



Data Collection & advice on fish stocks

How scientific advice is developed for
EU Fisheries Policy decisions

Brussels, European Parlement, 5th of december 2024

Els Torreele

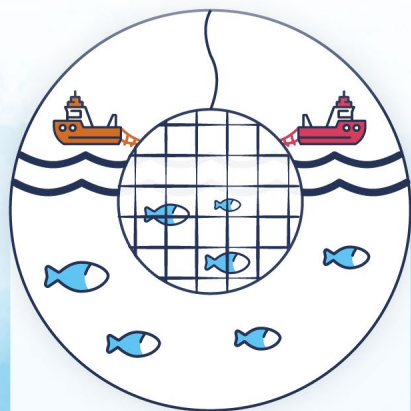


Vlaanderen
is landbouw & visserij

ILVO
Instituut voor Landbouw-,
Visserij- en Voedingsonderzoek

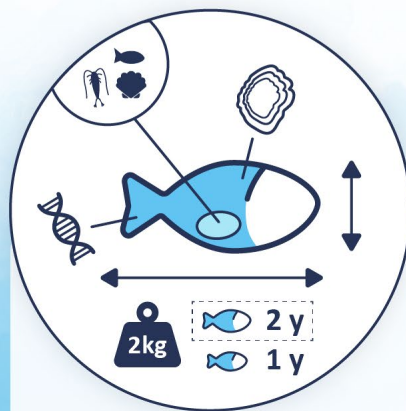
We work to support a well-functioning ecosystem for fish populations

SCIENTIFIC SAMPLING



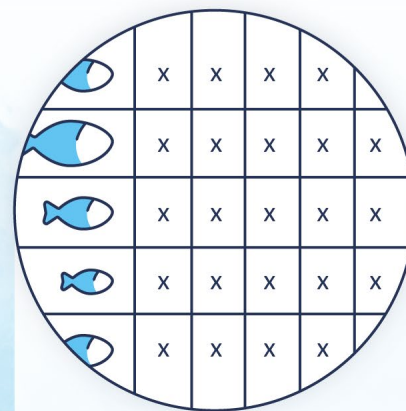
Commercial fisheries and **research vessels** are platforms to collect biological and environmental data.

MEASURING



We use **traditional and innovative tools** to measure fish-related and environmental variables.

STORING DATA



All collected **data is sorted, quality checked, analyzed and supplied.**

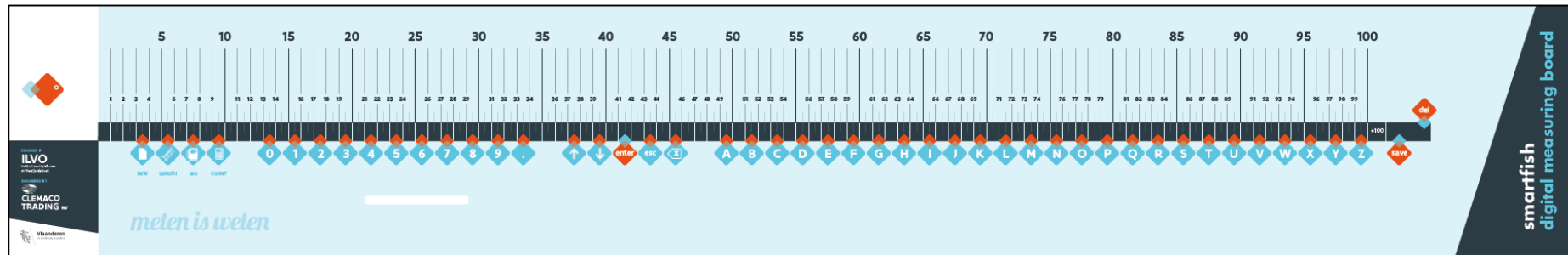
EVALUATING



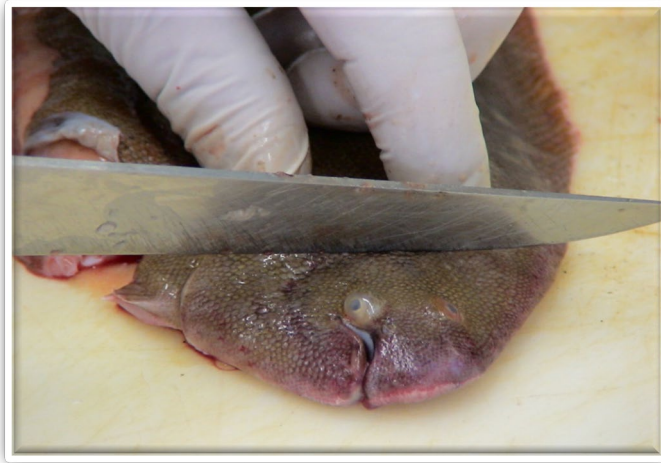
Data from different countries feed into crossboundary models and advice.

Custom built Smartfish measuring board

- Technology: linear magnetic sensor
- Interface via Bluetooth
- Power supply via Power bank
- Output
 - Length data
 - Alpha numeric
 - Function keys



Age Reading of a fish



Sole North Sea

Ring 1

Ring 2

Ring 3

3 years old

Age Reading - SmartDots

The screenshot shows the SmartDots web application interface. The main window displays a fish's otolith with a scale bar indicating 1 mm. A line of green dots is drawn across the otolith, with an orange arrow pointing to the first dot. The interface is annotated with red numbers 1 through 7.

1 Login as bekaert, ICES - Exchange (85):IOS Demo Plaice

2 Files table:

File	Sample number	#Annotations	Scale (px/mm)
85_PLE_67773.jpg	2068	3	69.0
85_PLE_67774.jpg	2069	1	
85_PLE_67775.jpg	2070	1	
85_PLE_67776.jpg	2071	0	0.0
85_PLE_67777.jpg	2072	0	0.0
85_PLE_67778.jpg	2073	0	0.0
85_PLE_67779.jpg	2074	0	0.0
85_PLE_67782.jpg	2075	0	0.0
85_PLE_67784.jpg	2076	0	0.0
85_PLE_67785.jpg	2077	0	0.0
85_PLE_67786.jpg	2078	0	0.0
85_PIF_67788.inn	2079	0	0.0

3 Annotations table:

Parameter	Lab technician	Created	Age	AQ	Approv...	Fix...	Co...
<input type="checkbox"/>	OWR	decoster	10-04-18	2	AQ1		
<input type="checkbox"/>	OWR	decoster	10-04-18	0	AQ1		
<input checked="" type="checkbox"/>	OWR	bekaert	10-04-18	6	AQ1	<input checked="" type="checkbox"/>	

4 Sample information:

Species: Pleuronectes platessa
Catch Date: 02/05/2016
Fish Length: 380
Fish Weight: 457
Area: 27.7.f
Stock Code: ple.27.7fg

5 Brightness graph:

Brightness

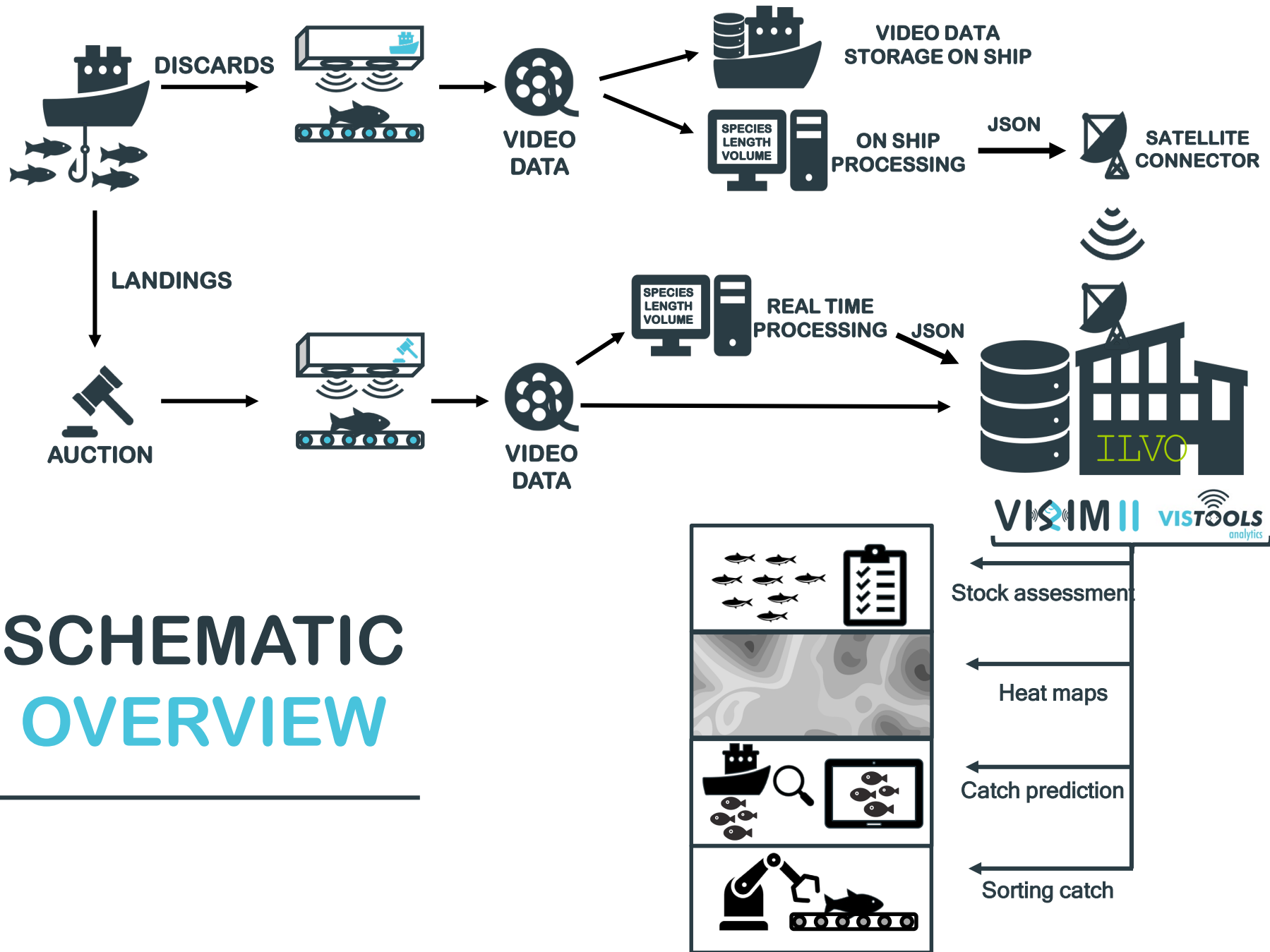
Brightness Redness Growth

6 1 mm scale bar

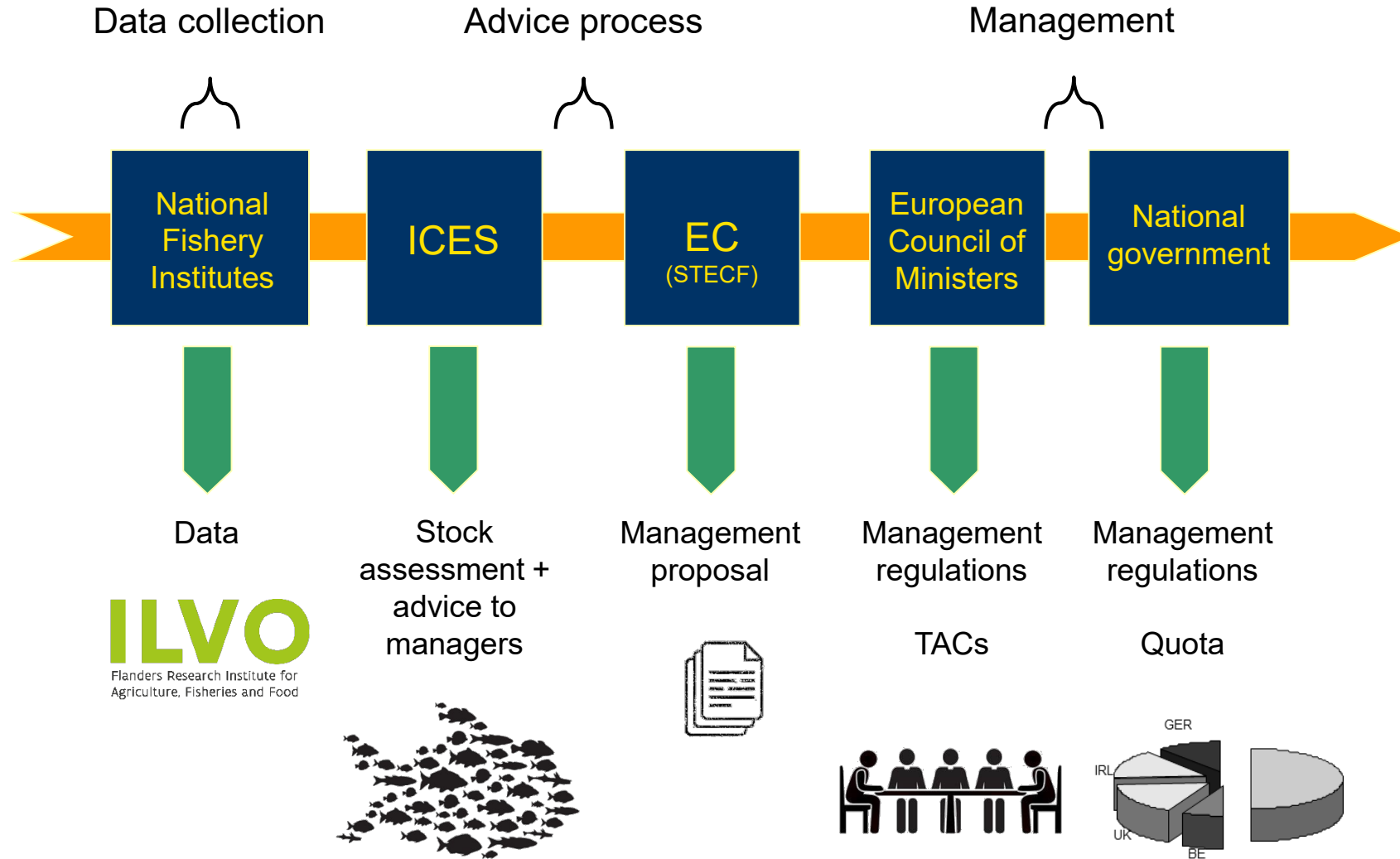
7 Back Save Graphs Adjust Reset

<https://www.ices.dk/data/tools/Pages/smartdots.aspx>

SCHEMATIC OVERVIEW

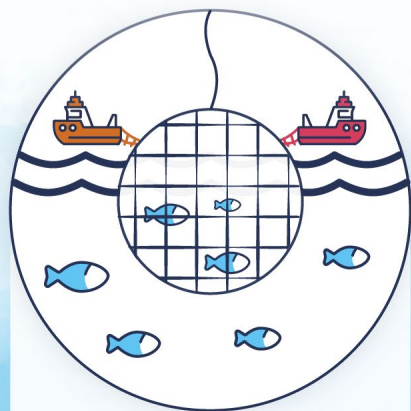


OUTPUT Flow advice



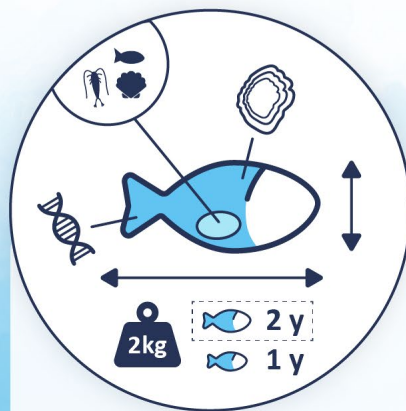
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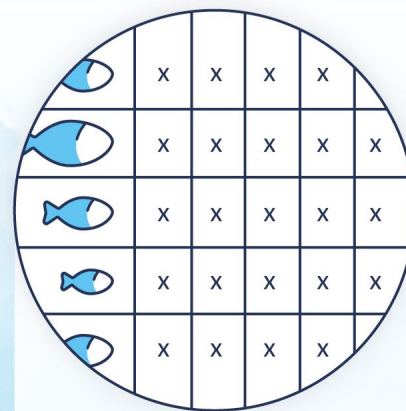
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Thank you

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