



Provalor : Value creation in the foodsector

Core business:

Upgrading lower value vegetable raw materials (side streams) to high value innovative ingredients through development of innovative know-how and business models.

Examples:

- High quality juice from by-products from vegetable processing
- Dietary fibres from vegetables as high value ingredient in sauces, meat and cheese
- Carotene rich natural ingredients





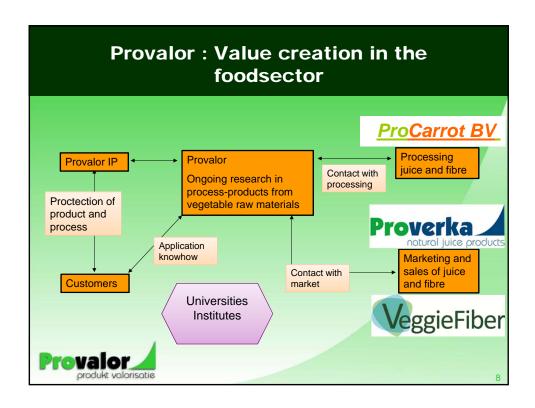




Provalor: key choices

- Focus: vegetables
- "Waste" as a raw material
- Understanding the (consumer)market
- Solid social trends: health and sustainability
- Sound scientific and proprietary knowledge
- New chains based on new partnerships.





Provalor : Value creation in the foodsector

I.P.

Provalor has developed and is owner of know-how protected by patents in the field of juice extraction; the production and applications of vegetable dietary fibre; other related areas.

- Vegetable juice (EU, Can, USA)
- Natural colours (NL)
- Vegetable fibre as ingredient (Can, USA, EU)
- Vegetable puree from steam peelings (NL, EU)



9

Businessmodel in juices

Unique qualities of the products made with Provalor technology

Juice

- Low to negative value raw material turned into value
- High fresh market quality raw materials compared to industry quality raw material
- Year round fresh production for high taste and customer flexibility
- Year round processing => reduced investment and fixed costs
- Customised recipes for vegetable juice cocktails

produkt valorisatie

Businessmodel dietary fiber

Unique qualities of the products made with Provalor technology

Dietary fibre

- Low to negative value raw material turned into value
- Unique capability of moisture absorption by the fibre
- Healthy food supplement (fibre) reduces calories foodproduct
- Improved texture and structure of the product
- Increased dietary fibre support gut health (claim)
- Allergen free dietary fibre



11

Financial opportunities dietary fiber

Value creation by application of vegetable dietary fibre in a meat product.

Product or aspect	Value
Production price dietary fibre	€1250/ton
Sales price dietary fibre	€2500/ton
Replacement of meat of	€3750/ton
For consumer claim on "rich in fibre"	



Provalor further steps

Presently the Provalor know-how and applications are ready for the market and can be sold to interesting parties and partners.

Typical approach:

- Sign NDA
- Create Preliminary Business case to demonstrate feasibility
- Sign cooperation agreement structured around :
 - 1. Knowhow supply by Provalor
 - 2. Payment of lump sum
 - 3. Payment of license or service fee.



1.3

Summary

- Provalor and Partners "save" annually>8.000 ton healthy vegetables
- Proven technology and business model
- Turther international development has started in different areas
- Ney for success is continuous innovation and R&D and down to earth business sense.

