Workshop

Transborder climate risk— Agriculture in Klepp municipality

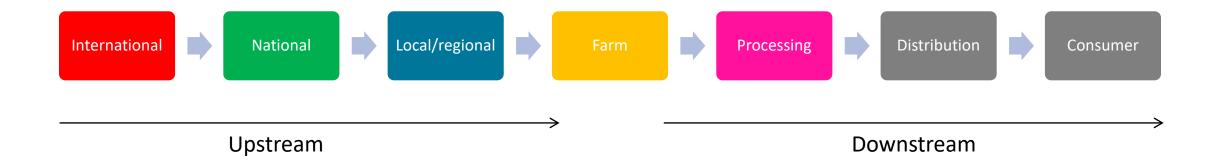


Arbeidsverkstad | Teams | 31.05.2021 | Carlo Aall og Tara B. Holm

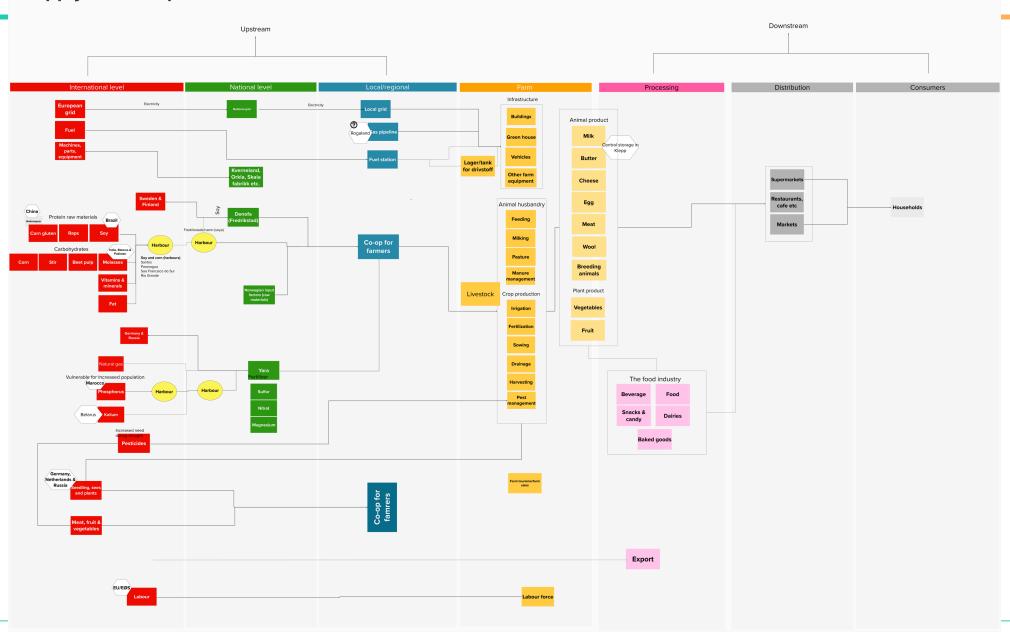




Value chain



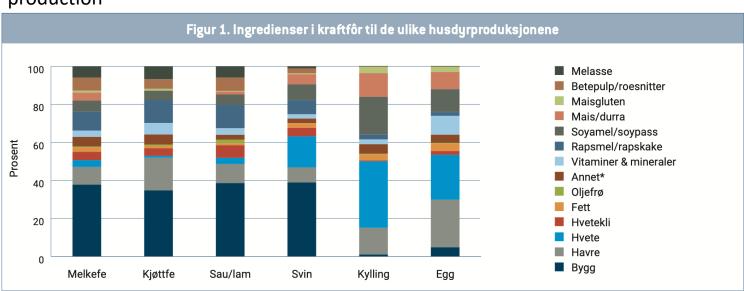
Supply chain - upstream and downstream

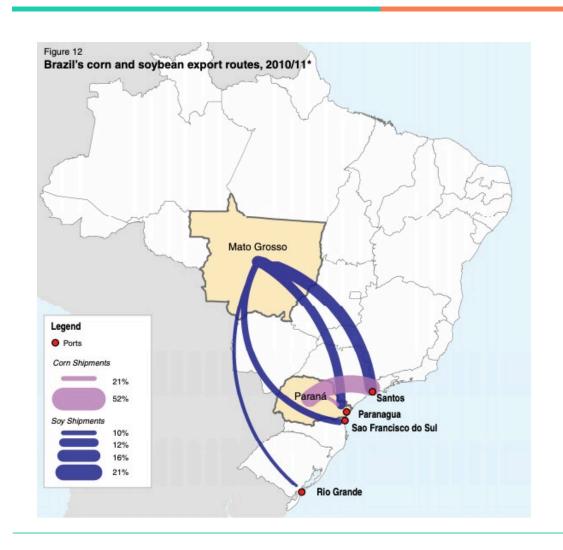


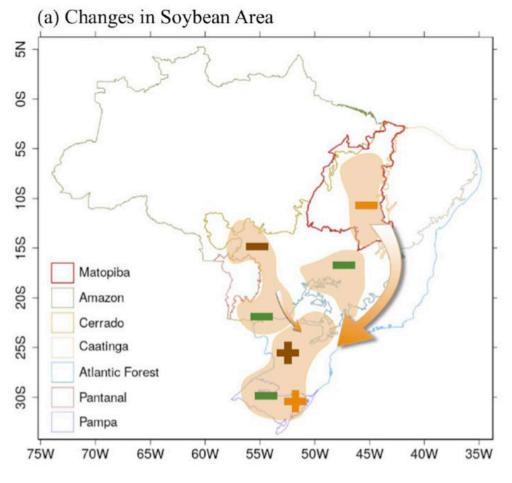
Problemstillingar

- 1. Soy
- 2. Other input factors?
- 3. Domestic climate risk in domestic transportation/storage
- 4. Disregard this time: Local production conditions affected by climate (treated in the first workshop the municipality will look further into local climate risk)
- 5. Downstream climate risk connected to distribution?

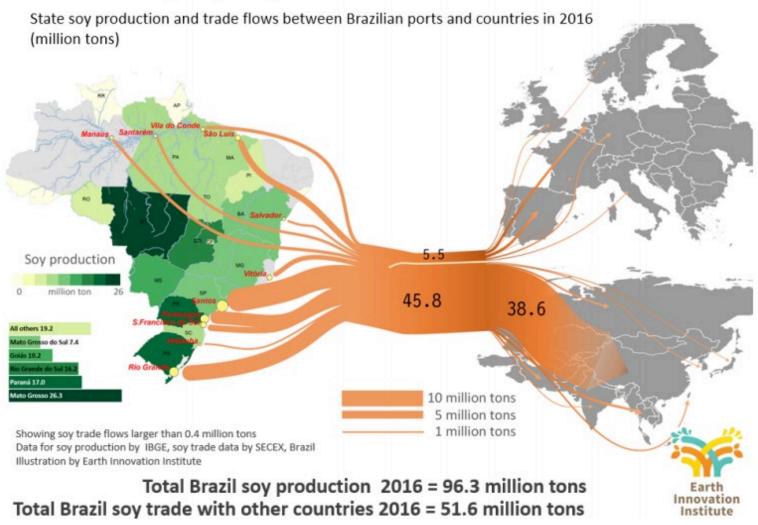
- Soy according to literature more exposed to climate change then other input factors
- Status:
 - Brazil
 - Norway import about 0,2% of the the worlds total production
 - Norway request Non-GMO and environmentally certified soy
 - imports then account for 10-20% of production
 - 30% goes to livestock feed





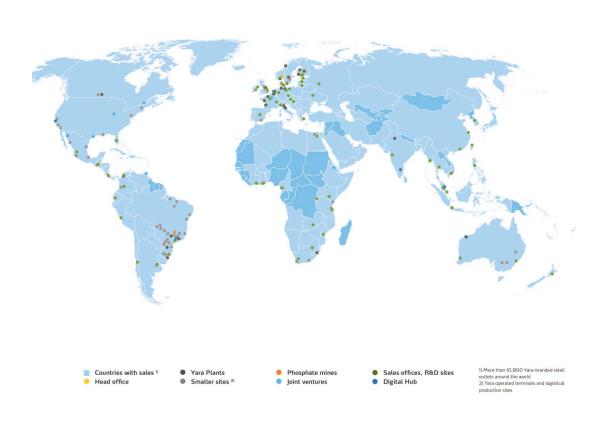


Brazilian Soy Exports, 2016



Yara - fertilization

VESTLANDSFORSKING



Cicero – Shades of green

- Transition risk carbon taxes (natural gas in ammonia production) and techonology
- Local climate risk— rising sea levels, extrem precipitation, flooding, drought and so on
 - Yara's production facilities
 - Indirect climate risk (farmers)

Domestic

VESTLANDSFORSKING



Det er full stans veier.

Lar

Publis

De t

lørd mell

Tine gård

Her tømmer han 2400 liter melk rett i kloakken

2400 liter melk forsvant ned i sluken i fjøsen til melkebonden Ole Andreas Aarsland lørdag formiddag.





Questions to discuss further

VESTLANDSFORSKING

Short group discussion

Questions:

- 1. Is there anything significant that is missing in the value chain?
- 2. What are the parts of the value chain that it is necessary to discuss further (only soy imports, other input factors, domestic value chain to the municipal border, downstream value chain)
- 3. How will climate change affect the input factors?
- 4. How to reduce the climate risk for the value chain (s) we have selected?

Example for import of soy:

- a) Imports from countries other than Brazil?
- b) Fodder with only Norwegian raw materials
- c) Convert to organic farming
- d) Switch from animal husbandry to plant production

Takk for oss!



Tara Holm

Tlf.: 906 33 600

Mob: +47 **95764802 (Tara)**

E-post: caa@vestforsk.no

tbh@vestforsk.no





