

Case: The Island of Tunø – a longstanding Danish collaboration

Morten Graversgaard (special thanks to Lærke Thorling, Richard Thomsen and the farmers at Tunø)

Department of Agroecology, Aarhus University, Denmark



FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021



Funded by the European Union's Horizon 2020 Programme for research & innovation under grant agreement no 727984

1

Program and content

- Context and background
- Pressure for change
- MAP Characteristics
- Lessons learned

FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021



Funded by the European Union's Horizon 2020 Programme for research & innovation under grant agreement no 727984

2

Tunø

FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021

FAIRWAY
Farm System Management and Governance
for Good Water Quality and Drinking Water Supplies

Funded by the European Union's Horizon 2020 Programme
for research & innovation under grant agreement no 727964

3

Background

Land use

Before 1989

1989

After 1992

■ Porrer i omdrift	■ Byg og hvede	■ Vedvarende græs, med heste	■ Uden for landbrugsmæssig drift	■ Vedvarende græs, indre zone
---	--	--	--	--

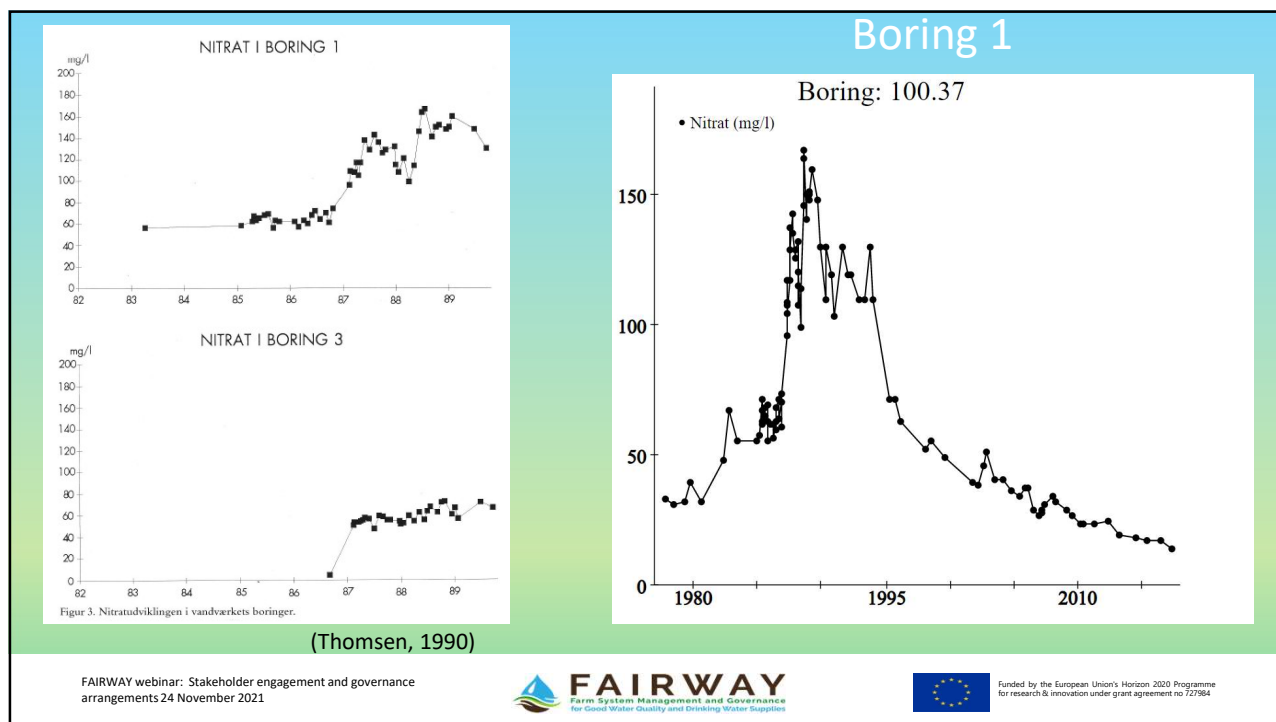
(Thorling 2005)

FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021

FAIRWAY
Farm System Management and Governance
for Good Water Quality and Drinking Water Supplies

Funded by the European Union's Horizon 2020 Programme
for research & innovation under grant agreement no 727964

4



5

Establishment of a MAP

In 1986/87, it was decided that the poor water quality should be improved

This was done in collaboration between, among others: the county, the municipality, the Danish Environmental Protection Agency, farmers and agricultural advisers

TEKNISK RAPPORT

VANDFORSYNING PÅ TUNØ

ÅRHUS AMTSKOMMUNE · MILJØKONTORET · ÅRHS

(Thomsen, 1990)

FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021

FAIRWAY
Farm System Management and Governance
for Good Water Quality and Drinking Water Supplies

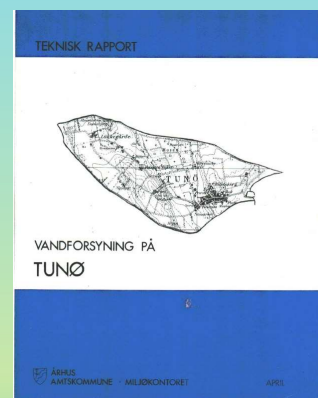
Funded by the European Union's Horizon 2020 Programme for research & innovation under grant agreement no 727984

6

Establishment of a MAP

The regional authorities held numerous meetings with farmers and tried to find the most suitable solutions for the farmers and the Island.

Solution	Cost (establishment) DKK	Cost (ongoing) DKK
Protection zones	200.000	2.000
Effect measurements	400.000	80.000
Cleaning of drinking water	1,5-2 mil.	200.000
Import of water in tanker	65.000	265.000
Import of water in pipeline	3,6 mil.	400.000



(Thomsen, 1990)

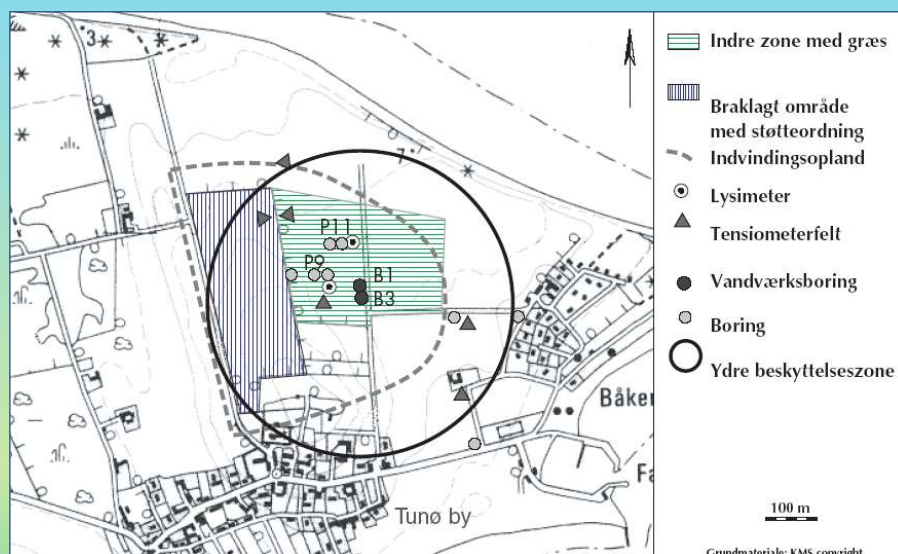
FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021



Funded by the European Union's Horizon 2020 Programme for research & innovation under grant agreement no 727984

7

Protection zones and monitoring at the Tunø water works



FAIRWAY webinar: Stakeholder engagement and governance arrangements 24 November 2021



Funded by the European Union's Horizon 2020 Programme for research & innovation under grant agreement no 727984

8

Revisiting the Tunø Case - Learnings

But what now?

More than 30 years after groundwater protection was started:

- New ownerships
- New administrative units
- Old agreements and 20-year lease agreements which have been terminated

The shared understanding of the importance of having a well functioning and respectful MAP is still shared.
And that the process was good and fruitful.

FAIRWAY webinar: Stakeholder engagement and governance
arrangements 24 November 2021



Funded by the European Union's Horizon 2020 Programme
for research & innovation under grant agreement no 727964