# Hrannar Már Ásgeirsson

## Surveillance Department

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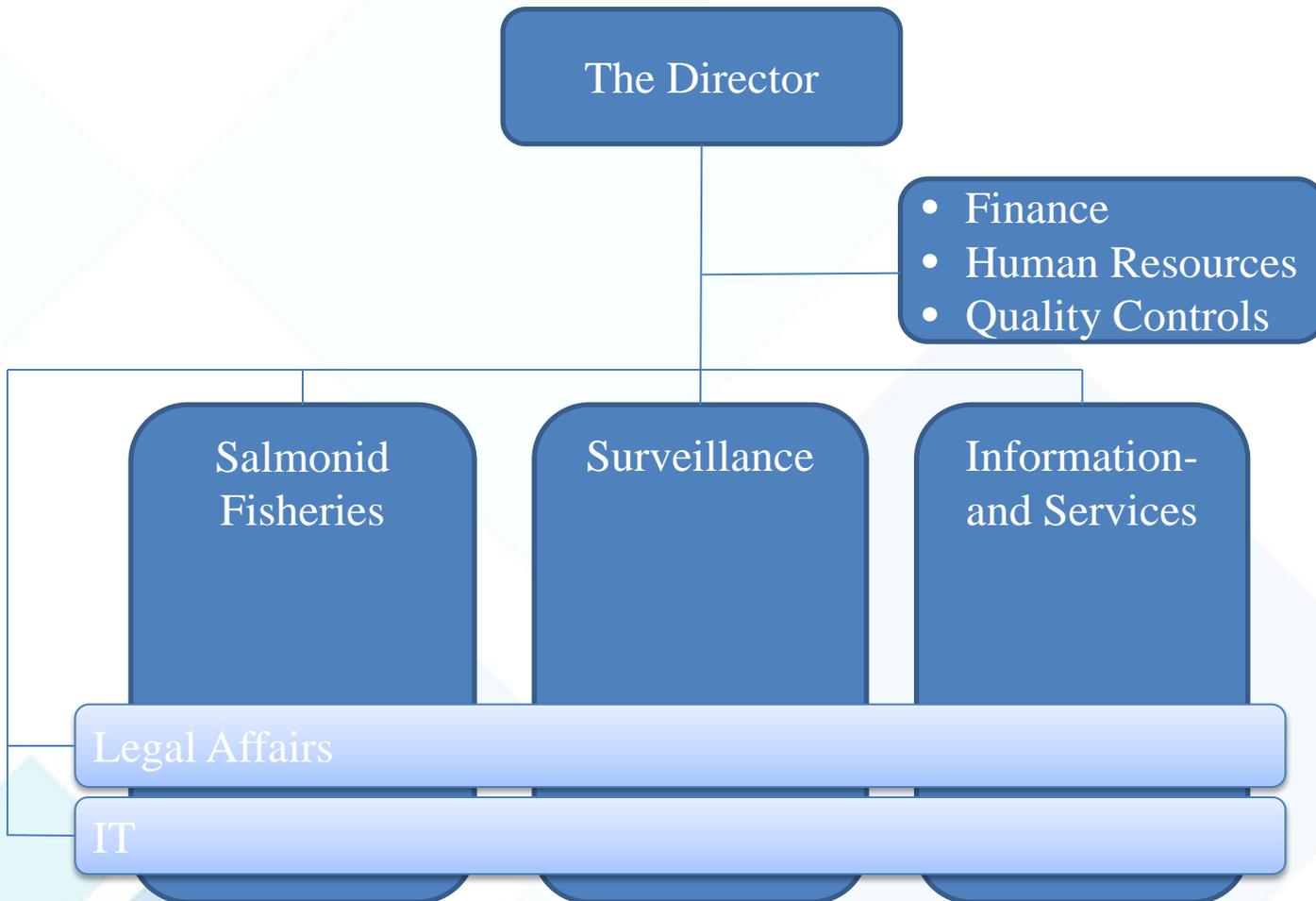
# Surveillance Department and introduction of Tableau

- The DoF is not different from other institutions or private firms.
  - An enormous amount of data (information) that accumulates in the daily activities of the institution as well as use of various external data.
  - The problem was that the surveillance department had limited ability and resources to utilize this data, when it came to fisheries control (Monitoring, Control and surveillance)!
- But why Tableau?
  - After careful consideration and a visit to the DoF in Norway it came very clear that Tableau was something that suited the surveillance department.
  - Is a Business Intelligence Software that can retrieve information from different databases, Excel and other computer-readable documents, with the possibility to join data between them.
  - The software is structured as a "read-only" and therefore very safe.
  - With great potential for data processing and graphic representations, in a very easy way (drag and drop). Thus, the data is easily understood.
  - Suited specialists at the surveillance department very well in regards of education and skill.
  - Implemented at the end of 2013.

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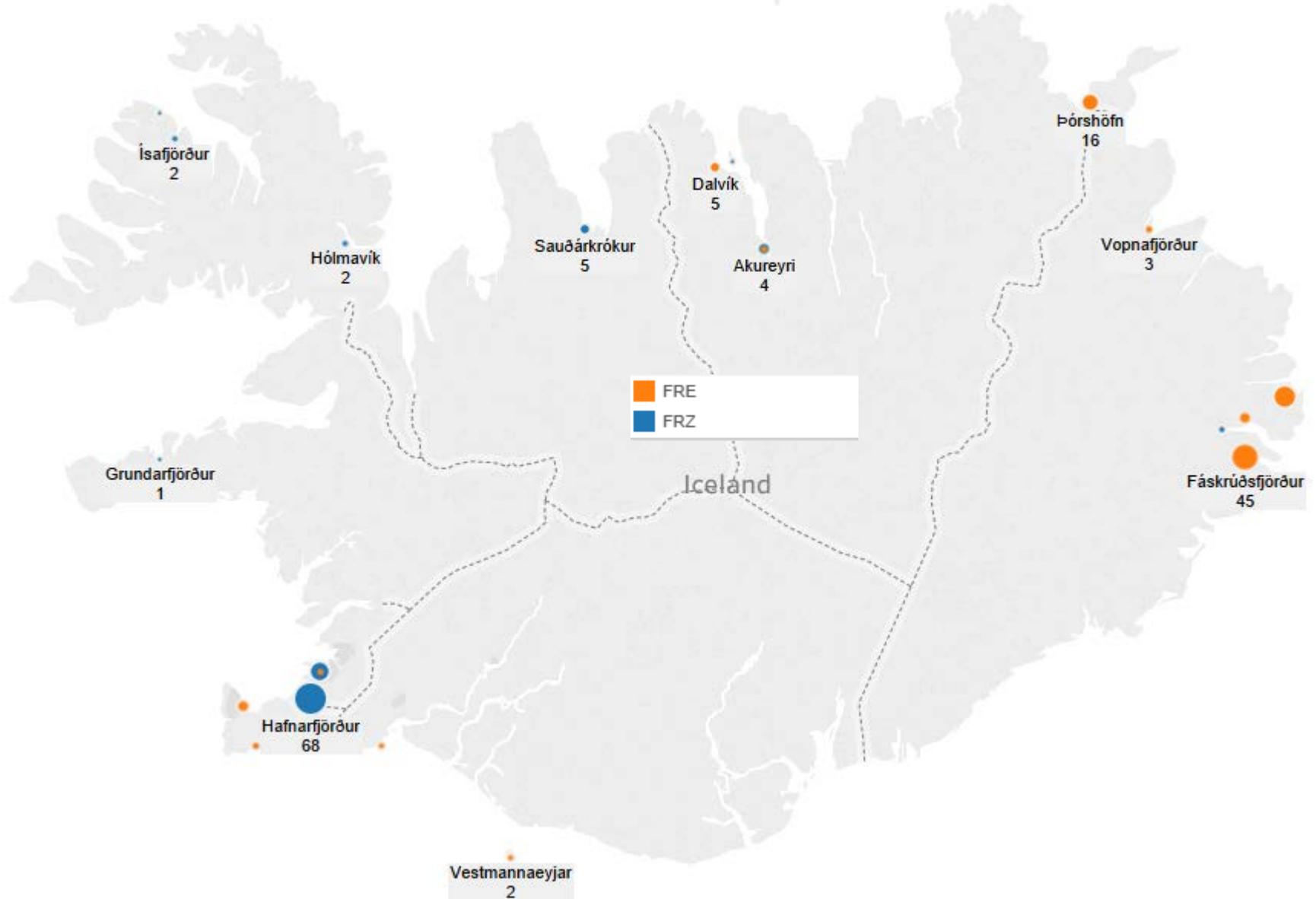DIRECTORATE OF FISHERIES

# What was the overall goal?

- To be sustainable on data
  - Not rely on the IT department when it came to data-mining and quires.
- Knowledge Management.
  - Subjective evaluation <u>VS</u> Facts (Utilization of data).
- Electronic Surveillance.
  - ***Risk Analysis:*** To be able to get a comprehensive overview of risk distribution and periodic monitoring.
  - To be able to observe fishing violations.
- Inspectors at the right place at the right time - leading to better utilization of time, human resources and capital for the DoF.
- The result:
  - Better decisions and more success in relation to fisheries control (MCS)

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# Have we achieved our goals?

- Today the Surveillance Department is sustainable when it comes to use of data and creating quires.
  - Have read-only access to all data (schemas and tables) of the institution through Tableau and can join internal data with external data (Excel doc.)
- Monitoring, Control and Surveillance is carried out with regards to data and analysis (knowledge management):
  - Port State Control - Example
- We have successfully implemented electronic surveillance:
  - Designed 12 queries that are run on a regular basis.
  - Examples: Lumpfish.
  - Infringement: Export of fish (gámafiskur).
- We can say that we have achieved our goals, but we can always do better and the final goal is www.youtube.com/watch?v=iY3WRvXVogo
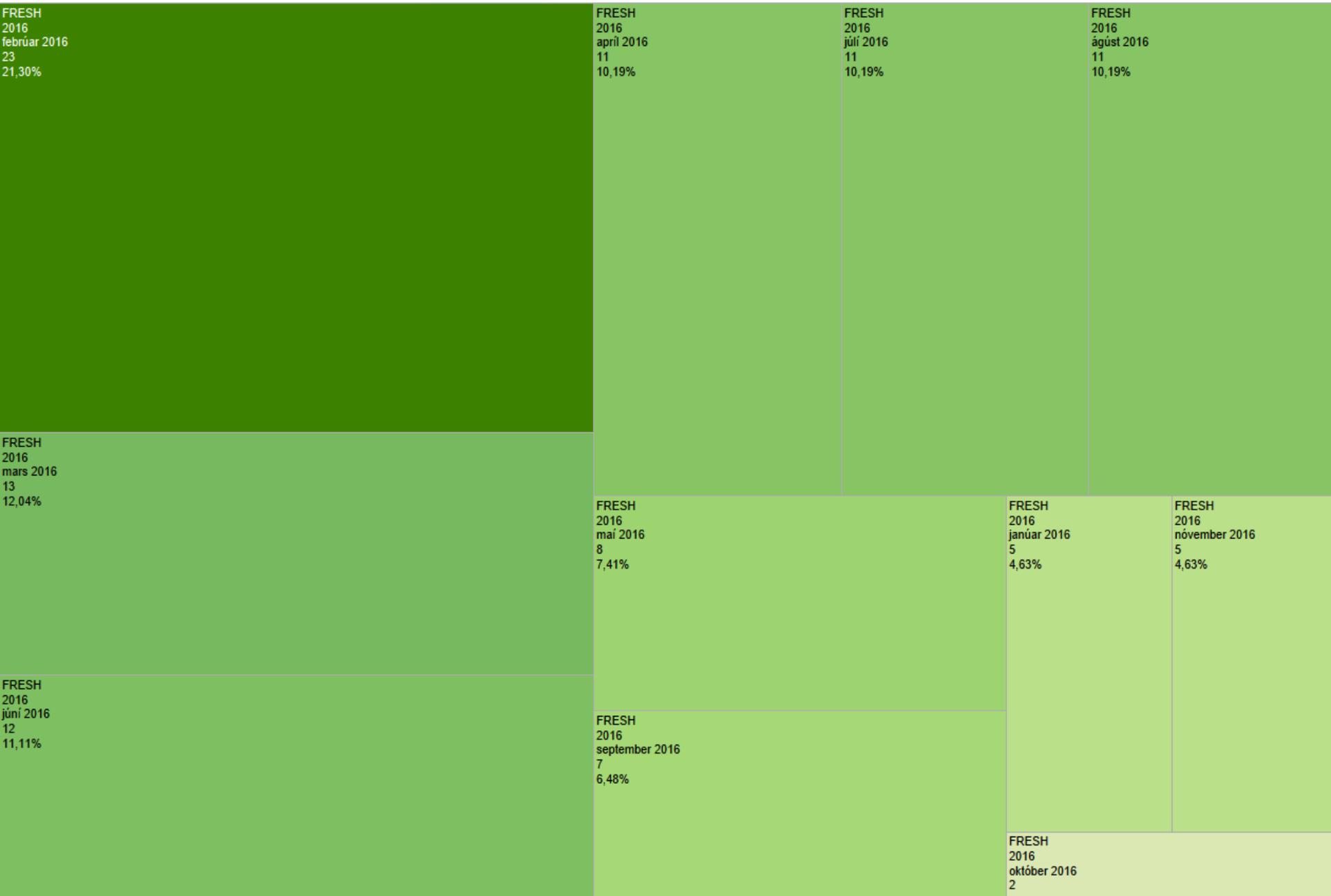
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# Foreign vessels - Fresh VS Frozen landings in Iceland 2016

# Foreign vessels - Number of Landings (FRZ) by month in 2016



FROZEN
2016
ágúst 2016
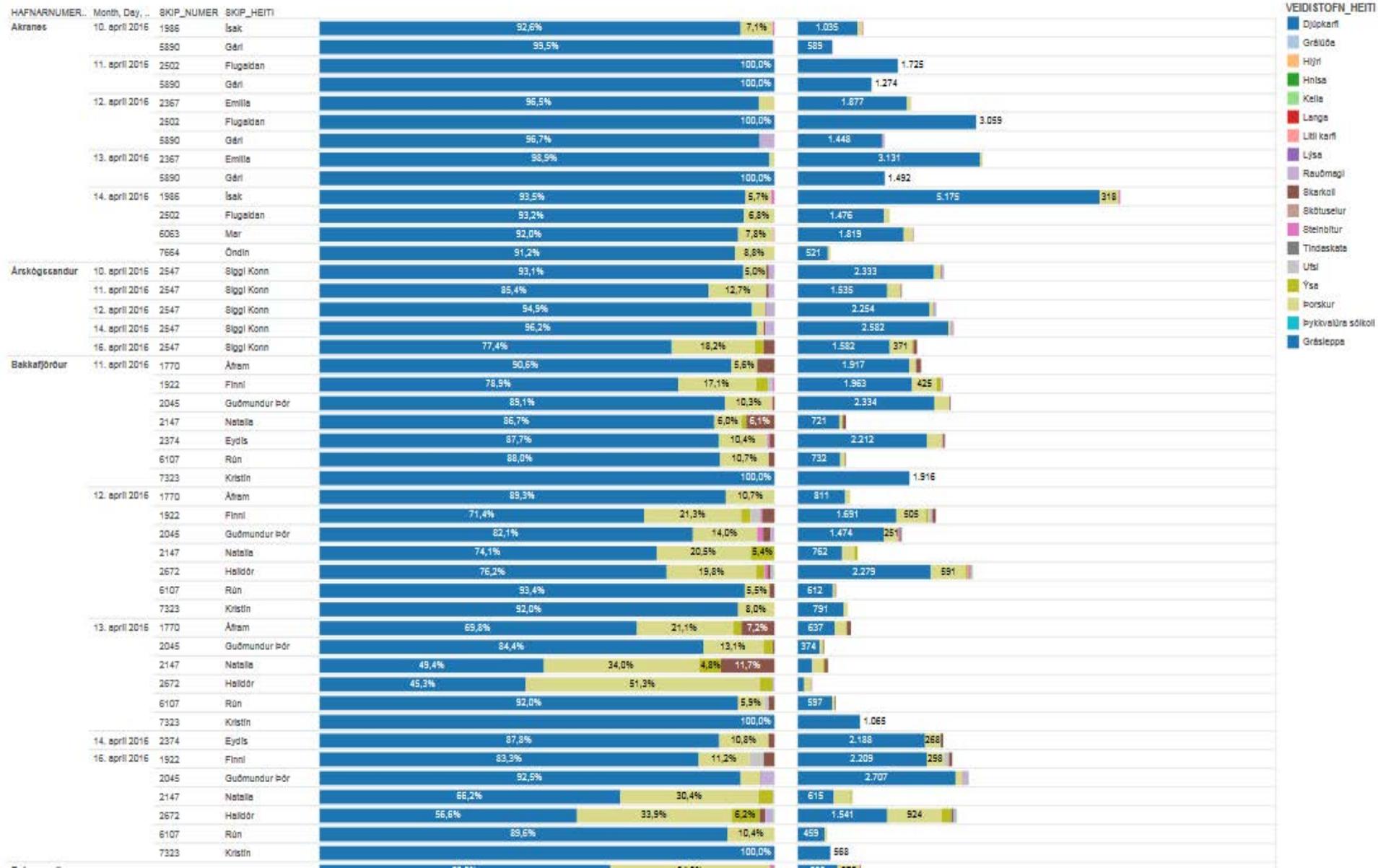18
18,18%

FROZEN
2016
júlí 2016
12
12,12%

FROZEN
2016
september 2016
10
10,10%

FROZEN
2016
apríl 2016
9
9,09%

FROZEN
2016
maí 2016
12
12,12%

FROZEN
2016
febrúar 2016
7
7,07%

FROZEN
2016
mars 2016
4
4,04%

FROZEN
2016
nóvember 2016
4
4,04%

FROZEN
2016
júní 2016
12
12,12%

FROZEN
2016
janúar 2016
6
6,06%

FROZEN
2016
október 2016
4
4,04%

FROZEN
2016
desember 2016
1
1,01%

# Foreign vessels - Number of Landings (FRE) – by month in 2016



FRESH
2016
febrúar 2016
23
21,30%

FRESH
2016
apríl 2016
11
10,19%

FRESH
2016
júlí 2016
11
10,19%

FRESH
2016
ágúst 2016
11
10,19%

FRESH
2016
mars 2016
13
12,04%

FRESH
2016
maí 2016
8
7,41%

FRESH
2016
janúar 2016
5
4,63%

FRESH
2016
nóvember 2016
5
4,63%

FRESH
2016
júní 2016
12
11,11%

FRESH
2016
september 2016
7
6,48%

FRESH
2016
október 2016
2

# Lumpfish fisheries – By catch