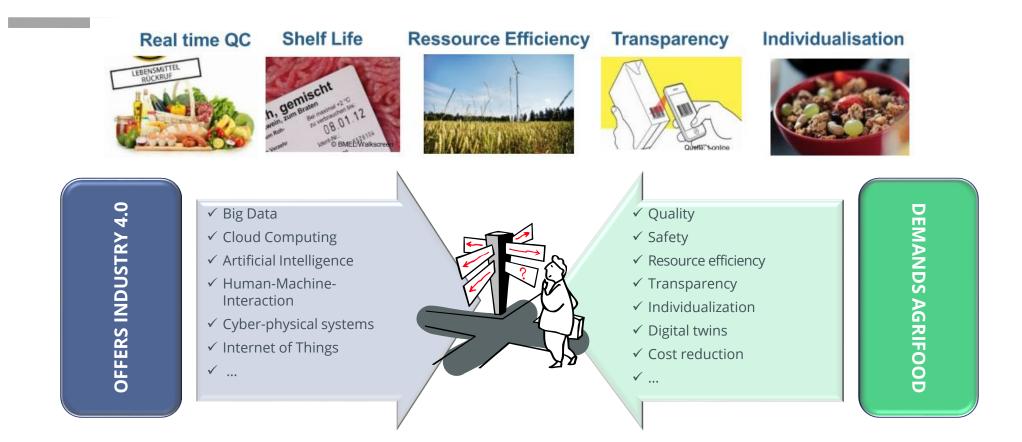
 Green Deal: December 2019 net-zero industry, zero emission till 2050



 Industry 4.0 as means towards sustainability (KET)

#### Sustainability + Digitalization = twin transition

## Mission-driven innovation: From challenge to (digital) solutions



Companies are looking for applicable, added-value solutions!

Connecting competences for innovative solutions!

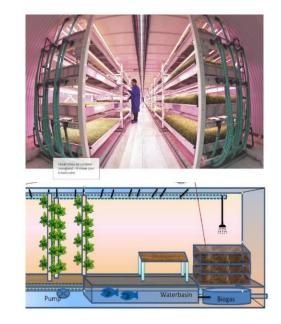
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## **Broad range of digital opportunities**













Better use of water and nutrients

New ways of agriculture

Autonomous quality control

Al for reducing food waste in bakeries

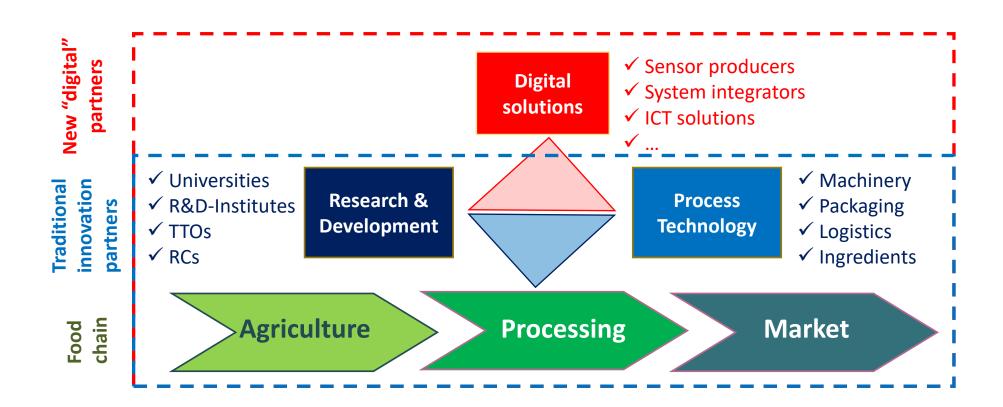


## **Our view on innovation**





#### **Innovation Eco-System Approach**



Connecting the actors for innovative solutions and sustainable development.



## **Establishing living labs**

#### Test before invest

- ✓ Strategic Research as joint pre-competitive R&D
- Provision of technology infrastructure
- Development & validation of concept
- Demonstrator & prototyping

#### Skills and training

- ✓ Workshops & seminars
- ✓ Technological infrastructure for education





## Collaborate for success: Smart Sensors 4 Agri-Food



www.ss4af.com



#### Mission

 towards a smart, sustainable, and resilient agri-food system in Europe

#### Objectives

- Support food SMEs on their "digital journey"
- Connection actors of the "digital innovation eco-system"
- Quicker access to applicable solutions
- Facilitate the implementation of smart solutions





### **S3F00D: funding smart solutions**

Smart Sensor Systems for Food Safety, Quality Control and Resource Efficiency in the Food Processing Industry

#### Main Targets:

- Support the implementation of innovative "smart" solutions in SMEs in the food sector (high TRL).
- ✓ Voucher system with up to € 60,000 for SMEs 100% subsidised.
- ✓ S3F00D runs for 3 years and has a voucher budget of € 2.875.000



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# Twin transition – relevance for SIA development

- Why "twin transition" as core topic for SIA development?
- Sustainable development as core mission for all of us.
  - Resource efficient & zero emission production
  - Creation of fair jobs
  - Economically profitable business models

- $\succ$  Digital solutions as key enablers for sustainability.
- Knowing the "customers" and starting from their needs & challenges.
- Connecting the actors in the "eco-system".
- Consider development from park / facility to cluster management approach.

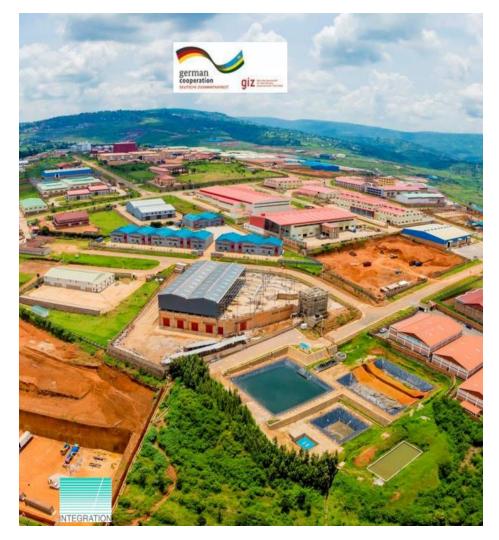


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# Twin transition – example of SIA development

- Development of Kigali Special Economic Zone towards sustainable "business model".
- Added-value services for tenants / companies.
- Cluster approach w.r.t. customer relations, organisational concepts, and marketing.
- Digital platform for interaction / exchange between park management, companies, and (external) service providers.





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## Brief summary & take home

- Sustainability is ultimate target of actions.
- Digital solutions facilitate sustainable development of companies and industrial areas.
- Relevant topic for (international) investors.
- "Cluster perspective" as option for industrial areas management.
- Knowing the "customers" and understanding their challenges & needs.
- Develop (marketable) cluster services (revenues).
- Change process needs leadership.





Connecting competences for innovative solutions!

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#### **George Bernard Shaw**

If you have an apple and I have an apple and we exchange these apples, then you and I will still each have **one apple**.

But if you have an idea and I have an idea and we exchange these ideas,

then each of us will have **two ideas**.





## We will be happy to share ideas with you!

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