Fillet-O

Industrialized slaughter of Atlantic salmon: Direct processing and superchilling (Filet-O)

Filet-O Background

- Startet approx 10 y ago
- Bleeding of fish 2003-2006
- 4 in 1 machine
- Collaboration with Atlantic cod farms in 2009
- Testing the consept on cod
- Superfillet- CrackDown
- New chance in 2013 Bionær
- Joint project in R&D KPN/KMB
- Strong consortium
- Filet-O (Only) or Direct processing of salmon (DPS)

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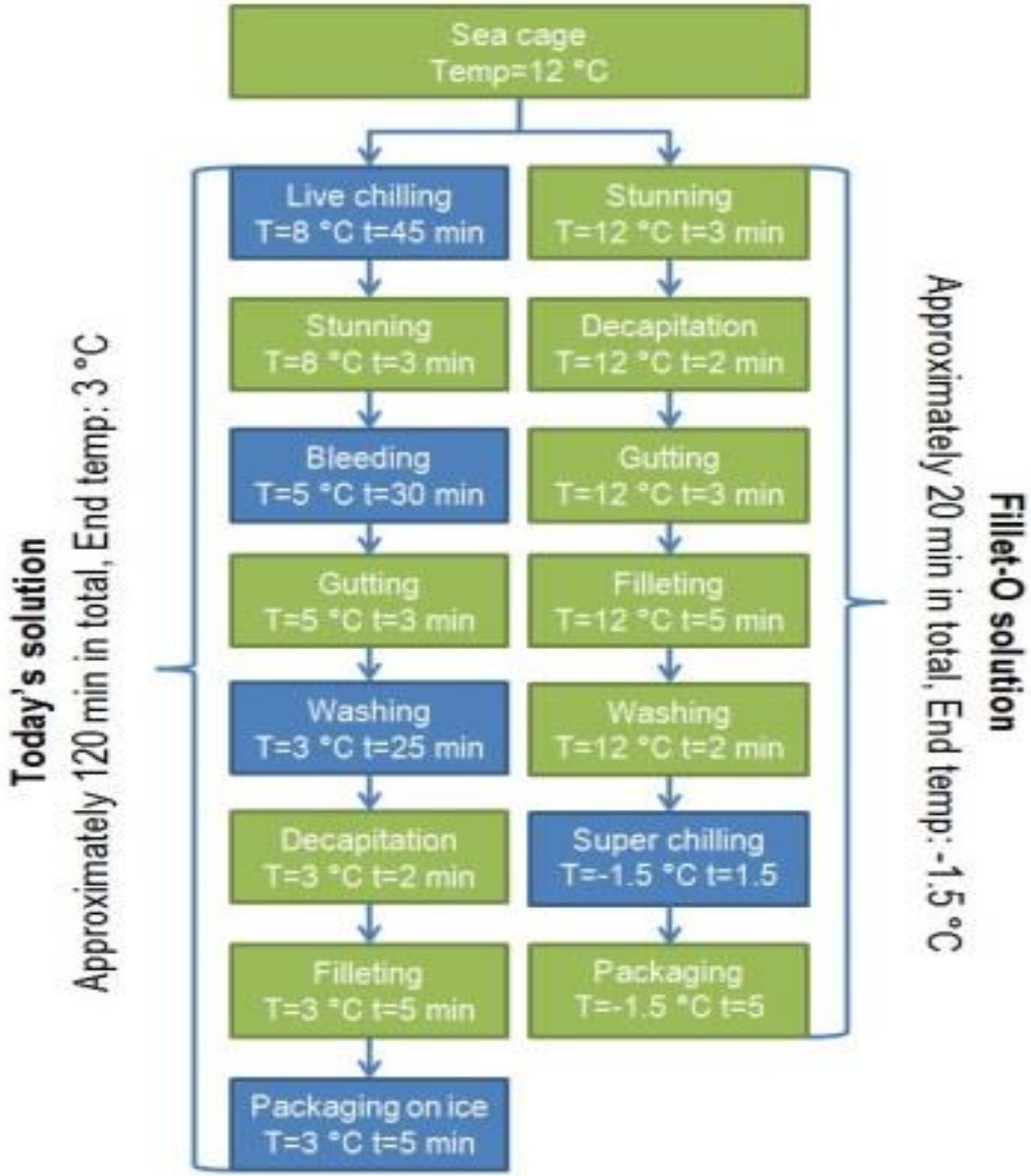
What are the objectives

- To produce 100% salmon fillets changing the dynamics from selling Atlantic salmon carcasses «as is», to sell salmon meat with certain specifications (color, blood, melanin, size, fat).

- To produce safe and sustainable salmon meat with better quality, longer shelf life to a less cost than traditionally possible.



- Blue are processing steps with chilling

KPN Project has focus on R&D. The goal is disseminate knowledge into commercial practice.

- Basically what we have to do is simulate a new production line, solving bottlenecks, predicting investment and production cost all in relation to a centralization of production with increasing volume towards a dynamic market.

- Further on, document the effect on quality, shelf-life and costs predicting market segmentation and new business opportunities all within 4 years.

- Unrealistic both from a single RTD or SME standpoint, but together everything is possible!!!!

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Organisasjon-One important key

- The areas are Economy, Market, Processing technology, Welfare, Logistics, Biological science, Physics, Enviroment, Sustainebillity, Waste products.
- RTD’s: IMARES, Nofima, Sintef, IMR, UIS, and NTNU
- SME’s: Marel, Seaside, Cermaq, Grieg, Jackon and AGA
- Organizations: Blue planet, FHF, NCE Aquaculture and Culinology
- Streamline structure of the project and activity is important

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Organization-structure

- The Project Board is constituted to represent the diversity with mandate to control the project**:**
  - 2 from farming industry (Grieg and Cermaq)
  - 2 from technology industry (Marel and Seaside)
  - 1 from organizations (FHF)
  - 1 from RTD (Nofima)
- The project is organized into 5 Work Packages' (WP) all to report to the project leader responsible for the board- line in action.
- Within each WP there will be constituted a working group between the relevant partners. This to plan activity on research and development.

R&D Structure

- The five WP's are:
  - WP 1: Processing (Bjorn)
  - WP 2 : Superchilling and transport (Tom Ståle)
  - WP 3: Quality, Shelf life and Food safety (Bjørn Tore)
  - WP 4: Bioeconomy and marked (Frank Asche)
  - WP 5: Publication and Dissemination (Eivind)

- To avoid teams working in 5 separate clusters sub-objectives (SO) are set answering direct questions where WPs must be fused:

  - SO1: Effective production
  - SO2: Energy and Transport
  - SO3: Quality, Shelf life and food safety
  - SO4: Market dynamics

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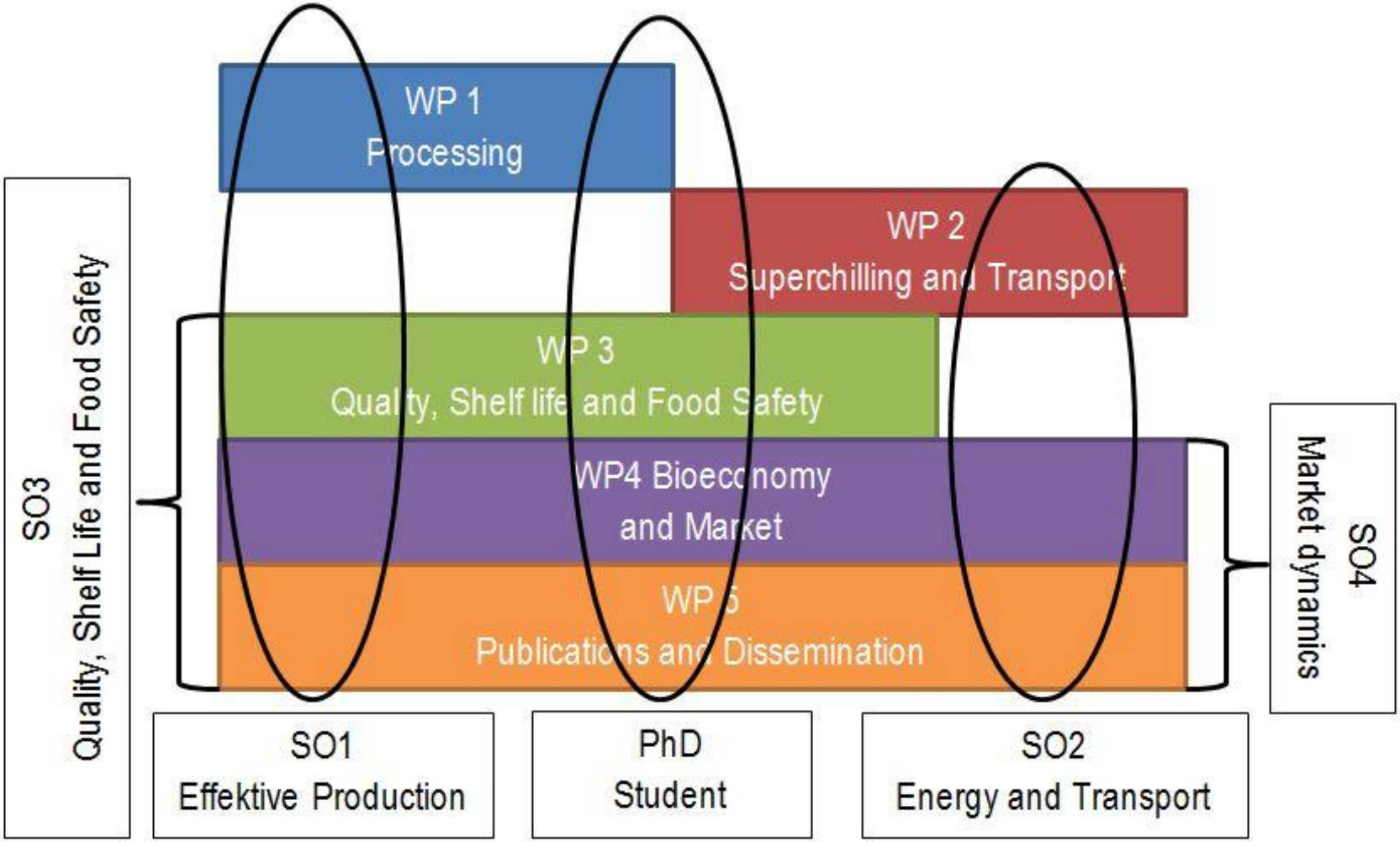
WP 1
Processing
WP 2
Superchilling and Transport
WP 3
Quality, Shelf life and Food Safety
WP4 Bioeconomy
and Market
WP 5
Publications and Dissemination
SO3
Quality, Shelf Life and Food Safety
SO4
Market dynamics
SO1
Effektive Production
PhD
Student
SO2
Energy and Transport

PhD and Post doc

- PhD will have a economic approach working across all WP's to estimate costs and energy consumption.
- A PhD candidate on economics started winter 2015.
- Post doc position 2 years.
- Master students on regular bases.