
Data Management Architecture to enable Multinational Co-operation



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The Set-Up

- Projects are expensive



The Set-Up

- Projects are hard
 - Project Partners
 - Different Countries
 - Regulatory Environments
 - Standards and Practices
 - Technical Ability



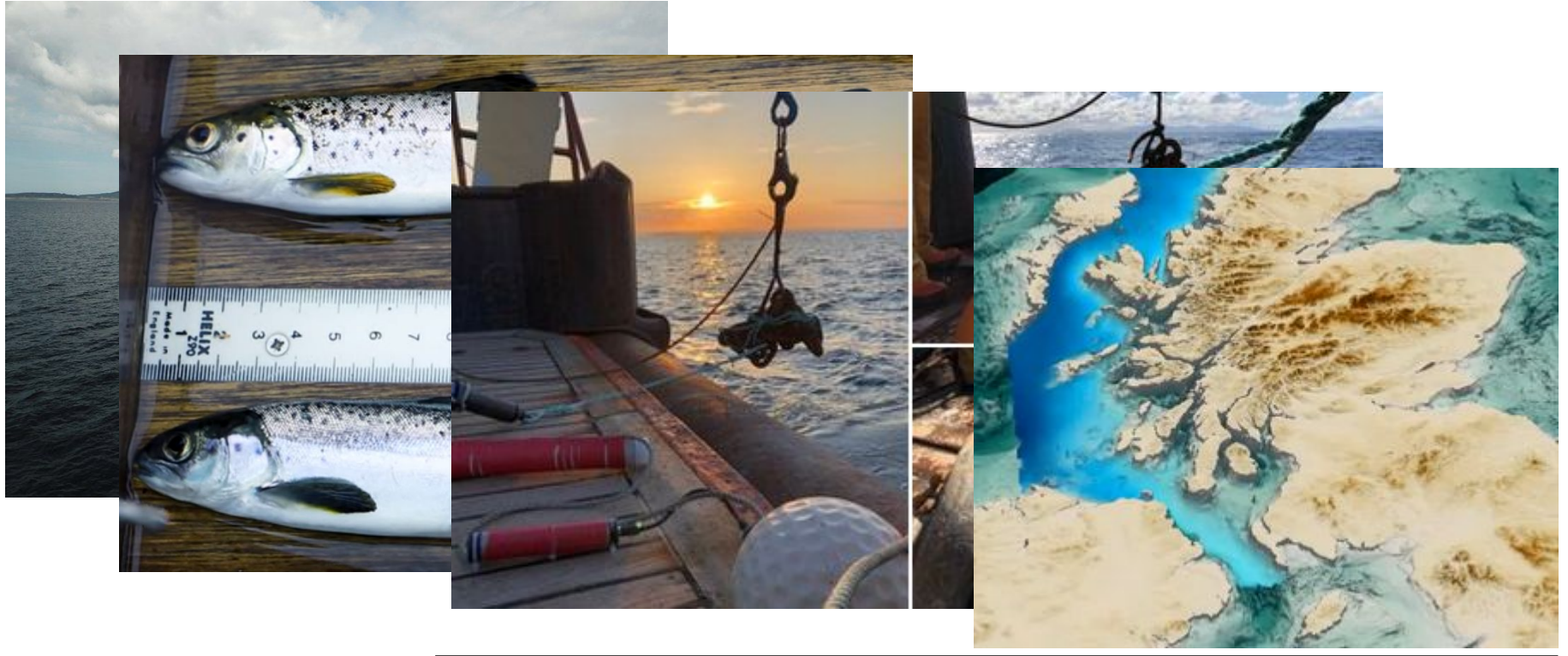
The Project



- Develop marine observation & data management capacity to coordinate the management of Marine Protected Areas across Scotland, Northern Ireland and the Republic of Ireland.

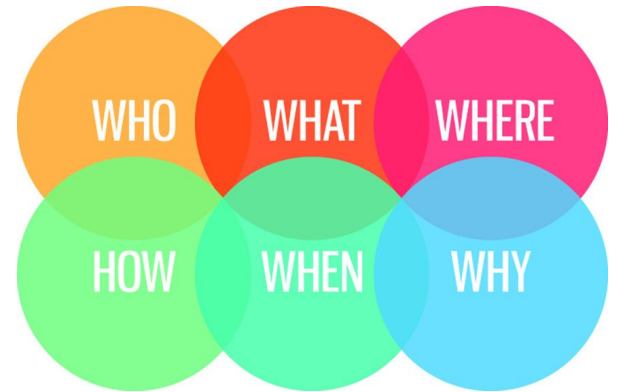


The Project



Data Management

- Started Day 1 of the project
- Tailored to each partner
- Autonomy to decide what, where, when and how much, where data were stored
- Not overly prescriptive



Data Management

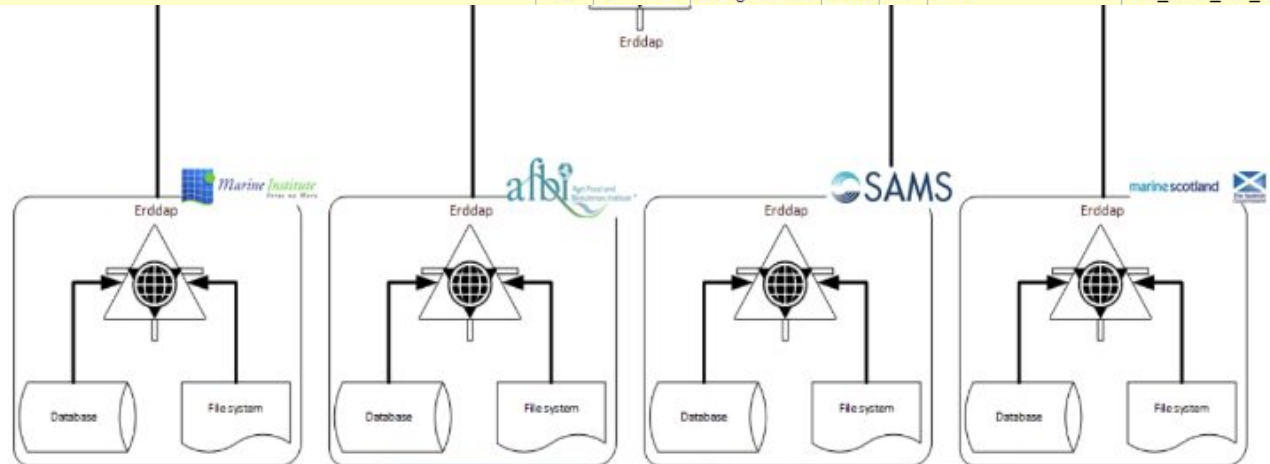
Non-Negotiable

- Shared architecture
- Shared resources
- Shared expertise



Federated Data Management

Table DAP Data	Make A Graph	W M S	Source Data Files	Title	Summary	FGDC, ISO, Metadata	Background Info	RSS	E mail	Institution	Dataset
data	graph			* The List of All Active Datasets in this ERDDAP *	?	M	background			Marine Institute ...	? allDatasets
data	graph			19 Ocean Climate survey_glider test	?	F I M	background	RSS	✉	Marine Institute	agg_glider_test
data	graph			AFBI Compass Belfast Pile 8 Mooring	?	F I M	background	RSS	✉	Agri-Food Bioscie...	? afbi_pile8_sc
data	graph			AFBI Compass Strangford Lough North Mooring	?	F I M	background	RSS	✉	Agri-Food Bioscie...	? afbi_sl03_sc
data	graph			AFBI Interreg Compass Project 38A Mooring	?	F I M	background	RSS	✉	Agri-Food Bioscie...	? compass_cefas_38a
data	graph			AFBI WAVE DWR data	?	F I M	background	RSS	✉	AFBI	afbi_wave_dwr
data	graph			AFBI WAVE DWR spectra data	?	F I M	background	RSS	✉	AFBI	afbi_wave_dwr_spectra



Takeaway

- Federated Data Architecture
- Everyone controls their own data, entirely
- Reusable for future projects, regardless of nation



Thank you

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Interreg



EUROPEAN UNION

Northern Ireland - Ireland - Scotland

European Regional Development Fund
