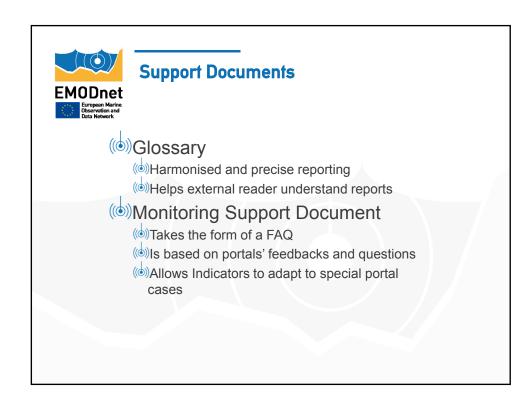
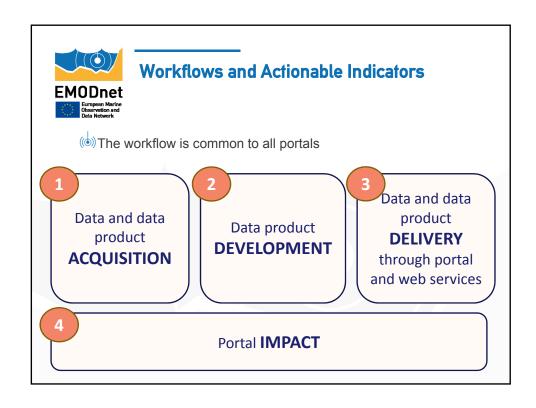




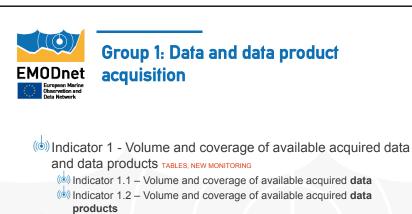
## **New Progress Indicators**

Characteristics	Description
Relevant	<ul> <li>Reflect the work of each portal</li> <li>Show the portals' health, usage and popularity</li> <li>Understandable by any reader, self-contained reporting</li> </ul>
Actionable	<ul> <li>Understandable by any reader, self-contained reporting</li> <li>Highlight the gaps and possible issues to prioritize future work</li> <li>Find what is working well to generalize good practices</li> </ul>
Precise	<ul> <li>The demanded indicators should be described in detail and leave no space to free interpretation</li> <li>Templates should be provided</li> <li>All reported numbers or facts should be dated</li> </ul>
Easy to Report	<ul> <li>Favor automatable indicators</li> <li>Compatible with every particular structure, architecture and organisation</li> </ul>
Coherent among al the portals	<ul><li>Ease global EMODnet reporting</li><li>One step towards EMODnet harmonization</li></ul>

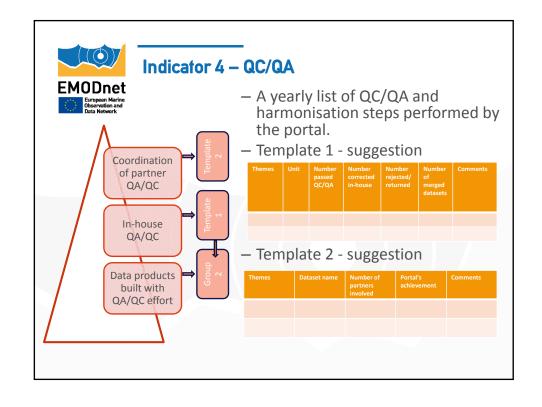








- Indicator 2 Organisations supplying data and data products FORMAT CHANGE ONLY
- (b) Indicator 3 Organisations that have been approached to supply data with no result, including type of data sought and reason why it has not been supplied FORMAT CHANGE ONLY
- (b) Indicator 4 Quality control Quality Assurance indicators by theme TABLES, NEW MONITORING





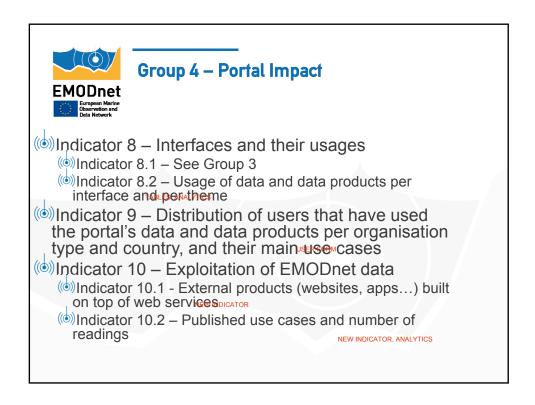
#### Group 2 - Data product development

- (6) Indicator 5 Data product developmentes, NEW MONITORING
  - (b) Indicator 5.1 Number and coverage of built data products
  - (b) Indicator 5.2 List of data product releases by the post

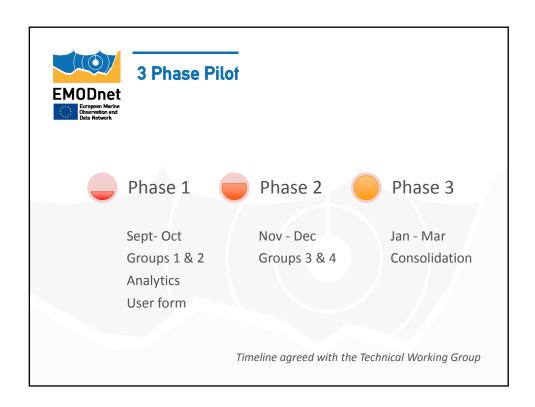


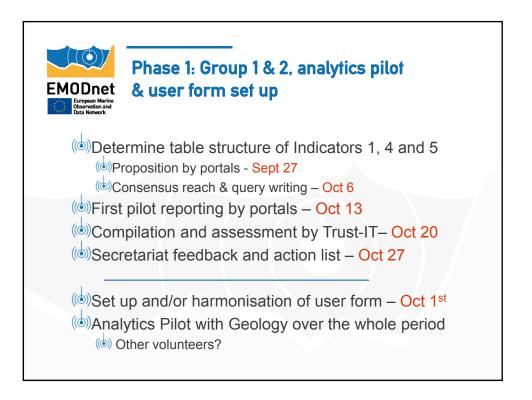
# Group 3 – Data and data product delivery through portal and web services

- (b) Indicator 6 Portal visibility
  - ( Indicator 6.1 Portal & Social Media visibility ABLES, ANALYTICS
  - ((b))Indicator 6.2 Efforts to increase visibility (newsletters, press releases, events)
- (b) Indicator 7 Technical performance of the portal, both in back-end and front-end
  - Indicator 7.1 Technical monitoring EW MONITORING, SECRETARIAT
  - (b) Indicator 7.2 Portal user-friendlines Stables, ANALYTICS
- (b) Indicator 8 Interfaces and their usage
  - (b) Indicator 8.1 Interfaces -> yearly reporting FREQUENCY
  - (b) Indicator 8.2 See Group 4

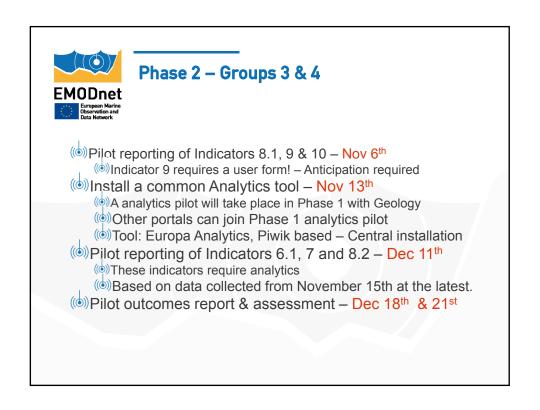


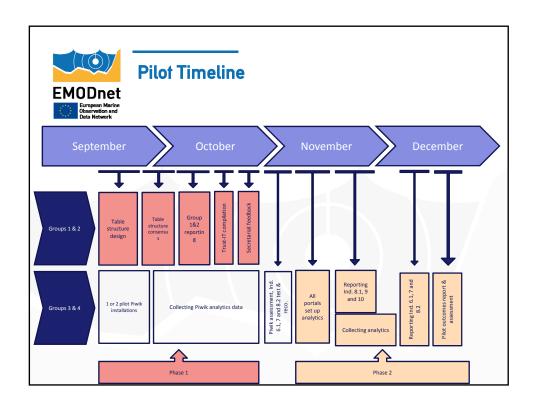


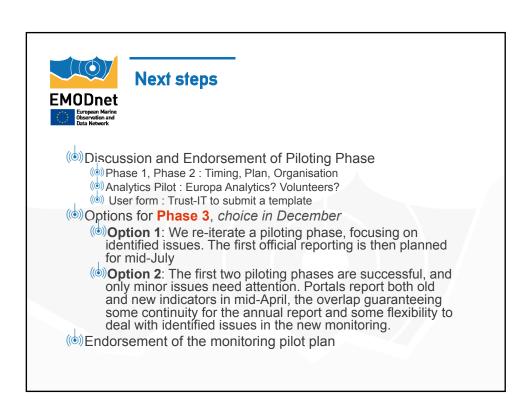


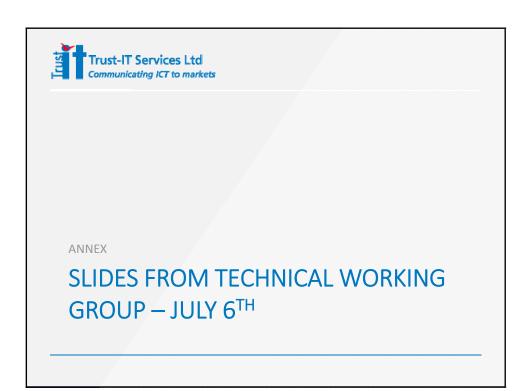


1.1. Volume of available	Date	Portal	Unit	Redundancy		Total Volume	Trend		
data	01-07- 2017	Chemistry	datasets	Yes		#CDIs	+248 (+4%)		
	Greater North Sea- Celtic Sea- Norwegia n Sea (2.3 M km2)	Baltic Sea (0.4 M km2)	Iberian Peninsula - Macaronesia - Bay of Biscay (>3 M km2)	Mediterrane an Sea (2.5 M km2)	Black Sea – Sea of Azov (0.5 M km2)	Total Volume per theme	Trend		What is a table structure?
Acidity (4)	#CDIs	<b>VCDIs</b>				Total # CDIs	+35 (+2%)		Example Indicator
Antifoulants (3)	#								1.1 Data acquisition
Chlorophyll (2)		Y.							
Dissolved gasses (3)	)	100	% /						
Fertilisers (14)	)		Sec						
Hydrocarbons (10)			6	5					Find structure
Heavy metals (7)				3/6					suggestions in the monitoring
Organic matter (8)					/x				document
Polychlorinate d biphynyls (4)					7		>		
Pesticides and biocides (3)	ı					/			













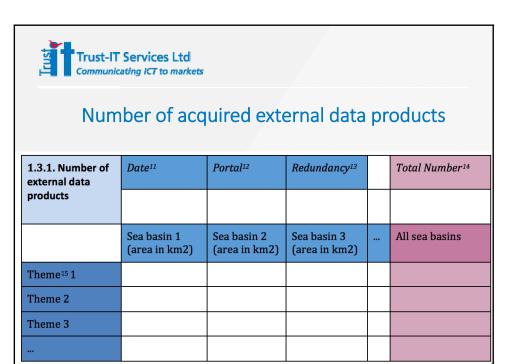
# Indicator 1: Volume and coverage of acquired data and data products available

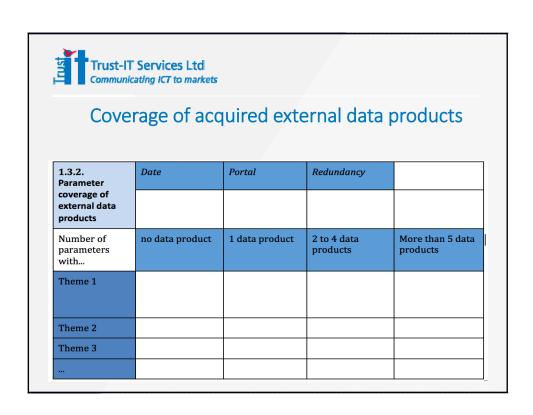
- Purpose: Measure the portal data acquisition progress ar the volume of available data
- Break-down categories: portal themes and sea basins
- Actions triggered by the indicator:
  - Focus data acquisition efforts where data is missing
  - Start a data product where good coverage is reached



### Volume and coverage of available acquired data

1.1. Volume of available data	Date	Portal	Unit	Redundancy		Total Volume	Trend
avallable data							
	Sea basin 1 (area in km2)	Sea basin 2 (area in km2)	Sea basin 3 (area in km2)	Sea basin 4 (area in km2)	1.	Total Volume per theme	Trend
Theme 1							
Theme 2							
Theme 3							







# Indicator 2 : Organisations supplying data and data products.

- Purpose: Track the organisations supplying data and data products.
- Actions triggered by the indicator:
  - Potential use cases to be explored for communication scopes
  - Clear understanding of the organisations that could potentially become data providers.



# Indicator 2 : Organisations supplying data and data products.

2.1. Organisation	Date	Portal		
s supplying each type of data				
	Туре	Country	Data or Data product or Both	% of restricted data
Organisation 1				
Organisation 2				
Organisation 3				



Indicator 3: Organisations that have been approached to supply data with r result, including type of data sought and reason why it has not been supplied

- Purpose: Track the reasons of why some organisations do not want to supply data although having been approached.
- Actions triggered by the indicator:
  - Tune the engagement strategy
  - Analyse the causes of the refuses and bring them to the attention of other portals that may incur in the same issue
- Template: Free text.



Indicator 4 - List the main quality and harmonisation steps performed by EMODnet to make acquired data available

- Purpose: Qualify the added value of EMODnet in data acquisition
- Actions triggered by the indicator: Share good practices & steer communication
- Template: In the first 2 reports: bullet-point lists. Then we will synthesize the lists into a harmonized table to be checked.



# Indicator 4 - List the main quality and harmonisation steps performed by EMODnet to make acquired data available

Step	Category

Categories: Harmonisation, Quality control. More?



Group 2

DATA PRODUCT DEVELOPMENT



Indicator 4 (2<sup>nd</sup> part) - List of the main processing steps performe by EMODnet to build and maintain data products

- Purpose: Qualify the added value of EMODnet in building and maintaining data products.
- Actions triggered by the indicator:
  - Share good practices
  - Steer communication
- After the first report, we will synthesize the lists and provide harmonized step names and categories.



Indicator 4 (2<sup>nd</sup> part) - List of the main processing steps performe by EMODnet to build and maintain data products

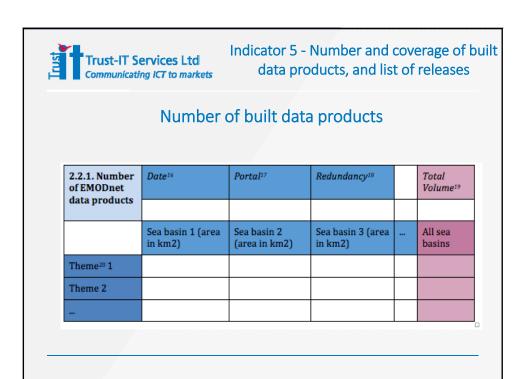
Step	Category

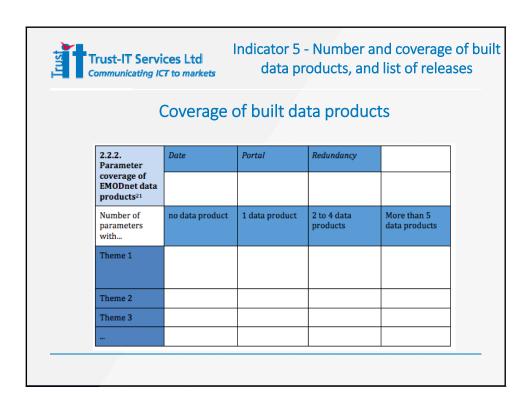
Categories : Data preparation, Data processing, Accuracy estimation, Output formatting. (?)



## Indicator 5 - Number and coverage of built data products, and lis

- Purpose: Measure the portal efforts in creating and improving data products
- Break-down categories: portal themes and sea basins
- Actions triggered by the indicator:
  - Focus effort on themes and sea basins with little data products
  - Update data products that have not been in a long time
  - Communicate about recent releases





tt-IT Services	s Ltd		ber and covers, and list of
List of d	lata product	releases b	y the porta
EMODnet data product name	Last release date (< 3 months only)	Creation or Update	Short comment
Last release per	riod	Number of EMOD	net data products
< 3 months			
3 - 12 months			
12 - 24 months			
> 24 months			
		1	



Group 3

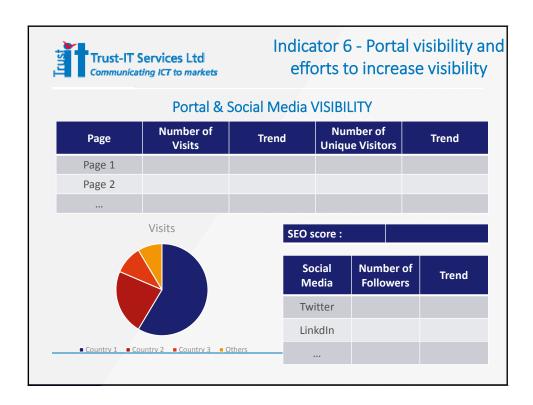
# DATA AND DATA PRODUCT DELIVERY THROUGH PORTALS AND WEB SERVICES



Indicator 6 - Portal visibility and efforts to increase visibility (newsletters, SEO, press releases, events)

Portal & Social Media visibility (visits & SEO Scoring)

- Purpose: To monitor the popularity of the websites/social media
- Actions triggered by the indicator:
  - Set up appropriate communication actions when a portal is underperforming
- This indicator includes the following metrics: Number of Visits (of main pages), unique visitors, country histograms and trend compared to previous reporting period, SEO scoring, number of followers on different social media





Indicator 6 - Portal visibility and efforts to increase visibility

Efforts to increase VISIBILITY (newsletters, press releases, events

- Purpose: Make sure that actions are put in place to increase the visibility of the portals
- Actions triggered by the indicator:
  - Revise the communication strategy when not-appropriate
- This indicator includes the following metrics: Number of events;
   Number of new contacts established at events; Number of newsletters; Number of press releases,...
- Intranet: A tool to report events will be set up



## Indicator 6 - Portal visibility and efforts to increase visibility

#### Efforts to increase VISIBILITY

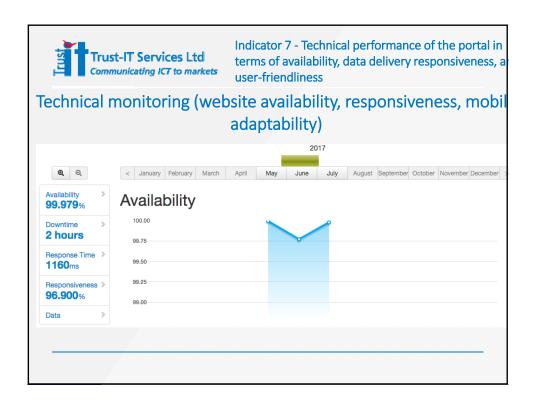
	Quantity	Comments
Number of events		
Number of contacts		
Number of press releases		
Number of tweets		
Number of newsletters		

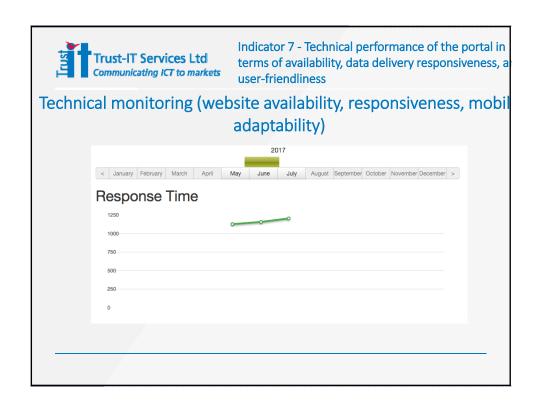


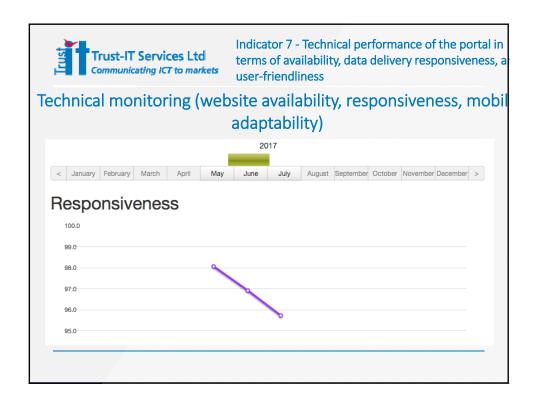
Indicator 7 - Technical performance of the portal in terms of availability, data delivery responsiveness, a user-friendliness

Technical monitoring (website availability, responsiveness, mobile adaptability): centralised and automatic monitoring

- Purpose: Weekly monitor the technical performances of the portals
- Actions triggered by the indicator:
  - Improve **back-end** to ensure a proper user experience
- This indicator is split into three categories:
  - Website availability: Usually calculated in percentage polling the website home page every minute, if there is no reply or an error message it's calculated as a downtime. Usually anything over 99.5% in a month should be acceptable.
  - Response time: The time to download the whole homepage. This measuremen is affected by network connection speed.
  - Responsiveness: Polling the website, if the homepage is slower than 1500ms (this value can be changed) the website is flagged as slow. Usually displayed as the percentage of the "not slow" requests





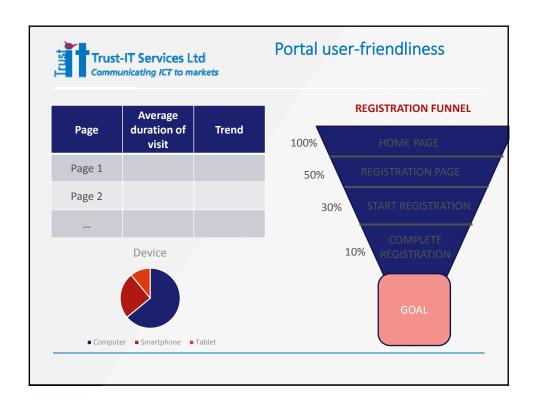




Indicator 7 - Technical performance of the portal in terms of availability, data delivery responsiveness, a user-friendliness

Portal user-friendliness (visit durations, analytics goal and funnel analysis, visual harmonisation score)

- Purpose: To monitor the usability of the websites and identify bottlenecks
- Actions triggered by the indicator:
  - Set up appropriate front-end actions to improve user-friendliness when portal is underperforming
- This indicator includes the following metrics to assess the user experience:
  - Average visit duration of the main pages (home page, data download page, map viewer);
  - Goal and funnel analysis of main portal features (it depends on the portal): do visite
    easily find their way in the portal? Which steps prevent visitors from reaching goals
    (data download, map views)?;
  - Device histograms: assess if portals should work on mobile rendering;
  - Visual harmonization score (to be defined)





Indicator 8 - Interfaces to access or view data (one table for data one table for data products)

- Purpose: To map the existing interfaces to access or view data
- Actions triggered by the indicator:
  - Future harmonization of the portals
  - Interface gap analysis: plan future interfaces.
- Feature list to check: Possibility to superpose data, external data products and EMODnet data products in the map viewer; Possibility to download data from map viewer, possibility to read metadata of data from map viewer; ...



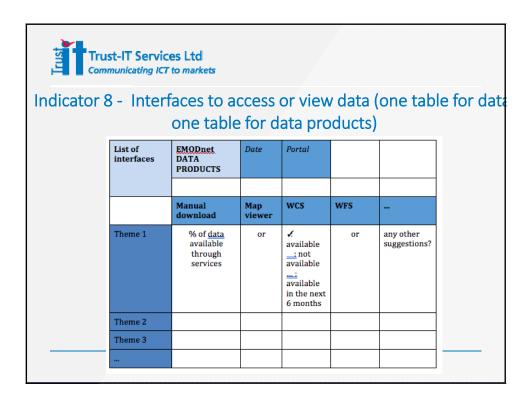
## Indicator 8 - Interfaces to access or view data (one table for data one table for data products)

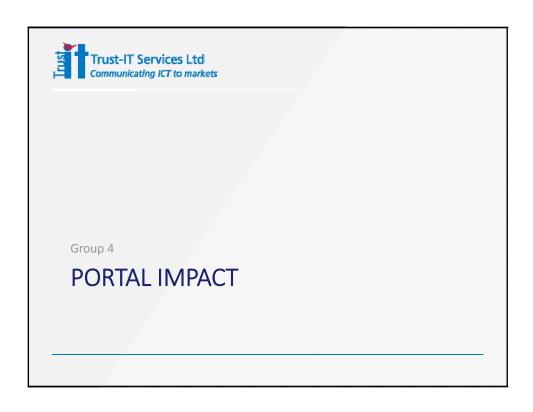
List of interfaces	DATA	Date	Portal		
interfaces					
	Manual download	Map viewer	wcs	WFS	
Theme 1	% of <u>data</u> available through services	or	✓ availablei not availablei available in the next 6 months	or	any other suggestions?
Theme 2					
Theme 3				·	·



# Indicator 8 - Interfaces to access or view data (one table for data one table for data products)

List of interfaces	External DATA PRODUCTS	Date	Portal		
interfaces	PRODUCIS				
	Manual download	Map viewer	wcs	WFS	
Theme 1	% of data <u>products</u> available through services	or	✓ availablei not availablei available in the next 6 months	or	any other suggestions?
Theme 2					
Theme 3					







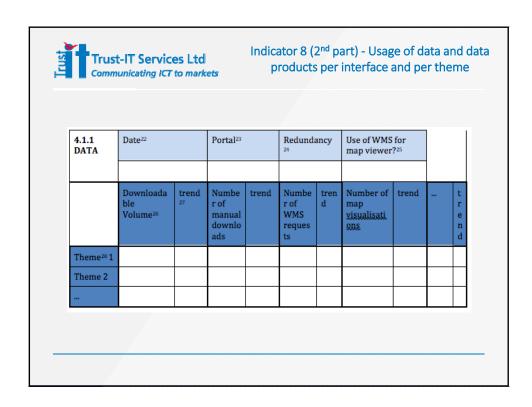
Indicator 8 (2<sup>nd</sup> part) - Usage of data and data products per INTERFACE (downloads, views, web-services) and per theme (together with volume of downloadable units per theme to assess relative data popularity)

- Purpose: Measure data and data product popularity
- Actions triggered by the indicator:
  - Unpopular data: understand the situation (poor coverage, fragmented data, poor user interface, lack of communication) and prioritize actions to make it more popular.
  - Popular data:
    - · Consider building a data product
    - Look for related use cases



Indicator 8 (2<sup>nd</sup> part) - Usage of data and data products per interface and per theme

- Break-down categories:
  - Portal themes and interfaces (Manual downloading, web services, etc.)
  - Tiles and interfaces for bathymetry (holds only 1 theme)
  - If for some interface, the breakdown is not possible, merge column cells.
- Tables: depending on the portal, one or more tables are reported for this indicator:
  - One table for Data
  - One table for External data products
  - One table for EMODnet data products
  - And/or combinations of the above when the distinct downloads cannot be measured separately; e.g. if data products and data are both present in the ma viewer, mixed map views are counted.
  - If usage data is not available for 1 category (data, external & EMODnet data products) or for 1 interface, report a table or a column with question marks (?) highlight the existence of untracked usage.



4.1.2 EMODnet DATA PRODUCT	Date		Portal		Redundancy		Use of WMS for map viewer?		
	Number of EMODRET Data Products	trend	Number of manual download s	trend	Numbe r of WMS reques ts	tren d	Number of map visualisations.	t r e n d	
Theme 1									7
Theme 2									7
									7
All									7



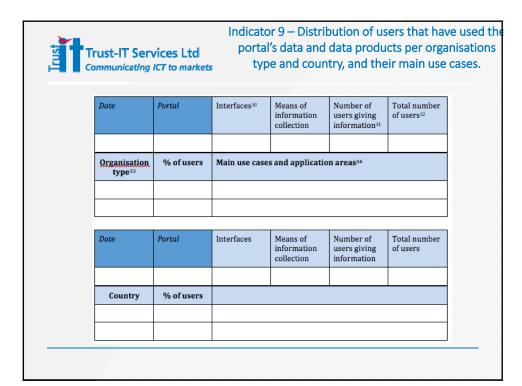
Indicator 9 – Distribution of users that have used the portal's data and data products per organisations type and country, and their main use cases.

- Purpose: Know who the portal users are (on the last year)
- Actions triggered by the indicator:
  - Reach communities not using the portal enough
  - Reach engaged user communities to get feedback, improve the service for them, and write new use cases.
  - Adapt the portal vocabulary and technicity to the users.
  - Build data products relevant to specific user communities.
- Template:
  - If the portals gets several sources of user information, it is possible to reposeveral times the template table, once per information source. Similarly, some groups of interfaces can be reported in separate tables.



Indicator 9 – Distribution of users that have used the portal's data and data products per organisations type and country, and their main use cases.

- User form before download
  - Organisation type (required field)
  - Country (optional or compulsory field)
  - Email (optional field). This will be used to engage with users who are interested in the portal's updates.
  - Use Case (optional & free text field).
- Considering the use of EUlogin
  - Give information less often
  - Service personalisation possibilities





Indicator 10 - Applications: list of external products (websites, apps,...) built on top of web-services, list of published use cases and number of readings.

External products (websites, apps,...) built on top of web-service

- Purpose: lists the external products and services that have been built using the portal's web services.
  - Exhaustive lists are not required. Prioritize the most important and also the new ones.
- Actions triggered by the indicator:
  - Improve the engagement strategy & increase awareness about use cases



Indicator 10 - Applications: list of external products (websites, apps,...) built on top of web-services, list of published use cases and number of readings.

#### External products (websites, apps,...) built on top of web-services

Organisations who built on top of EMODnet web-	Date	Portal		
services				
	Туре	Country	Web-service type	Link to product or short description of usage
Organisation 1				
Organisation 2				
Organisation 3				



Indicator 10 - Applications: list of external products (websites, apps,...) built on top of web-services, list of published use cases and number of readings.

## Published use cases and number of readings

- Purpose: List use cases that are published in the portal and assess the interest they raise.
- Actions triggered by the indicator:
  - Trigger dissemination of the use cases
  - Improve the presentation of use cases
- Central Portal will also report this indicator, and results will be merged.



Indicator 10 - Applications: list of external products (websites, apps,...) built on top of web-services, list of published use cases and number of readings.

### Published use cases and number of readings

Date	Portal		
Use case title	Release date	Number of views in reporting period	Appears in Central Portal
			1



Bonus Indicator - List of known publications using EMODnet da or products.

- Purpose: List publications (scientific papers, general press, etc.) based on the portal's data or data products, that have been published in the reporting period.
- This indicator will be measured by Secretariat, but portals are welcome to support Secretariat by indicating publications they happen to know about.
- Actions triggered by the indicator:
  - Trigger dissemination of the scientific publications



## Bonus Indicator - List of known publications using EMODnet da or products.

Date	Portal			
Date of publication	Journal, conference	Title	Authors	Organisation



## **Next steps**

- Collect feedback from portals 6 July 2017
- Write the new monitoring procedure document end of July (final version of D2.2)
- Try a pilot reporting
- New monitoring procedure official endorsement by the Steering Committee (September 2017)
- New monitoring procedure in place (from September on)
- New monitoring refinement (from September to Dec 2017)
- Final deliverable D2.3 December 2017