

Jun 22nd, 3:15 PM - 3:40 PM

Session C2: Eel Recovery – It is not Just About Fishing

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Sustainable Eel Group

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The background features a stylized illustration of a fisherman in a boat, surrounded by eels and fish. The scene is rendered in a muted, earthy color palette, with the fisherman and boat appearing in shades of brown and tan, and the water and fish in lighter, textured tones. The overall style is reminiscent of traditional folk art or a woodcut print.

Eel Recovery – it is not just about fishing

Fish Migration Conference
22nd June 2015
Holland

Andrew Kerr
Chairman

The Sustainable Eel Group

- **SEG building the Network of collaboration**
 - With Science
 - With Conservation (NGO's)
 - With the Fishery and Industry
- **SEG and Blocked Migration Pathways**
 - Scale of the challenge
 - Latest from SLU in Sweden
- **SEG What next?**

***IFM and EA Eel
Conference
Bridgwater April 2009***



***Forming SEG
during 2010***

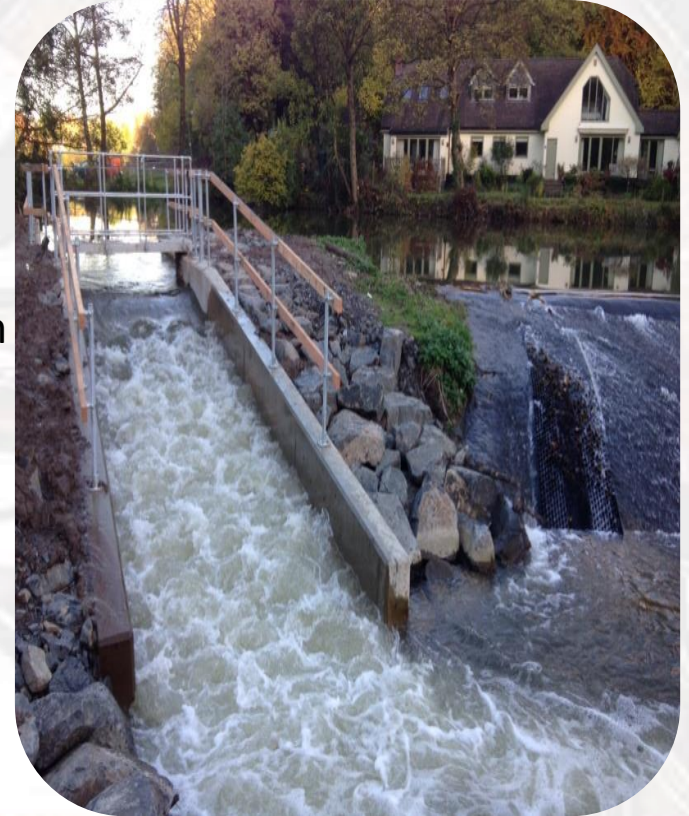


***Our First of many European Meeting.
At Hamburg May 2010***

SEG's Objectives

Accelerating the Eel's Recovery

- To help deliver the objectives of **the EU Eel Regulation**
- To develop, decipher and **apply sound science** to inform effective decision making
- **To Influence policy makers at UK and European Levels**
- To encourage well regulated and **sustainable fisheries** that support local economies and communities
- To promote greater **public understanding of the eel**
- To be effective at seeking income and **resources** to progress the aims of the group



**A Rivers Trust and EA Solution
on the Severn**



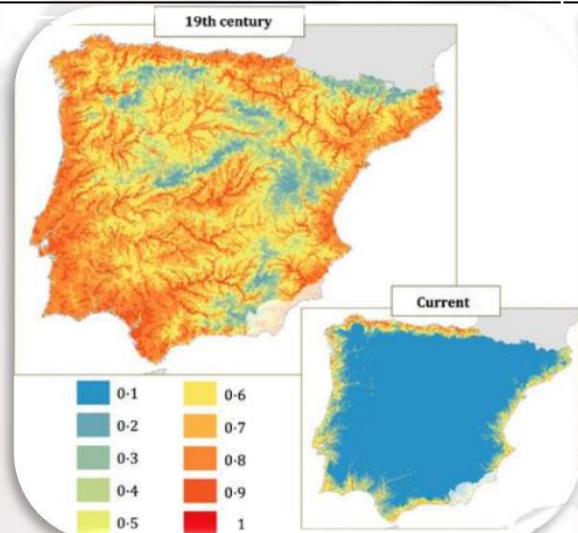
The UK Minister Presents SEG's 5th Anniversary Achievement Awards for sustainability to eel leaders from Science, Conservation and the Industry.

April 2015 - **Collaboration**

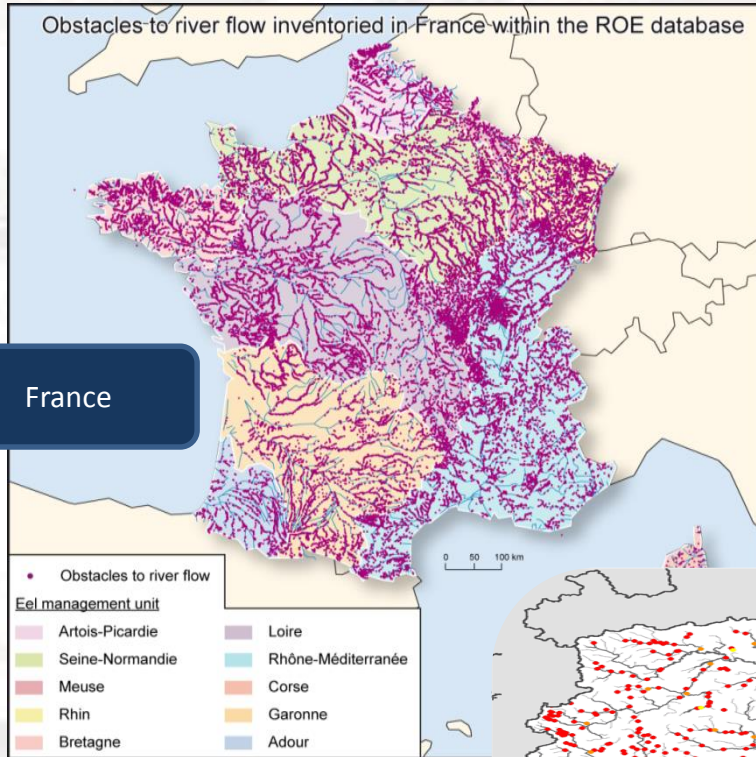
Eels need our help

Objectives	Long term measures	Emergency measures
<p>Increase recruitment in</p>	<ul style="list-style-type: none"> • Unblock migratory pathways in • Reduce eel mortality 	<ul style="list-style-type: none"> • Glass eel restocking / translocation with fishermen
<p>Increase escapement out</p>	<ul style="list-style-type: none"> • Unblock migratory pathways out • Increase Escapement 	<ul style="list-style-type: none"> • ‘Eels over the barriers’ with fishermen

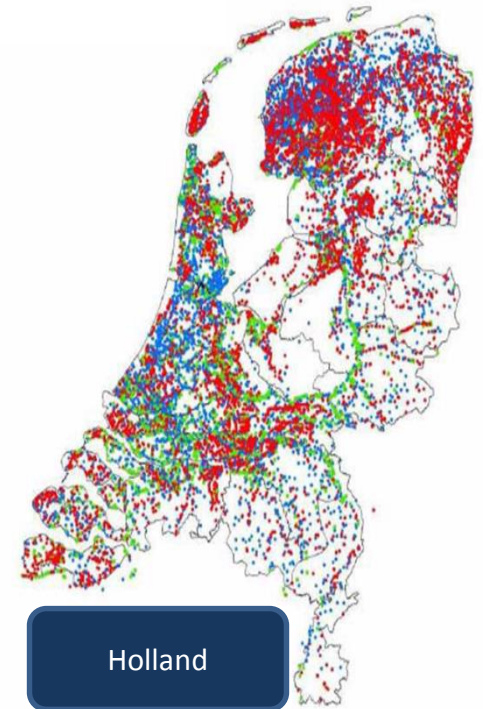
40%



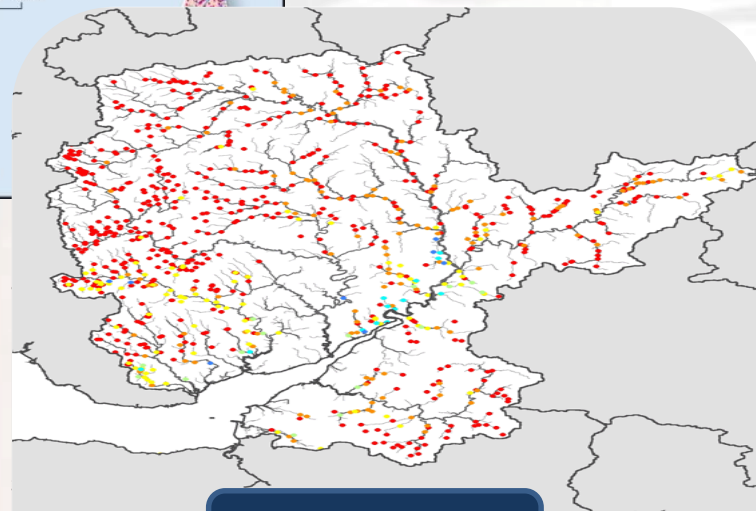
Help Eels to 'get in'



- 2,278 Sluice Gates
- 8,488 Dams
- 4,671 Water Pumps
- gemaal (4671)



productie: drs. N.W.P. Brevé, Sportvisserij Nederland
bron: 2001, RWS Meetkundige Dienst (WIS-BORIS)



R. Severn RBD
Eel Management Plan

The new **St Germans Pumping Station** near Wighenhall St Germans, Kings Lynn. It is one of the largest pumping stations in Europe.



The elver pass -35 m

During the first three weeks of opening April 2014 some 50,000 elvers made their way through the pass.



We all know this works so why not do it ?

Type : Eel trapping kit

Eel Pass, Arzal dam
Vilaine river



Eel ladder left bank



Estuarine eel ladder with counting facilities using modular eel ladder.



Eel ladder right bank

Vilaine Atlantic France

2010 0.5m

2014 5.58m

'best since 1996'

Arzal	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Glass eel Nb	2396000	3100000	2474000	3380000	3026000	2295000	5212000	2880000	2636000	1064800	7197000	3882000	3962000	1701200	2866000	920000	1562000	2950000	5337900	> 278310 ⁸
Elvers Nb	15550	8234	24270	33640	34400	6570	7215	9440	3905	850	15040	15680	57894	71589	28360	4515	13454	145000	78400	> 0.5 x 10 ⁶
total	3411550	217534	3498170	322640	316110	240070	50940	28940	30260	107930	734750	389880	454120	241700	54020	136215	1594454	3097000	5478300	

After a very bad recruitment in 2011. The count of glass eel and elvers increase, the last two years are the best one since 1996 (2014 partial count).

Eel ladder managed by EPTB Vilaine

Fish-Pass

ZA de 3 près 35800- LAILLE - France

Te : + 33 2 88 77 32 11 E mail: fishpass@fish-pass.fr

“We all know this works so why aren't we doing it?”



**With Zac
Goldsmith MP
April 2014**

	2014 (million)	2013 (million)
Germany	20	15
France	23	12
UK & Ireland	15	4
Sweden	3	3
Holland	12	3
Denmark	2	2
Belgium	1	1
Czech Republic	5	?
Poland	3	?
Estonia	3	?
Others	4	3
Total	90 +	40+

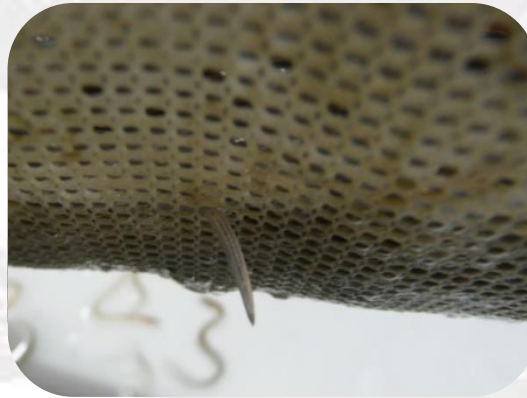
Juvenile Eel translocation an Emergency Measure

All numbers are approximations based on weight

SEG only supports sustainable and legal fisheries that meet the Standard



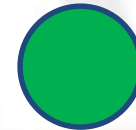
+



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The Sustainable *Eel* Standard



www.certifiedsustainableeel.com



The aims of the Sustainable Eel Standard:

- Operators can demonstrate their high standards and commitment to sustainability
- Encourages high and responsible standards through the supply chain, from fishery to market
- Encourages sustainable practices and market
- Discourages unsustainable practices and market
- Provides confidence to consumers who wish to buy responsibly
- Part of the solution for sustainable management of the eel in Europe



Over 70% of the
European Industry



The mature Standard released at the 2013 Conference. It builds on the experience of 50 assessments. SEG will continue to consult, review and improve.

ISEAL Credibility Principles

written into the three Codes

- **Setting Environmental Standards**
- **Assuring Compliance**
- **Assessing Impacts**



Assessing the Impacts of
Social and Environmental
Standards Systems
ISEAL Code of Good Practice

Version 2.0 - December 2014



Assuring Compliance with
Social and Environment
Standards
Code of Good Practice



Setting Social and
Environmental Standards
ISEAL Code of Good Practice

Version 6.0 - December 2014



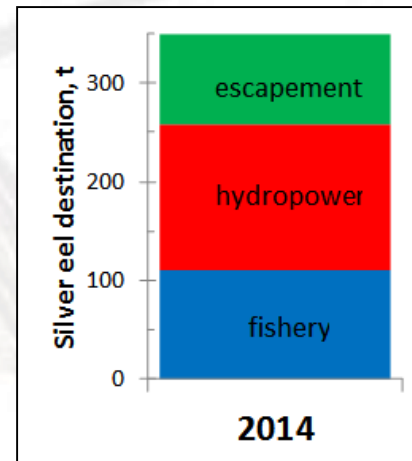
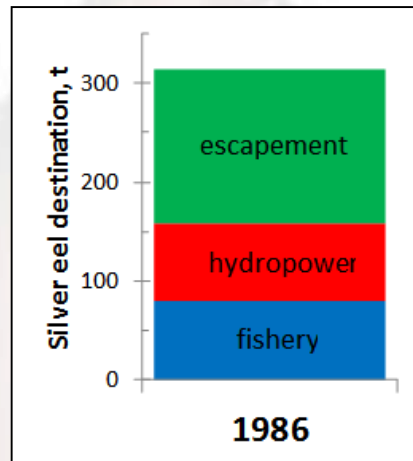
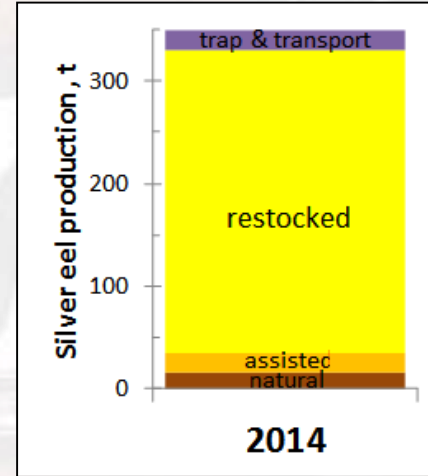
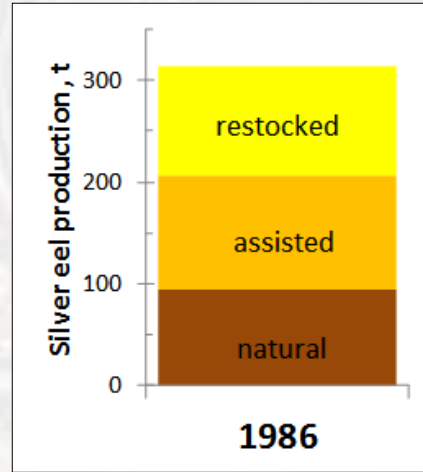
Help eels to 'get out'



25,000 Hydropower stations & many 10,000's water pumping stations are killing hundreds of thousands of mature eels each year

Latest Report from SLU Sweden on progress with EMP
Dekker / Wickstrom – the Freshwater situation

Eels In



'The fishery has a double role and hydropower the main mortality but the bottom line is hydropower provides the main money so RESTOCKING, FISHERY HYDROPOWER are all interdependent'
Willem Dekker 8th June 2015

'Every time I see this plot I am surprised how important restocking has become in Sweden and how much the composition has changed'
Willem Dekker 8th June 2015

Eels Out

see WWW.KRAFTTAGAL.SE for report

European Commission's Report to Parliament 24th October 2014

*“Progress was made in implementing management measure **related to fisheries** but that other management measures, such as improving habitats, combating parasites or predator control **have often been postponed** or only partially implemented.”*

*“**More attention** should be given to management measures **related to these non-fishing anthropogenic mortality factors**, the majority of which has only partially been implemented by Member States.”*

*“Non-fishing anthropogenic mortality factors **include hydropower and pumping stations, habitat loss** or degradation, pollution, diseases and parasites.”*



A threat to eel or an opportunity ?

UK Tidal Energy Opportunities

- Island nation with largely untapped marine energy resource
 - best in Europe
- Tidal lagoons require:
 - Shallow water
 - Large tidal range
- Difference in high tide times around the UK creates potential to produce 24-hour base-load renewable electricity from a network of lagoons
- Essential part of energy mix and a new exportable industry



The European Maritime And Fisheries Fund 2014-2020

€6400_M

Allocated in total from 2014-2020.

To help fishermen adapt to sustainable fishing, create jobs for the sector and diversify economies in coastal communities.

The EMFF assists Member States to co-finance operational programmes and projects, to reach the objectives of the reformed Common Fisheries Policy.

It is one of the five European Structural and Investment Funds which complement each other to deliver more jobs, welfare and growth in the EU.

Distributed between:

11%

Managed by the European Commission



To support EU-wide objectives in maritime and coastal affairs:

- International governance
- Cooperation through exchange of information and best practices
- Public information and support to networking platforms
- Marine Knowledge
- Maritime Spatial Planning

89%

Managed by the member states



Divided amongst EU countries, the funds are used for:

- Reducing impact of fishing on the marine environment
- More market tools for professionals and consumers
- Joint stewardship of protected areas and Natura 2000 sites
- Special support to small-scale fishermen

Among which:



€4340_M

Sustainable Fisheries

Making fisheries and aquaculture more sustainable and profitable:

- Ensuring and creating sustainable jobs
- Local development and support to fisheries areas
- Marketing and processing



€580_M

Control and Enforcement

To monitor compliance with the European Common Fisheries Policy and protect a fair access to healthy stocks:

- Access to fishing grounds
- Controlling fishing effort, TACs and quotas
- Other technical measures to improve selectivity and sustainability



€520_M

Data Collection

To collect the data the scientists need to improve our knowledge of the seas and the long term management of our fisheries:

- Understanding and monitoring of commercial species
- Dynamics of single stocks and mixed fisheries
- Ecological modelling of regional basins



€71_M

Blue Economy

To unlock sustainable growth and job creation from our seas and oceans, in areas such as:

- Maritime surveillance (CISE)
- Improved knowledge of the seas and ecosystems
- Enabling rational exploitation of new marine resources (e.g. energy, biotech)

Investment opportunity to fund solutions

SEG the Focus Points – it is not just about fishing

- **More of the Same in partnership**
 - Unblock the migration pathways across Europe
 - Build conservation projects in partnership
 - Tell the whole eel story
 - Only support the fishery & industry where the SEG Standard is met
- **More and better measurement at all life stages**
- **Make the 60/40 happen**
- **End the Poaching, illegal / criminal trade**
- **Achieve the 40% Silver Eel escapement**

A faded, stylized illustration of a beaver in a pond, surrounded by trees and water lilies. The beaver is the central focus, depicted in a dark brown color with a white belly. It is surrounded by various elements of a natural environment, including trees, water lilies, and a small boat. The overall style is reminiscent of a woodcut or a traditional folk art illustration. The word "SPARE" is overlaid in the center in a bold, black, sans-serif font.

SPARE



Telling the Eel Story.....



Unblocking the migration pathways has started...so much more is needed

Netherlands Regional Water Authority (RWA) Hunze en Aa's

213.000 ha large water management organisation
 3500 km of waterways in the North East
 1000 + locks, weirs and pumping stations
 100 solutions 'fishways' introduced so far



DADMAP FOR FISH MIGRATION IN THE DUTCH DELTA



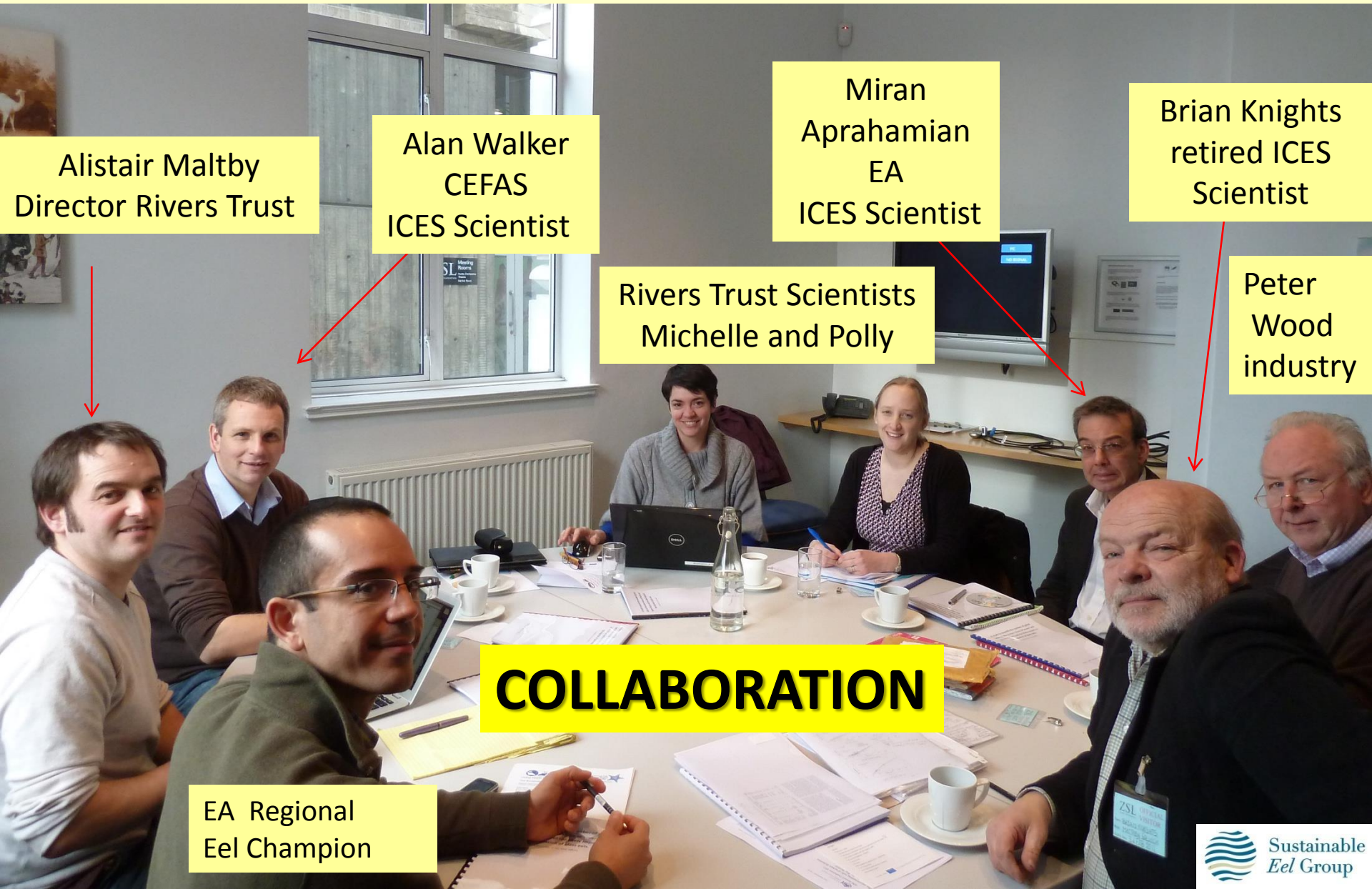
Thanks to Peter Schomella



Sustainable Eel Group

The Eel Habitat sub Group meeting at ZSL

Science, Conservation and the Industry together



Alistair Maltby
Director Rivers Trust

Alan Walker
CEFAS
ICES Scientist

Miran
Aprahamian
EA
ICES Scientist

Brian Knights
retired ICES
Scientist

Rivers Trust Scientists
Michelle and Polly

Peter
Wood
industry

EA Regional
Eel Champion

COLLABORATION

"At this point SEG does not have any fishery independent data for 2015 and the 5 year rolling average gives the best guide to trends as natural conditions especially water temperature and volume have a huge impact on productivity.

For France the fishing boats have been reduced by more than a half and in 2015 some 26 tons plus were caught say **75 to 100 million fish.**

For England the fishery will not match the 2013 and 2014 seasons which were the best for decades. The 2015 data is being collated and is likely to be at the same levels as the 2012 and 2011 seasons and definitely better than the very low recruitment of the period 2005 to 2010. **The range is 7 to 10 million fish.**

Typically France catches 10 times England."

A short statement would be

"Over 100 million were caught this year. Levels were comparable to the 2011 and 2012 seasons and better than the lows of 2005-2010"