

Jun 5th, 1:30 PM - 1:50 PM

Session A2 - Fish Migration Day

Herman Wanningen
Wanningen Water Consult

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Free passage

from **S**ea to
Source



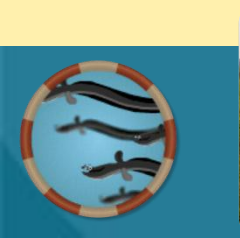
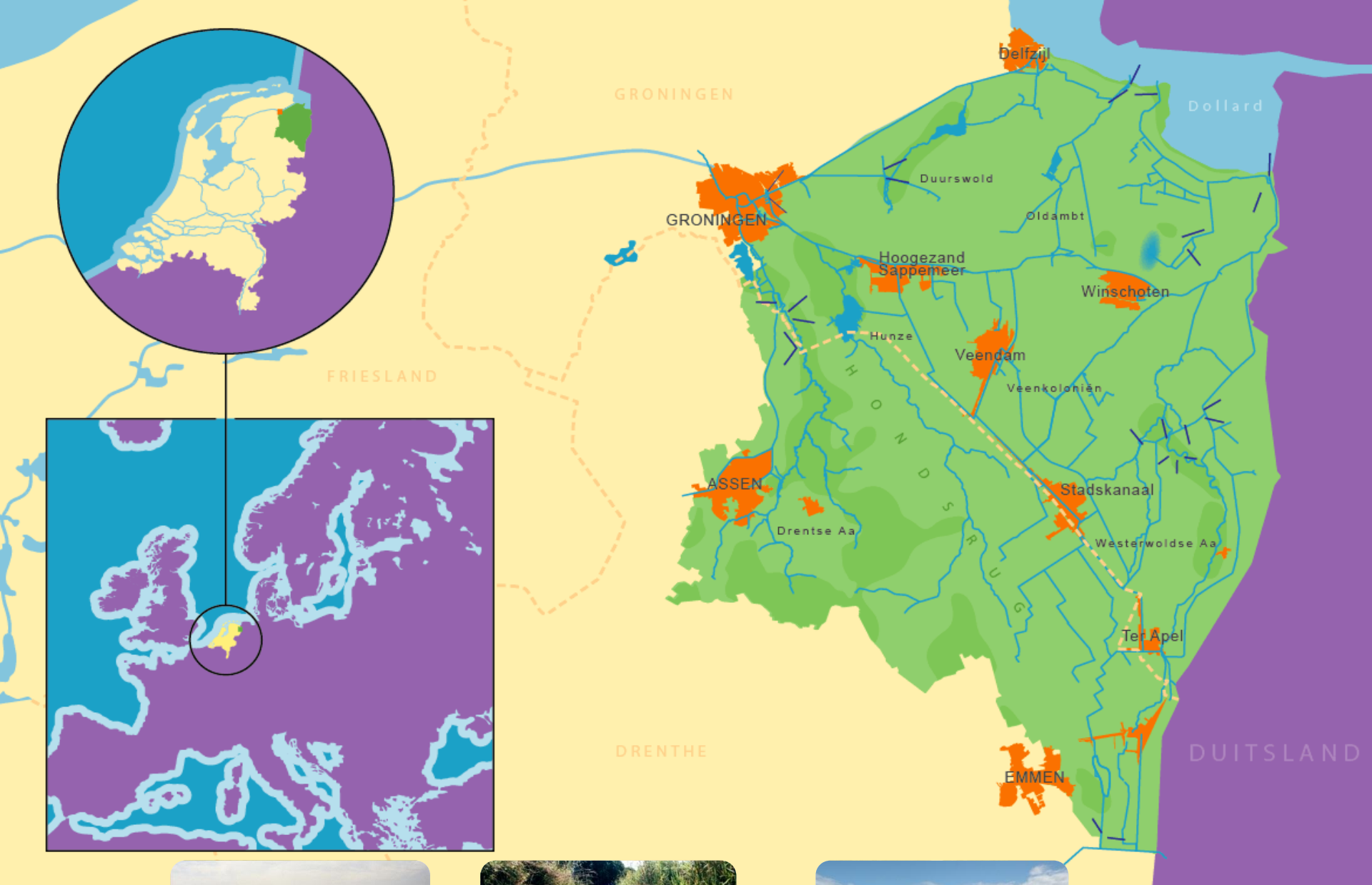


Creating commitment and support for fish passage projects

1. Experience Hunze & Aa's Water Authority
2. Fish migration day

Herman Wanningen
Lonnke Fust
Peter Paul Schollema
Niels Breve





How did it start...



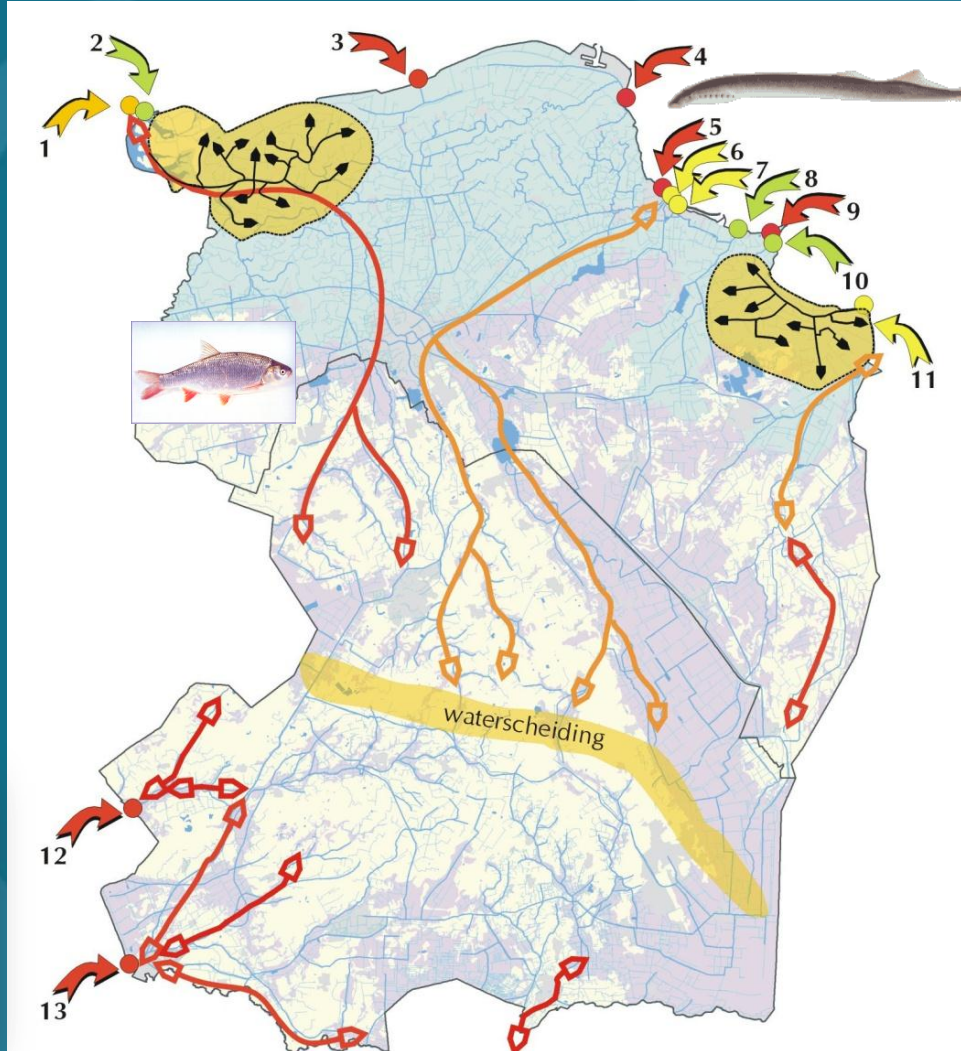
8 fishways in 2000

Questions from the management and board members:

1. Why do fish migrate and which fish?
 2. How important is fish migration?
 3. How much fish migrate and is it cost-effective?
 4. It's too expensive and we don't have money for it
- What should we do?,
 - Who do we need?
 - Where to start?

Knowledge development:

migration routes....learning day by day!



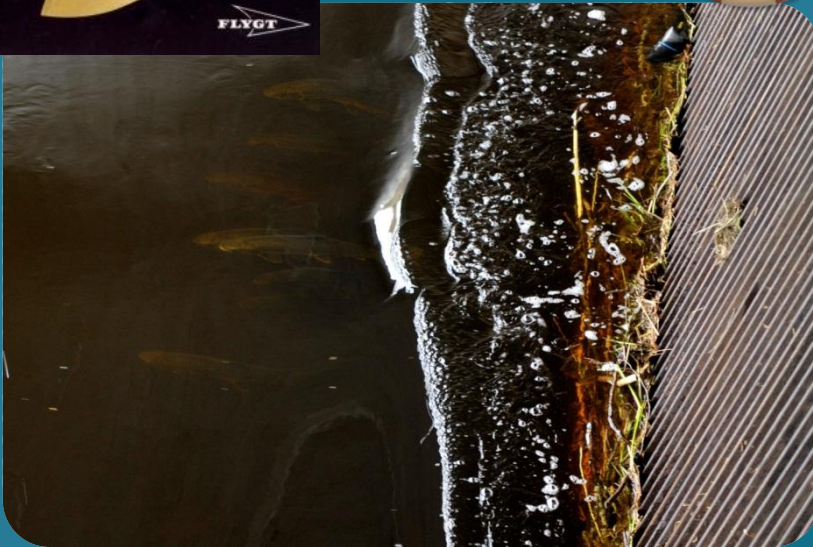
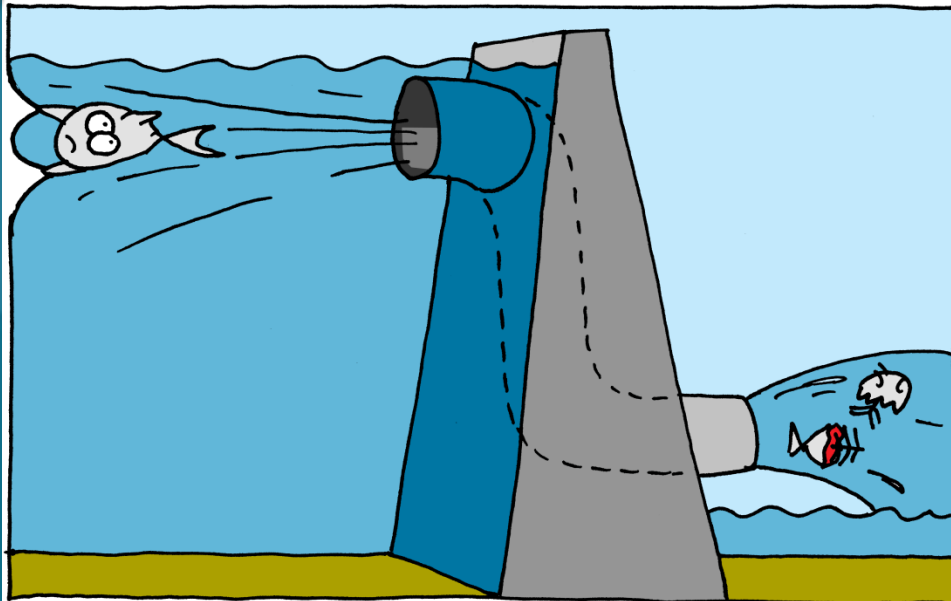
“Migratory Fish in the North sea region...”



Show the problems!



THE DANGER OF DOWNSTREAM MIGRATION









High
Priority

130

Fish migration

-  Possible
-  Not optimal
-  Measure in preparation
-  Not possible



Fish migration strategy

Our approach!

- we work “from sea to source” (river basin);
- all our main rivers are free of barriers in 2027 (WFD, Eel Directive, Natura 2000);
- fish migration aspects are incorporated when new structures are planned.

Shared strategy...makes it strong and long lasting



Strategy for solutions

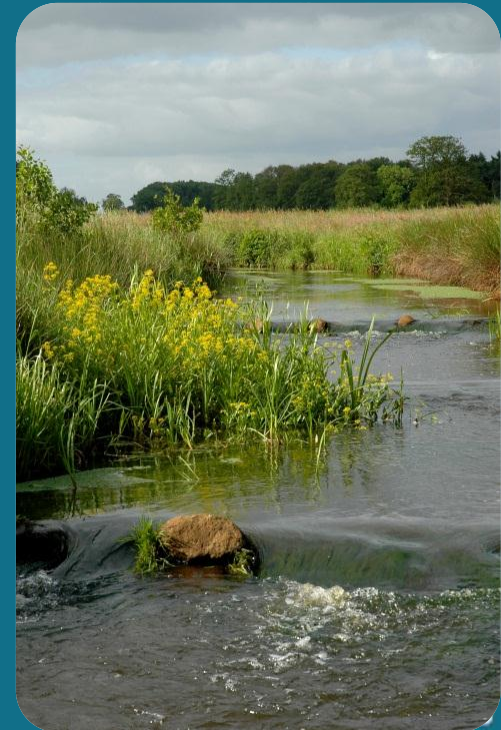
Natural solutions first...

..and combine measures for flood defense and ecology



Strategy: Construction of fishways

- interdisciplinary team (ecologist, engineer, hydrologist)
- combination with renovation or restoration work
- every location is unique!
- standard monitoring and evaluation
- maintenance and operation protocols





Fish migration cycle



Communication

Vision & policy

Finance and subsidy

Evaluation

Healthy
fish
stocks

Measures & maintenance

Knowledge development

Monitoring

Knowledge exchange



Show solutions to the public and media

ps: also failures!!

Communication events:

2003: Regional event

2005: National event

2011: Fish Migration Day (North Sea Region)



Showing the fish...THE MONSTER !!



Best practice events for colleagues

2002 and 2004: National events

2006: From sea to source (EU)

2010: Fish Restoration XL (NL)

2011: Fish Passage Engineering
network (NL)

2012: Fish Market (NL)

Excursion Mosellum (GE)



Try it... be practical and show best practises...



And others will follow...



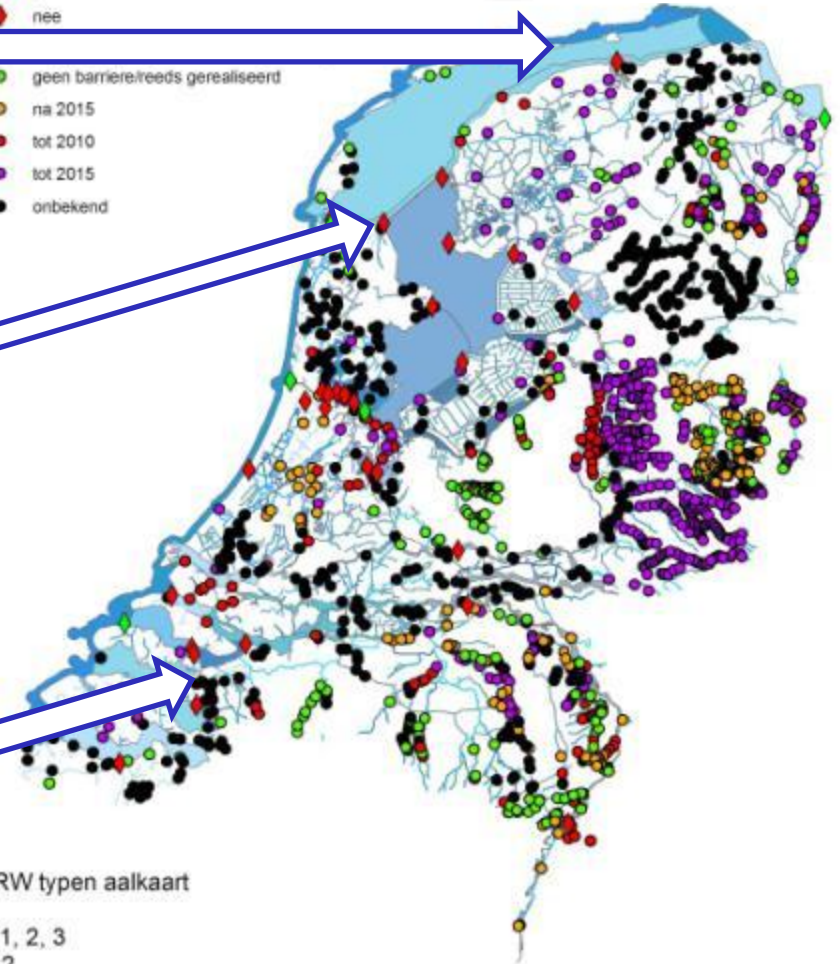
Aalkaart 2008

Legenda

KRW aal type (4) per periode van oplossing selection

- ◆ ja
- ◆ nee

- geen barriere-reeds gerealiseerd
- na 2015
- tot 2010
- tot 2015
- onbekend



KRW typen aalkaart

K 1, 2, 3

O 2

R 5, 6, 7, 8, 16

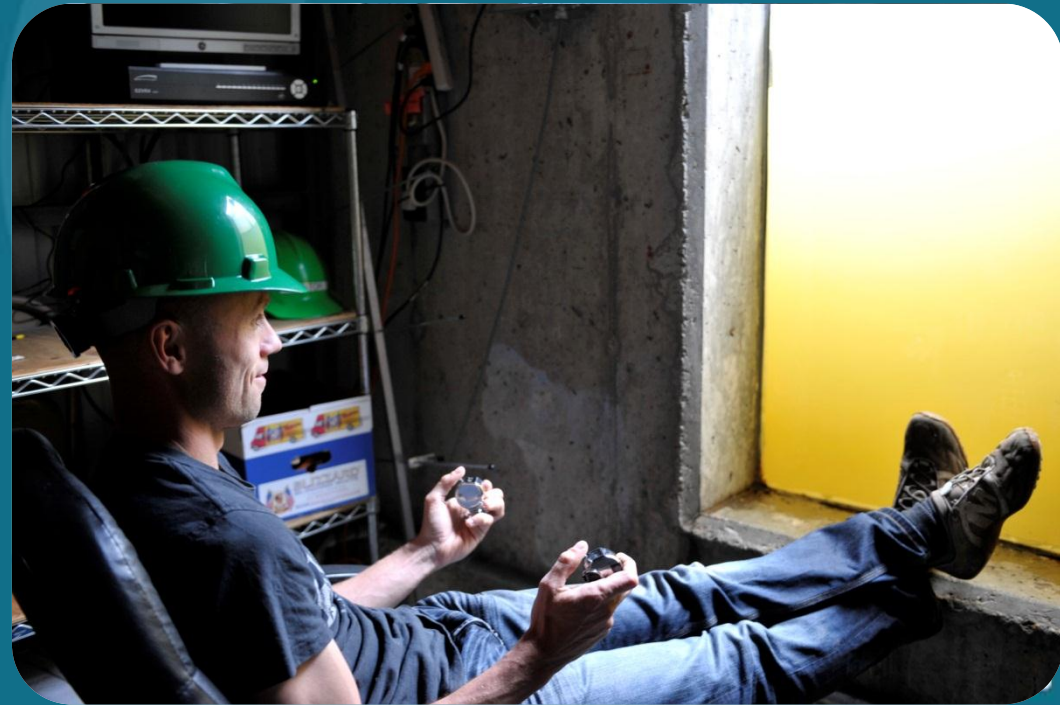
M 3, 6, 7, 10, 14, 20, 21, 27, 30, 31, 32

(c) 2008k Sportvisserij Nederland, Deltares en Wanningen Water Consult

Working with students...

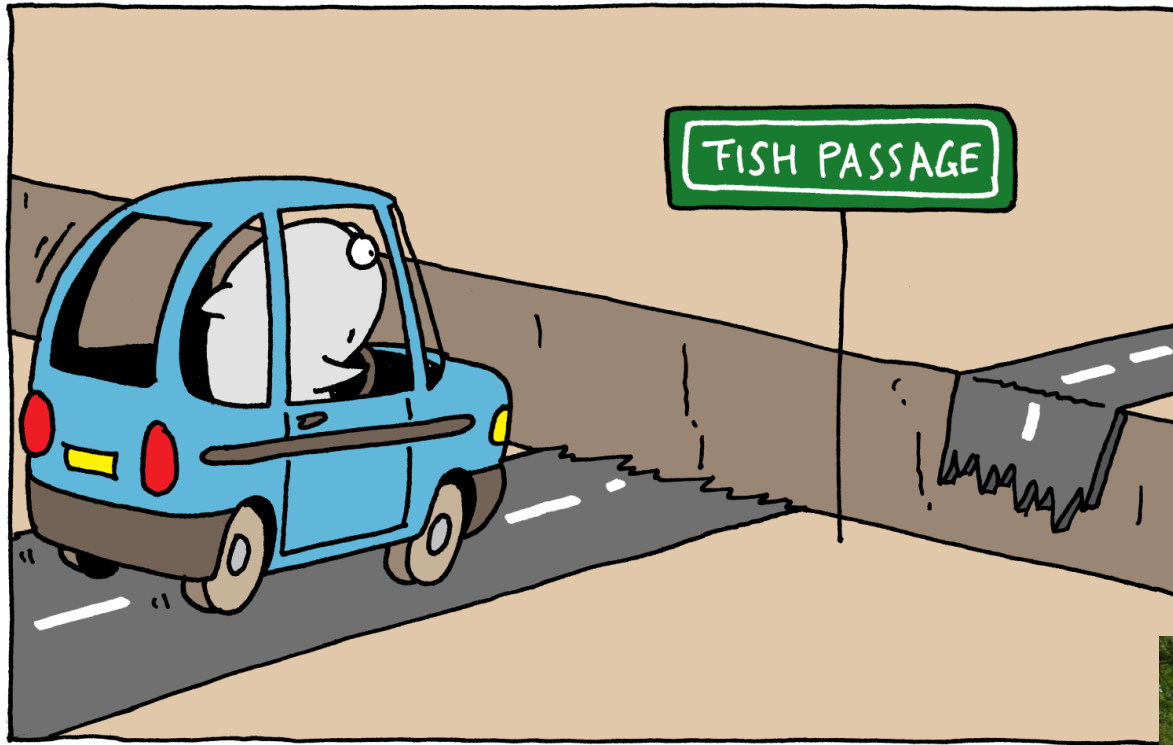
Learning, refreshing, innovative, cheap and fun...

5 former students have an aquatic ecologist position



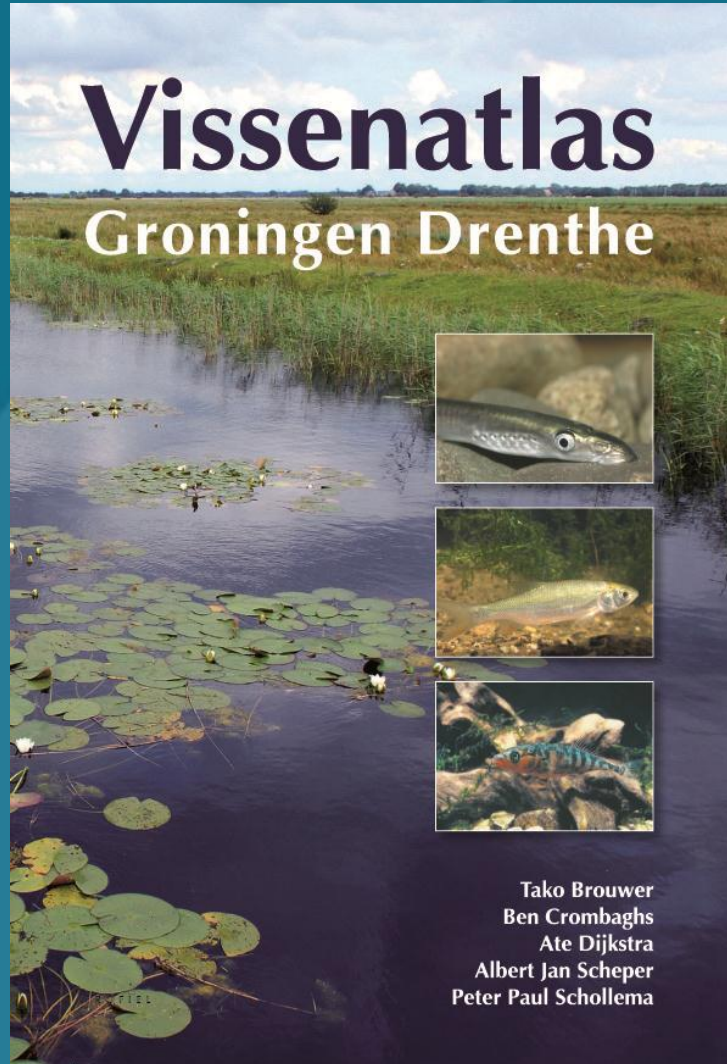
Learn from mistakes!

THE NECESSITY OF MAINTENANCE

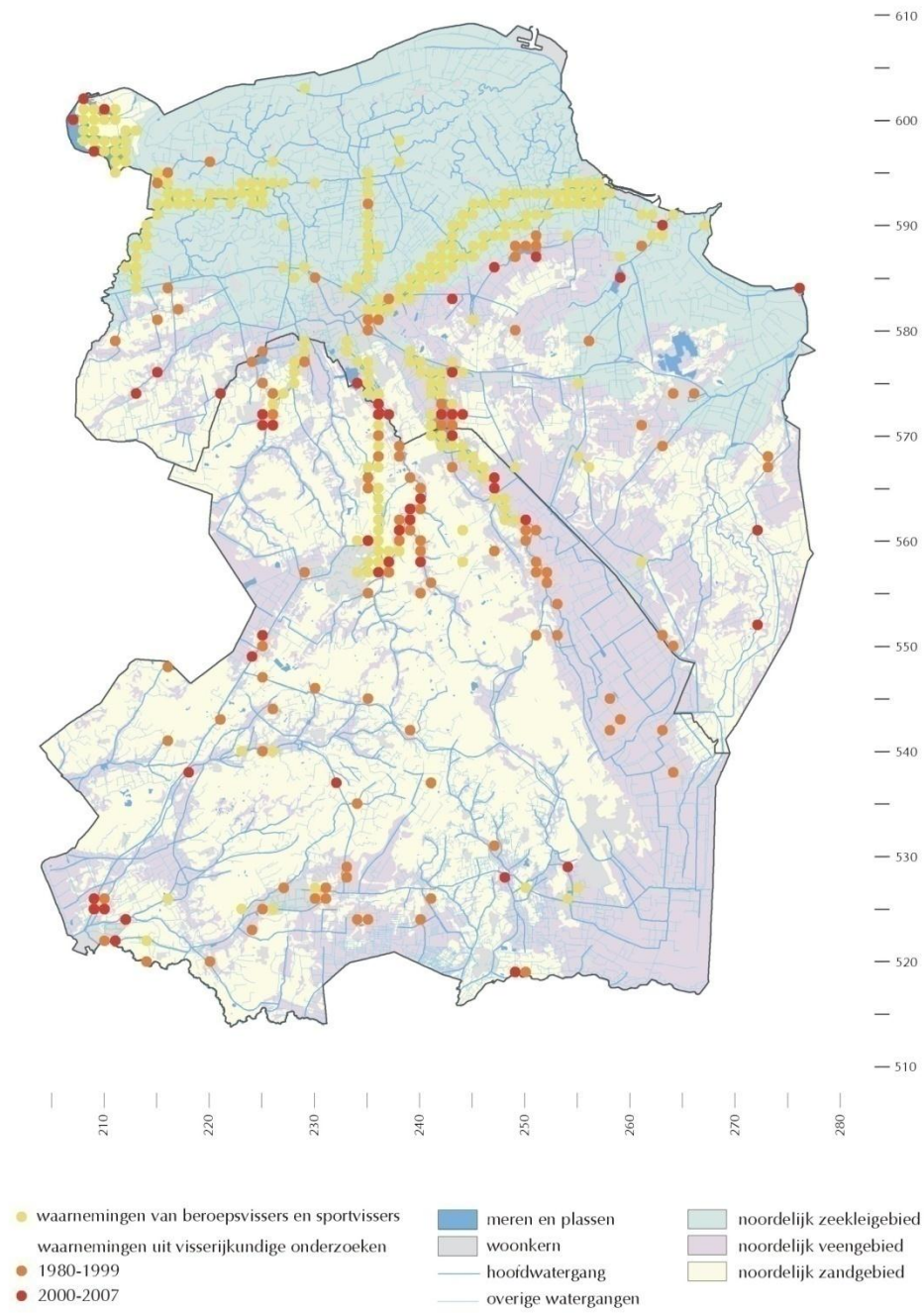


Maintenance and
operating protocols

Dissemination of knowledge... ... also for fishermen



Winde *Leuciscus idus*



“Showing and feeling the fish...”



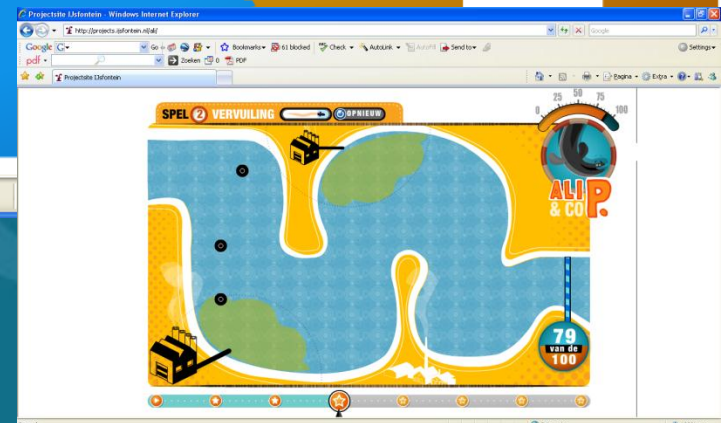
Education activities: "Finding fish...an adventure"





The eel game

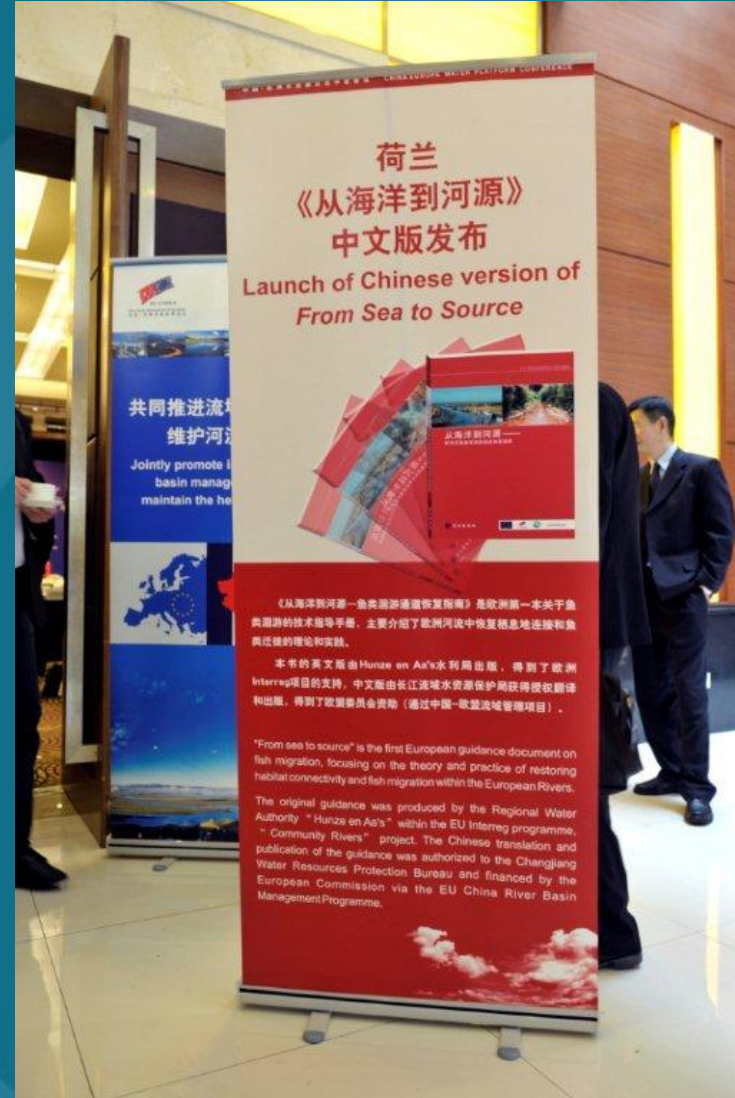
www.elyeel.eu



“Ali in the Dutch Parliament”



Making people proud and doing it together!



长江流域水资源保护局组织翻译 郑丰等译

本书出版单位:

从海洋到河源
欧洲河流鱼类洄游通道恢复指南

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长江出版社

EU-CHINA
River Basin Management Programme
中国-欧盟流域管理项目

WATERSCHAP
Hunze en Aa's

Situation in 2012

- The Chairman of the water authority is fish migration fan and gate keeper
- **65 problems solved** and 65 to go until 2027 ...
...and 2000 in the rest of the Netherlands
- engineers, ecologist, sluice managers, communication advisors, hydrologist are working together...
- More cooperation (coalitions) more subsidy
- Working on international level

Success factors...

- **Enthusiasm**
- **Share ideas, goals and vision**
- **Cooperation... together is more fun**
- **Use clear starting points**
- **Practical ...if not now.. than just do it later**
- **Share best practices and failures**
- **Use each others qualities**
- **Involve children**



Regional coalition: 6 mln. euro subsidy

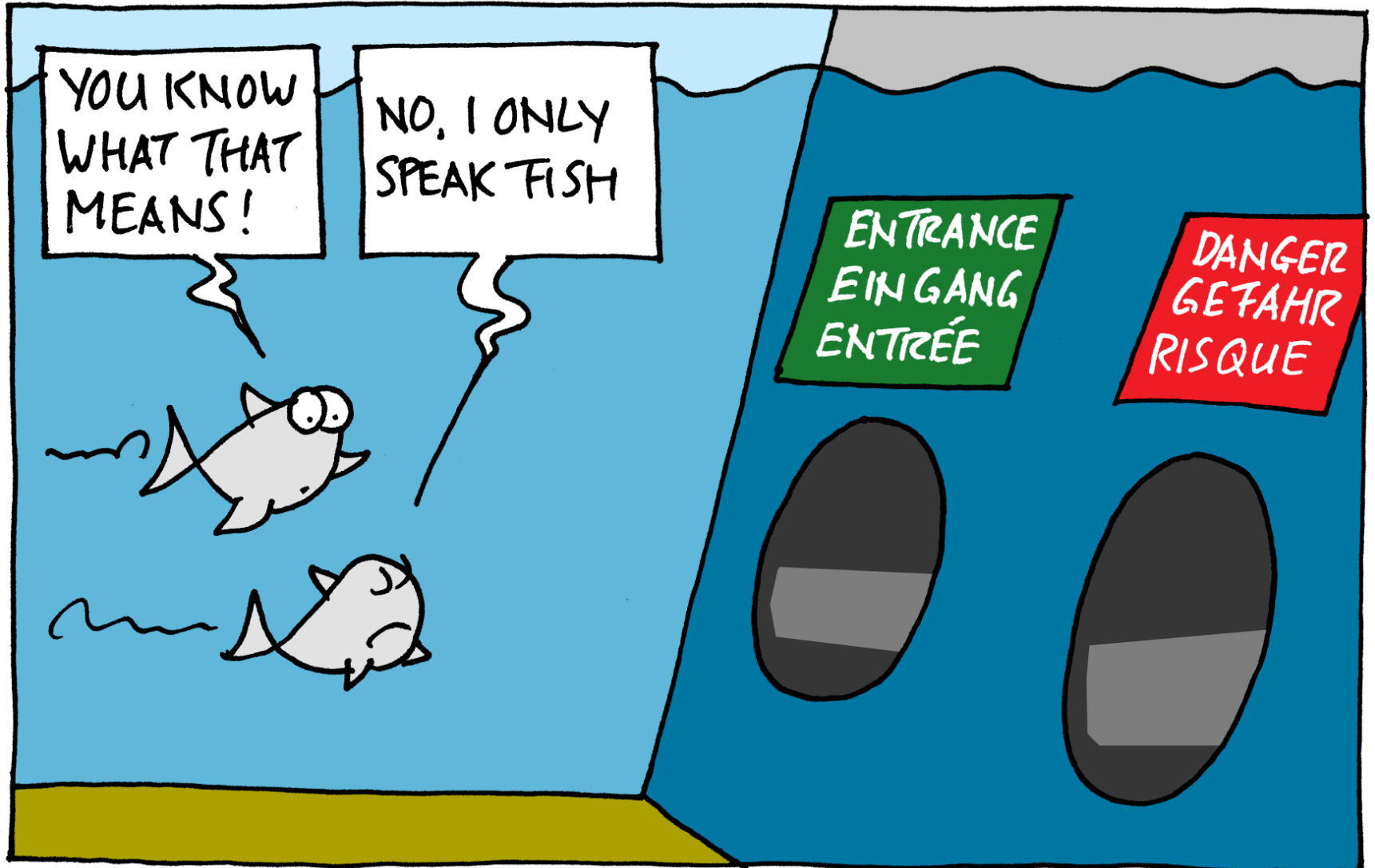


Data SIO, N
Image ©
Image © 2011
Im

53°10'49,26" N 006°36,48' 0" W 5 m

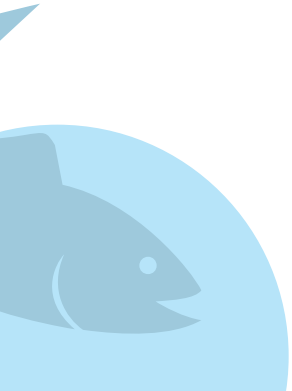
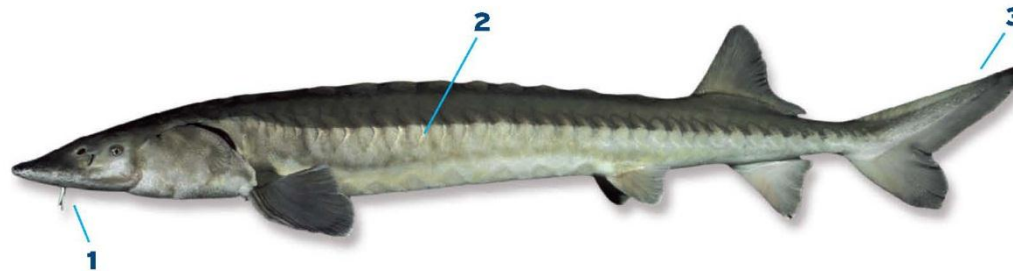
International coalition Living North Sea

LANGUAGE BARRIERS



The LNS effect in 2012

***re-introduction of Sturgeon in the Rhine
together with WWF***



Fish Migration... *from Sea to Source*

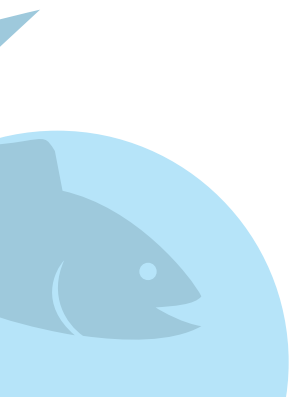


The poster features a dark blue background with a white grid globe containing a fish silhouette. On the left, two vertical photos show a salmon leaping from the water and a transparent fish embryo on a sandy surface. The text 'Fish Migration Day' is in large white font, with '14th of May 2011' in yellow. At the bottom, the 'Living North Sea' logo and the slogan 'Fish Migration... from Sea to Source' are displayed.

Fish Migration Day 14th of May 2011

Living North Sea

Fish Migration...
from Sea to Source



Fish Migration... *from Sea to Source*

One day event along the North Sea Coast

- open for members of the public (fishways, monitoring, rivers, pumping stations, etc)
- fun for children and their parents
- a day you won't forget
- enthusiasm and inspiration



Overall-Coordination:

- Dutch Angling Association & WWC

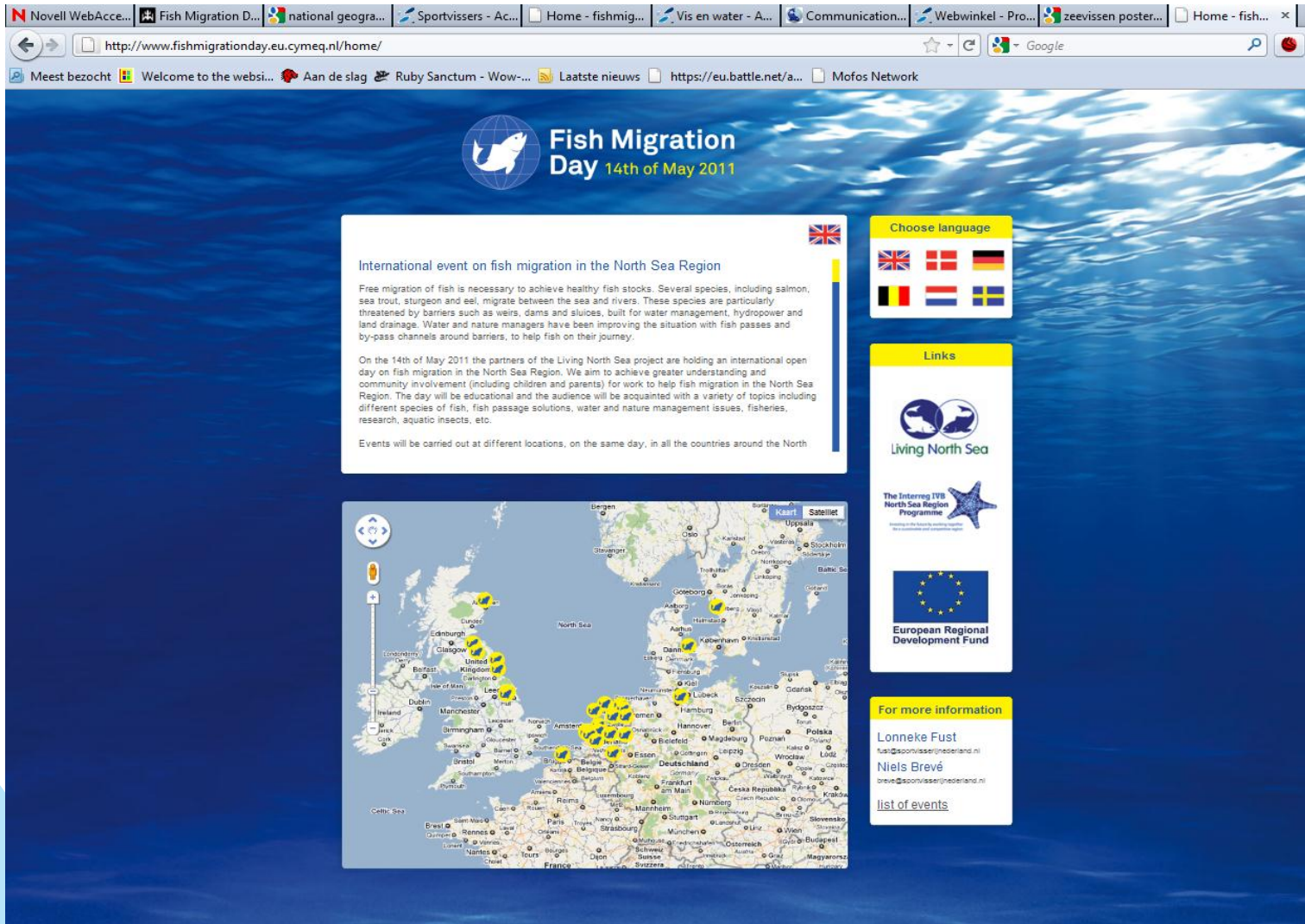


Fish Migration... *from Sea to Source*

Coordination at the location by regional partners




Fish Migration... from Sea to Source




Novell WebAcc... Fish Migration D... national geogra... Sportvissers - Ac... Home - fishmig... Vis en water - A... Communication... Webwinkel - Pro... zeevissen poster... Home - fish... x

http://www.fishmigrationday.eu.cymeq.nl/home/

Meest bezocht Welcome to the websi... Aan de slag Ruby Sanctum - Wow... Laatste nieuws https://eu.battle.net/a... Mofos Network

 **Fish Migration Day** 14th of May 2011









International event on fish migration in the North Sea Region

Free migration of fish is necessary to achieve healthy fish stocks. Several species, including salmon, sea trout, sturgeon and eel, migrate between the sea and rivers. These species are particularly threatened by barriers such as weirs, dams and sluices, built for water management, hydropower and land drainage. Water and nature managers have been improving the situation with fish passes and by-pass channels around barriers, to help fish on their journey.


On the 14th of May 2011 the partners of the Living North Sea project are holding an international open day on fish migration in the North Sea Region. We aim to achieve greater understanding and community involvement (including children and parents) for work to help fish migration in the North Sea Region. The day will be educational and the audience will be acquainted with a variety of topics including different species of fish, fish passage solutions, water and nature management issues, fisheries, research, aquatic insects, etc.


Events will be carried out at different locations, on the same day, in all the countries around the North


Choose language

Links

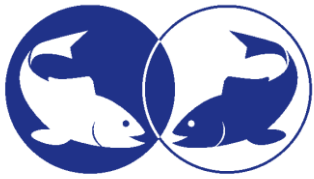

Living North Sea


The Interreg IVB
North Sea Region
Programme


European Regional
Development Fund

For more information

Lonneke Fust
fust@soonvisser(nederland).nl
Niels Brevé
brevé@soonvisser(nederland).nl
[list of events](#)



Living North Sea

Fish Migration... from Sea to Source



The Interreg IVB
North Sea Region
Programme

Investing in the future by working together
for a sustainable and competitive region




Fish Migration Day 14th May 2011

Vismigratie...
Van bron tot monding

Migratie problemen

Er zijn verschillende factoren die problemen veroorzaken voor migrerende vissen.

- Kunstmatige barrières: dammen, sluizen en stuwen
- Vissers
- Vissterfte veroorzaakt door waterkracht turbines en pompen
- Vervuiling
- Verdrogen en versnippering van het leefgebied

Kunstmatige barrières zijn niet alleen een probleem voor de migratie. Zij zorgen er ook voor dat de rivier achter de barrière zo veranderd dat het ongeschikt is als leefgebied voor de vissen.

Over het algemeen wordt gedacht dat migratieproblemen voornamelijk van historische aard zijn. De situatie is juist in de recente geschiedenis veranderd. Onder meer door maatregelen die wij nemen tegen de verhoogde overstromingsrisico's, opwekking van groene energie (waterkracht en getijdenenergie), irrigatie, watertoevoer en afvalwaterverwerking. Al deze ontwikkelingen worden nu als noodzakelijk gezien. Het is dan ook niet waarschijnlijk dat deze ontwikkelingen in de nabije toekomst afnemen.

Een ander probleem waar het vismigratie betreft, is dat het een onzichtbaar probleem is voor de meerderheid van de bevolking. Er is immers nog maar een kleine groep mensen die afhankelijk is van deze vissen. De schade die veroorzaakt is door menselijk ingrijpen is hierdoor vaak onopgemerkt gebleven. Het is voor de toekomst van deze vissen daarom belangrijk om bewustwording van vismigratie te vergroten.

Migratiebarrière "haringvisstluizen" op het baredienstbosdeel van de Rijn en Maas, Nederland

Vrouwelijke paarsgrutte bij de waterkracht centrale Afrorsen te Falkenberg, Zweden



Fish Migration... *from Sea to Source*

Press

- TV, Radio, Internet, etc...
- Magazines (like...National Geographic)

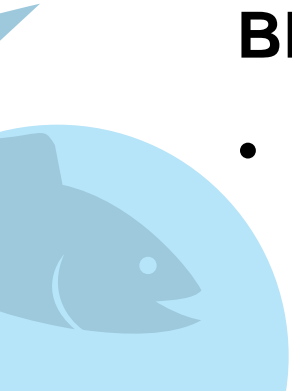
Banner campaign

- 8 mln. impressions
- 10.000 extra hits on FMD



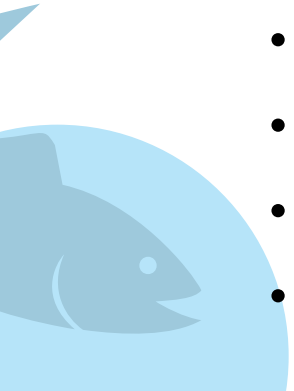
BBC country file

- 8 mln. viewers



Fish Migration... *from Sea to Source*

- **Press Conferences**
- **Excursions – guided tours**
- **Showing fish ladders, weirs, pumping stations...**
- **Exhibitions – information markets**
- **Introduction in the policies on fish migration**
- **Teaching about clean surface water**
- **Showing how monitoring fish passages is done**
- **Educational programs for kids**
- **Catching fishes**
- **Coloring competition**
- **Ely the Eel game**
- **Aquaria with eels, sticklebacks, and more**

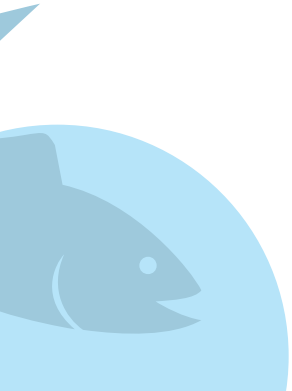


Fish Migration... *from Sea to Source*



Visitors

- **6.000** in total, based on **15** locations
- **10.000** visitor estimated for **26** locations
- Range from **5** to **600** per location



Fish Migration... *from Sea to Source*

World Fish Migration Day 2014

- **One day event on all continents**
- **Starting in New Zealand....ending in California (USA)**
- **One website with all participating locations and information about migrating fish**
- **Potential partners: WWF?, American Rivers?, International rivers?, Nature Conservancy,? Universities?,...**
- **Partner search has started from today...**



Share your goals, ambition, vision ...
...and your funding

from **S**ea to
Source



Explore People Search: Engineer at IBM - Internet - Senior Consultant

Search People

Search

Advanced

- Home
- Groups
 - Fish migration
 - Small Hydro
 - Dutch Delta Design 2012
 - See all »
- Profile
- Contacts
 - Connections
 - Imported Contacts
 - Network Statistics
- Inbox (5)
 - Compose Message
 - Received (5)
 - Sent
 - Archived
- Applications

Add Connections

Herman Wanningen
 Consultant at Wanningen Water Consult
 Herman is working on a presentation for a seminar on river restoration in October at Falkenberg

Groups My Groups Groups Directory Create a Group FAQ

Fish migration

- Overview
 - Discussions
 - News
 - Jobs
 - Subgroups
 - More
 - Manage
- Group Profile

Share group

Discussions [Start a Discussion](#)

- Recent Activity
- Recent Discussions
- Most Comments

 **Hydroacoustic Monitoring**
 By Bob McClure 12 days ago
[Follow](#) | [2 comments »](#)

 **Come and join us in Madrid and learn what you need to know about MesoHABSIM!**
 By Piotr Parasiewicz 3 days ago
[Follow](#) | [Add comment »](#)

 **Fisheries in a Changing Climate**
 By John Gregory 4 days ago
[Follow](#) | [Add comment »](#)

 **Voor het afschrikken van vissen worden bij gemalen e.d. worden ook wel stroboscooplampen gebruikt:**
 - wie weet een geschikte leverancier?
 - welk type lamp is hiervoor het meest geschikt (LED?)?
 By Paul Heuseveldt 29 days ago
[Follow](#) | [4 comments »](#)

Activity: Last 7 Days

- 18 New members
- 2 New discussions
- 4 New news articles

NEW! LINKEDIN APPLICATIONS

CompanyBuzz by LinkedIn

See what people are saying about your company.

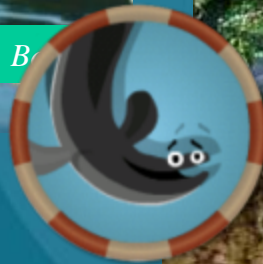
[Get Started](#)



“Showing the bigger picture”



From. J. B.



白鲟

White
sturgeon



Know your stakeholders and key contacts

