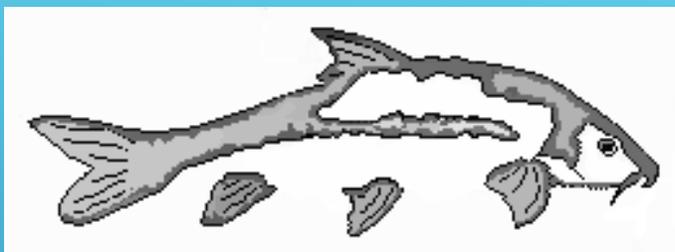


RE-INTRODUCTION OF THE SALMON IN THE ROER/RUR

**International European partnership for the return of
the Salmon in the Roer/Rur with Dutch,
Belgian, French and German tributes**



Fishery Board Roerdal

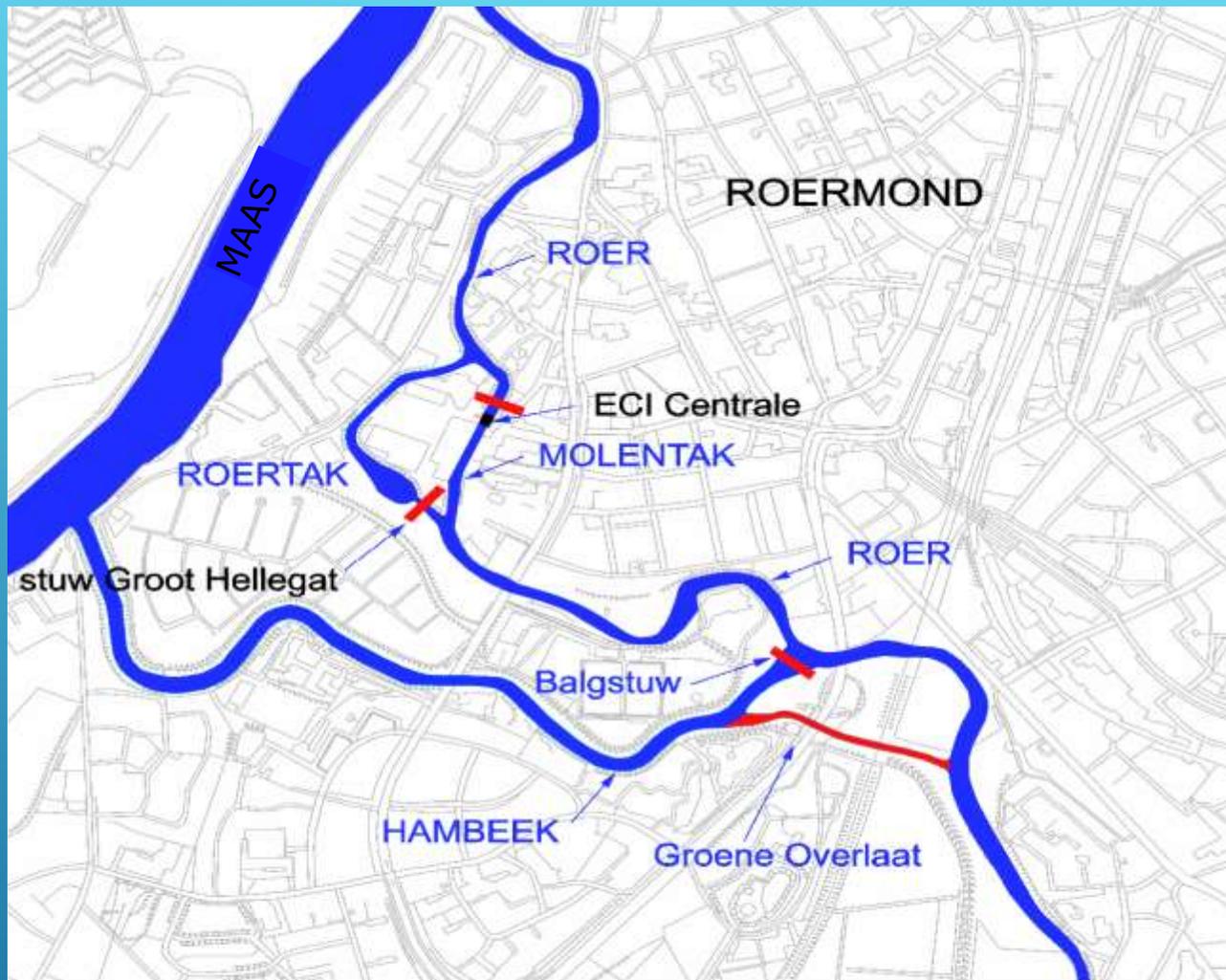


waterschap
limburg



- ▶ **Project Lachs 2020 Nordrhein-Westfalen Germany, since 1998: collaboration for farming, restocking and monitoring salmon**
- ▶ **Project Saumon 2000 Belgium since 2012: collaboration for storing caught adult Meuse-salmon and supply salmon eggs from salmon hatchery Erezée for German hatchery at Obermaubach**
- ▶ **Salmon hatchery Chanteuges, France: supply of salmon eggs for German hatchery at Obermaubach**
- ▶ **Alterra - University Wageningen: investigation of smolt migration at ECI hydropower plant**
- ▶ **University Wageningen: statistical results monitoring ECI**
- ▶ **Sportvisserij Nederland and Department of Waterways and Public Works (Rijkswaterstaat): investigating smolt migration from Germany to the North Sea.**
- ▶ **Water Authority Limburg, owner of the ECI fishpassages.**

PARTNERS



LEGENDA

— vismigratiekneelpunt

WATERSCHAP ROER EN OVERMAAS

Parklaan 10 / Postbus 185 / 6130 AD / Sittard / Tel. 046-4205700

Visualisatie vismigratiekneelpunten in de Roerdelta.



**START : 1996 SPAWNING BEDS IN EIFELRUR
GERMANY AND CONSTRUCTION OF OWN
HATCHERY**



**YEARLY RELEASE OF 100.000 FRYS IN GERMAN
EIFELRUR AND THE DETERMINATION OF FIRST
YEAR SURVIVAL IN SEPTEMBER**



**CATCH OF FIRST SALMON DOWNSTREAM
OF ECI HYDROPOWER PLANT IN 2002 BY
ELECTROFISHING**



BUT: NO FISH LADDER AT ECI



RESULT

- ▶ Principal Waterboard Limburg
- ▶ Costs 5 million Euro with grants of Life Europe
- ▶ Upstream fish ladder with electrically lifted cage
- ▶ Downstream smolt trap and bottom passage for eels with an electric lifted fyke
- ▶ 10 mm grid before the turbine with hydraulic powered sweeper
- ▶ Electrically powered conveyer to transport the floating debris to a container
- ▶ August 2008: Start daily monitoring during the entire year by 14 Dutch and German volunteers

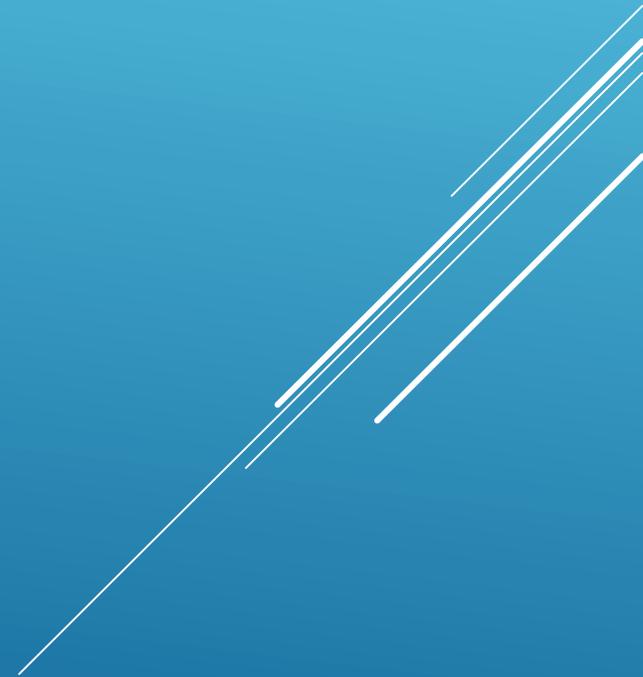
CONSTRUCTION FISH LADDERS AND FISCH PROTECTION SYSTEM AT ECI- HYDROPOWERSTATION AND RESTORATION OF FISH LADDER BETWEEN ROER AND HAMBEEK 2007

2008 DEPLOYMENT FISH LADDERS ECI, FISH GUIDANCE SYSTEM AND OBSERVATION ROOM





JANUARY 2008 FIRST SALMON IN THE
HAMBEEK FISHWAY





SEPTEMBER 2008 FIRST SALMON IN FISH
LADDER ECI, ALL SET BACK INTO THE ROER
UNTIL 2012



2012 COLLABORATION SAUMON 2000 HATCHERY ÉRÉZÉE

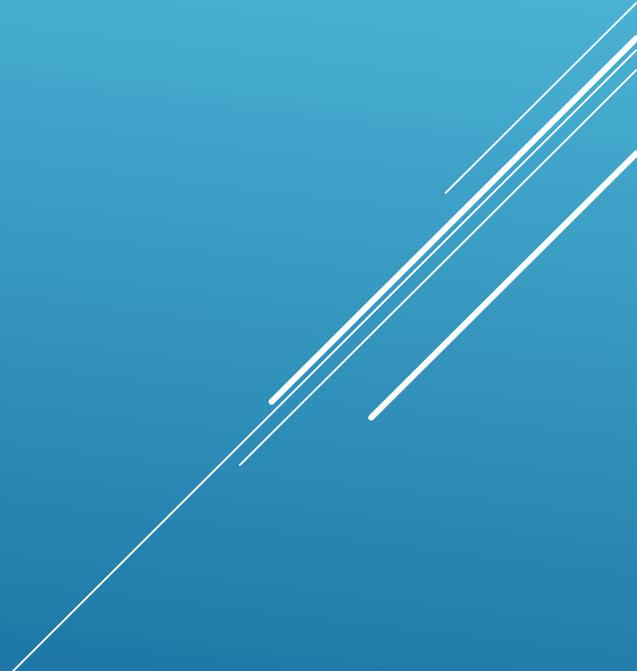
	Adult												totaal kelts	major males	smolts		
maand >	1	2	3	4	5	6	7	8	9	10	11	12					
jaar																	
2008	1							2		1				3			
2009									3	3				6	9	1071	
2010									4	4	1			9	19	1512	
2011					1	3			1	4	1			10	1	1061	
2012			2			2	1	1	1	6	2	1		16	3	1626	
2013	1								3					4	10	405	
2014			1				1				1			3	4	2404	
2015					1	4			1	1	1			8	10	340	
2016					3	1	2			2		1		9	9	661	
2017					4				1	2	1			8		1286	
2018				1		1								2	?	289	
totaal														78	4	113	10555
/maand	2		3	1	9	12	4	3	14	23	10	2					

- ▶ ECI salmon transport to Erezée
- ▶ DNA investigation University Leuven
- ▶ 50% of the eggs production for the Eifelrur/Roer, all tribe Loire-Allier
- ▶ Developing new Maas tribe

COLLABORATION SAUMON 2000
BELGIUM

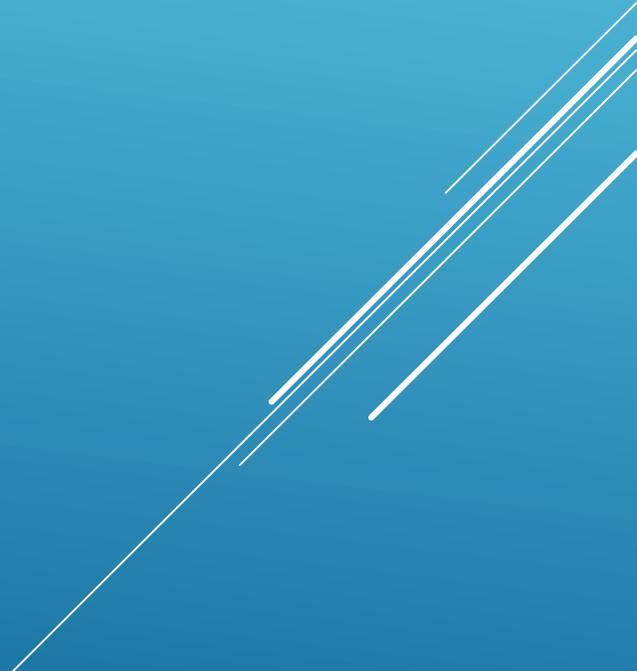
- ▶ Hatchery Obermaubach
- ▶ Monitoring at ECI hydropower
- ▶ Release fry in the Eifelrur/Roer system
- ▶ Investigation first year survive by e-fishing September
- ▶ Investigation spawn by e-fishing August

COLLABORATION LACHS 2020
GERMANY



- ▶ Visiting the hatchery every year to pick up 100.000 salmon eggs, tribe Loire-Allier
- ▶ Exchange experiences of the breeding

COLLABORATION HATCHERY
CHANTEUGES FRANCE

A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against the blue background.

- ▶ **Training of volunteers in fish determination, (55 species!)**
- ▶ **Organisation of first Fishmigration Day: 700 visitors**
- ▶ **Open Day once a year**
- ▶ **Tours for schoolchildren, groups and individuals: 500-1000 visitors in the first years**

EDUCATIONAL ACTIVITIES

- ▶ International cooperation and partnership by planning fishladders/fishprotection, hatchery, fieldwork, monitoring, reporting
- ▶ Monitoring fishladders during 12 years by 14 very enthusiastic Dutch and German volunteers, every day of the year, continuing in the future
- ▶ Enthusiastic cooperation by employees of the water board
- ▶ ECI Fishladders and fishprotection work very well
- ▶ National and international interest in our results
- ▶ A lot of new unknown findings about fishmigration smolts, whitefish and eel
- ▶ 78 adult salmons were caught up to 2018
- ▶ Yearly passage of 6000-8000 smolts towards the Northsea
- ▶ Upstreams swimming adult salmons can swim into the tailrace of hydropowers and are heavenly wounded or killed

RESULTS AND FINDINGS



SERIOUSLY INJURED ADULT SALMONS IN
TAILRACE HYDROPOWER, AN
INTERNATIONAL PROBLEM



THANK YOU!