

Oversigtskort over drænvirkemidler

● Minivådområde ● Matrice-minivådområde ● Vandmættet randzone ● Afbrudte dræn ● Intelligent bufferzone

Drænvirkemidler

- ☒ Minivådområde
- ☒ Matrice-minivådområde
- ☒ Vandmættet randzone
- ☒ Afbrudte dræn
- ☒ Intelligent bufferzone

Etableringsstatus

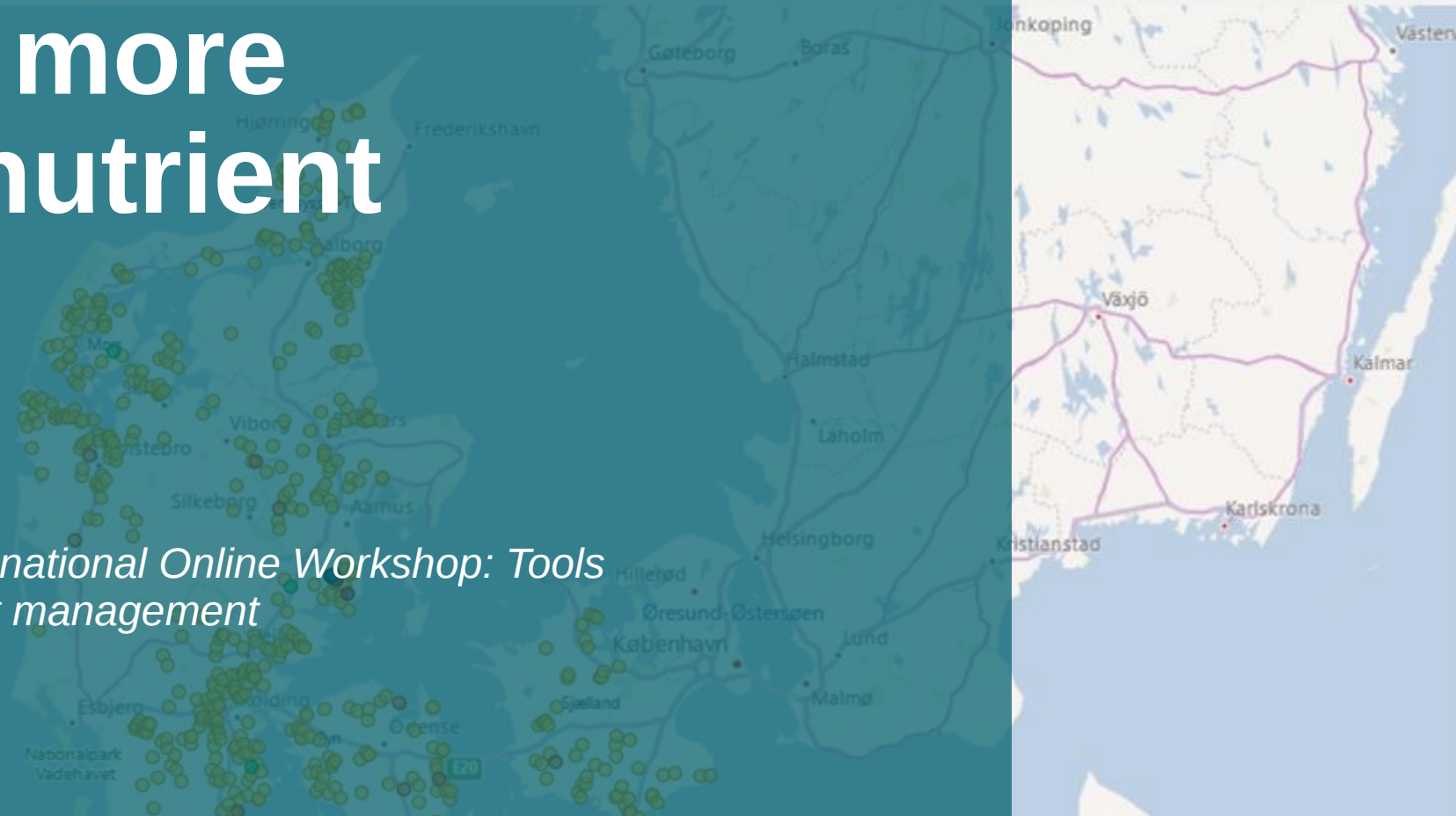
- ☒ Projekter med tilsagn
- ☒ Virkemiddel etableret

GIS-tools for more cooperative nutrient management

Sebastian P. Zacho 14.9.2021 -Transnational Online Workshop: Tools for improving co-governance in water management

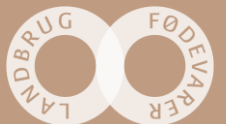
Om kortet

På oversigtskortet ser du, hvor de forskellige drænvirkemidler, der er etableret samt de der har fået tilsagn til etablering, er placeret. Ovenfor kan du filtrere efter type



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SEGES Promilleafgiftsfonden for landbrug



Outline of today - Presentation of 3 tools



1) ~~Kollektø~~: Catchment Officer registration and coordination tool

2) *Drain Filter Platform*: Overview and status on drain filter solutions in DK

3) ~~Nitrate App~~: Catchment Officer and farmer nitrate measurement tool

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Brief background info: Local Catchment Officers in DK

23 Catchment Officers organized across Denmark since 2017.

The current main target is to find suitable locations for constructed wetlands, help the wetland process and advisory regarding forestation



Team Sealand Catchment Officers

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Constructed wetlands in DK

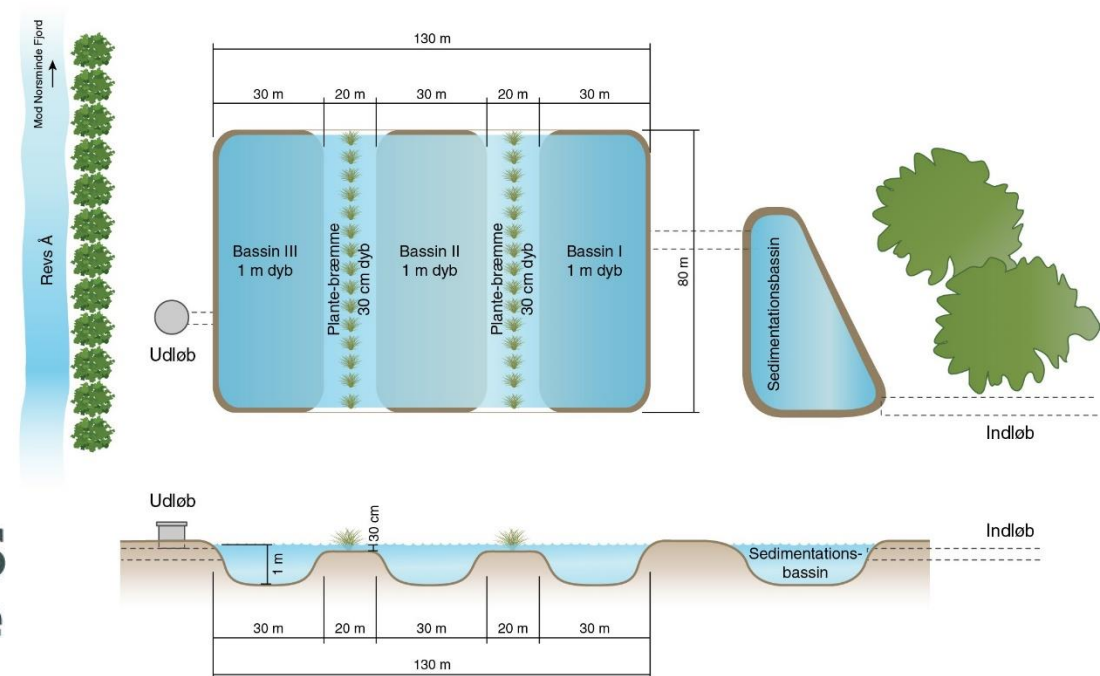
- Main target is to reduce nitrogen loads to Danish fjords by 900 tonnes N before 2021
- The Catchment Officers assists the farmer regarding:
 - Possible location
 - Design of constructed wetland
 - Administrative permits (municipality)
 - Making application for funds

Results

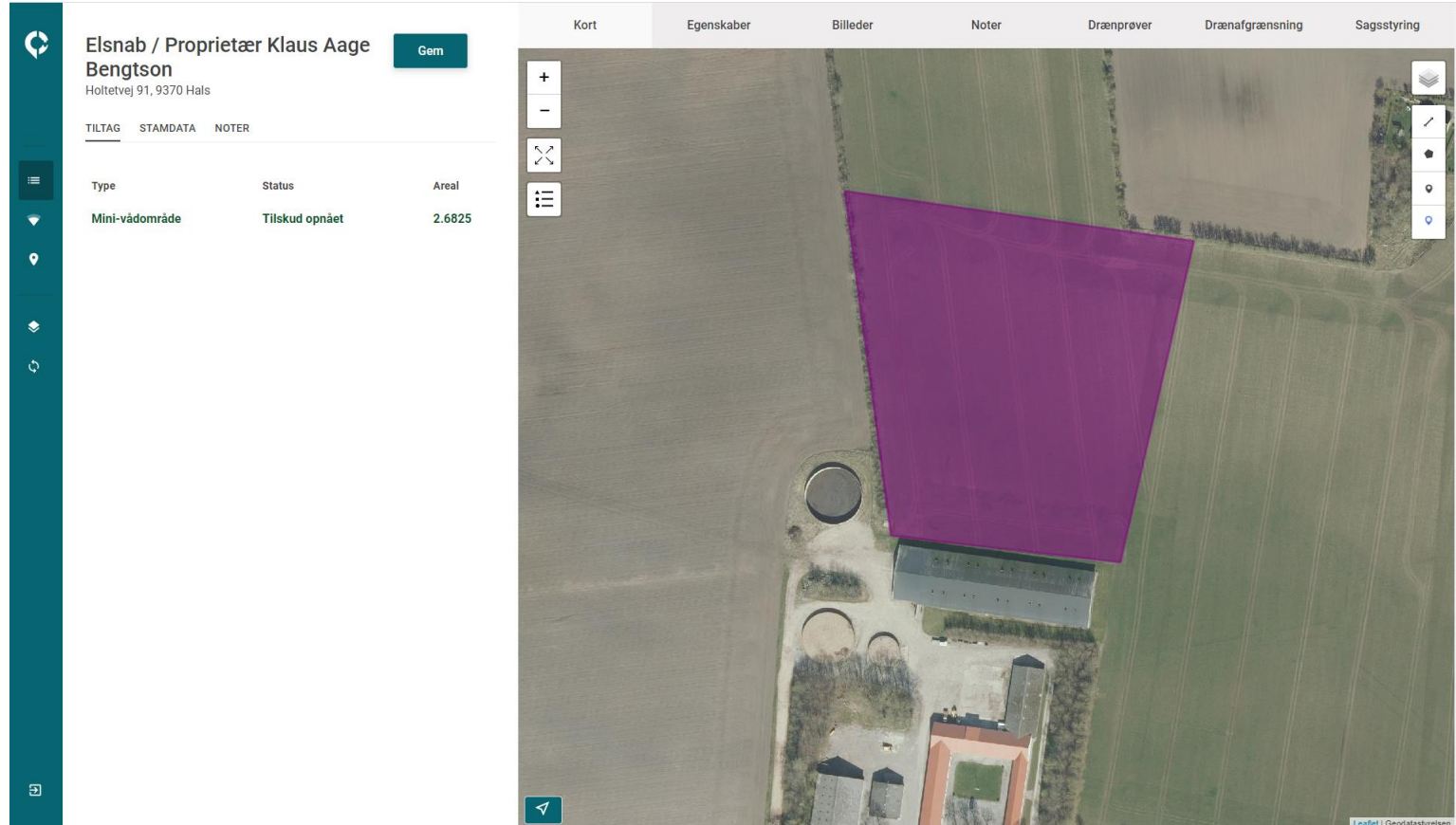
- Approx. 600 applications handed in from 2018-2020 (another 100 applications are expected for the 2021 round)
- Around 100 constructed wetlands have established so far

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1) Kolleto: Catchment Officer web application



Web application with multiple purposes

- 1) Registration
- 2) Data collection
- 3) Coordination

1) Kolleto: Registration and data collection

The screenshot displays the SEGES Kolleto registration interface. On the left, a sidebar shows the user profile 'Elsnab / Proprietær Klaus Aage Bengtson' and a table of registered measures. The main area shows a detailed form for a 'Mini-vådområde' (Constructed wetland).

TILTAG	STAMDATA	NOTER
Type	Status	Areal
Mini-vådområde	Tilskud opnået	2.6825

Form Fields:

- Navn på tiltag:** Constructed wetland
- Type:** Mini-vådområde
- Status:** Tilskud opnået
- Udpegning:** Ikke valgt
- N-effekt (kg N pr år):** (Empty field)
- Virkemidlets areal (ha):** 2,6825 (Beregnet areal: 2.6825)
- Drænoptionsstørrelse (ha):** 225
- Bemærkning ved opgivet tiltag:** Tilknyttet bemærkning ved opgivet tiltag.
- Bemærkning ved afslag fra myndigheder:** Bemærkning ved afslag fra myndigheder
- Ansøgningsår for tilskud:** 2021

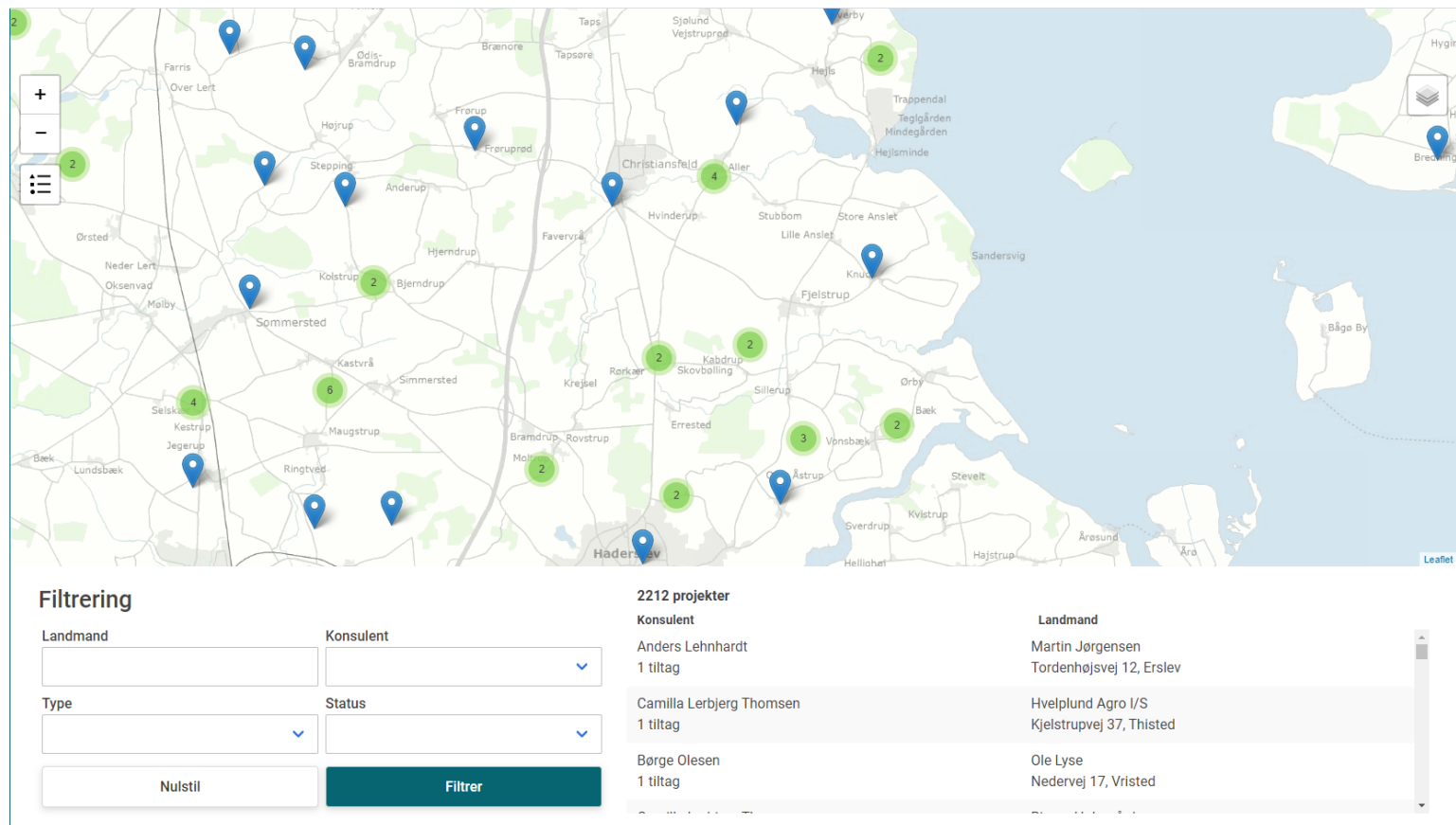
☒ Landmanden har givet accept til at oplysninger om placering, størrelse, effekt mv samt evt. fotos må offentliggøres

Registration and data collection of

- 1) Type of environmental measure
- 2) Size and catchment area
- 3) Storage of pictures
- 4) Content of nitrate in drainage water
- 5) Catchment boundary findings

And many more data

1) Kollektio: Coordination between Catchment Officers



The web application helps coordinate work being done by Catchment Officers

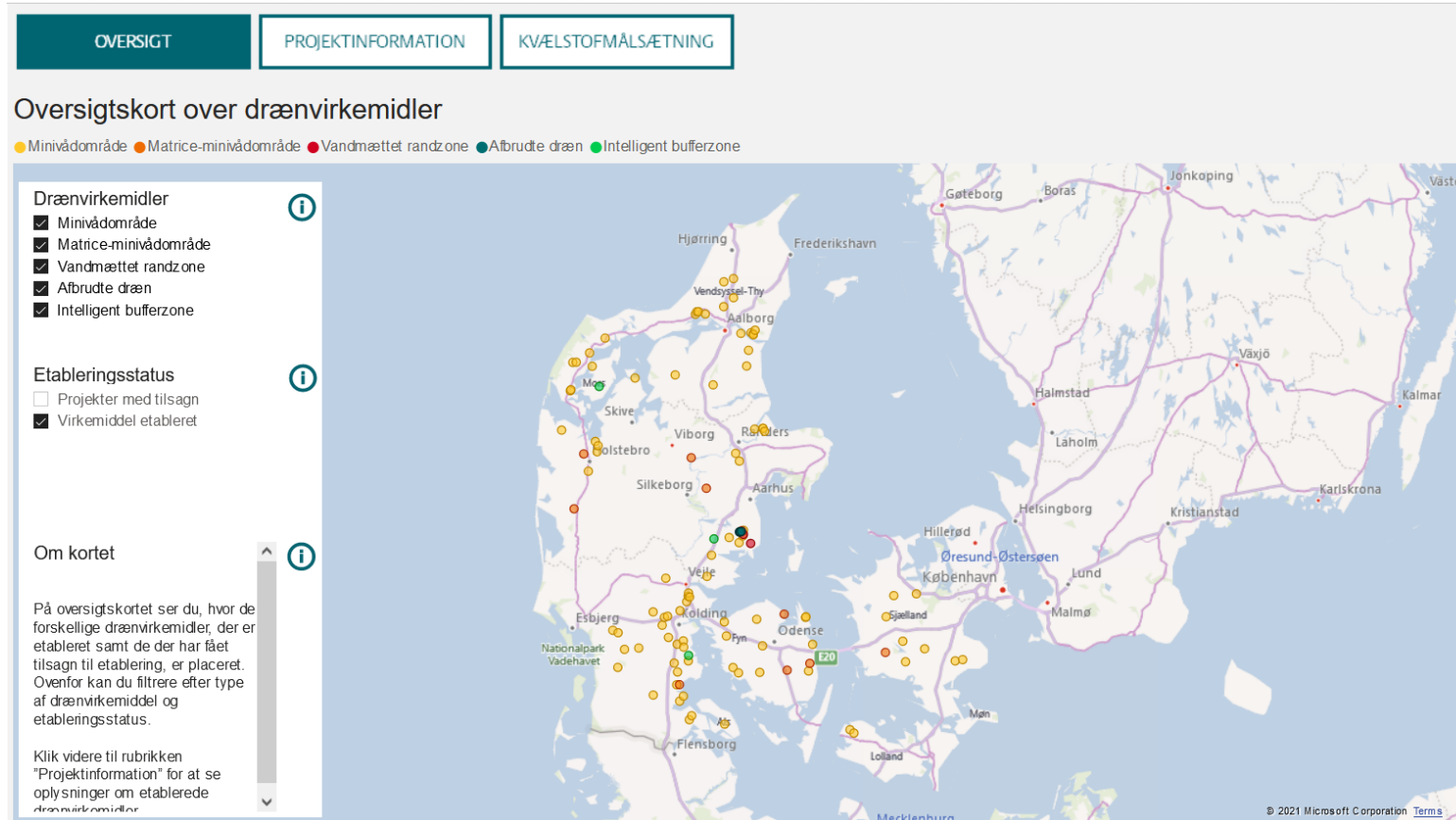
Project overlaps are avoided

Keep track of status in the single catchment

Possible to follow the process from SEGES

Allows to continue the work if a Catchment Officer

2) Drain-filter platform website: Environmental measures overview



Web application with three main purposes:

- 1) Overview over established environmental measures in DK (such as constructed wetlands, matrice-wetlands, saturated bufferzones, drain blocking and intelligent bufferzones)
- 2) Inspiration for farmers considering a constructed wetland of their own
- 3) Implementation status of constructed wetland status for every coast water catchment in DK

2) Drain-filter platform website: Inspiration and information



Minivådområde



Lodsejer	Christian Pries Andersen
Etableringsår	2015
Tilskudsordning	iDræn
Hovedvandopland	Horsens Fjord
Pumpe	Nej
Drænopland, ha	33
Virkemidlets areal, ha	0,25
Virkemidlets areal i forhold til opland (%)	0,8 %
Kvælstofeffekt kg N/ha	543
Kvælstofeffekt (%)	16,0 %
Fosforeffekt (%)	35,0 %

Du må besøge drænvirkemidlet efter aftale med lodsejer

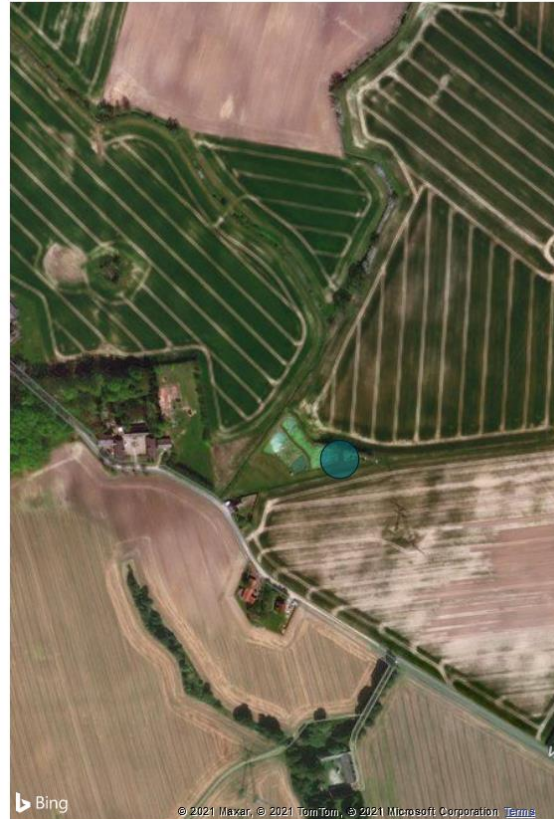
E-mail

Tlf 86546405



Reference: SEGES

Zoom for detaljer

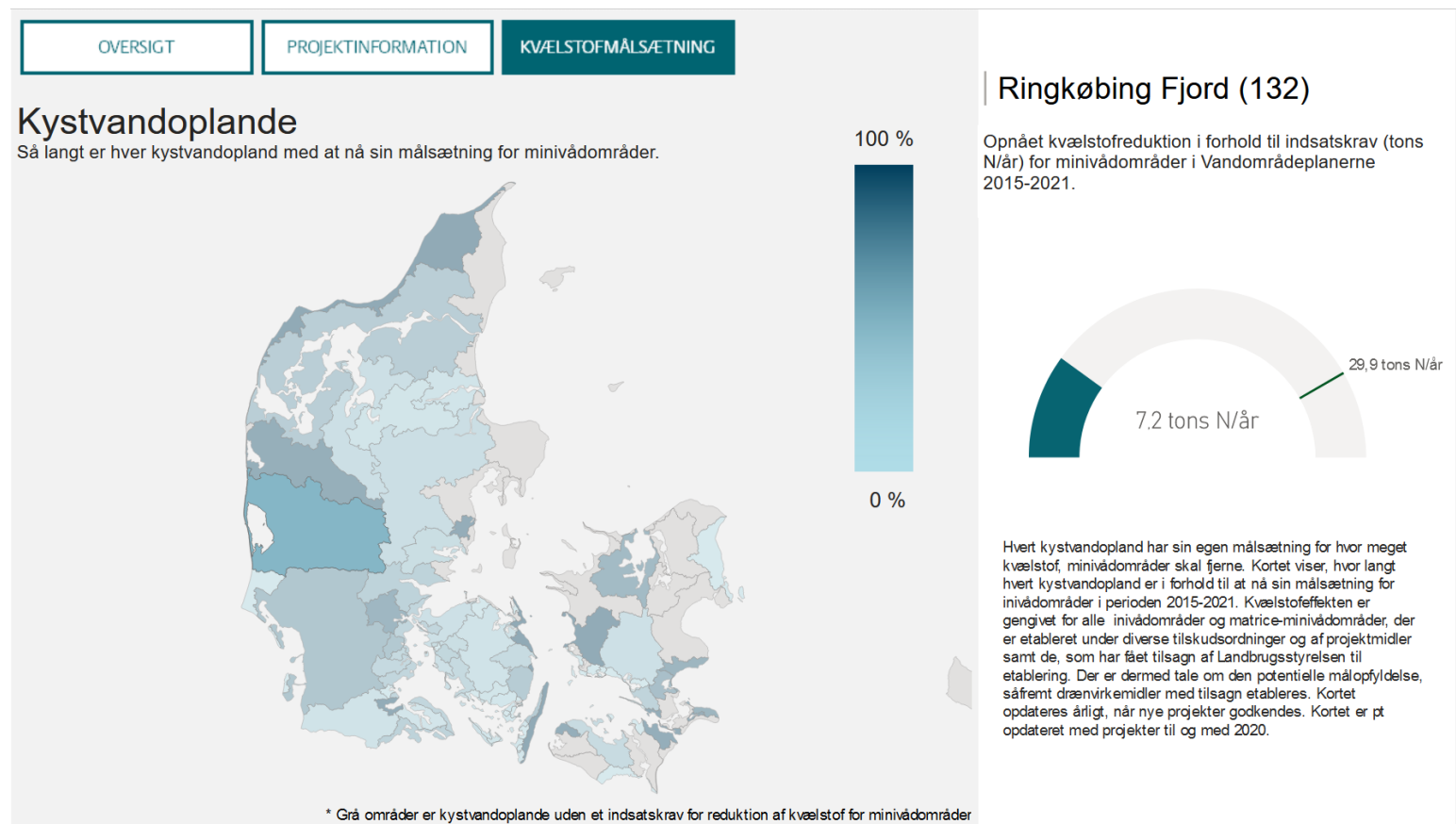


The website also gives an option for getting more information the single established constructed wetland such as:

- Year of establishment
- Name of coastal water catchment
- Size and catchment area
- Effect in terms of nitrogen removal (kg/N/ha)

Moreover, some projects have contact information so farmers can visit after appointment with the project owner

2) Drain-filter platform website: Overall catchment status



The website gives a status regarding the overall target for implementation of constructed wetlands – individual target for each coastal water catchment.

Could engage farmer in the race for the achieving the target for their own coastal water catchment.

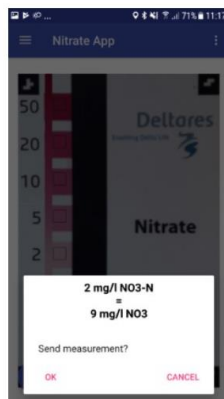
3) Nitrate App

Developed by Dutch company Deltares and SEGES and is based on HACH nitrate strips

Used by Danish Catchment Officers to examine if there is a potential for constructed wetlands on sandy soil

Farmers gets better understanding of nitrate loss from their field + option for log data (location and concentration)

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Thank you for your attention

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