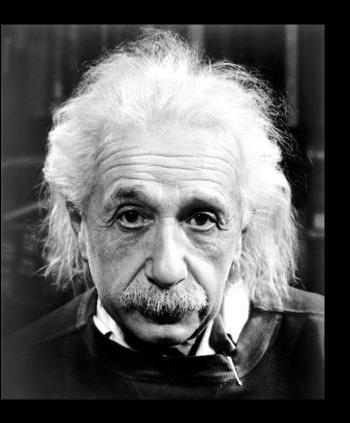


# NTN-Innovation Booster Swiss Food Ecosystems next generation

A joint initiative from Cluster Food & Nutrition and Swiss Food Research



We cannot solve problems by using the same kind of thinking we used when we created them



No problem can be solved from the same level of consciousness that created it

## About ourselves...



Nadine Lacroix Oggier, Ph.D Food Microbiology Director Cluster Food & Nutrition since 2015



" Diversity & multidisciplinary is key to solve complex problems"

**Peter Braun, Dr. sc. techn.** CEO Swiss Food Research since 2013



"Innovation paired with systemic approaches is key to transform the Agro-Food system into a planetary healthy system"

## Suisse Agro Food Leadinghouse – our strengths, assets & experience



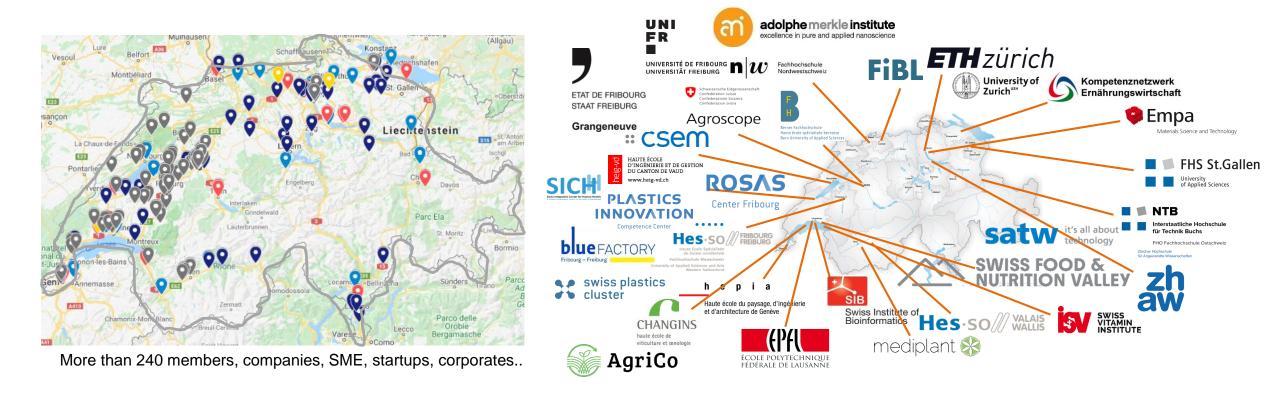


- A growing network of 100+ members & partners from 10 cantons, a combination of companies & academic institutions
- Several years experience in managing an informal structure, more than 30 events, conferences & visits organized
- Several years of experience in supporting collaborative innovation processes (projects, workshops, international call for projects i.e Agri&Co Challenge with 154 applications from 53 countries)
- A transdisciplinary approach working at the interfaces with other sectors such as plasturgy, health, automation etc..



- Largest national innovation network with more than 140 members accross the entire Agro Food value chain
- Experienced in know how transfer 9 Innovation groups operational of which more than 60 Innosuisse projects evolved
- Own funding scheme Research Call. >130 projects reviewed, >70 funded and 70% continued
- Large community more than 15 large events hosted more than 2000 people connected
- 900 followers @ LinkedIn, 3000 subscribers of Newsletter

# A nationwide coverage, a privileged link with our network of companies, academic institutions and interdisciplinary partners



« With its double center of gravity, the Suisse Agro Food Leading house Association is able to foster collaborations all across Switzerland while understanding, respecting and embracing cultural differences »

nnovatior Booster

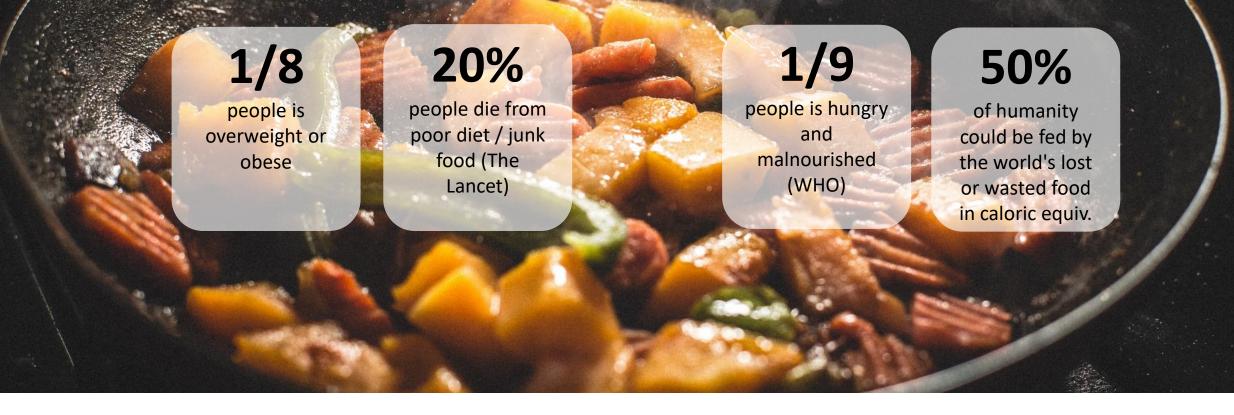
### The main challenges related to the agrifood system The Foodsystem is broken...



Suisse Agro Food Leadinghouse |Swiss Food Ecosystem|



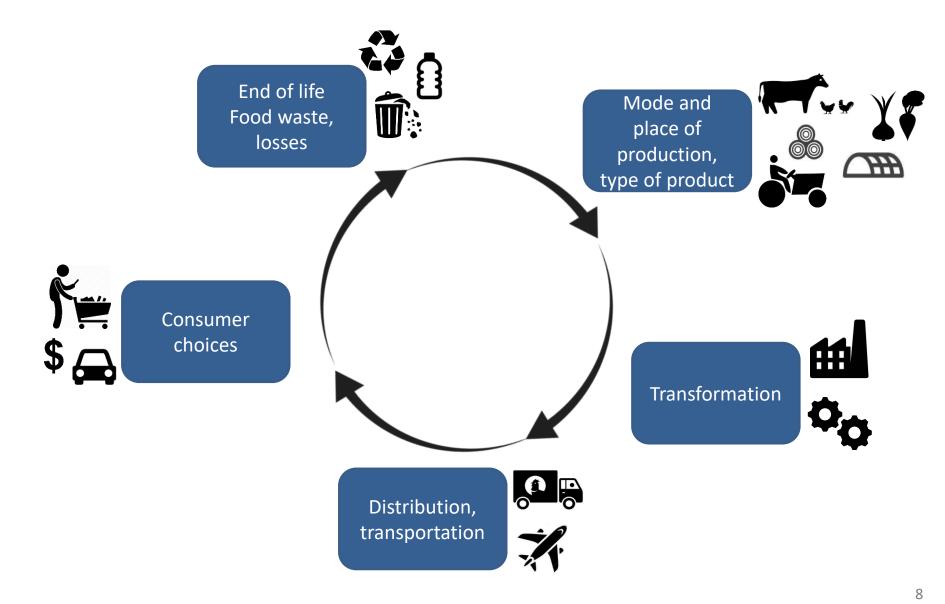
# 10 billion people to feed by 2050 Healthy & sustainable nutrition... for all ?



• Health effects of dietary risks in 195 countries, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017, The Lancet, VOLUME 393, ISSUE 10184, P1958-1972, MAY 11, 2019

- Alimentation et environnement 2017 KVU CCE 2017 CCE www.meschoixenvironnement.ch
- https://www.who.int/fr/news-room/fact-sheets/detail/obesity-and-overweight

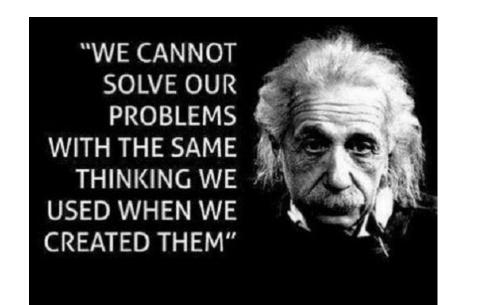
# The whole value chain is concerned...a holistic and collaborative approach is required!



nnovation Booster

## **Innovation Booster ?** General definition

Solutions for complex ("wicked") problems require multidisciplinary & new approaches



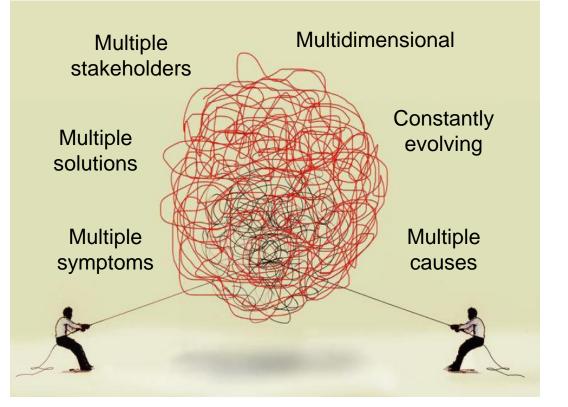
"NTN Innovation Boosters are a community with an open innovation culture in which key players work together to develop innovation ideas in promising technologies and explore new business areas and approaches. In doing so, they give Swiss companies a decisive competitive advantage and create important added value for the Swiss economy and society"





## **Innovation Booster ?**

- Encourage and support the emergence of radical innovation & breakthrough solutions to solve "wicked problems" for which there are no easy solutions
  - New approaches for the food ecosystems
  - Change of mindset required !
- We will do this by means of Open innovation, Agile and Human Centered Tools such as Design Thinking, collaborative & multidisciplinary teams



" Spreading the enthusiasm for a new culture of Open Innovation and Design Thinking methodology to the builders of the Next Generation of Swiss Food Ecosystems to become triggering agents for change and innovation"

# Our 3-step process - a unique way of supporting the creation of innovation teams and radical innovation ideas



## **Ideation Phase**

Supporting the emergence of innovative ideas, solutions and teams! Get your idea/challenge evaluated by the community and by experts

Thematic web based campaigns Hackathons / makeathons





## **Continuation Phase**

This is the beginning ! Your way to a successful project, implementation & launch

#### **Customized modules**

Our process is flexible; we want to adapt & continuously improve ourselves based on our experience

## Ideation phase Open to our community

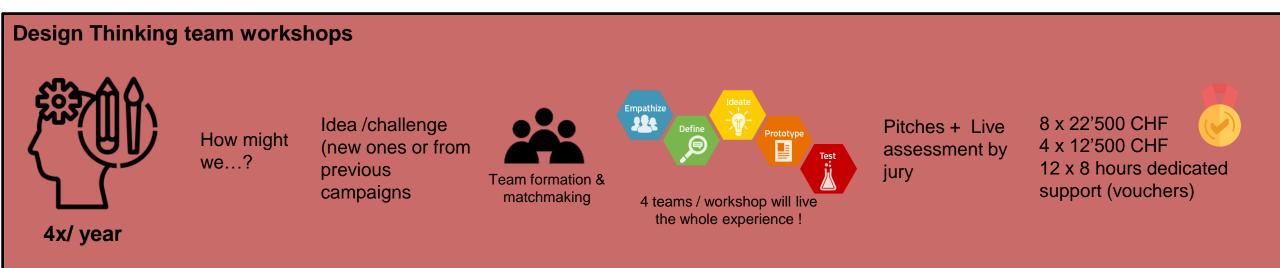




1x / year

## **Exploration phase**

Open to our community, participation fees required



### The opportunity to...

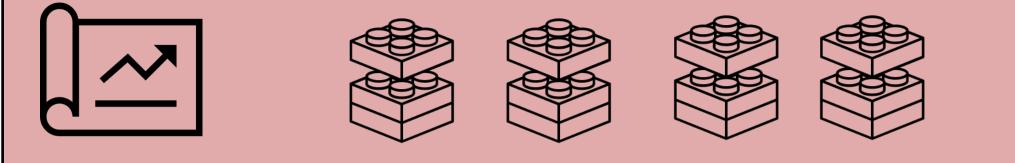
- Learn an agile methodology to apply on other projects, within your organization
- Collaborate and innovate with a multidisciplinary team, in an Open Innovation mode
- Develop & validate your prototypes with final users
- Get access to cash money (success rate of 75% to get funded ! 12/16 3/4)
- Get access to a dedicated matchmaking and support
- Be part of an engaged community

# **Continuation phase**

Open to our community

Innovation Booster powered by Innosuisse

The way to projects - customized modules according to your needs!



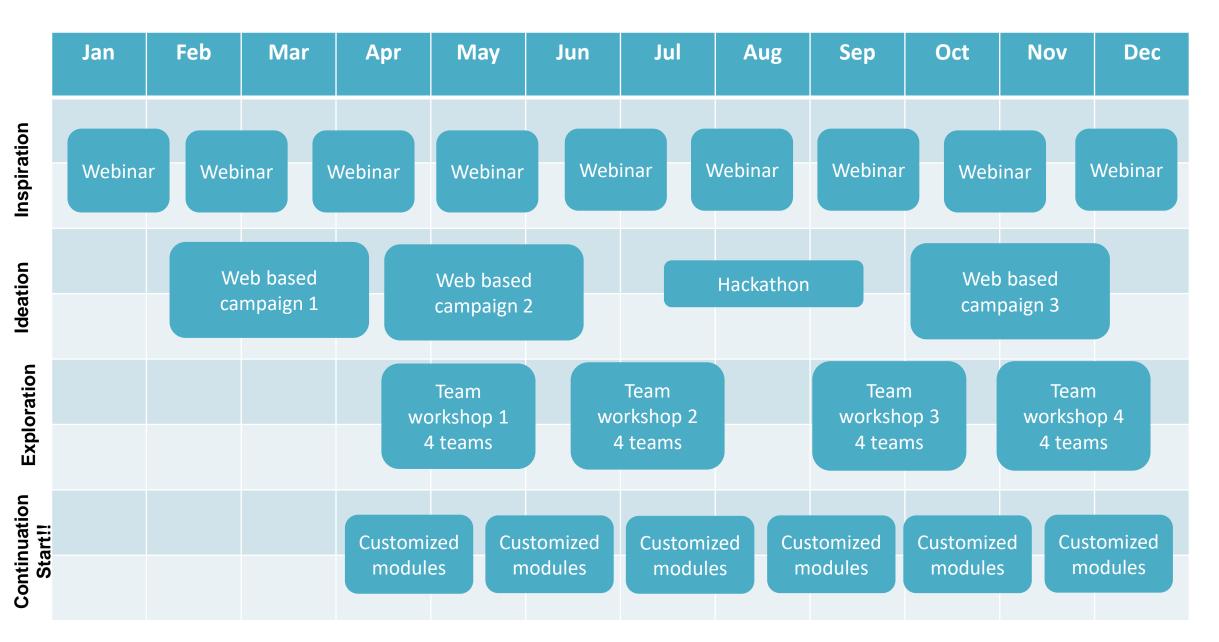
Access to additional funding



### Customized modules can be...

- A new project with additional funding (Innosuisse, NRP, other)
- Access to makerspaces, labs, pilot plant...
- Acess to various expertises & competences
- Dedicated Design Thinking workshops
- .....
- .....

## **Overall planning**





## An intuitive community, matchmaking & assessment platform



Hi Nadine, Have a look at this campaign



An open, smooth, transparent and fair process

Click on the sta cast your vo	
MY VOTING	COMMUNITY GRADUATION
★★★★ Novelty ★★★★ Customer Benefit ★★★★ Feasibility	29 of 20 Visitors
	4 of 5 Commenters
	14 of 10 Voters
<b>****</b> 4.4 ±14	HOTI Status 93 %

#### Innovation Booster powered by Innosuisse

# Lets build together the next generation of Swiss Food Ecosystems !





## **Our three verticals**

Smart nutrition	Personalized nutrition, microbiota vs health, fermentations, digitalization, 3D printed food, proteins (alternatives & traditionals), silver economy, food disorders, salt&sugar reduction
<b>Bioeconomy</b> Ressources efficiency Biomass valorization Circular economy	New business & distribution models/agricultural pratices, new recycling streams, new value chains, biobased industries, new biomaterials, high value molecules, climate resilient crops/protein and oilseed crops, AgTech, robotic i.e to reduce phytosanitary agents, CO2 neutral systems
Packaging	Functionality, food preservation & shelf life, food safety, antimicrobials, new materials, polymers, bioprinting, 3D printing, biobased, biodegradability, recyclability, new recycling streams