

Funded by the European Union's Seventh Framework Programme





Traditional Food Network to improve the transfer of knowledge for innovation

Use of NPD Tools in Traditional Food Products

Susana Seabra

Miguel Carnide

16-03-2017





Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
 - Case studies in traditional food



Contents

- **1. TRAFFON Presentation**
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food



TRAFFON - General Information

• Name: TRAFOON

European FooD-STA

WFBINAR

- "Traditional Food Network to improve the transfer of knowledge for innovation"
 - **Period:** 01.11.2013 31.10.2016
 - **Project duration:** 36 months
 - **Consortium:** 29 partners from 14 European countries

Scope: TRAFOON addressed SMEs from the sector of four product groups, which play a key role in the value chain of traditional food:





TRAFFON - Multi-component approach

- TRAFOON was a network of research institutions, technology transfer agencies and SME associations with the aim to secure the knowledge transfer and implementation of already existing innovations regarding traditional foods to SMEs in order to establish sustainable and innovative processes and technologies thus improving the quality, safety and environmental performance of traditional food products.
- This was achieved via a multi-component approach

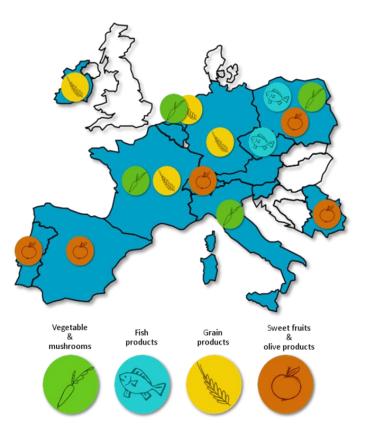




TRAFOON – Consortium overview

29 partners from **14 European countries**: Austria, Belgium, Czech Republic, France, Germany, Ireland, Italy, the Netherlands, Poland, Portugal, Serbia, Slovenia, Spain and Switzerland

- 9 Universities
- 9 Research institutions
- 5 Technology transfer agencies
- 5 SMEs associations
- 1 European food industry association





TRAFFON - Partners



TRAFOON - Book

Consumer-oriented book containing information about traditional dishes from all TRAFOON food categories.

The book includes short stories or descriptions and recipes, as a measure of raising awareness and promoting those products.

European **FooD-STA WEBINAR**



TRAFOON - Info Shop

Available in English, German and French at

www.trafoon.eu



European FooD-STA WEBINAR



TRAFFON - Preserving knowledge

Although **TRAFOON** has come to a close, it did not stop...

In order to preserve gained knowledge throughout the TRAFOON project, it is being transferred and applied to new projects.

This is being made by **extending the network** with partners from industry and **academia that share our vision**.





Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food



Spí Sociedade Portuguesa de Inovação

SPI (b. 1997) is an internacional consultancy firm with offices in Portugal, Spain, the United States, China, Brussels and operations in a wide range of countries.





The SPI Group's structure is composed of three main pillars that enable us to provide a unique portfolio of activities and services:





INNOVATION

SCIENCE AND TECHNOLOGY

TERRITORY

For more information: *www.spi.pt*



13

Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food



Traditional Food & New Product Development Tools

• NPD and traditional food are compatible?



Focus on complete offer

Understand clients/consumer needs

When and how will the consumer use my product?

Don't forget the service!



Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food



Generate good ideas

The ideas may have several origins:

- Suggestions / complaints of clients and workers;
- Identification of new needs;
- Production Spin-outs ;
- Identification of new technologies, processes, design and packaging;
- Identification of new opportunities and business models;
- Utilization of creativity tools.



Generate good ideas

The following initiatives should be applied:

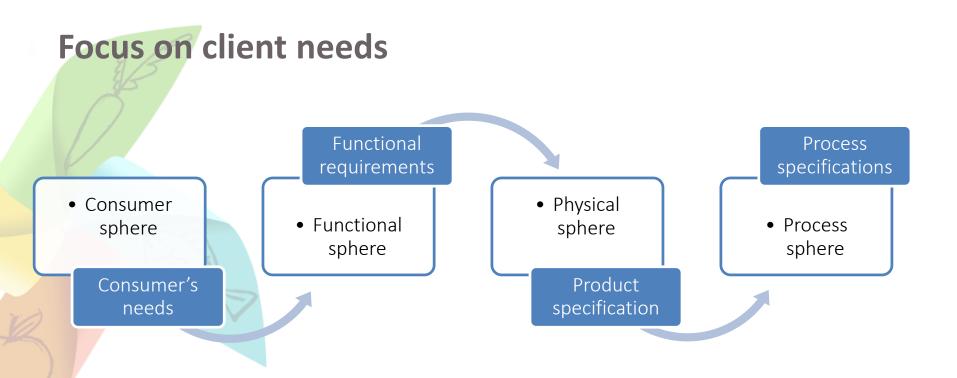
- Idea generation campaigns (brainstorming, programmed pauses, periodical meetings, idea contests, open innovation, etc);
- Communication (the criteria and results of idea campaigns should be widely communicated inside the company to foster an innovation culture);
- Promotion of honest costumer feedback.



Focus on client needs

- Center all development on consumer's needs and expectations;
- Minimize project team subjective and involuntary distorted views;
- Translation from consumer's requirements to the product specifications is the basis of the success of new products.

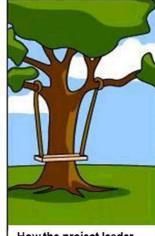






Focus on client needs

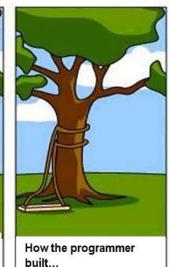




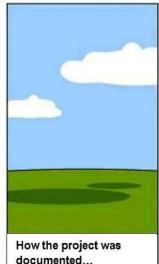
How the project leader understood...



designed it

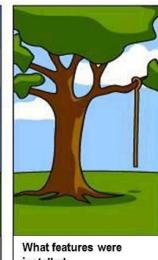




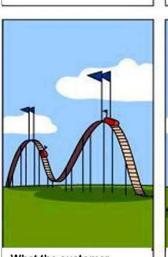


European **FooD-STA**

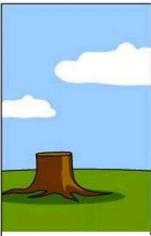
WEBINAR



installed....



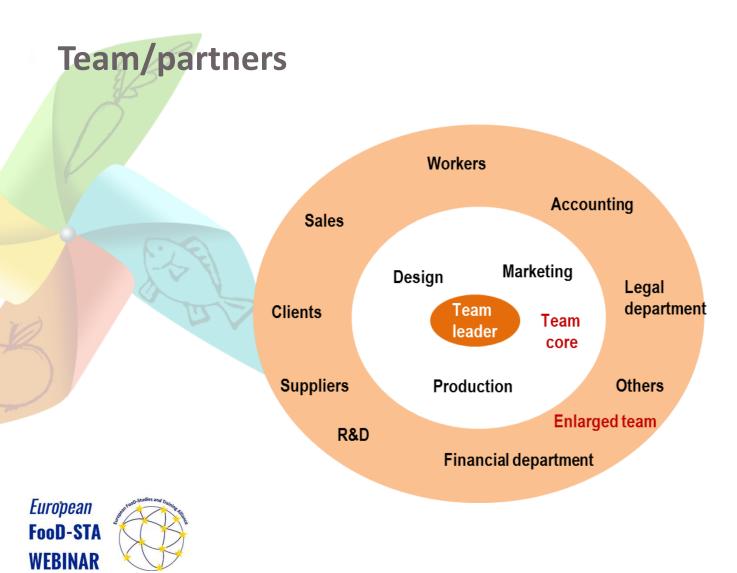
What the customer paid...



How was maintained...



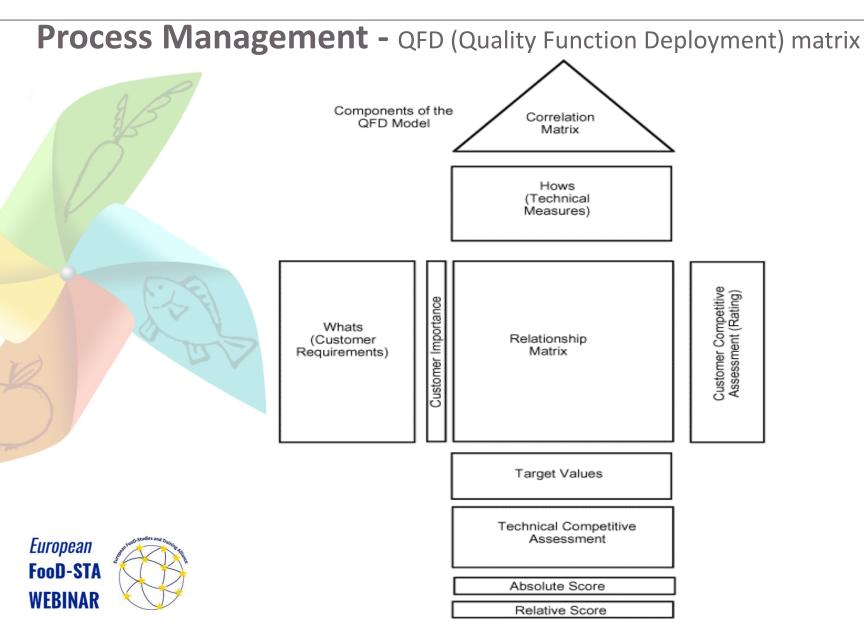
What the customer really wanted...



Process Management

- Project planning (project description, team + resources, milestones, monitoring process, expected results)
- Documentation allows clarity of decision processes and prevents information loss;
- QFD (Quality Function Deployment) matrix use highly recommend.





Risk management

The rate of failure in the development of new products lies in the range of 30% to 40%. At its source are problems that arise in the process of development of new products, such as:

- Adoption of ineffective processes;
- Fragile bets at early stages (time, people and other resources);
- Propagation of problems during the successive stages of design (and later production);



Risk management

Some recommendations:

- Use risk calculation tools FMEA Failure Mode and Effect Analisys
- Recurrent cost evaluation (development and production):
 - allows project halt before substantial losses incur
- Project planning and incentives to NPD and RDI:
 - Increase focus on pluriannual planning of NPD and RDI initiatives.
- Other risk minimization strategies:
 - parallel project launch and quick prototyping/ transition between projects; risk sharing / partnerships; greater incorporation of knowledge to increase barriers of entry to other companies

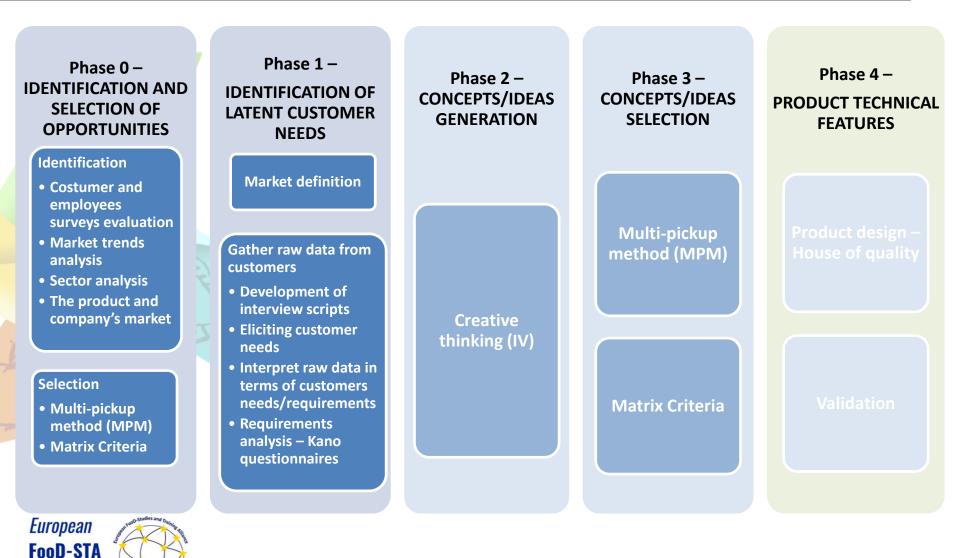


Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food



New product development: the main stages



WEBINAR

Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food

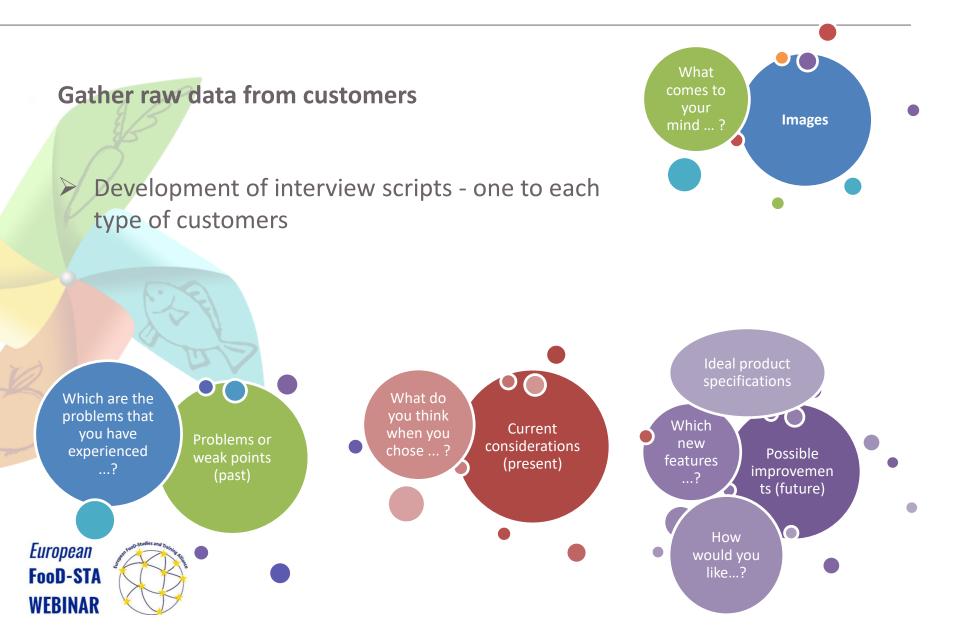


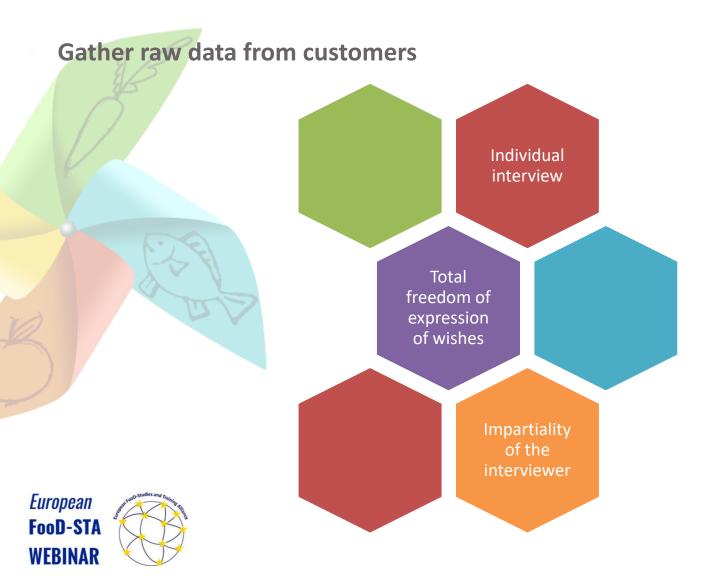
The best and most effective way of surveying market needs and requirements is to use interviews!

Identification of groups of people to interview:

- Direct customers
- End users/consumers
- Different categories: current customers, potential and former clients; satisfied or dissatisfied customers, etc.; Different positions regarding market trends;
- Opinion makers/stakeholders: People connected to the sector or to a parallel one whose opinion hits customers/market;





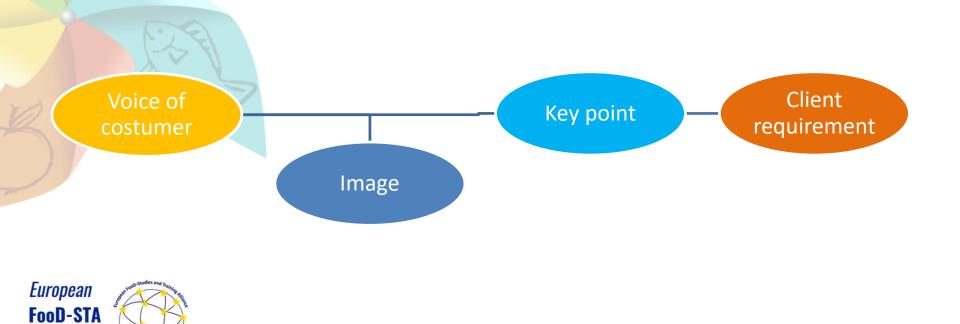


Gather raw data from customers

Eliciting customer needs

WEBINAR

Extract from them the "voice of customer", expressing their manifest or latent needs or desires.



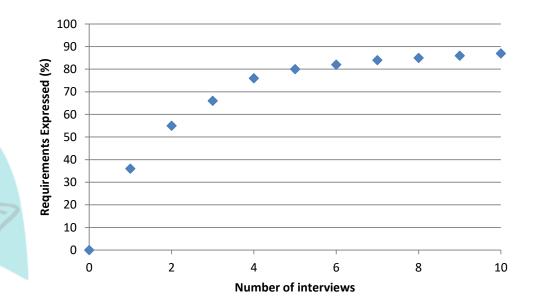
Gather raw data from customers

Interpret raw data in terms of customers needs:

Voices	Images	Key-points	Requirements
To learn something	education	education	Having information
Age appropriate	age	age	Being age appropriate
Being in a group	group	socialize	Having groups
The marriage of food and wine	education	food and wine	Pre knowledge
Visit a new country	travelling	discovering	Having cultural content



10 interviews tend to yield 80% of the overall set of requirements expressed!



Typical curve of the percentage of requirements expressed in terms of the number of interviews conducted.



Gather raw data from customers

Requirements qualitative analysis

Requirement	Unimportant (1)	Important (3)	Very important (9)	Score	Ranking
Having information		8	4	60	5
Being age appropriate		4	10	102	1
Having groups	1	5	5	61	4
Pre knowledge	2	8	5	71	3
Having cultural content		7	6	75	2



 \succ

Survey of market needs / requirements

Gather raw data from customers

Requirements qualitative analysis – Kano questionnaire

The respondents will be asked about how they would feel in the absence and presence of each requirement (functional and dysfunctional analysis):

C C C C C C C C C C C C C C C C C C C	If the product how would you feel?	 Like it (1) It must be (2) Neutral (3) Tolerable (4) Don't like (5) 		
	If the product don't, how would you feel?	 Like it (1) It must be (2) Neutral (3) Tolerable (4) Don't like (5) 		



Survey of market needs / requirements

Gather raw data from customers

Requirements qualitative analysis – Kano questionnaire analysis

The purpose of using Kano questionnaires consists in classifying each of the requirements of the customers within one of the following five possible categories: Mandatory, One-dimensional, Attractive, Indifferent or Questionable.

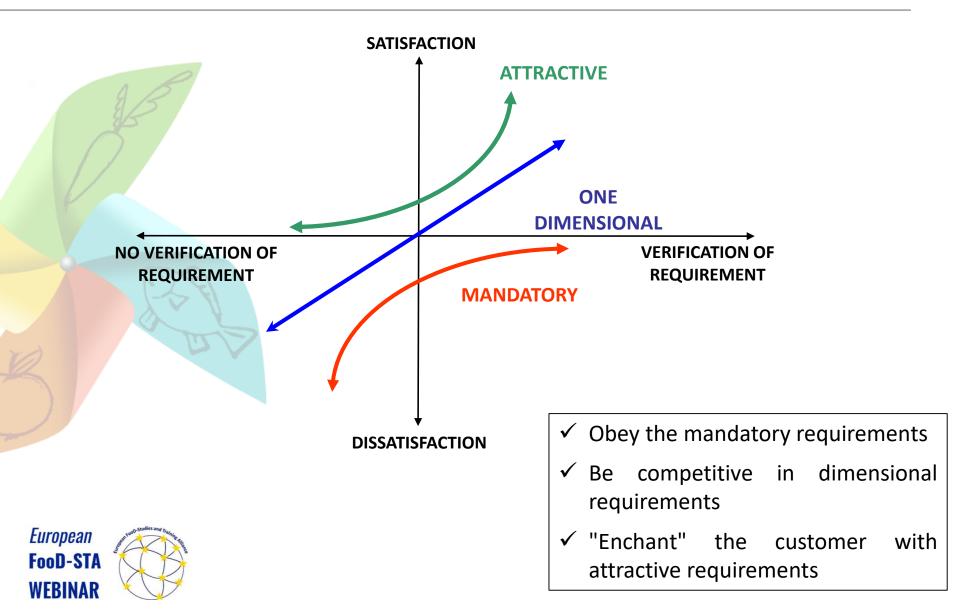
		Dysfunctionality				
		1	2	3	4	5
۲,	1	Q	А	А	А	0
Functionality	2	Q	T	T	T	Μ
tior	3	Q	Т	Т	T	Μ
nnc	4	Q	Ι	T	T	Μ
ц.	5	Q	Q	Q	Q	Q

Requirements Categories			
Mandatory			
One-dimensional			
Attractive			
Indifferent			
Questionable			





Survey of market needs / requirements



Contents

- 1. TRAFFON Presentation
- 2. SPI Presentation
- 3. Traditional Food & New Product Development Tools
- 4. Determinants of success of a new product
- 5. New product development: the main stages
- 6. Survey of market needs / requirements
- 7. Case studies in traditional food



Determinant: Generate good product ideas

meia.dúzia® – Inspiration for new ideas



meia.dúzia[®] is a Portuguese brand that produces jams and biscuits with traditional <u>Portuguese flavour</u>. The jams are presented in an <u>innovative packaging – tube</u>.

The inspiration for the creation of the tubes came from the promoters' interest on painting - a completely different universe from the agro-food sector - the creative process is essential in the development of ideas that foster different and innovative concepts.





Determinant: Generate good product ideas

meia.dúzia® – Inspiration for new ideas

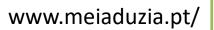
meia.dúzia[®] created <u>new concepts to experience Portuguese</u> <u>flavours, with unique combinations of national products.</u>



Taste experiences (e.g.):

- Strawberry with Port wine
 and chili
- Orange and Madeira wine







Determinant: Focus on client needs

Frutaformas – reshape fruit



Frutaformas[®] is dedicated to <u>dehydrate fruit through a natural process</u>.

Frutaformas products are dehydrated fruit snacks made from Certificate of Origin fruits. Products are marketed in <u>different shapes: slices, lingots and hearts, and are available</u> in two varieties: gourmet and healthy. Targeted at younger audiences, there is also the "Little Fruit" product, which presents the fruit in a "healthy and fun way" to children.



Determinant: Focus on client needs

Frutaformas – reshape fruit

The focus is to <u>develop products without artificial</u> additives, nutritionally balanced and fit to be consumed safely by all consumer groups (including celiacs and diabetics). Healthy and attractive alternative to sugary snacks.

Artisanal production, whitout additives or preservatives, no added sugar or oils.

Certified fruit with designation of origin

www.frutaformas.pt



Determinant: Team

Nono Sentido – Food and Wellness



Nono Sentido markets noble Portuguese products, boosting their value and redirecting them to the international market.





Chocolate Truffles with Extra Virgin Olive Oil & Gold



Determinant: Team

WFBINAR

Nono Sentido – Food and Wellness

www.nonosentido.com

The company is committed to developing distinctive products, in partnership with universities and scientific institutions that complement the traditional Portuguese portfolio of products.

The research work led to the development of products using an Olive Oil "matrix": Olives and the Algae of the Atlantic coast.



Determinant: Process management

TerriuS – adding value to protected designation of origin products

TerriuS is an innovative project in the agro-food sector, <u>based in local</u> <u>partnerships of trust and fair trade with small producers and</u> <u>industries in the region</u>.

TerriuS commercializes dehydrated, milled, canned, processed and fresh products, using local raw materials (Marvão Region).







Determinant: Process management

Terrius – adding value to protected designation of origin products

- Product development is based on successive experimentation and evolution. Feedback is collected from customers, importers, service providers, and other stakeholders.
- Commitment to service innovation, not just product: the company's link to gastronomic tourism (<u>itineraries with food tasting</u>) adds value and an emotional connection to the product.









Determinant: Risk management

AlgaPlus – Introduction of algae



AlgaPlus is a small portuguese company devoted to the research and production of seaweed and seaweed based products.

After market research, found ancient use of algae in Portuguese diet and came up with the idea of incorporating seaweed into typical Portuguese meals like cod fish/sardines.





Pre-cooked meal of cod with algae



Determinant: Risk management

AlgaPlus – Introduction of algae

The strategy also includes partnerships with other companies to use <u>AlgaPlus algae to</u> <u>enrich their customary products</u>. This way it is possible to <u>promote the AlgaPlus brand</u>, <u>associating the quality assurance transmitted by the partner brand (reducing risk)</u>.



www.algaplus.pt





Funded by the European Union's Seventh Framework Programme



Fakulta rybářství a ochrany vod Faculty of Fisheries and Protection of Waters

Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice Czech Republic





Traditional Food Network to improve the transfer of knowledge for innovation









www.spi.pt



Funded by the European Union's Seventh Framework Programme



Fakulta rybářství a ochrany vod Faculty of Fisherie and Protection of Waters Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice Czech Republic





Traditional Food Network to improve the transfer of knowledge for innovation



European FooD-STA

WEBINAR

Thank you for your attention!

CONTACTS

Susana Seabra – susanaseabra@spi.pt Miguel Carnide - miguelcarnide@spi.pt



