



# Fjórða iðnbýltingin og framtíð starfa í sjávarútvegi

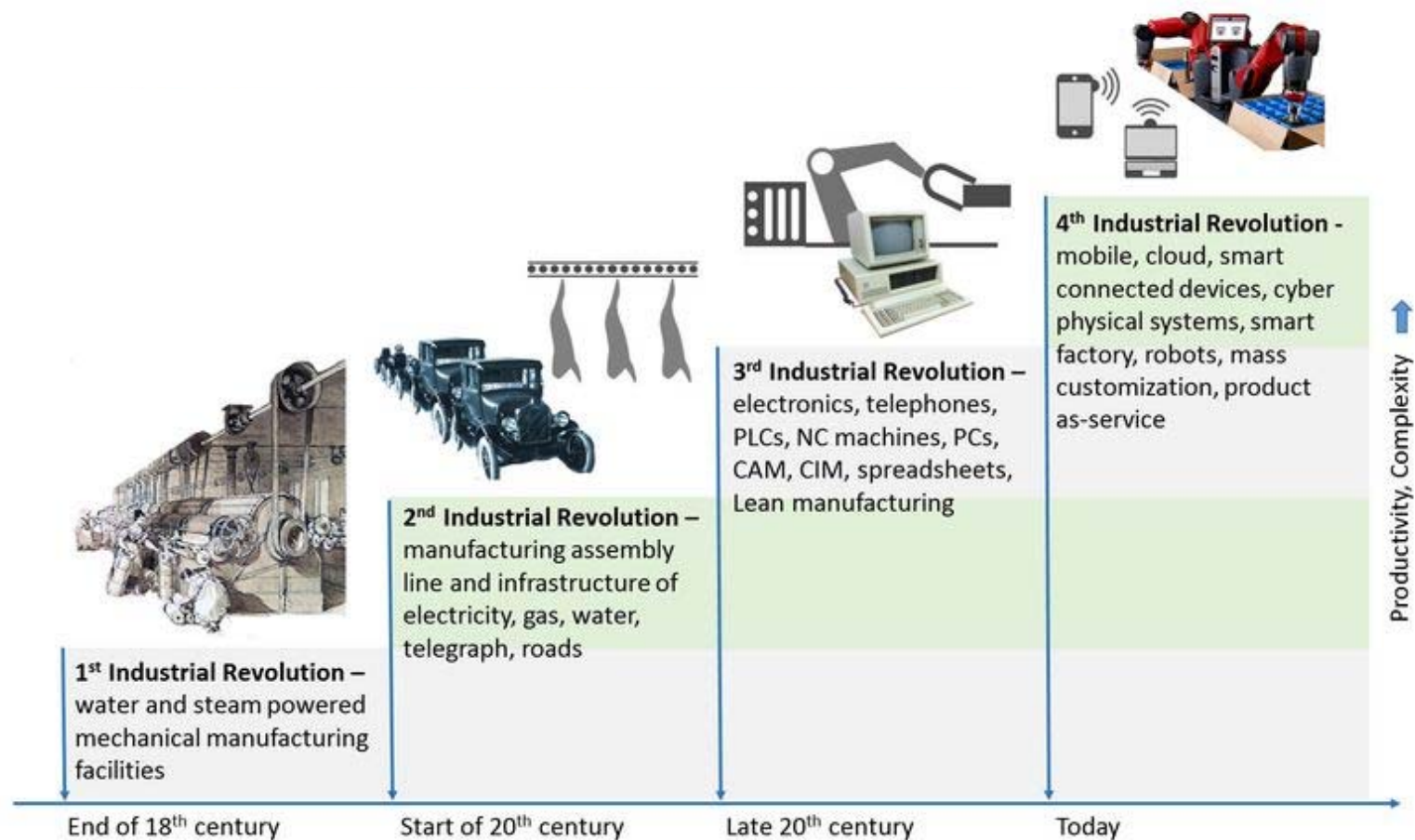
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Prófessor

Forseti

Viðskiptadeild

# Fjórfra iðnbýltingin



# Breytingahraði



# AUTOMATION

## Sjálfvirknivæðing

“tækni sem notuð er til að ferli geti farið fram án aðkomu mannsins”  
(Wikipedia)





# Breytingar á störfum

## Largest job growth and job loss

Deloitte's industry-by-industry analysis suggests that the impact of automation is already being felt in sectors where a high proportion of jobs have a high chance of being automated.

The three sectors with the largest loss of jobs between 2001 and 2015 were:

- **Manufacturing** – 720,000 net jobs lost, 650,000 (90%) of which had a high chance of automation.
- **Wholesale & retail** – Overall loss of 338,000 jobs, 239,000 (71%) of which had a high chance of automation.
- **Professional, scientific & technical roles** – Overall loss of 269,000 jobs which had a high chance of automation. However, the sector also saw growth of jobs with a low chance.

The three sectors with the highest job growth were:

- **Health & social work** – 1,100,000 jobs created, 660,000 (60%) of which have a low chance of automation.
- **Education** – 746,000 jobs created, 461,000 (62%) of which have a low chance of automation.
- **Professional, scientific & technical roles** – Though seeing one of the largest losses of jobs at high risk, 650,000 jobs were created, 575,000 (88%) of which have a low chance of automation.

# Deloitte.

*UK Industry sector analysis 2016*



# Stafvæðing DIGITALIZATION

....notkun upplýsingatækni til að  
breyta viðskiptalíkönun, skapa  
nýjar tekjulindir og breyta  
verðmætasköpun  
(Gartner)

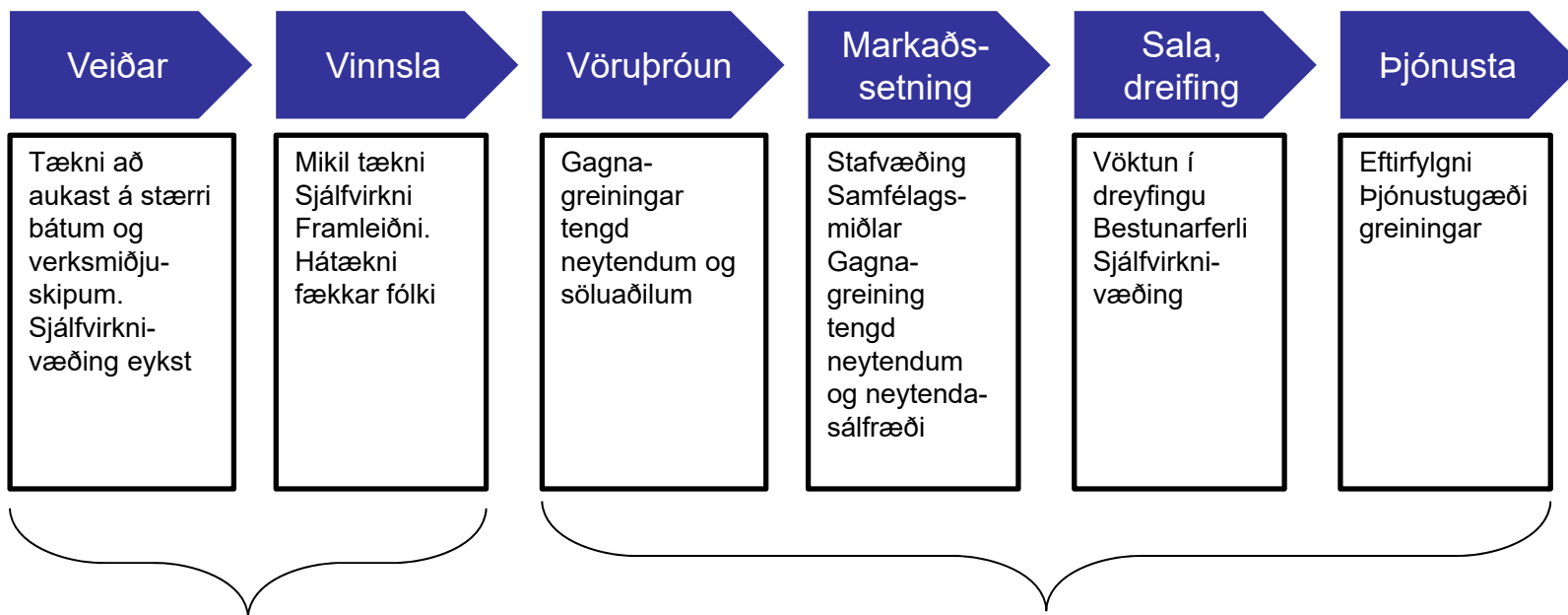
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# Virðiskeðja sjávarútvegs

Stjórnun: Almenn framkvæmdastjórn og stýring rekstrareininga



**Sjálfvirknivæðing**

**Stafvæðing**

## VÍSIR TAKES NEXT STEP IN AUTOMATION

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29 Jan 2018

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**Fishing and processing company Visir, based at Grindavik in the south of Iceland, has installed a Marel FleXitrim system.**

This new flowline streamlines the infeed of pre-trimmed fillets to the FleXicut system and enables automatic quality control. This new flowline replaces the trimming line concept that has been an essential part of fish processing in Iceland until now.

Since Visir's new factory opened in 2014 with the FleXicut automatic pinboning and portioning machine, constant alterations have been made to improve the flow and increase quality. FleXitrim is a major step forward in this continuing development. It further reduces the amount of manual labour needed in trimming and automates quality control, by tracing each fillet to individual operators and providing bone detection feedback from the FleXicut.



Fishing and processing company Visir has installed a Marel FleXitrim, complementing its FleXicut pinboning and portioning machine





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## Blockchain could revolutionize seafood traceability

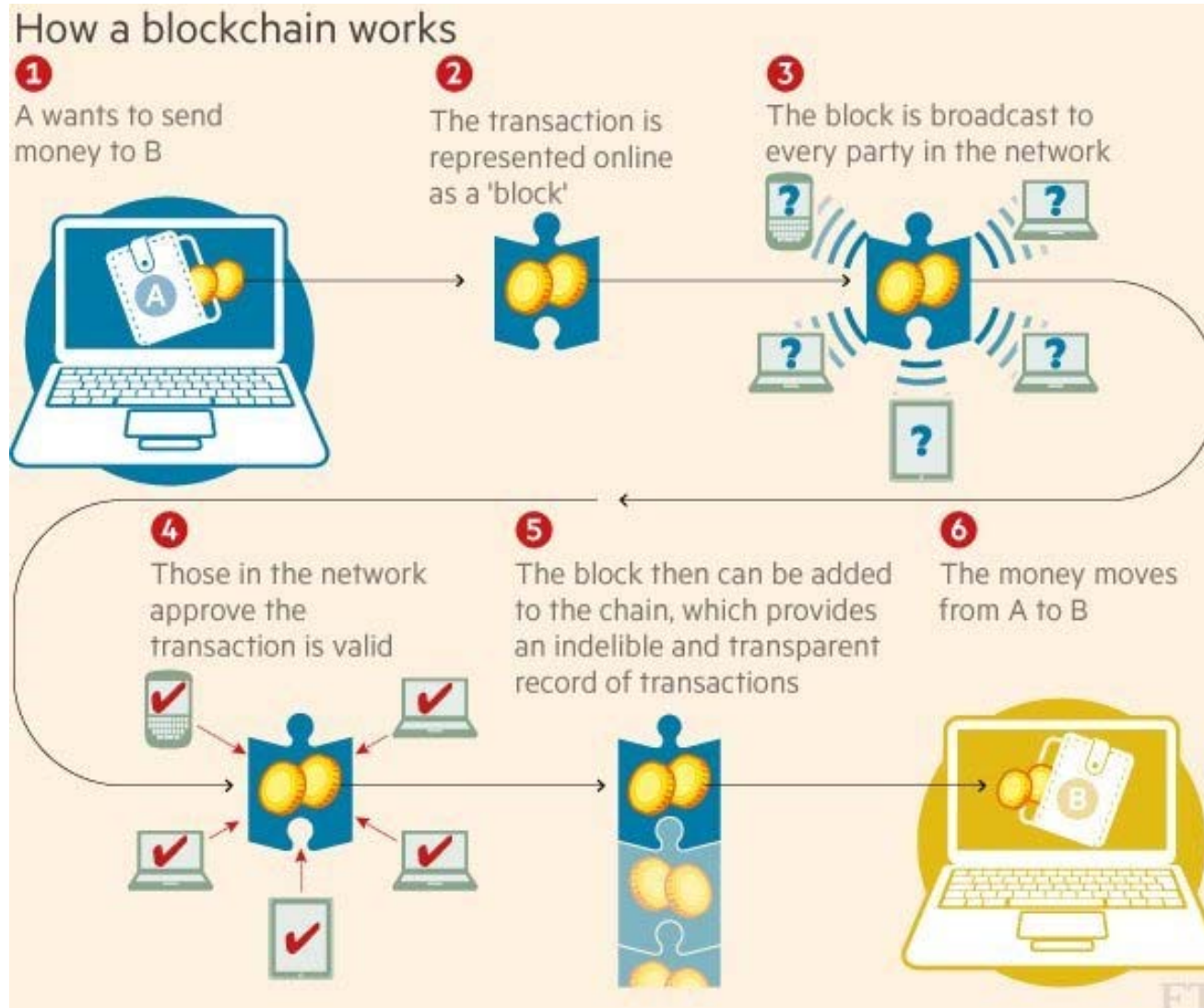
By Aaron Orlowski

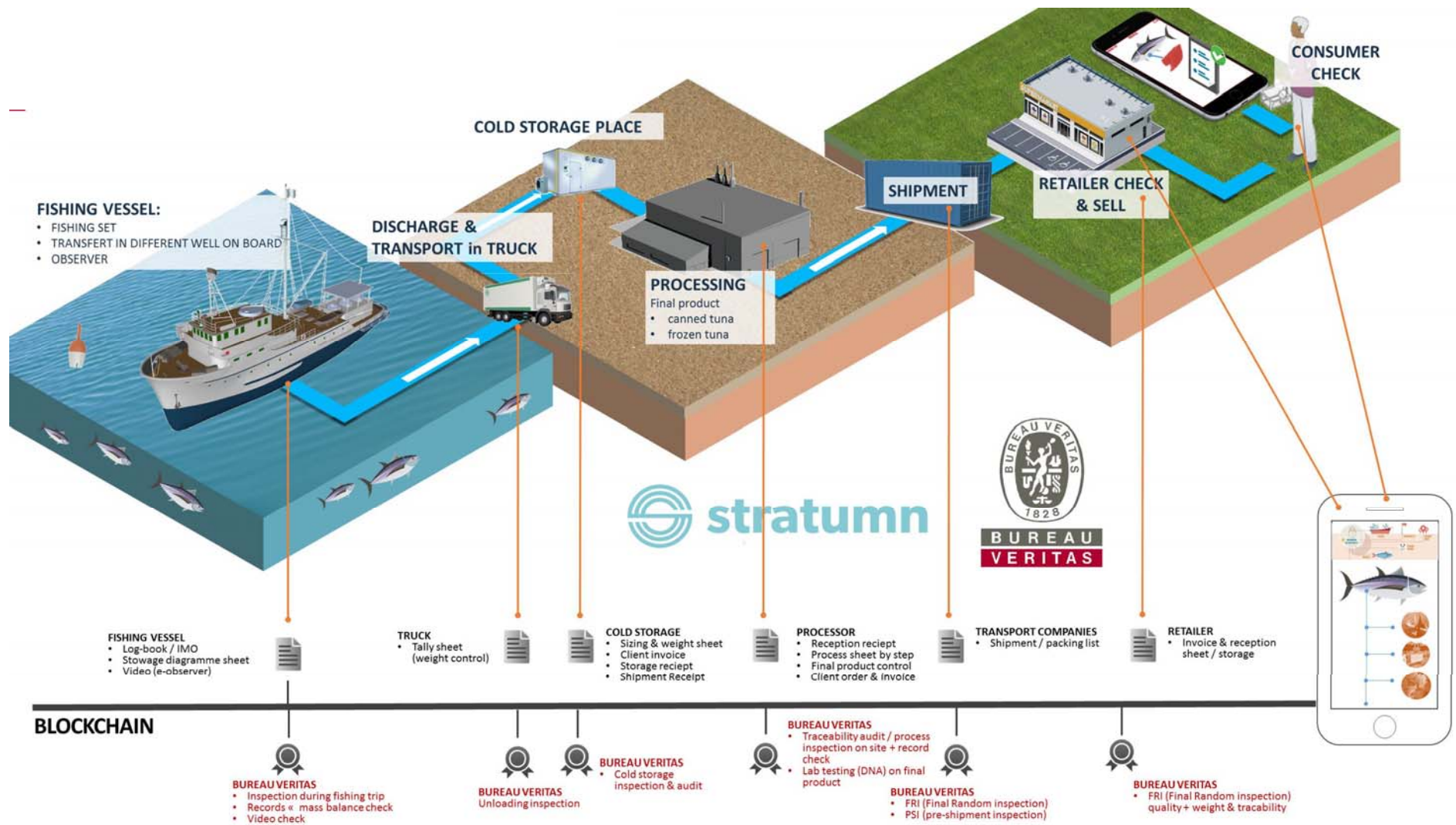
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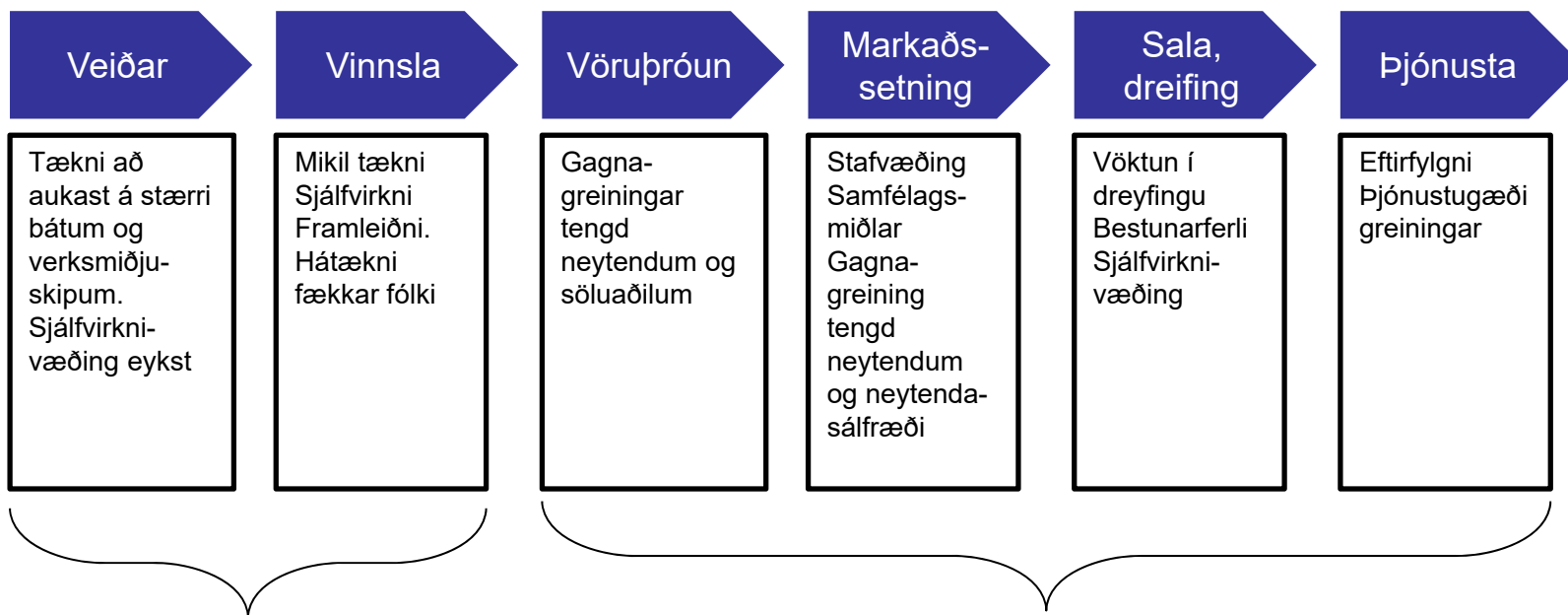
# Blockchain / Bitakeōja





# Virðiskeðja sjávarútvegs

Stjórnun: Almenn framkvæmdastjórn og stýring rekstrareininga



**Færri störf**  
**Meira hugvit**

**Fleiri störf**  
**Meira hugvit**



**Takk**