



AGENTSCHAP
ONDERNEMEN

Aqua Value

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Why AquaValue?

- ❑ EU's Blue Growth strategy (support sustainable growth in the marine and maritime sectors)
- ❑ Status of fishery and aquaculture in Belgium is limited/neglectable; however, quite some expertise in fishery/aquaculture in Belgium
- ❑ Fish/shellfish:
 - ❑ Belgium: 25,4 kg seafood per capita per year
 - ❑ Increasing need for marine proteins
 - ❑ Transition from wild -> aquaculture
 - ❑ Need for increased sustainability, increase of scale, mechanization, etc.
- ❑ Co-use of space = integration with other sectors (e.g. wind energy sector, coastal protection, tourism, etc.)

**To summarize: there are lots of technical and commercial opportunities
AquaValue wants to visualize and quantify these opportunities**

AquaValue project

- October 2014 – November 2015
- 11 partners representing industry, academia and government
- Consortium with broad knowledge and knowhow: dredging, textiles, environmental services, biology, feed, nutraceuticals, retail, fishery, aquaculture, marine engineering, marine spatial planning, etc.
- Clear plan ...

SIOEN INDUSTRIES

 **Dredging
International**
Marine & Waterways Contractor

.Ocean
nautical innovations

 **ILVO**

eCOAST
MARINE RESEARCH

 **COLRUYT
GROUP**

Aqua

UGent

 **Pure**

 **INVE**
AQUACULTURE
shapingaquaculturetogether

 **Flanders'
Maritime**
Cluster

 **BREVISCO**
Serving the fishing industries

 **Aqua
Value**

Project targets

▶ Main objective

Develop a roadmap for **integrated aquaculture** for Flanders/Belgium

▶ Sub-objectives

1. Identify state of the art regarding integrated aquaculture
2. Identify (new) products, value chains and way to market
3. Identify and quantify innovation potential
4. Define 2-4 pilot projects that can put Flanders on the map regarding innovation and product development in the area of sustainable integrated aquaculture

OFFSHORE

2005

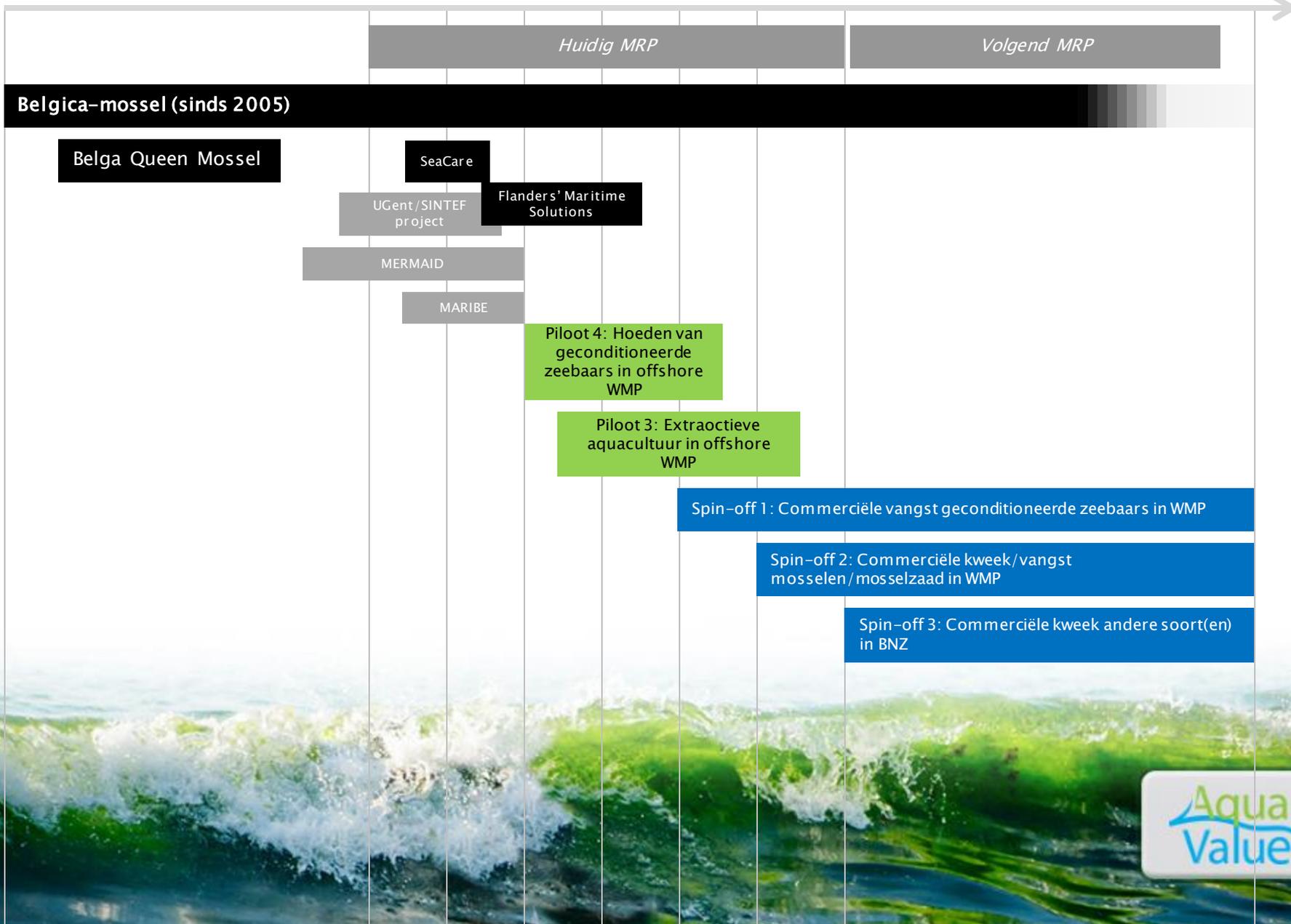
2014

2017

2020

2025

2030



NEARSHORE

2005

2014

2017

2020

2025

2030



Belgica-mossel (sinds 2005)

Belga Queen Mossel

SeaCare

Flanders' Maritime Solutions

Piloot 2: ecosysteem gerichte kustverdediging en aquacultuur mbv bio-bouwers

Vlaamse Baaien

Energie-atol (iLand)

Start "EcoProtect" (triple helix)

Geotextielen en monitoringsystemen voor kustverdediging

Spin-off 1: (Inter)nationale vermarkting van 1e integratieconcept

Spin-off 2: Internationale vermarkting van 2^e concept



ONSHORE

2014

2017

2020

2025

2030

Belgian Royal Caviar (*sinds 1996*)

De Oesterput (*sinds 1996*)

Eric's Gamba's (*sinds 2015*)

Omegabaars (*sinds 2015*)

Piloot 1: Marien multi-species broedhuis

Europees competentiecentrum voor marien pootgoed

Spin-off 1: Geïntegreerde, commerciële kweek van pootgoed eerste schelpdier (zeeproduct 1)

Spin-off 2: Geïntegreerde commerciële kweek van pootgoed "zeeproduct 2"

Spin-off 3: Geïntegreerde kweek van mariene vis op land

Aqua
Value

Conclusions

- ▶ **Scalability, mechanization and integration of aquaculture with other sectors** offer **huge opportunities** for Belgian companies and research institutes for valorization in Belgium and beyond
- ▶ Belgian people are familiar with foreign aquaculture products such as salmon and mussels, but there is space for **more consumption** and an interest in (1) **new products** and (2) **Belgian products**, if price and quality are ok
- ▶ **Integration of aquaculture with other sectors** can take place on land (e.g. aquaculture production, hatchery or food/feed processing in combination with tourism or education), nearshore (e.g. aquaculture production in combination with coastal protection), or offshore (e.g. aquaculture production in combination with wind energy production/storage), and will result in **increased sustainability, reduced costs and increased efficiency**

Conclusions

- ▶ Based on **market analyses, technical aspects, and identified innovation and business potentials** we proposed **4 pilot projects** to develop a sustainable, integrated aquaculture sector in Belgium/Flanders:
 - Marine multi-species hatchery
 - Ecosystem supported coastal protection combined with integrated aquaculture
 - Extractive aquaculture in the offshore wind energy parks
 - Sea ranching of sea bass in the offshore wind energy parks

Recommendations

- ❑ **Perform the identified pilot projects**
- ❑ **Perform market-, product- en consumer research** to further stimulate the consumption of (new and/or Belgian) aquaculture products
- ❑ **Facilitate test locations** to support the development of integrated aquaculture activities
- ❑ **Financially support** the development of integrated aquaculture activities
- ❑ **Adjust marine spatial plan of the Belgian North Sea** for integrated aquaculture activities

COAST  BUSTERS

SeaEconomy[®] 

