

Blue Growth & Blauwe Route

Community of Practice Blue Innovation Noordzee 2030

Noordzeestrategie, Noordzeeoverleg, Noordzeeakkoord

Rijke Waddenzee

Port4Innovation1

TKI Agrifood & TKI Maritiem

Klimaatverandering, Energietransitie, Voedseltransitie, Natuurtransitie

Veiligheid, transport, zandwinnig, recreatie, training & educatie en

PR & communicatie

Stikstof problematiek

Van wetenschap naar vakmanschap en andersom

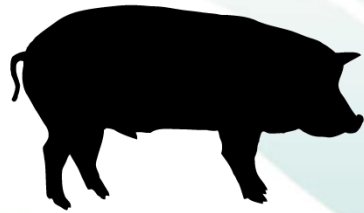


# Bluelinked

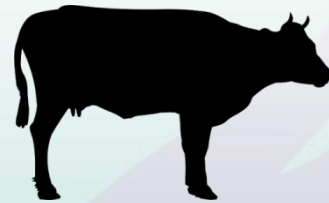
1 kg vlees  $\approx$  x liter water / x kg voer



$\approx$  4.300  
 $\approx$  3,5



$\approx$  6.000  
 $\approx$  6



$\approx$  15.500  
 $\approx$  27



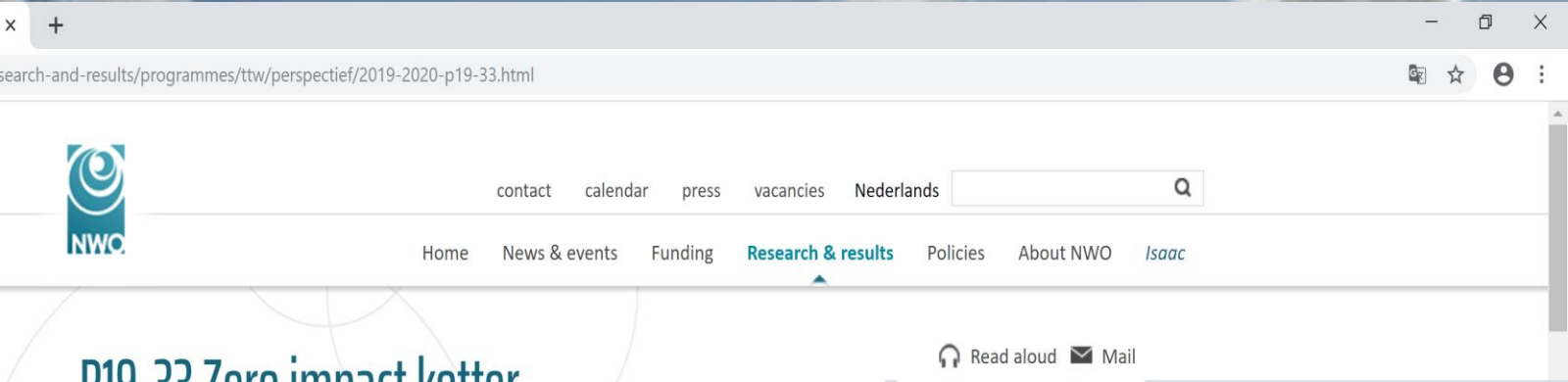
$\approx$  480  
 $\approx$  1

# Circulaire visserij & Circulaire viskweek

Kweek: Wadden, Waddeneilanden en  
tussendijkse locaties

- Zero Impact Kotter
  - Zonder brandstofemissies
  - Zonder geluid
  - Zonder bodemberoering
  - Zonder stress voor de vissen
  - Zonder bijvangst of stress-vrije opvang en uitgroei
- Alternatieven voor pulsvisserij
- Circulaire viskweek
  - Gesloten en volledig gecontroleerd duurzaam systeem
  - Proof of concept voor tarbot, haaien en roggen
  - Nu Tong? Heilbot? Kabeljouw? Platte Oesters? Zeewier? Kokkels?
  - Zowel voor consumptie als voor uitzetten in zee:  
“1 vis op je bord en 1 vis in de zee”

# Eerste ingediende projectvoorstel

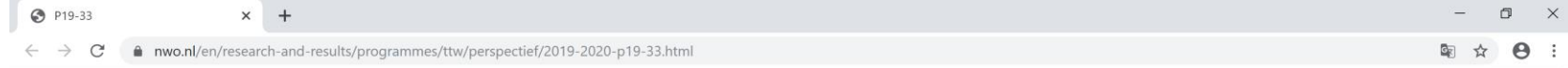


## P19-33 Zero impact kotter

To maintain the market position of the Dutch fishing industry and its adaptation to climate change, it is of paramount importance and urgency to develop new sustainable fishing techniques. The industry must adapt to radical and fast changing circumstances. In particular for the Dutch capture sector, a focus on (selective) technologies for catching demersal fish are most relevant from both an economic and environmental impact point of view. The objective of this perspective proposal is to investigate the complete technology chain: (1) activation and capture of demersal fish with minimal benthic disturbance, fish damage and turbidity production, (2) real-time recognition and registration of catches, (3) under water species and size separation & transport technologies (pump technology) (4) ethical slaughter and optimal storage techniques (5) improving safety and elimination of harmful (exhaust gas) emissions and (underwater) noise. The project will include the research for a transparent uptake of the new technology and ship design in society and governance. The research will be initiated from the Maritime and Transport

department of Delft University of Technology, Wageningen

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department of Delft University of Technology, Wageningen Marine Research, TNO and VisNed, the interest representing organisation of the Dutch demersal fishing industry. The intention is to form a final consortium with complementary experts from other research organisations (Deltares, NIOZ, MARIN, 4TU...), present stakeholders and industries that are not yet active in this market but have the potential to deliver the high-tech technological solutions addressed in this proposal. (=234 words)

### Initiator(s)

Dr. Ir. G. H. Keetels (Delft University of Technology) Ir. K. Visser (Delft University of Technology) Dr. Ir. P. Molenaar (Wageningen Marine Research) Drs. W. Visser (VisNed) Ir. P. Boersma (TNO), ir. O. Waals (MARIN).

### Knowledge and Innovation Agenda

Agriculture, water and food

### Category key enabling technologies 1

Engineering and fabrication technologies

### Key enabling technology 1

Intussen nog een aantal aanvragen:

Numerical modelling of demersal fishing net systems for design optimization - Dr. ir. G.H. Keetels, Technische Universiteit Delft (18529) - gehonoreerd

Aanvraag Innovatieproject Aquacultuur RVO – loopt

Aanvraag TKI Toeslag Maritiem – loopt

## Bestaande Partners:

Visned

TU Delft

CoP Blue Innovations NZ2030

Bluelinked

NIOZ

Quotter

Universiteit Utrecht

TNO

Marin

WMR

Bureau de Heer

TKI Maritiem

Port4Innovation1/Stichting Blauwe Polder

Mogelijke/gewenste Partners en/of Financiers (inclusief maar niet beperkt tot) met wie inmiddels contact is:

Vissers, Nederlandse Vissersbond, De Visfederatie,

Nederlands Visbureau, Pelagicfish,

Waddenzeevisserij Platform

Visafslagen, visgroothandel en – detailhandel

Stichting Vissenbescherming

Horeca en consumenten

Onderwijs VMBO, MBO, HBO

Ministerie LNV

RVO en NWO

Waddenfonds en Waddenacademie