



Redskapspolitikk og beslutnings problemer for fiskeindustrien i Island

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Value chain and processing

Matis ohf, Iceland

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The Icelandic situation

Fishing gear

Other gear

The keywords

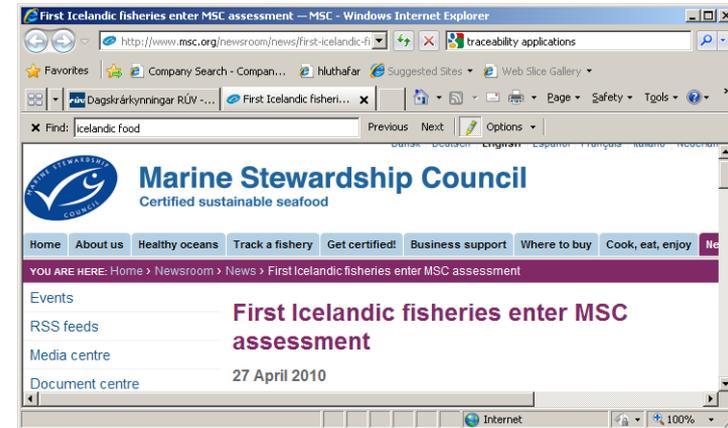


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What's on in Iceland?

- Economic crisis
- Contribution margin high
- Cost of financing higher
- Fisheries management debate
- Environmental labelling
- Counting on the seafood industry for value creation



The management system

Ministry of fisheries and agriculture

- Marine research institute**
- Directorate of fisheries**
- The food agency**

Ministry of transportation

- Harbours**

Ministry of justice

- The coast guard**

Political situation: Free choice of gear – within reason



Reglugerðir og friðunarsvæði við Ísland

Birt með fyrirvara: Ef frávik eru frá birtingu reglugerðar gilda stjórnartíðindi.

Á milli lina nr. 205 og 206
Skiptingardagurinn 2010 hefur
skilgjafingarnið gætt af því að
væðingarnar séu ávallt ávallt
regluðar með skilgjafingarnið.
rgl.: 710/2007

Blá rúndott svæði með löðretum
linum. Skiljusvæði fyrir togveiðar.
Rgl.: 749/2006

Þessi svæði eru með löðretum
linum og eru til þess að tryggja
regluð veiðingarnar.
rgl.: 310/2007

Þessi svæði eru með löðretum
linum og eru til þess að tryggja
regluð veiðingarnar.
rgl.: 48/2008

Bann við rækjuveiðum
rgl.: 766/2004

Kolmunnalína
rgl.: 1271/2007

Togveiðibann þó
opíð fyrir togveiðum
frá kl. 20:00 - 08:00
rgl.: 875/2005

Kolmunnalína
rgl.: 1271/2007

Blá rúndott svæði með löðretum
linum. Skiljusvæði fyrir togveiðar.
rgl.: 752/2006; 751/2006

Bann við veiðum með
fiskskólum opnu. rgl.:
162/2002

Bann við
handfæraveiðum
rgl.: 693/2007

Bann við
handfæraveiðum
rgl.: 185/2007

Bann við línu og
handfæraveiðum
rgl.: 742/2009

Smáfiskaskiljusvæði Síldveiðar
með flotvörpu leyfðar
770/2006, 747/2006

Togveiðibann þó
opíð fyrir togveiðum frá
kl. 20:00 - 08:00 frá og
með
1. okt til og með 1. apríl
rgl.: 310/2007

Bann við Línuveiðum,
rgl.: 810/2009

Bann við Línuveiðum,
rgl.: 311/2003; 230/2003

Smáfiskaskiljusvæði
rgl.: 748/2006

Bann við
kolmunnaveiðum
án meðflaskilju
rgl.: 696/2005

Dökk ská-rúndott svæði
eru friðunarsvæði fyrir
togveiðum. rgl.: 310/2007

Bann við
dragnótaveiðum
rgl.: 094/2010

Bann við
kolmunnaveiðum á
Þorsbanka.
rgl.: 794/2004

Opíð fyrir togveiðum á
Mehlsack frá og með
1. feb. til og með 15. apr.
rgl.: 310/2007

Bann við togveiðum
rgl.: 861/2006; 100/2008

Friðunarsvæði
Surtsey
rgl.: 50/2006

Koralsvæði
rgl.: 1140/2005

Bann við veiðum með
fiskskólum
Rgl.: 520/2010

Bann við togveiðum
rgl.: 310/2007

Á Tanni er lokað fyrir
togveiðum frá og með
1. júní til og með 31. okt.
rgl.: 310/2007

Area closures due to spawning + closures due to size restrictions

Norður og Austursvæði
15. apríl til kl. 10:00 30. apríl
3. gr. A, B og C
(380/2008)

5. gr.
 Undanþágur

Skarkolasvæði
1. til 30. apríl
4. gr A, B og C

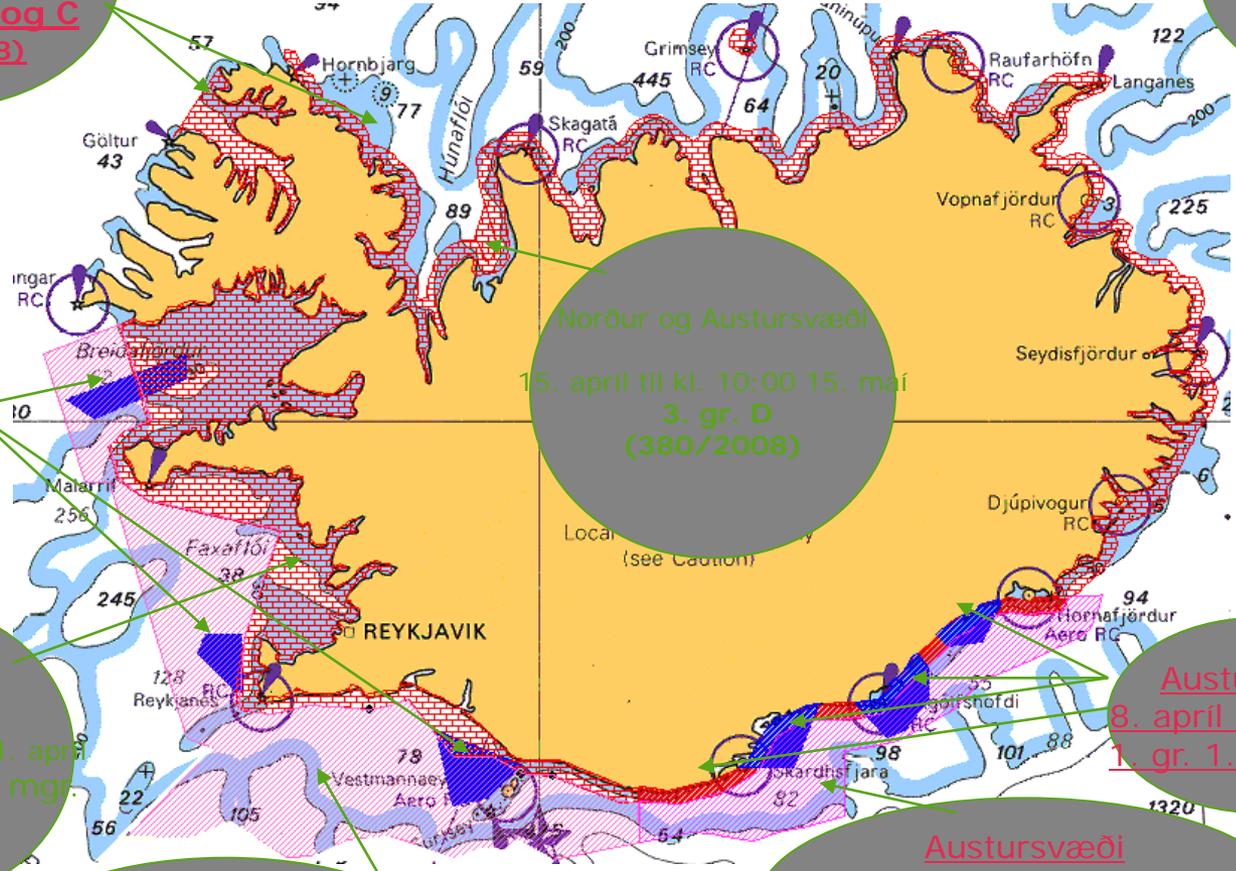
Norður og Austursvæði
 15. apríl til kl. 10:00 15. maí
 3. gr. D
 (380/2008)

Vestursvæði
1. apríl til og með 11. apríl
2. gr. 1., 2. og 3. mgr.

Austursvæði
8. apríl til 16. apríl
1. gr. 1., og 2. mgr.

Vestursvæði
12. apríl til kl. 10:00 21. apríl
2. gr. 4. mgr.
(225/2007)

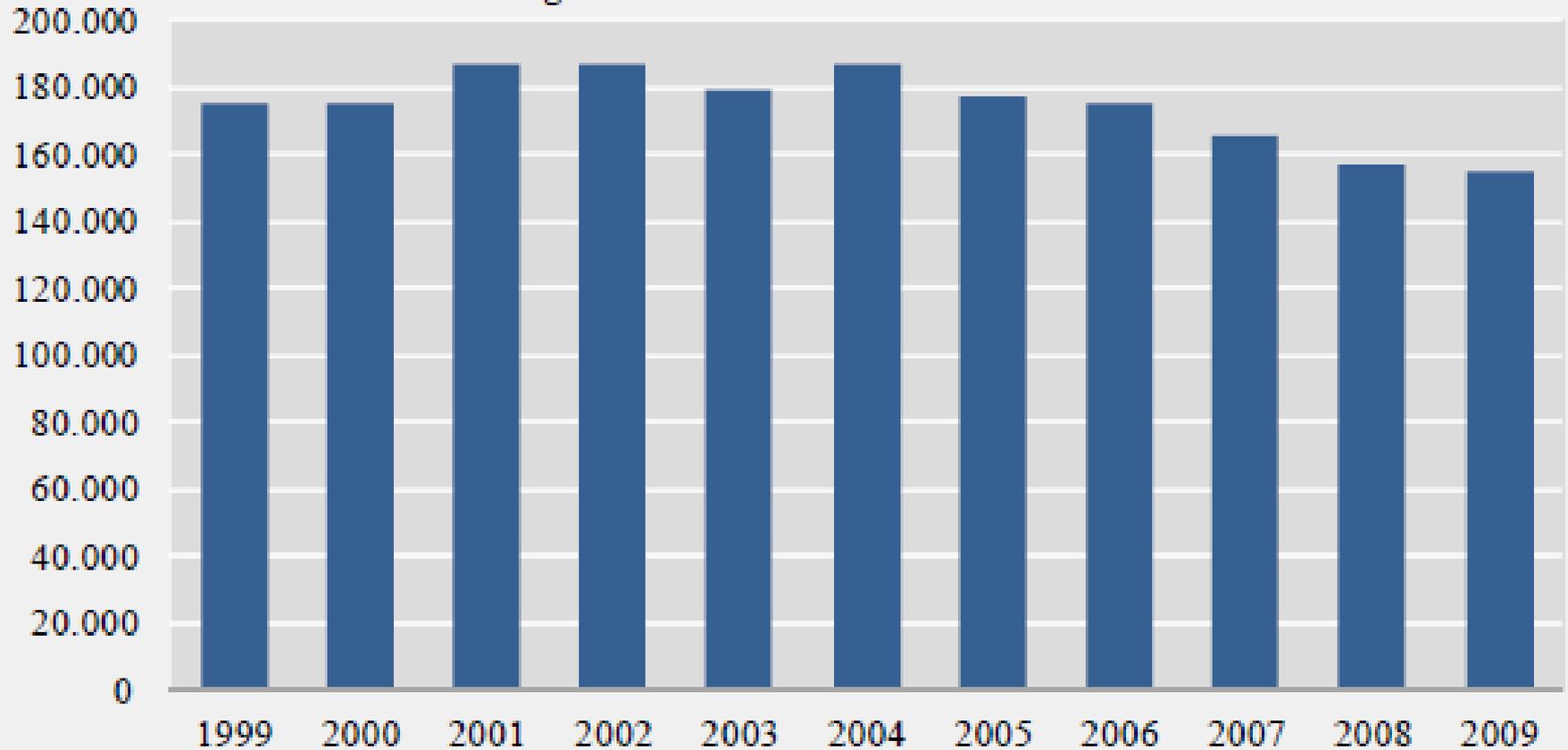
Austursvæði
17. apríl til kl. 10:00 28. apríl
1. gr. 3. mgr.
(225/2007)



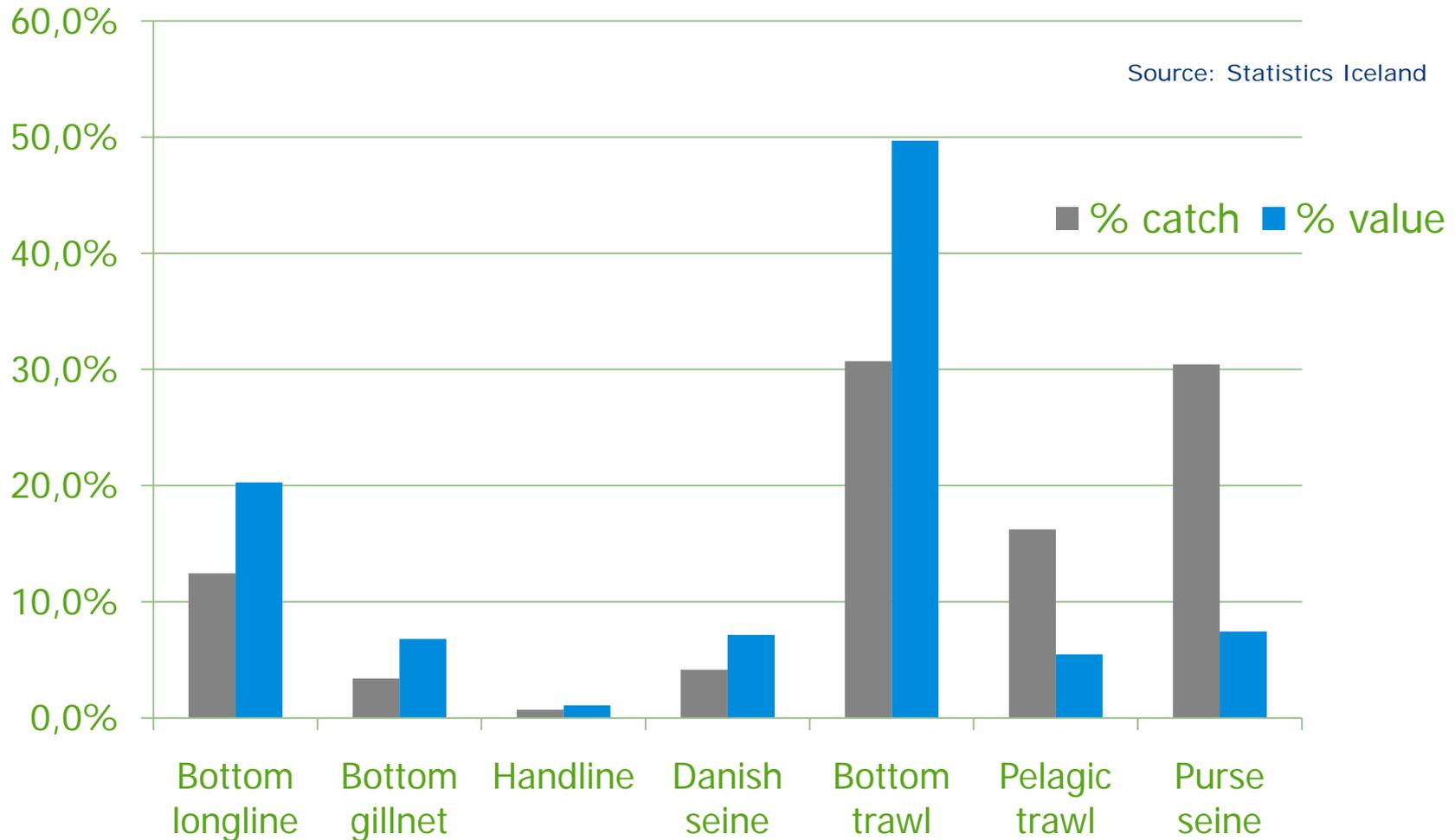
Source: Fisheries directorate

Decked vessels and trawlers 1999–2009. Size in GT

Brúttótonn *Gross tonnage*



Free choice of gear – resulting figures 2008

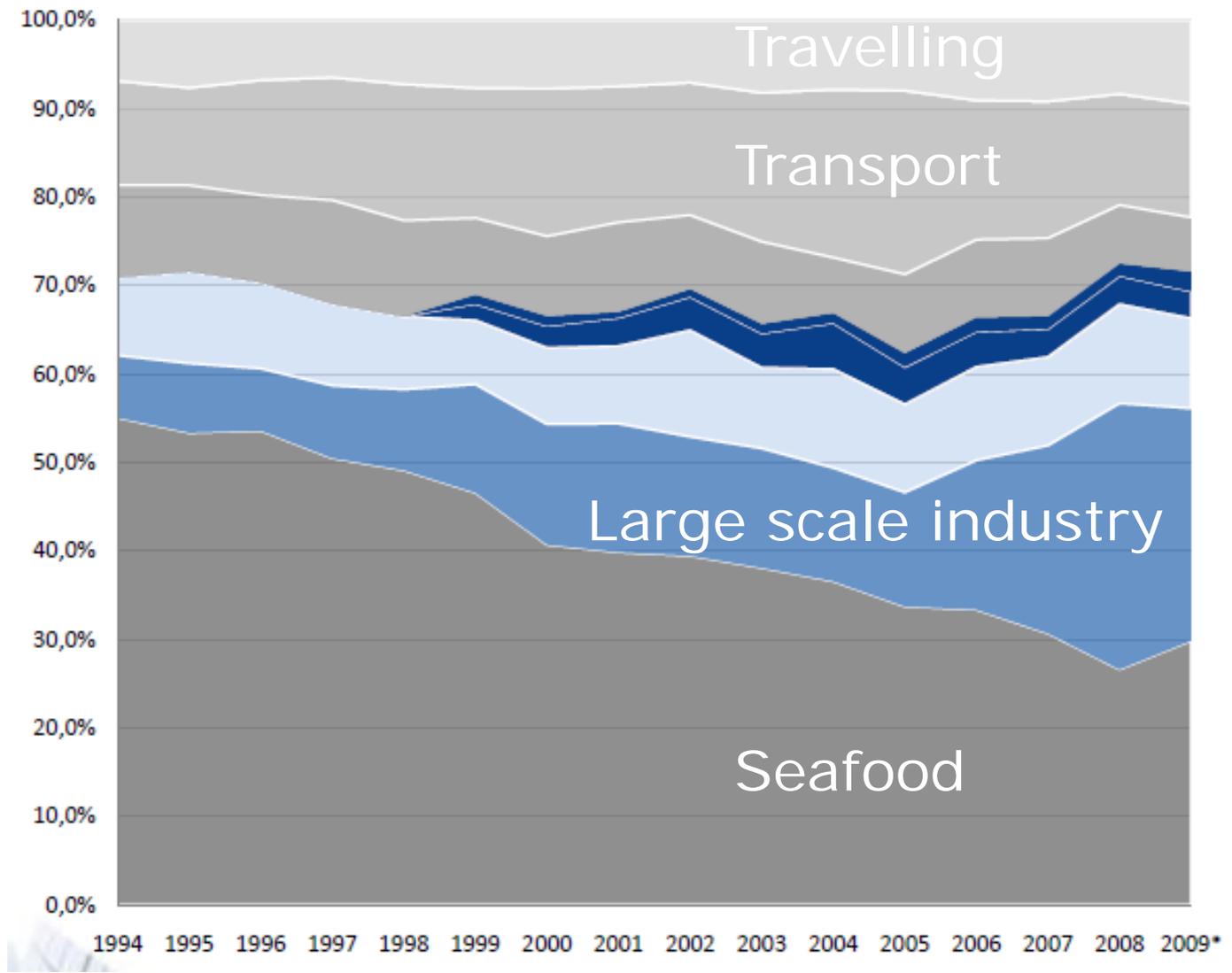


Discarding – a problem?

Year	Cod	Haddock
2001	1.80%	3.00%
2002	1.00%	4.90%
2003	0.40%	5.80%
2004	0.60%	3.10%
2005	1.27%	5.24%
2006	1.45%	2.60%
2007	1.51%	2.04%
2008	0.79%	1.93%
2009	0.49%	0.69%

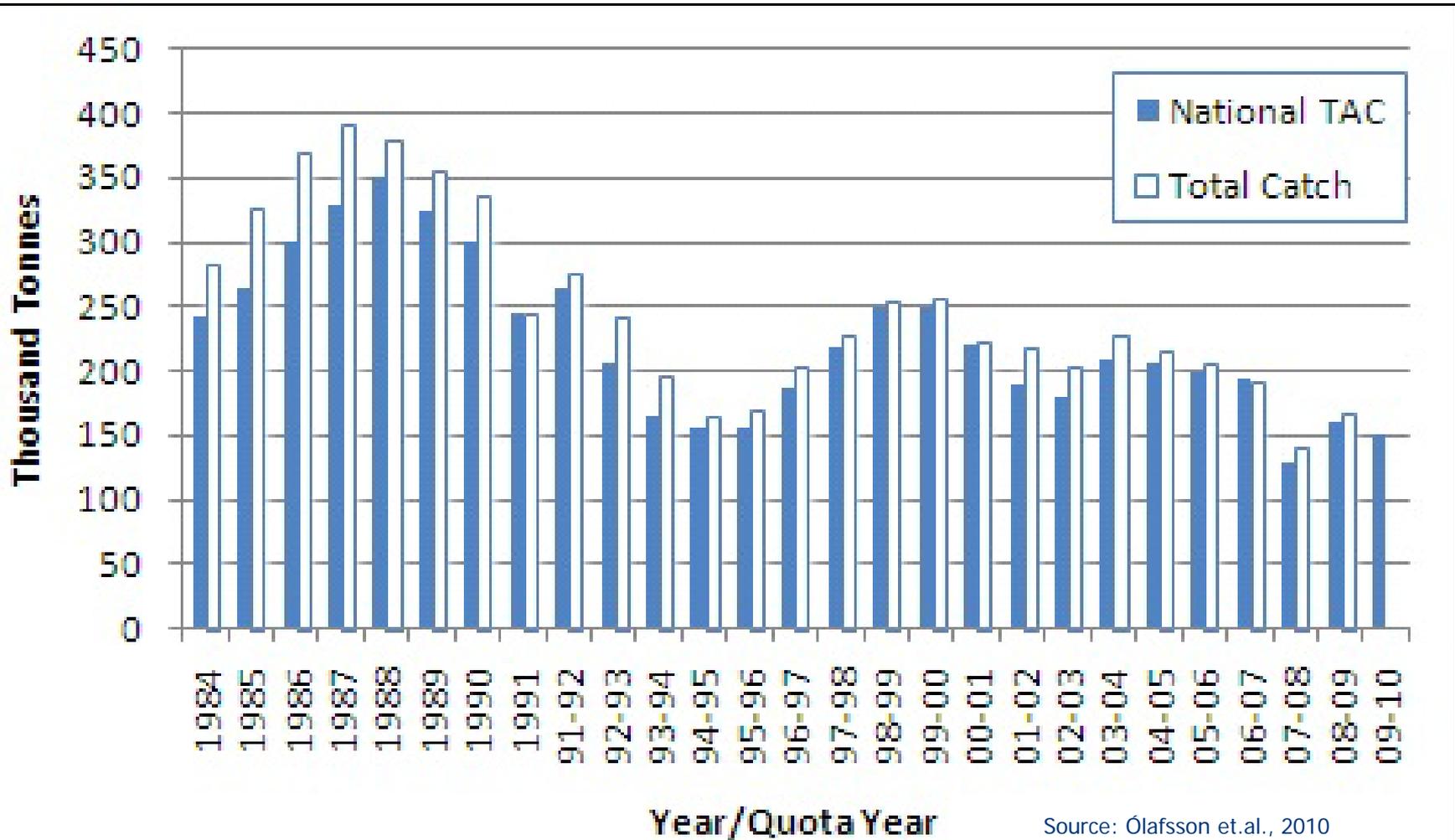
Source: The marine Research
Institute: Pálsson et. al 2002-2010.

Export value distribution 1994-2009

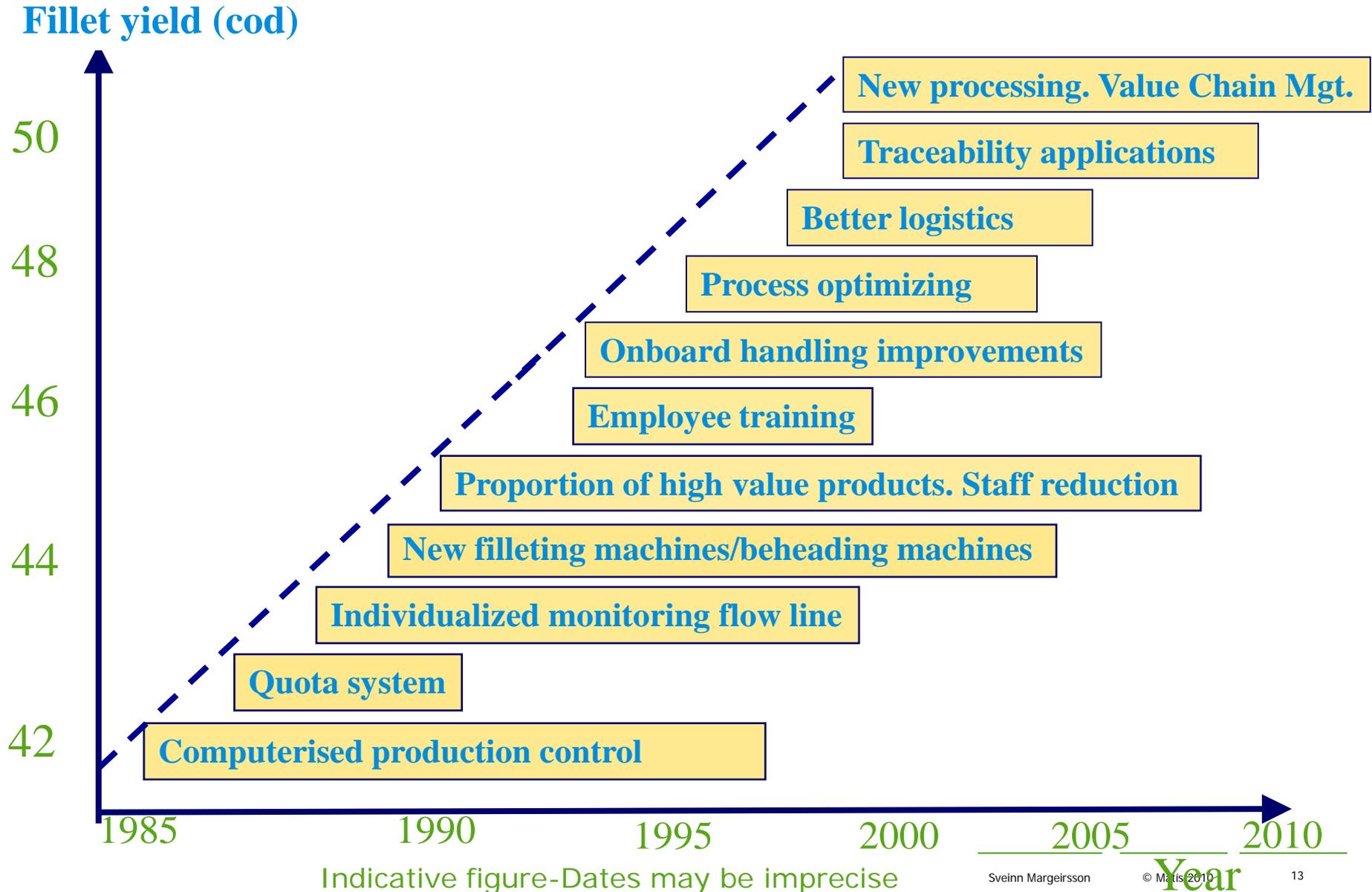


Ref: Statistics Iceland and Federation of Icelandic industries

Quantity vs value - Less is more? The case of cod



Is gear only “fishing gear”?



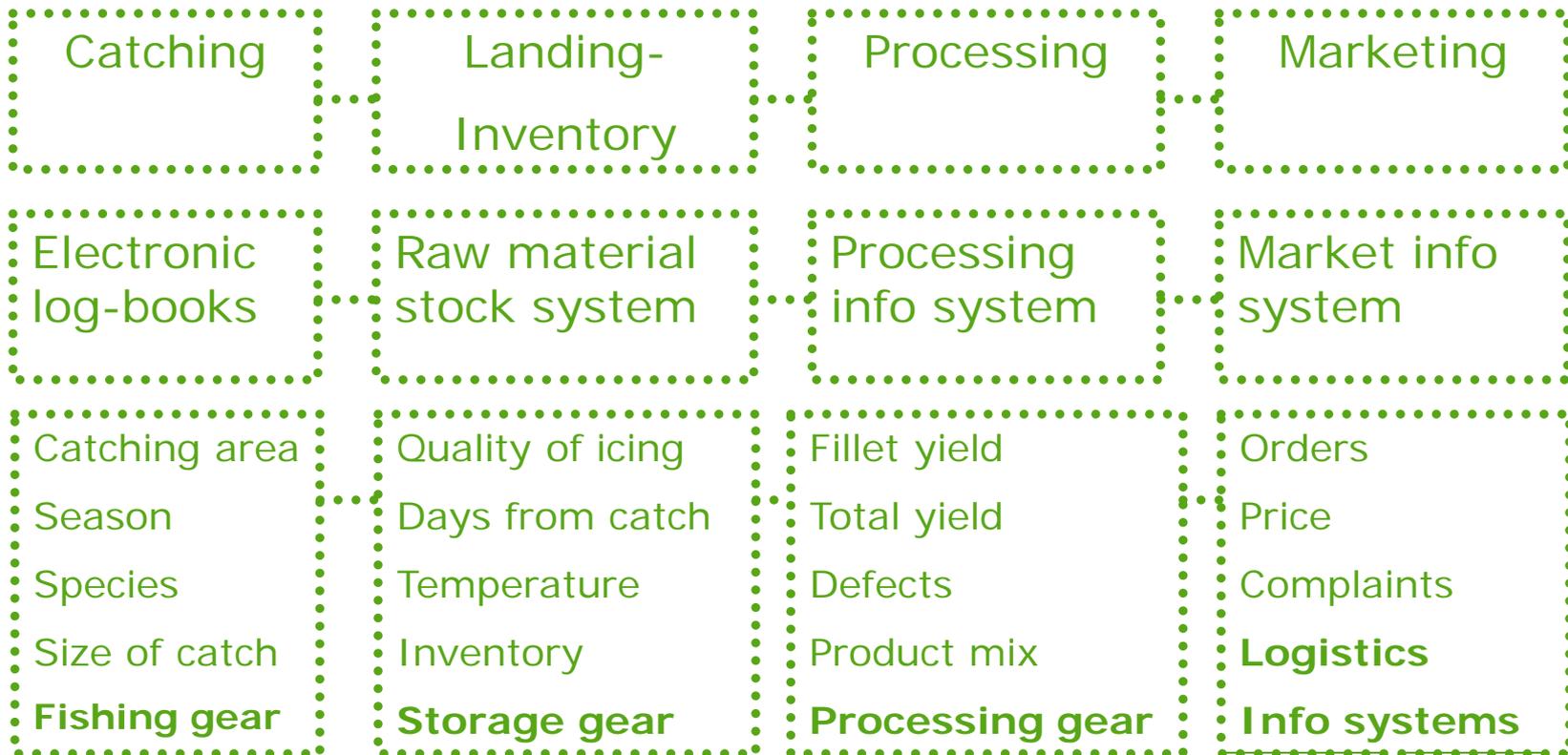
The value chain



No chain is stronger than the weakest link



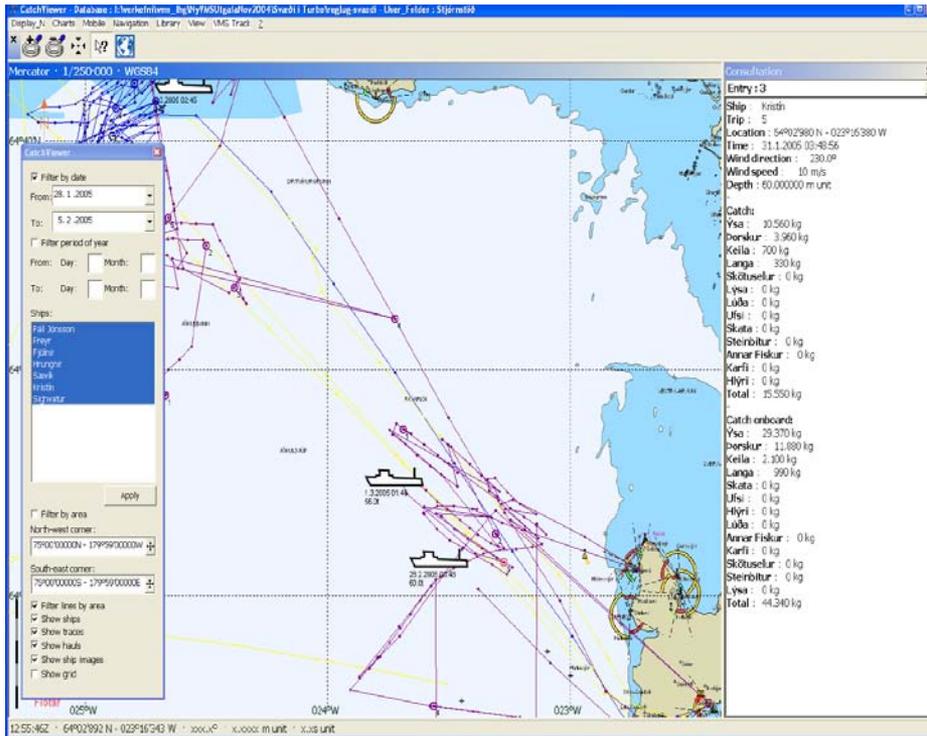
Value chain gear – what fits best?



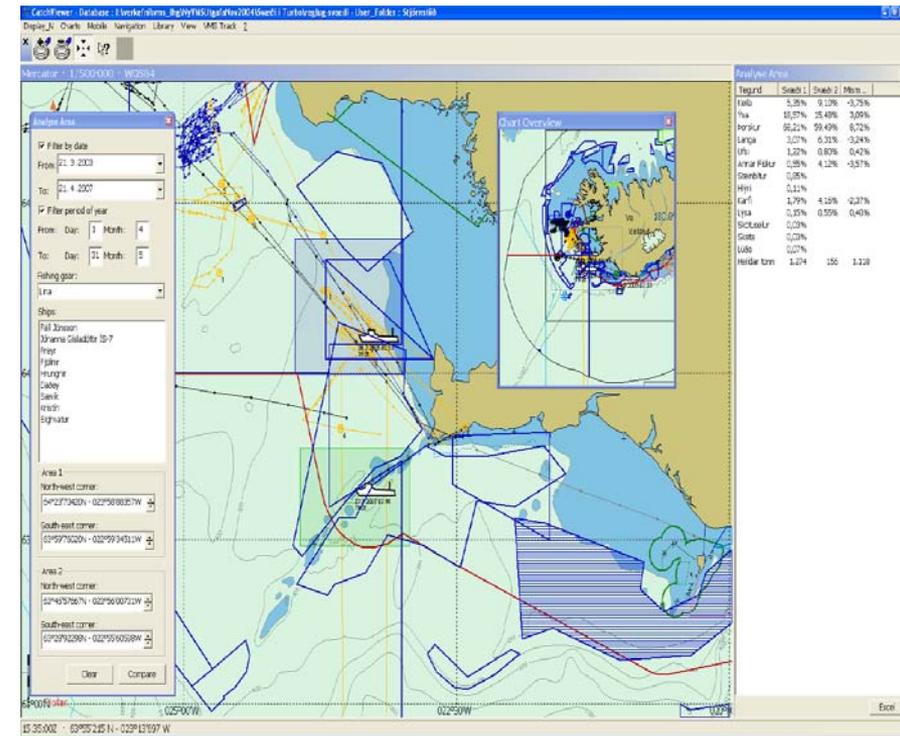


- **Hundreds of vessels already reporting electronically**
- **The captain enters the catch, by hauls or days depending on type of fisheries.**
- **Fishing gear data included**
- **Catch reports and detailed log of positions received by the Directorate of Fisheries and the Marine Research Institute**
- **Data compared to landing data by the Directorate of Fisheries**
- **Catch- and activity data made available to vessel owners**

Fisheries Control – Catch and Effort Reporting System

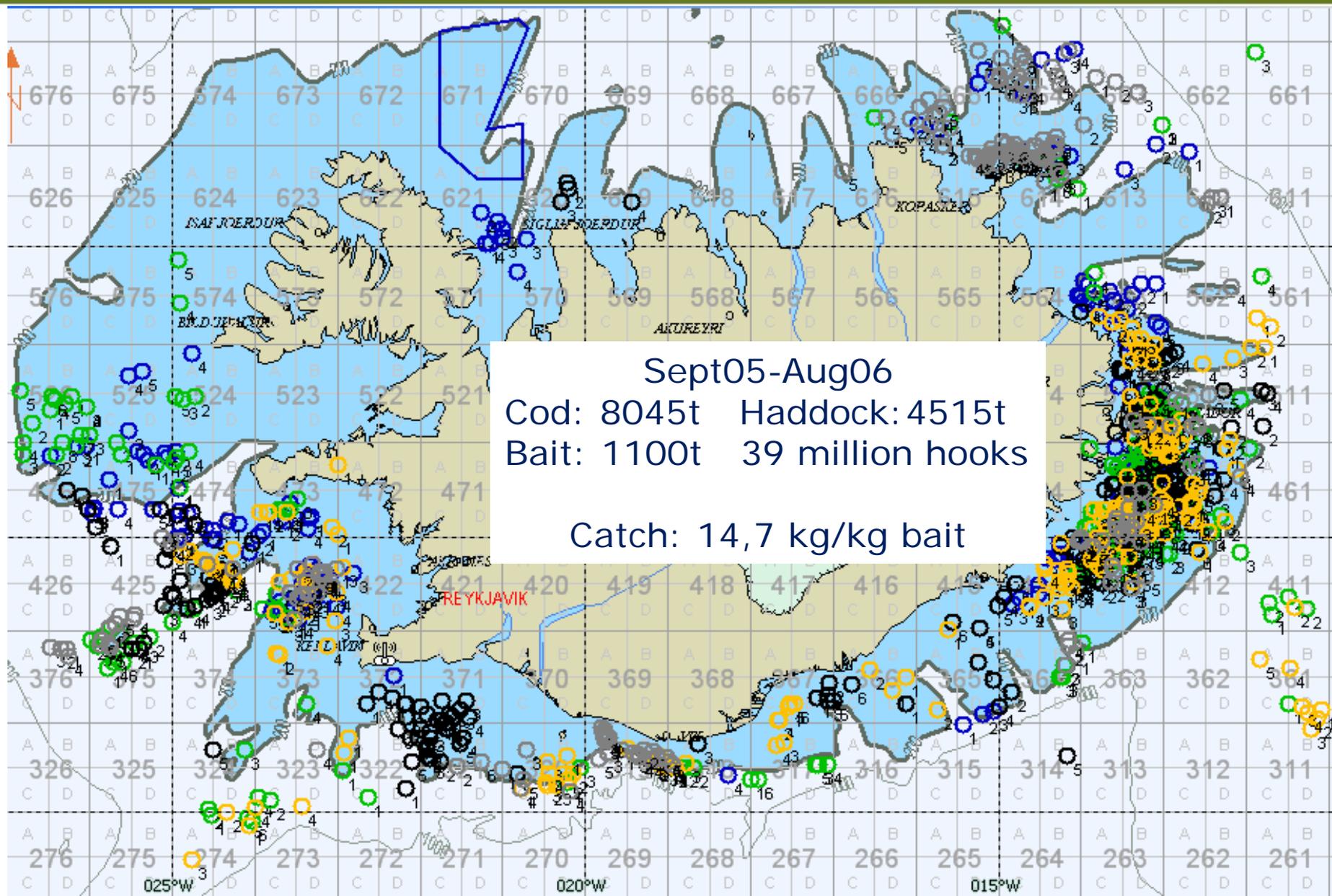


Analysis of trails and catch



Comparison of fishing areas

Visir hf: Catching ground and season comparison



Landing – Inventory – ‘Traceability gear’

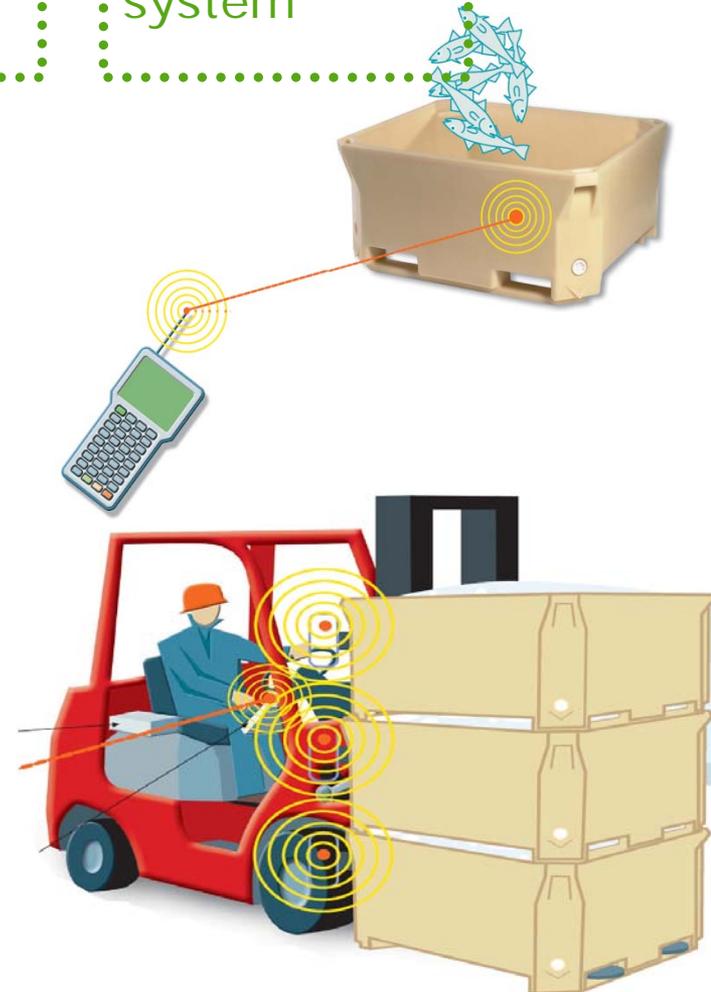


Electronic log-books

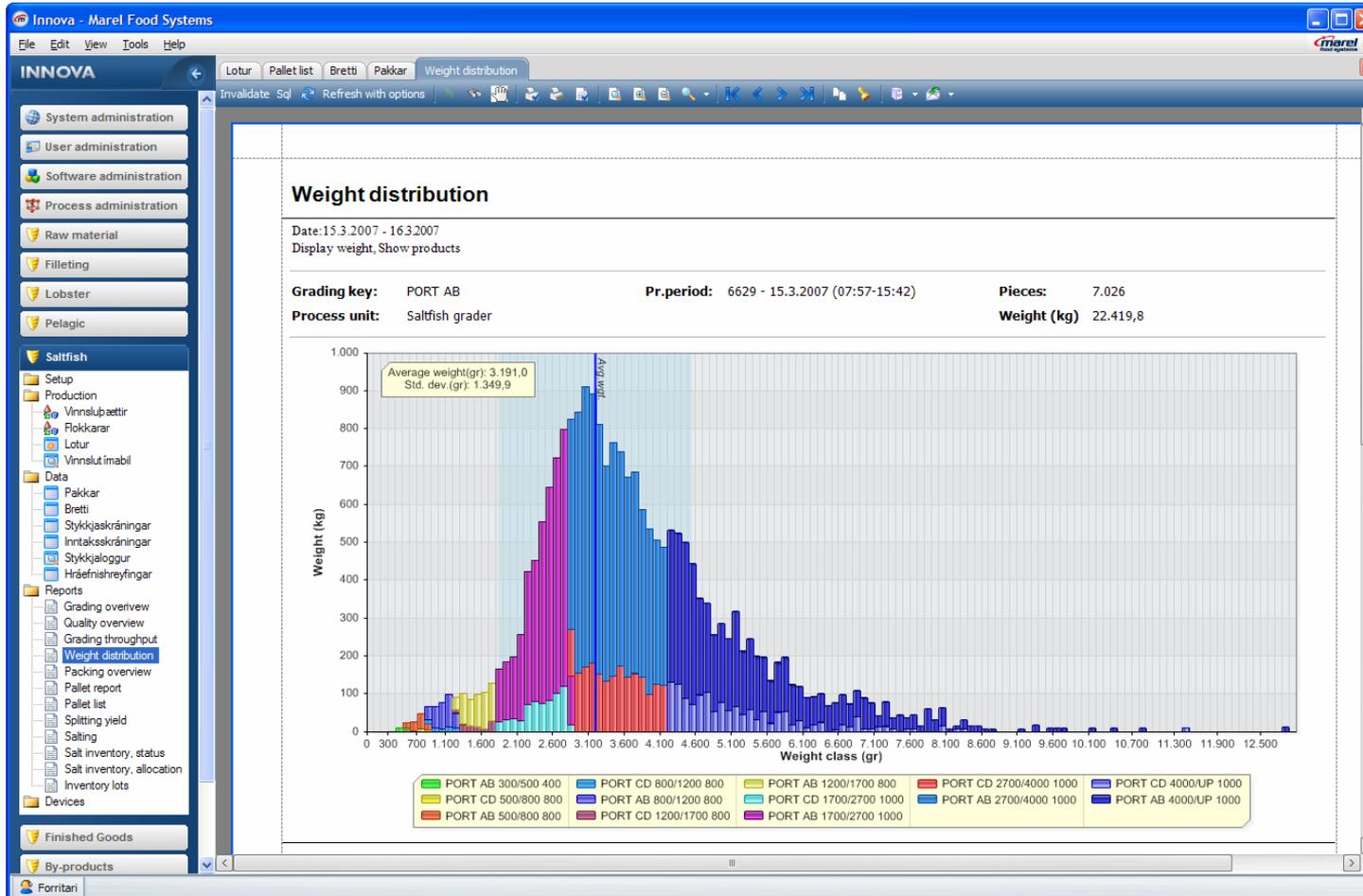
Raw material stock system

Processing info system

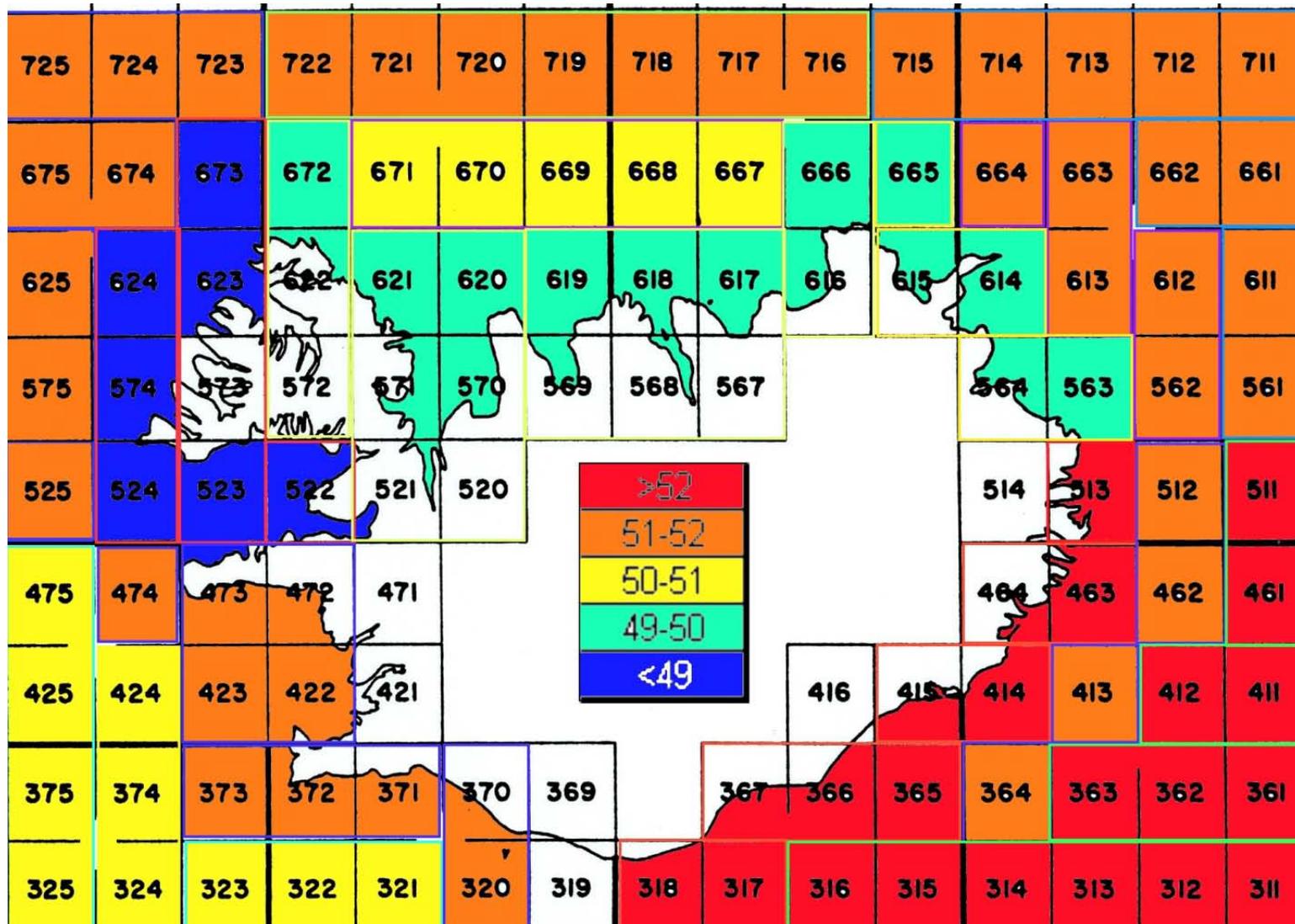
Market info system



Processing: such vast amount of information



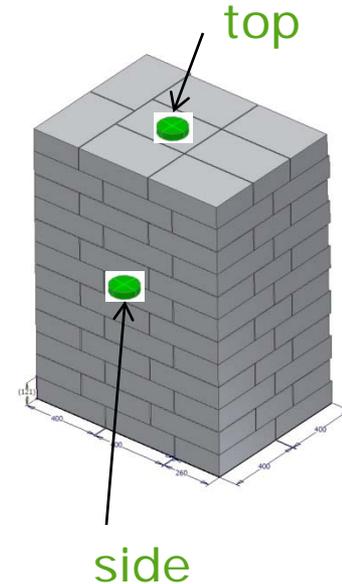
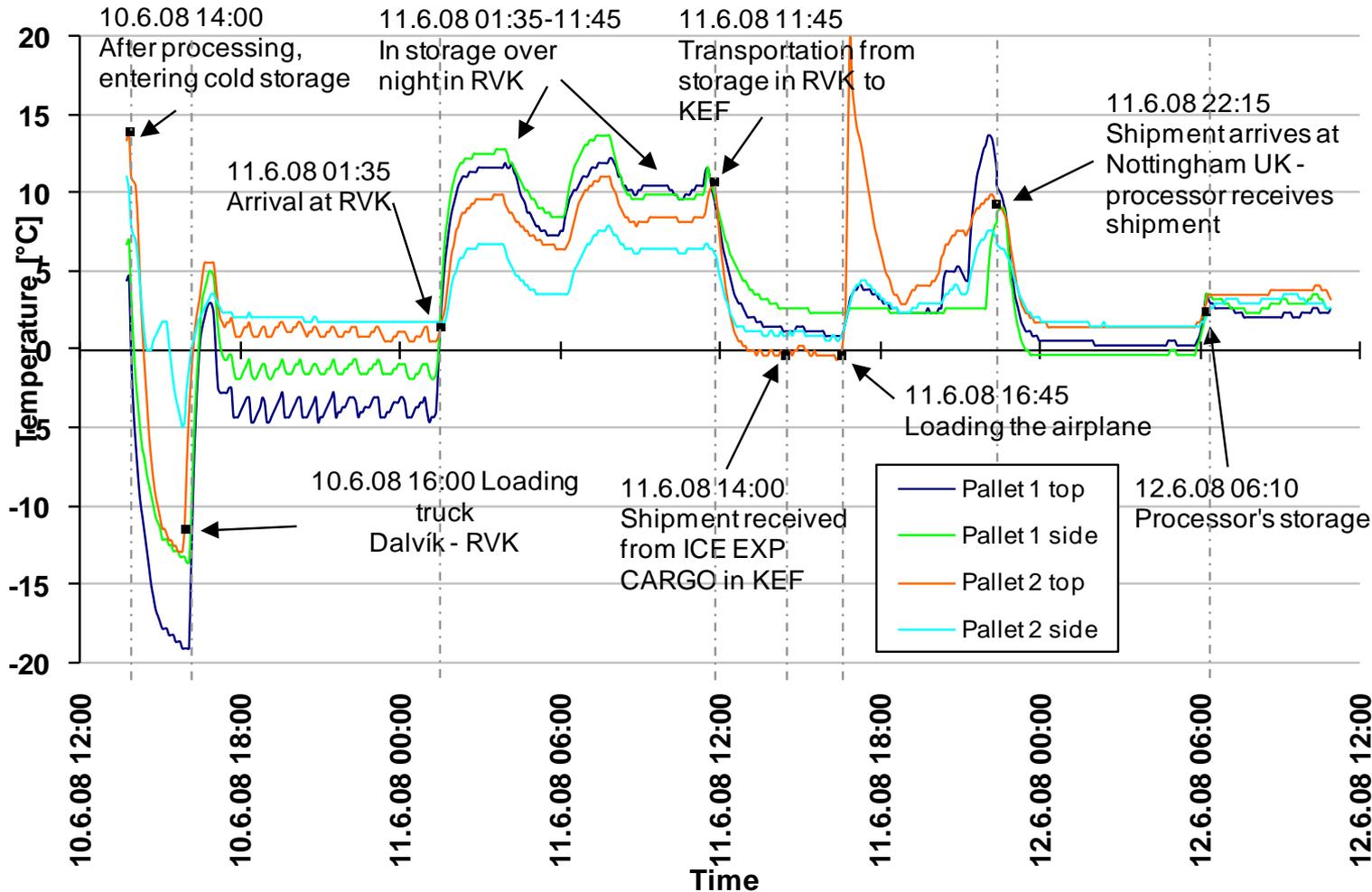
Application of traceability – analysis of fillet yield



Value chain and cooling management

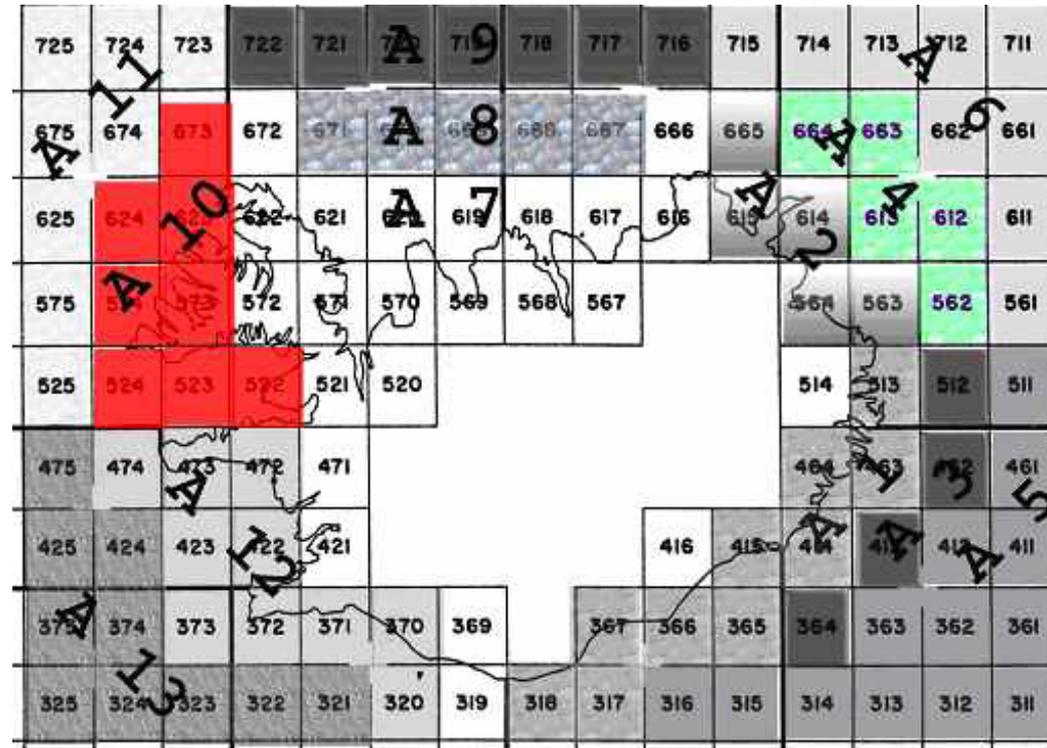


Ambient air temperature.



Main Variables

- **Catching**
Amount of fish caught at fishing ground i at season j .
- **Distribution of caught fish.**
Fish Processing
Domestic market
Export market
- **Fish processing**
Product planning



Keyword: Collaboration!



Collaboration between research institutes, seafood industry, service industry and universities

Multidisciplinary projects

Tradition for M.Sc projects.

Ph.D projects becoming common

The industry sees benefits in collaborative research



Environmental Decision Support

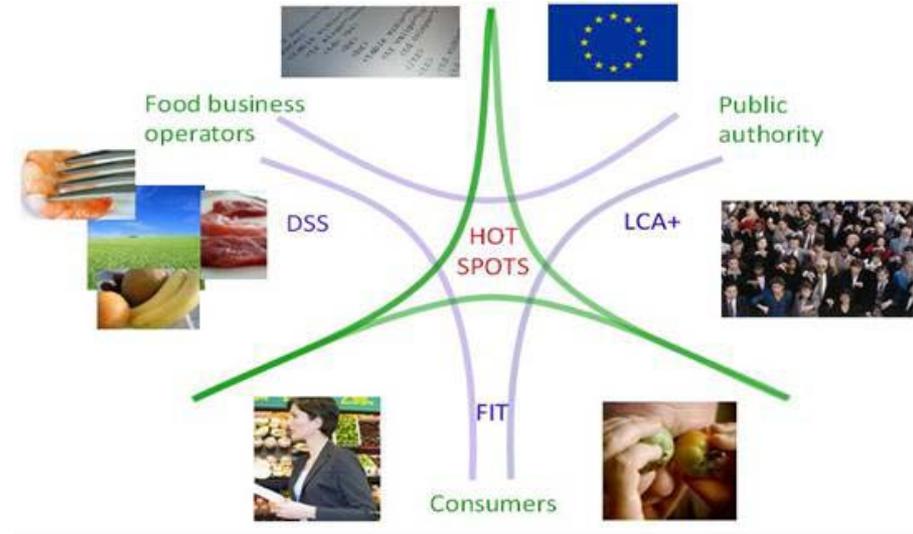
Further automatisation of data collection.

Increase the traceability granularity for further use of data

Respond to demands from the seafood industry and markets

Use data from the industry for more efficient fisheries management

Cut cost of surveillance with more focused inspections



Thank you!

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