

Catchment officers

– a new water management approach in Denmark

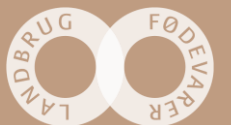
Flemming Gertz, SEGES

Webinar with Swedish and Danish catchment officers 2th sep. 2020

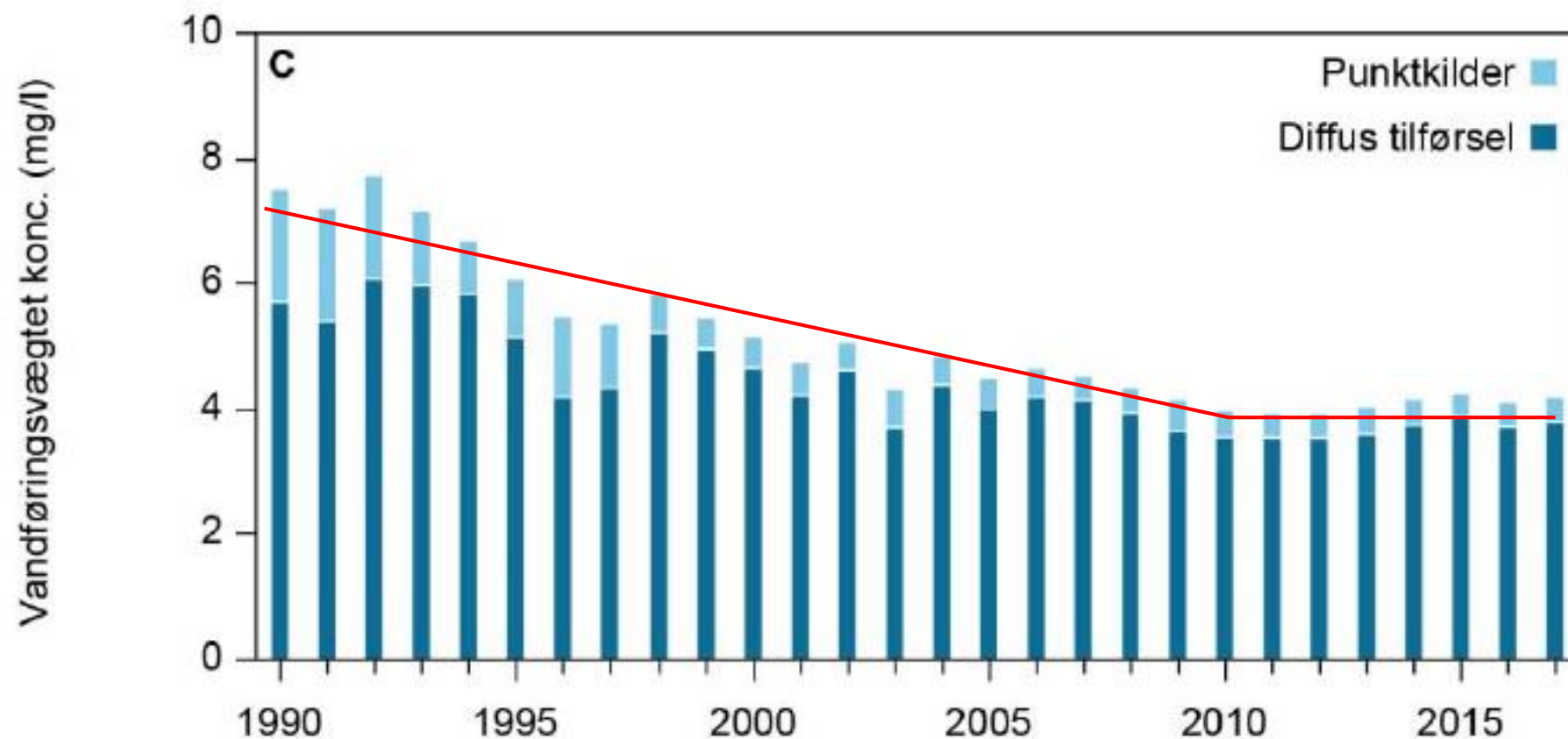
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Promilleafgiftsfonden for landbrug



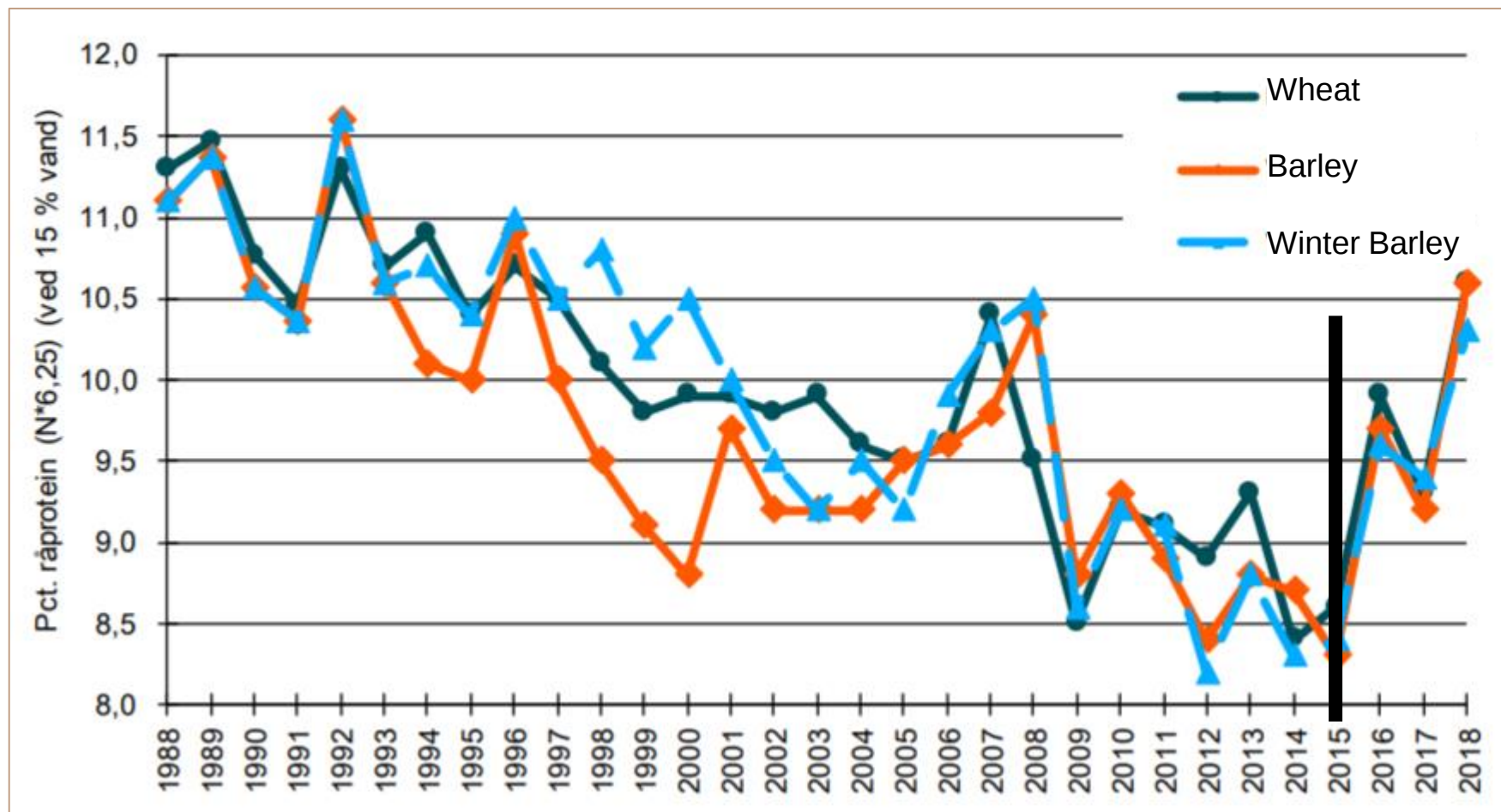
Total Nitrogen - average all streams



Thodsen, H., Tornbjerg, H., Rasmussen, J.J., Bøgestrand, J., Blicher-Mathiesen, G., Larsen, S.E., Ovesen, N.B., Windolf, J. & Kjeldgaard, A. 2019. Vandløb 2017. NOVANA. Aarhus Universitet, DCE – Nationalt Center for Miljø og Energi, 74 s. - Videnskabelig rapport nr. 306

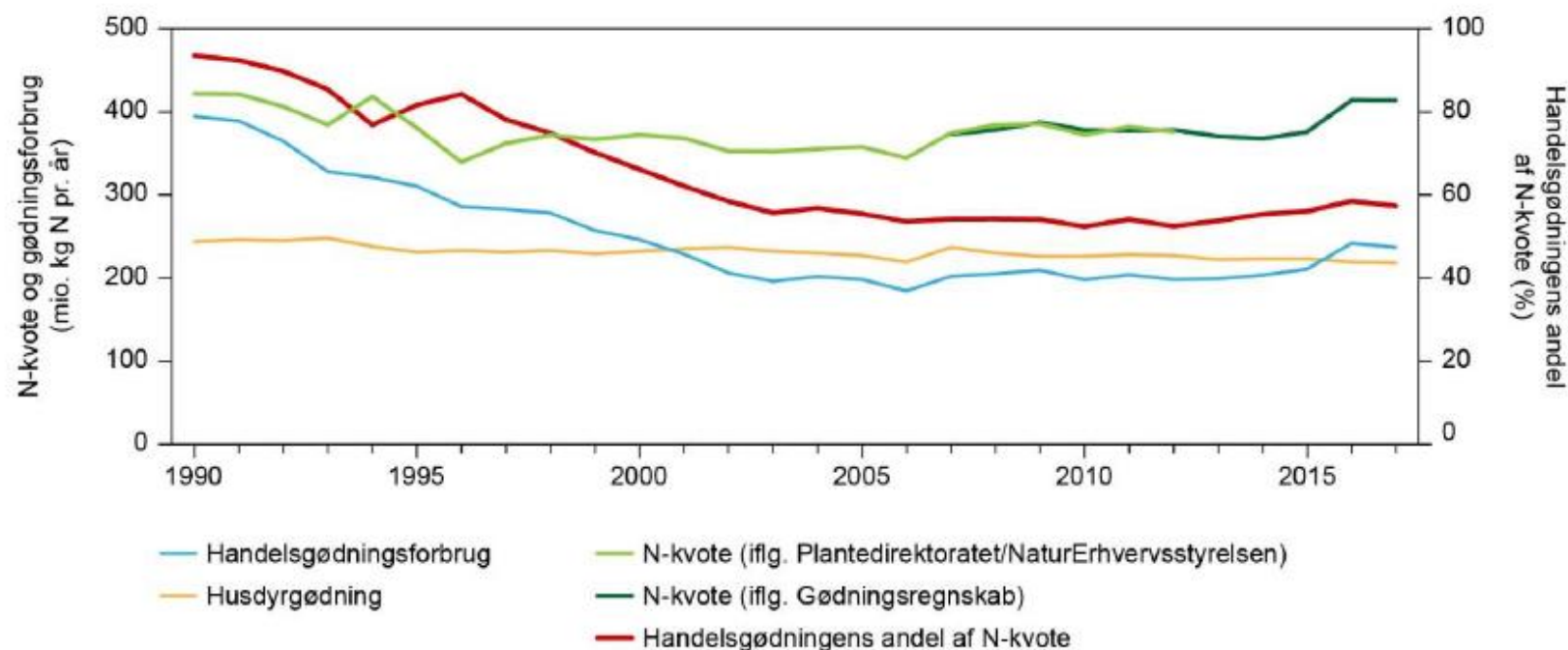
Consequences with reduced N use

Protein content in wheat and barley



Government decision 2015

- Economic optimized N use

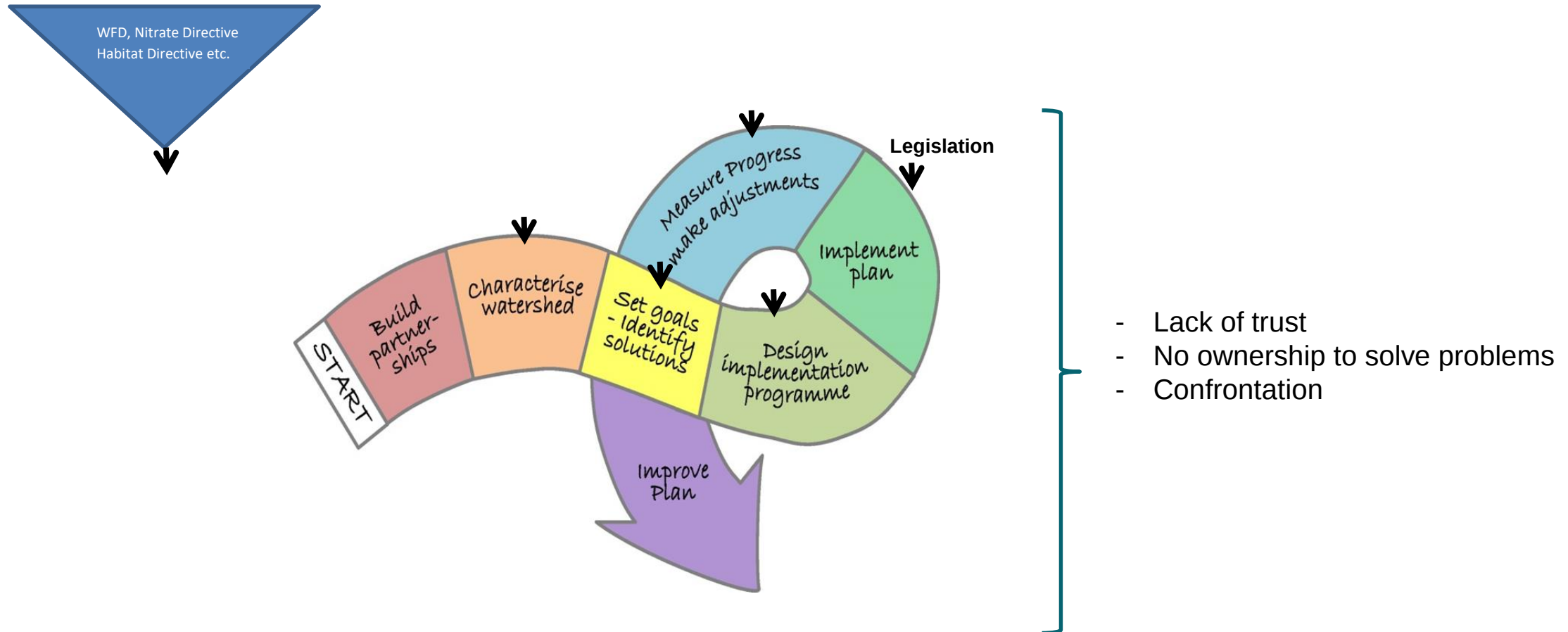


Figur 3.3. Udviklingen i landbrugets kvælstofkvota, forbrug af N i husdyrgødning og N i handelsgødning for hele landet i perioden 1990 til 2017. Desuden handelsgødningens andel af N-behovet i pct.

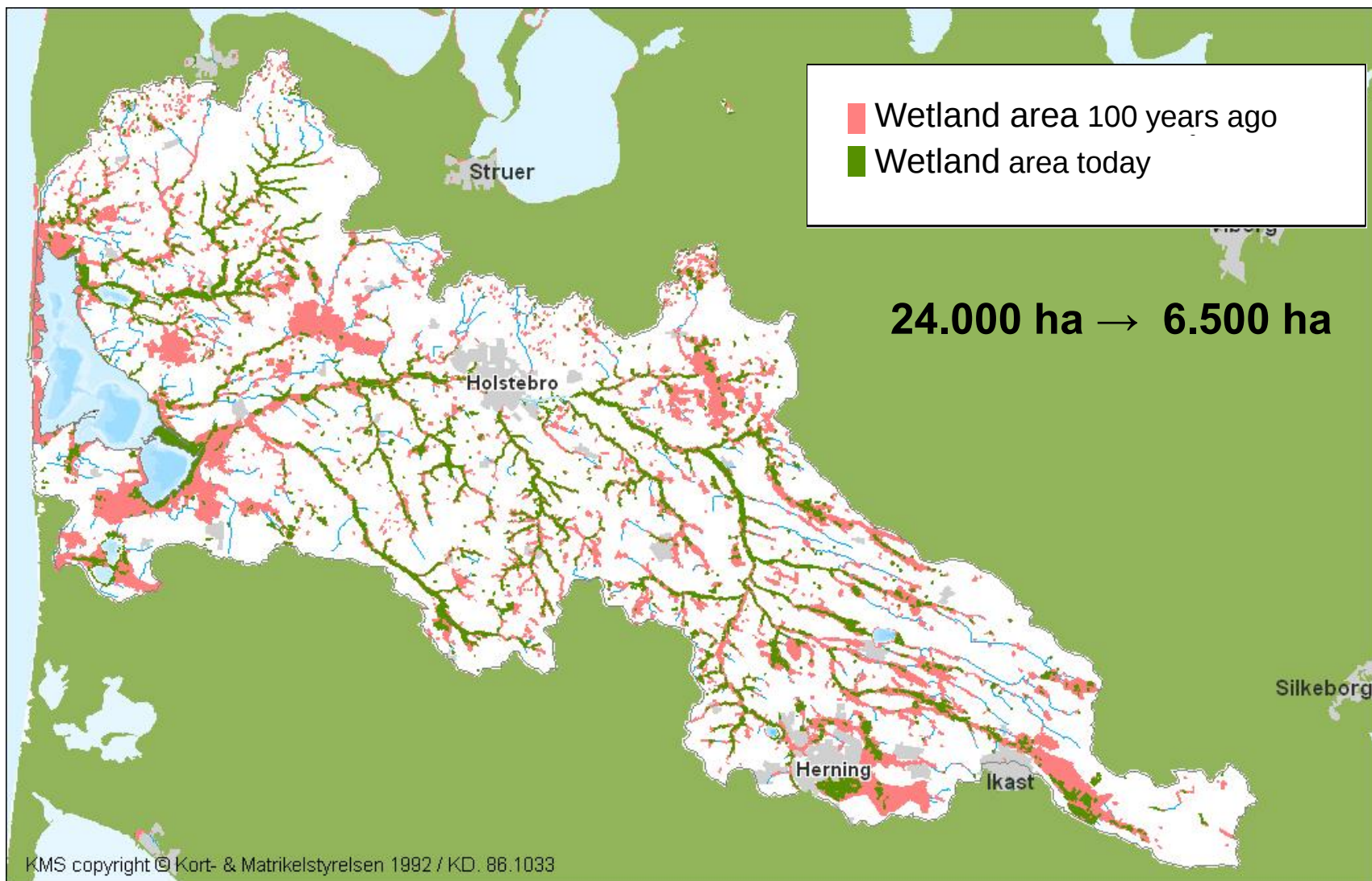
Government decision 2015

- Economic optimized N use
- Extra catch crops
- Continue restoring larger wetlands (270 mill €)
- Implement 900 ha of constructed wetlands (52 mill €)
- Targeted regulation – even more catch crops

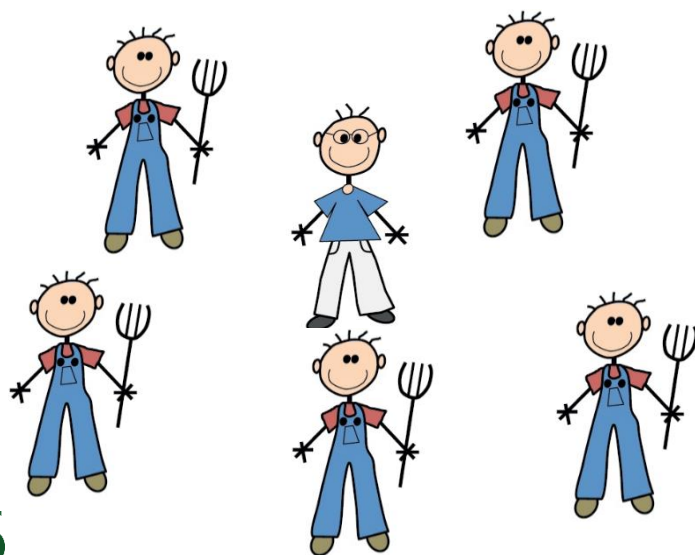
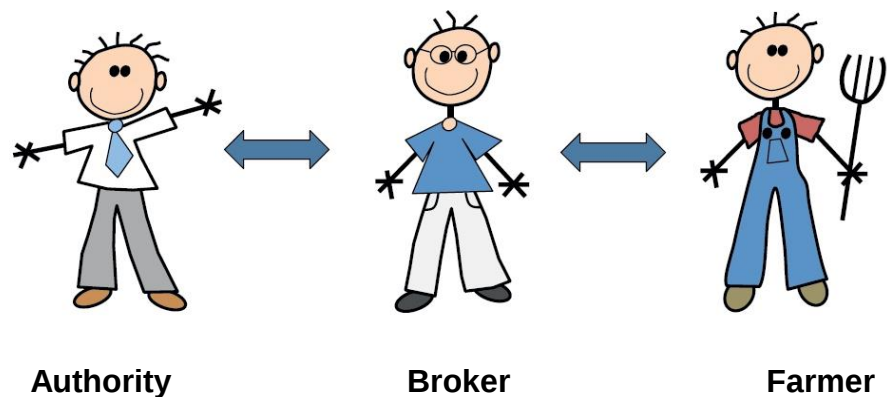
30 years of Top down regulation - consequences



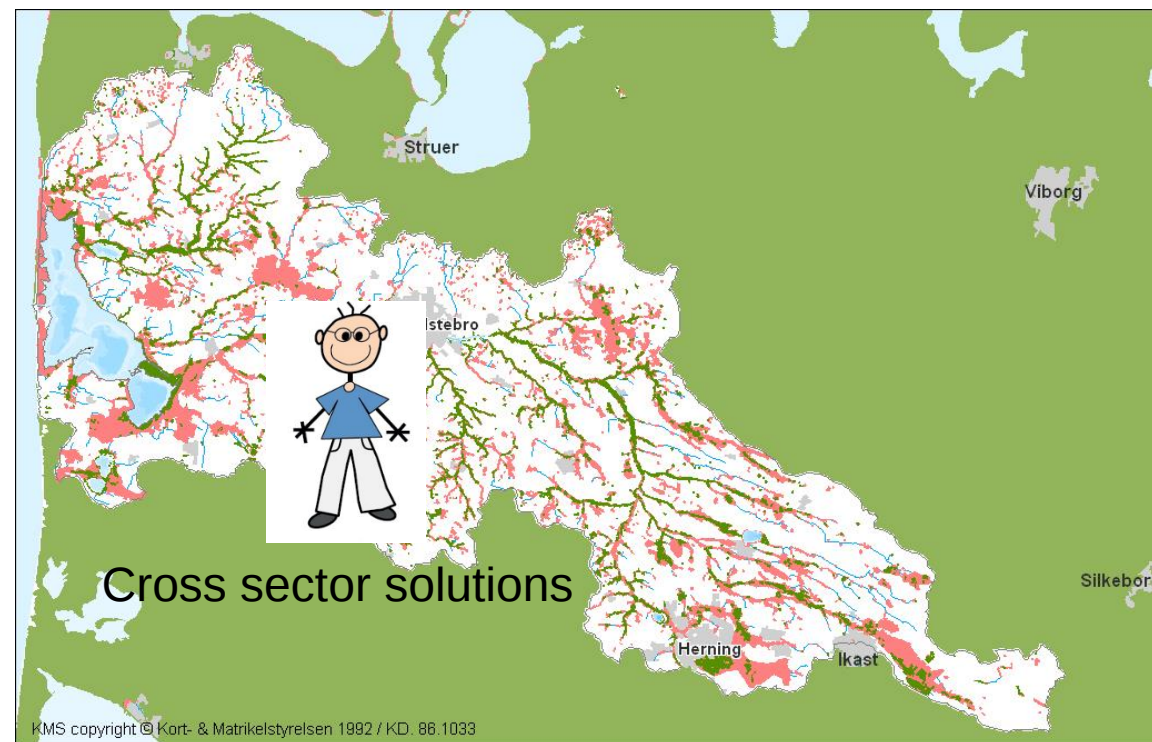
Potential for reducing nutrients to surface waters



Catchment officer



SEGES



Tested in Water CoGovernance in 2016

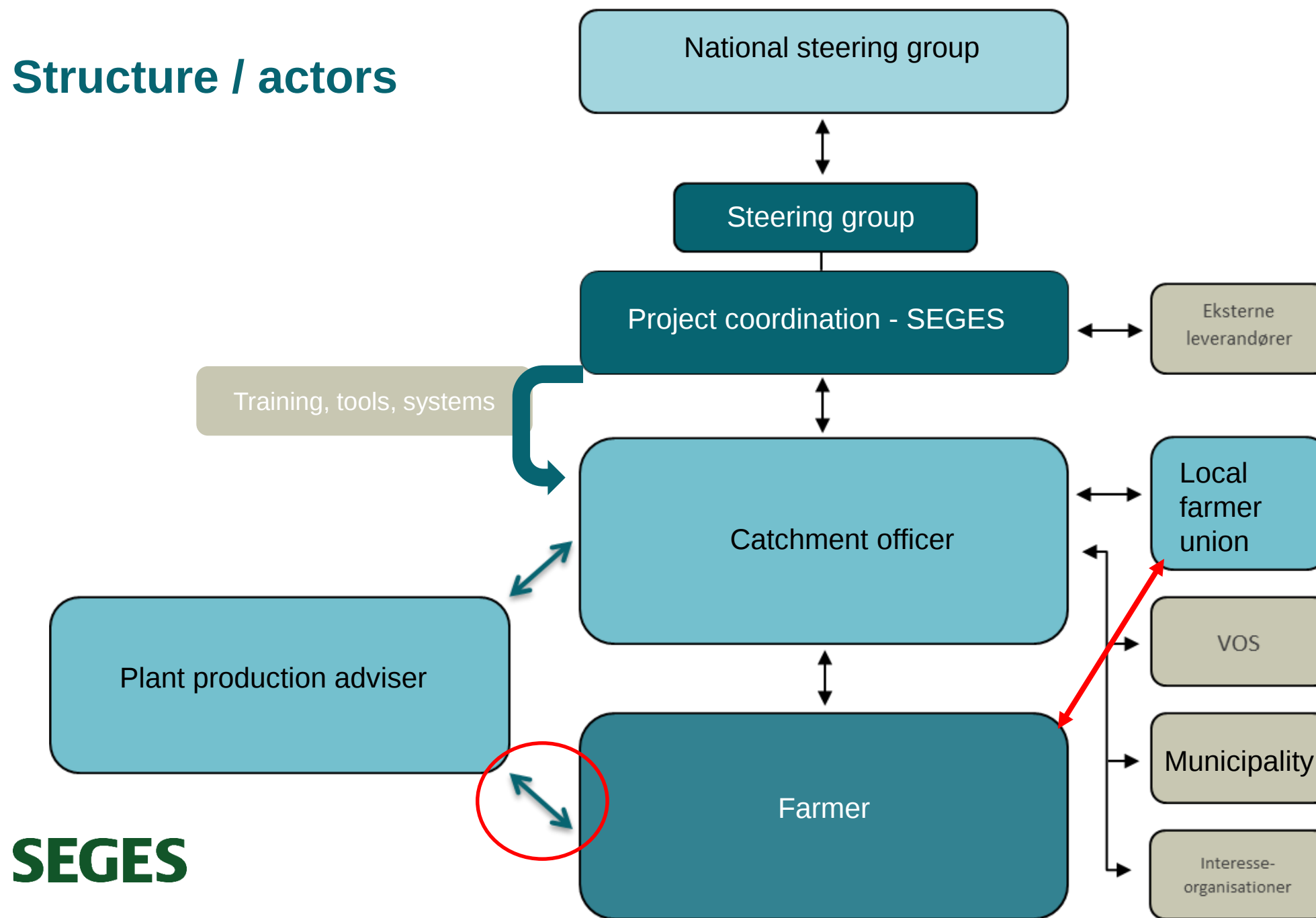


Catchment officer – new concept in Danish water management

- National Program in 2017
- 25 Catchment officers
- Budget: 8 million eur over 4 years
- 50 % payed by farmers (farmer union) and 50 % payed by the government
- No direct payment for the farmer
- Applications for constructed wetlands:
 - 2018: 78 2019: 338 2020: 300



Structure / actors



What do we need

- More cross-sector thinking/solutions/measures (Nutrients, water, climate, nature)
- Optimize local cooperation with local authorities and other stakeholders – more local based planning
- Better bottom-up / top-down interaction in the Danish governance

Thank you for your attention

