

**turn2bio**

# innovative solutions for Short Food Supply Chains

**Campden BRI Hungary**

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**Project code: 773785**

**Project acronym: Smart Food Supply Chains**

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**Internal template:**

**Template for good practice cases**

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**Work package title: Technological and non-technological innovations**

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<b>Dissemination Level</b>		
<b>PU</b>	<b>Public</b>	
<b>PP</b>	<b>Restricted to other programme participants</b>	
<b>RE</b>	<b>Restricted to a group specified by the consortium</b>	
<b>CO</b>	<b>Confidential, only for members of the consortium</b>	

**1. Title of the case description**

turn2bio

**2. Indicate your role in the Smart Food Supply Chain:**

- individual member of the chain:
- chain operator:
- network operator:
- association:
- technical, scientific, or management expert:
- advisor:
- policy maker:
- other: .....

**3. Indicate the region (if applicable):**

#### 4. WP2 Cross-reference table

Please indicate with an X in the relevant box of the matrix for which needs and the steps / functions of the supply chain the described innovative solution is applicable

		Individual steps of the SFSC							Short food supply chain as whole						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Needs of the consumers (citizens)	food safety														
	food quality														
	trust	X	X					X	X	X		X			
	ethical aspects	X	X					X	X	X		X			
	accessibility	X	X					X	X	X		X			
Needs of the chain actors	fair price	X	X					X	X	X		X			
	increased negotiating power	X	X					X	X	X		X			
	shared use of available resources														
	product development support														
	access to markets and consumers	X	X					X	X	X		X			
	access to infrastructure														

- 1: Farming**
- 2: Primary production**
- 3: Transport**
- 4: Processing and packaging**
- 5: Storage**
- 6: Logistics**
- 7: Sale**
- 8: Product integrity, authenticity, transparency**
- 9: Marketing concepts**
- 10: Food chain management and networking for enhancing cooperation among chain actors**
- 11: Business modelling**
- 12: Policy environment**
- 13: Legal requirements**
- 14: Labelling**

## 5. Short description of the innovative solution

- **Describe the specific need or problem being addressed by the case and please explain what is the novelty of this innovative solution**

Marketing, IT, Communication

Europe is the largest consumer of organic food. However, organic farmers face increased competition and get unfair pricing from middlemen, while lack of credentials and high prices remain the major obstacles in purchasing organic food.

- **Describe the enabling function(s) and the practical benefit(s)-(e.g. for which types of problems and opportunities is used and can it be used, and how)**

Via the turn2bio platform, farmers will be able to provide the appropriate credentials that certify that their products are organic, tell their product's story in order to allure more customers, and exchange information and best practices on organic production with each other. At the same time, they can watch the price trends through the turn2bio crowdsourcing component, adjust their price policy, and access a wider market. From consumers' point of view, turn2bio will enable them to easily find organic food at attractive prices as, in the absence of middlemen, prices will be in general lower. However, turn2bio goes far beyond the typical existing online markets of organic food, as it will offer consumers a holistic approach on organic products.

- **Describe the method/procedure/technology/solution implemented. (Please explain, whether the innovative method is a product / service / process / marketing or organisational / management innovation) After completing the description, please indicate, whether this innovation is a technological or non-technological one.**

turn2bio is not another online marketplace of organic products. turn2bio is a combination of market and library tool on organic food, an online channel where organic farmers can sell their products directly to consumers without the mediation of middlemen, while consumers except from purchasing organic products can also be educated. turn2bio is foreseen to increase the interest in local rather than global food, while it will promote the health benefits of organic food through the library component.

technological

non-technological

- **Describe the business, which implemented the innovated solution (size, country, region, location, type of food)**

Target: Organic farmers

- **Describe the distribution channels of the product(s)**
  
- **Describe what makes the innovation work.**

Except from the ability to purchase organic food, consumers can also be educated on organic food, their benefits, and their use and cultivation methods via the turn2bio library. The library will be available to consumers in any time, containing information on organic products – stored in the library or inserted by the farmers – such as their nutrition value, their benefits for human health and well-being, recipes for the optimum uptake of their nutrients, advices on how to cultivate them on their own, and much more.

- **Describe the specific prerequisites for the business related to the implementation of the method and/or related to the location, method, procedure, solution**

**a: List the relevant necessary resources (including the estimated cost) for the specific innovation.**

**Please list the relevant ones only (list is annexed)**

- human: labour force: size, knowledge & skills (production, technical, marketing, managerial, ICT, financial, etc.)
- information, reputation, brand, trust

**b: List the relevant necessary capabilities for the specific innovation.**

**Please list the relevant ones only (list is annexed)**

**6. Describe the results, achievements and typical failures**

**7. Summarize what makes the case to a good practice for the members of the SFSCs (e.g. lessons learned)**

**8. Aspects, methods for transfer of methods for other SFSC members**

**9. Recommendations for members of other SFSCs for further applications**

.....  
**10. More information is available at (web), if it is relevant**

<http://www.finish-project.eu/projects-funded-by-finish/>

## **Annex**

### **1. Checklist for necessary resources (tangible and non-tangible):**

- materials (access to: raw materials/ ingredients - including volume, land – including size, packaging materials)
- human: labour force: size, knowledge & skills (production, technical, marketing, managerial, ICT, financial, etc.)
- technology: patents, know-how, trademarks, copyrights, trade secrets
- infrastructure, equipment, facilities, - size, minimum volume of production/sales, IT infrastructure
- information, reputation, brand, trust
- financial\*

\*: estimated cost:

0 - 10 000 Eur  
10 001 - 50 000 Eur  
50 001 - 100 000 Eur  
100 001 - 300 000 Eur  
300 001 – 1 000 000 Eur  
1 000 000 Eur above –

- other specific necessary resources for the application of the specific innovation

## 2. Checklist for the necessary capabilities

- **food safety:**
  - basic skills to comply with the EU food safety regulations
  - ability to understand what makes the product safe (the key controls, which ensure the safety of the product – biological, chemical and physical hazards, providing the safety shelf life of perishable products)
  - food safety culture (motivation, responsibility for food safety) and basic skills for the implementation of HACCP
  
- **food quality:**
  - ability to define the target segments of consumers for SFSCs
  - ability to define the product characteristics which are (tacit) basic requirements for the target segment(s) of consumers;
  - ability to define which product attributes/levels and augmented services represent an added value for the target segments of consumers;
  - food quality culture (motivation, responsibility for food quality);
  - production experiences which help to provide the expected quality reliably, uniformly;
  - ability to provide distinguishable quality which meets the needs of the targeted consumer segment;
  - meeting (local) legal requirements, application of the labelling rules;
  - ability to access the consumer willingness to pay for specific products of SFSCs.
  
- **trust:**
  - ability to ensure product integrity, authenticity and transparent information for the consumers (including systems, tools);
  - ability to access external trust enhancers (third party certification, internal certification system, participatory guarantee systems);
  - application of the labelling rules and branding (mandatory and voluntary);
  - ability to meet third party certification requirements
  
- **ethical aspects**
  - ability to understand consumer needs for ethical behaviour related to the specific product(s) of the SFSCs;
  - culture for ethical food production and supply;
  - ability to implement necessary measures to ensure ethical food production and supply;
  - ability to access the consumer willingness to pay for products meeting ethical aspects
  
- **accessibility to consumers:**
  - ability to organize logistics efficiently and to exploit innovative solutions and distribution channels;
  - efficient, innovative sales methods;

- ability to develop and implement new business models for ensuring access of consumers to products and augmented services;
- **fair price:**
  - collecting marketing information;
  - ability to enhance and maintain cooperation among chain actors including the combined use of available complementary resources, capabilities, competences of SFSCs actors, networking, understanding the principles of food value chain management;
  - ability to define, develop or maintain unique quality of products and augmented services;
  - ability to develop and implement new business models;
  - ability to access the consumer willingness to pay for fair price
- **increased negotiation power:**
  - collecting marketing information;
  - ability to enhance and maintain cooperation among chain actors including the combined use of available complementary resources, capabilities, competences of SFSCs actors, networking, understanding the principles of food value chain management, cooperation culture;
  - ability to define, develop or maintain unique quality of products and augmented services;
  - ability to develop and implement new business models;
- **shared use of available resources:**
  - ability to enhance and maintain cooperation among chain actors including the shared and combined use of available complementary resources, capabilities, competences of SFSCs actors, networking, understanding the principles of food value chain management, cooperation culture;
  - the level of value chain management culture;
  - ability to access the consumer willingness to pay for food with reduced environmental impacts

- **input for R+D:**
  - ability to monitor, research, evaluate, and understand the needs and wants of customers and consumers;
  - ability to develop new products, processes, packaging, preservation techniques, systems and access to new markets, including in other categories;
  - access to innovative technologies; distribution and marketing solutions and methods. management systems;
  - access to local input for R+D covered by other aspects
  
- **access to markets: and market success**
  - effective promotion, customer service, efficient and innovative sales methods;
  - ability to understand consumer's needs;
  - ability to organise logistics efficiently and to exploit innovative solutions and distribution channels,
  - unique value propositions;
  - ability to develop and implement new business models for ensuring access of consumers to products and augmented services, develop the market accessibility for the suppliers.
  - stock control;
  - ability to access to required raw materials within a restricted geographical area
  
- **access to infrastructure:**
  - ability to use existing own infrastructure in a focused way to serve consumer needs or to combine it with complementary infrastructures of other SFSC actors, cooperation culture;
  
- **management:**
  - to implement management systems for vision, planning, implementing), coordinating, controlling, monitoring, continuously;
  - improving; ability to motivate, authorize staff;
  
- **production, processing:**
  - management system, production experience, specific controlling, monitoring, continuously;
  - willingness to consider and ability to evaluate the adoption of TECI and NTI in the current production processes;
  - any additional specific resources necessary for the application of the specific innovation.