Plenary – Brest – September, 2015

**PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT**

Results from the SeaDataNet2 / EMODnet Chemistry2 Joint Survey

A. Giorgetti, M. Vinci ; OGS Trieste Italy

User Panel

6 inside SDN (Regional Coordinators)

7 from the scientific community outside SDN
- Maria Louisa Silva, Tatjana Hema, Gyorgyi Gurban UNEP/MAP-MED POL;
- M. Pyhala, Joni Kaitaranta, Helsinki Commission.
- E. Corcoran, OSPAR (NE Atlantic); V. Myroshnychenko, IMS METU (Black Sea);
- R. Fryer, Marine lab Scotland; M. Barbier, CIESM.

2 From Policy Makers
- T. Christiansen, EEA; I. Shepherd, DG-MARE.

2 From industry or private company
- A. Primiero, Civil Protection; M. Fermi, ENI.

1 From education
- M. Ribera d'Alcala, Zoological Station Anton Dohrn**.**

2 From operational oceanography
- Stein Sandven NERSC ARTIC; Henning Wehde IMR North Sea.

2 Data manager outside Europe
- Z. Willis NOAA, USA; Scott Bainbridge, AIMS, Australia.

User Panel

5 EMODnet Chemistry Regional Leaders

Additional Stakeholders
- Jørgen Jensen (ICES), Theo Prins (DELTARES), Norm Green (NIVA), Constanca Belchior (EEA), Chris Moulton (OSPAR).

Representative from Regional seas projects:
- Johanna Karhu (BALSAM), Lisette Enserink (JMP-NS-CS), Louisa Giannoudi/Kalliopi Pagou (IRIS-SES)

Plus SDN2/EMODnet Chemistry top 25 users

Additional stakeholders suggested by ISPRA and invited during the survey (December 2014)
- Emiliana Valentini, ISPRA
- Federico Filipponi, ISPRA

→ *total 66 persons*

User Survey

•**The SeaDataNet2/EMODnet Chemistry 2 Joint Survey** was made of **7 topics and 33 questions** that have been circulated using the **Google form** service.

The online survey was **sent the 22/10/2014** and was **open until end of November 2014**. The **Steering Committees** decided to **keep the survey open until the 20/01/2015**. **Two reminders** were circulated the **17/12/2014** and the **12/01/2015** to the whole group of invited persons.

•**Basic principles** for this new survey are:
   •Questionnaire build with **one page for each topic** to let the invited people to focus only on their topics of interest;
   •**Not necessary to fill all the questions** to complete the survey, people must be able give feedback only in the topics that they know better;
   •Questions with **multiple choice** and questions with **free text**.

User Survey results

Please if you want let us know who you are and/or your affiliation.

1.   ISPRA - Instituite for Environmental Protection and Research (Italy)
2.   Data manager WaLTER project (NIOZ/IMARES)
3.   Helge Sagen (IMR)
4.   Athanasia (Sissy) Iona, HCMR/HNODC
5.   Martin M. Larsen, AU BIOS, Emodnet 2 MFS
6.   Alexey Khaliulin
7.   Irene del Barrio. WISE-marine project manager. EEA
8.   ISPRA
9.   Joni Kaitaranta HELCOM Secretariat
10.   Helge Sagen, (partner Emodnet Chem)
11.   Julie Gatti, member of the french NODC : Ifremer/Sismer
12.   Volodymyr Myroshnychenko, IMS METU
13.   I am Georgij Konshin, researcher of University of Latvia, Faculty of geographic, participating in Geo-Sea project
14.   Branko Cermelj National Institute of Biology, Marine Biology Station Slovenia
15.   Aris Karageorgis Hellenic Centre for Marine Research, Greece
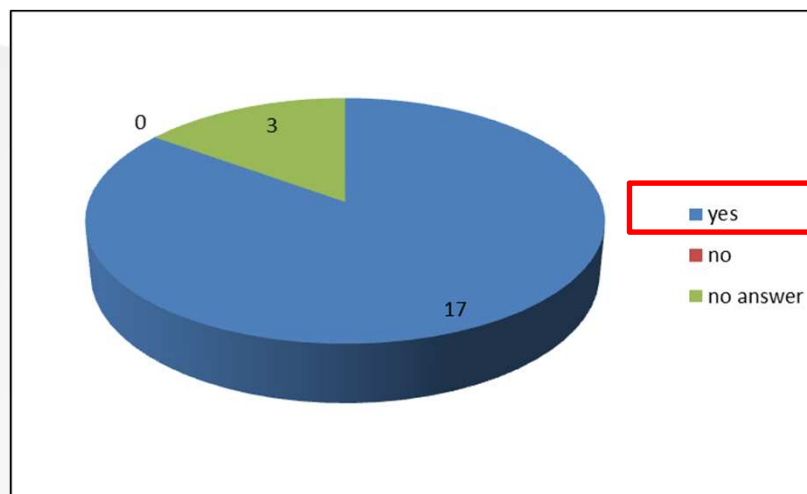16.   Else Juul Green Data Manager at ICES

SeaDataNet

Registration

Is the registration **quick**?

Is the registration **easy** enough to use?
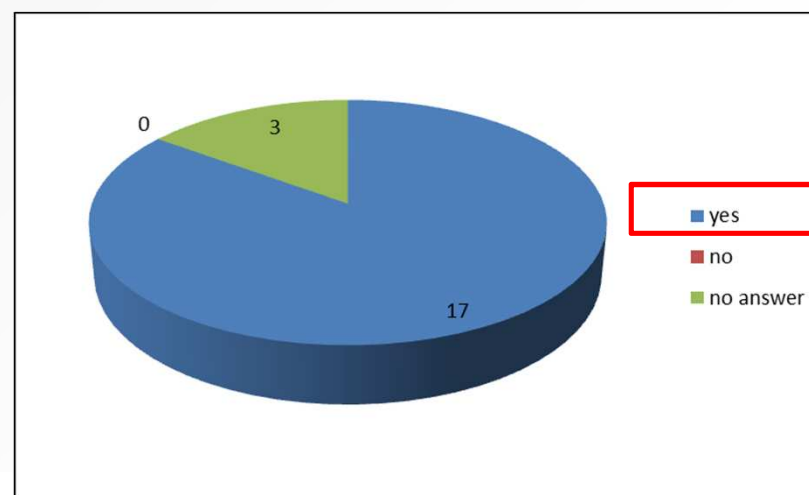
Registration

Please let us know your comments/suggestions

- As responsible for assigning a SDN role, I have a comment: Some of the **users** interesting in registering to system, mainly students from Universities, **do not fill-in all the non-mandatory information** (such as address, telephone, etc). As I cannot check the validity of their inputs, I chose as role=public, instead of academic ← difficult to assign role

SeaDataNet

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Data Discovery

Which Data Access **Interface** do you use?

- Extended Search
- Quick Search
- no answer
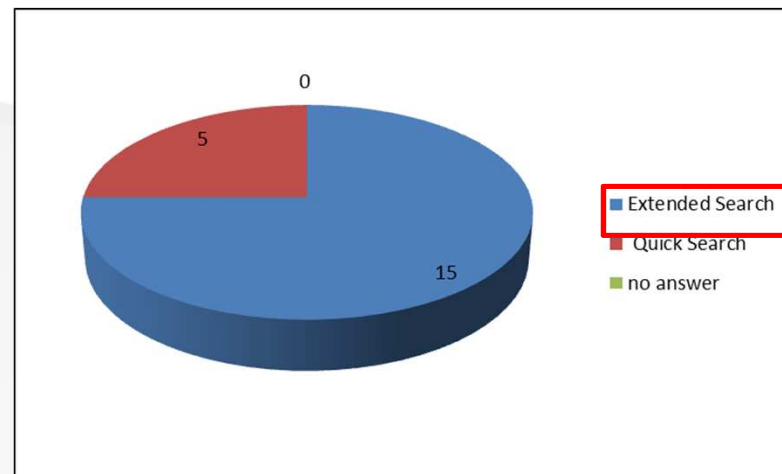
Were you **able to locate data** that met your criteria with the Data Access Interface?

- yes
- no
- no answer

Data Discovery

Are the **metadata sufficient** to give you a clear idea of what data are available and its content?
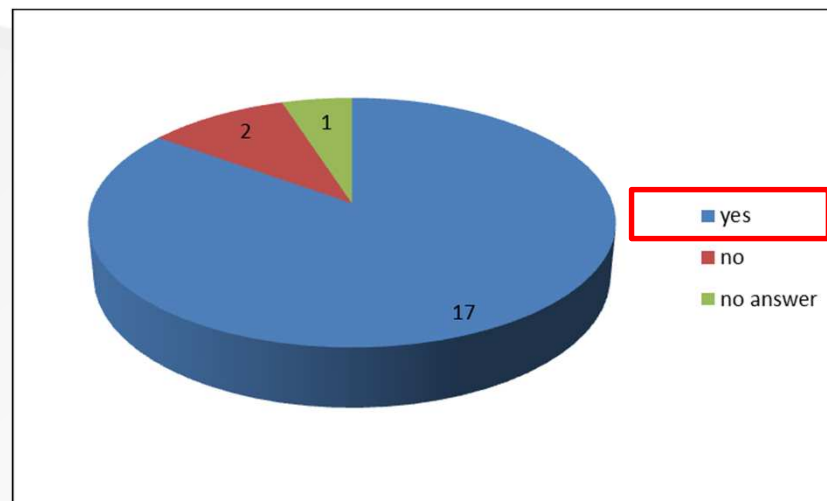
Data Discovery

Please let us know your comments/suggestions

- It was **not evident that the choosing a specific component/target substance had any influence on the metadata presented**, even after setting a specific institute, all data providers was presented
  ← more evidence to **Summary**

- **Improve** the content **in term of processing** and/or data origin

- Metadata **amount is very good**,

- Number **of parameters is very long list; the user needs to scroll down extensively because the window is small**. It would be **more user friendly if it could be extendable in some way. Same applies to sea regions.**

- I use both the quick and the extended search. An option to "**choose all**" - and request gathered in one basket **would be preferable**. Search on the actual data, not on the meta data as meta data often are insufficient/unclear

- To locate data we want to download, the **Lat/Lon section should maybe be in the research section also and not (or not only) in the map section**. As it is outside the search section, it is **not easy to understand** that it is not only a tool for the **visualization but also** a tool **for searching data** (that you want to download) by a geographical bounding box.
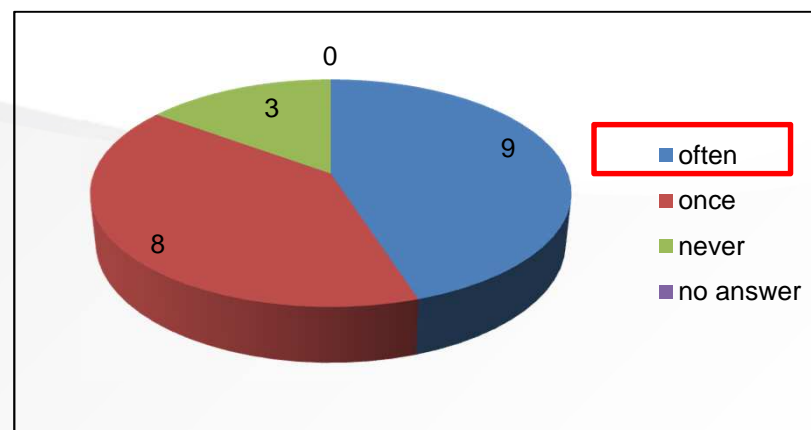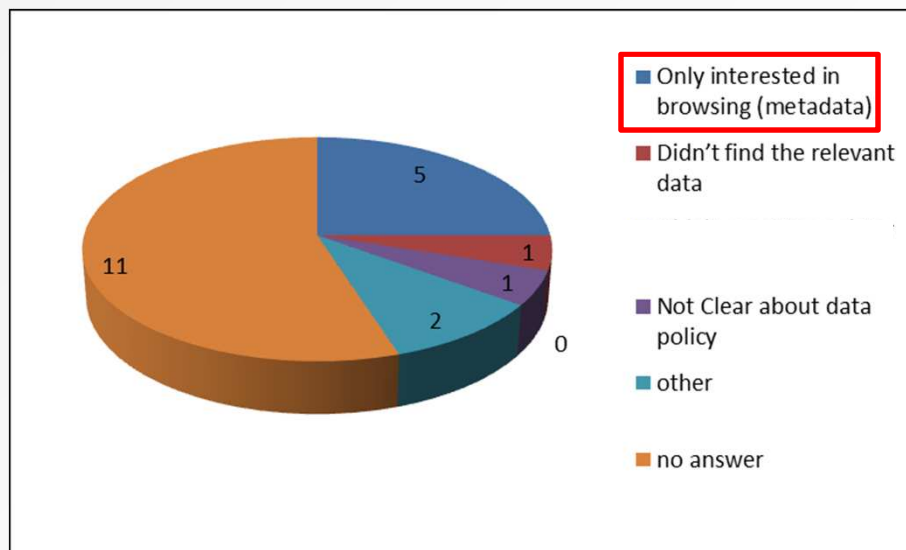
- **Speed up search engine**

Data Download

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Have you **downloaded** data from SDN/EMODnet?

If you answered never/once to the above question, what is the main **reason you have not** downloaded data?
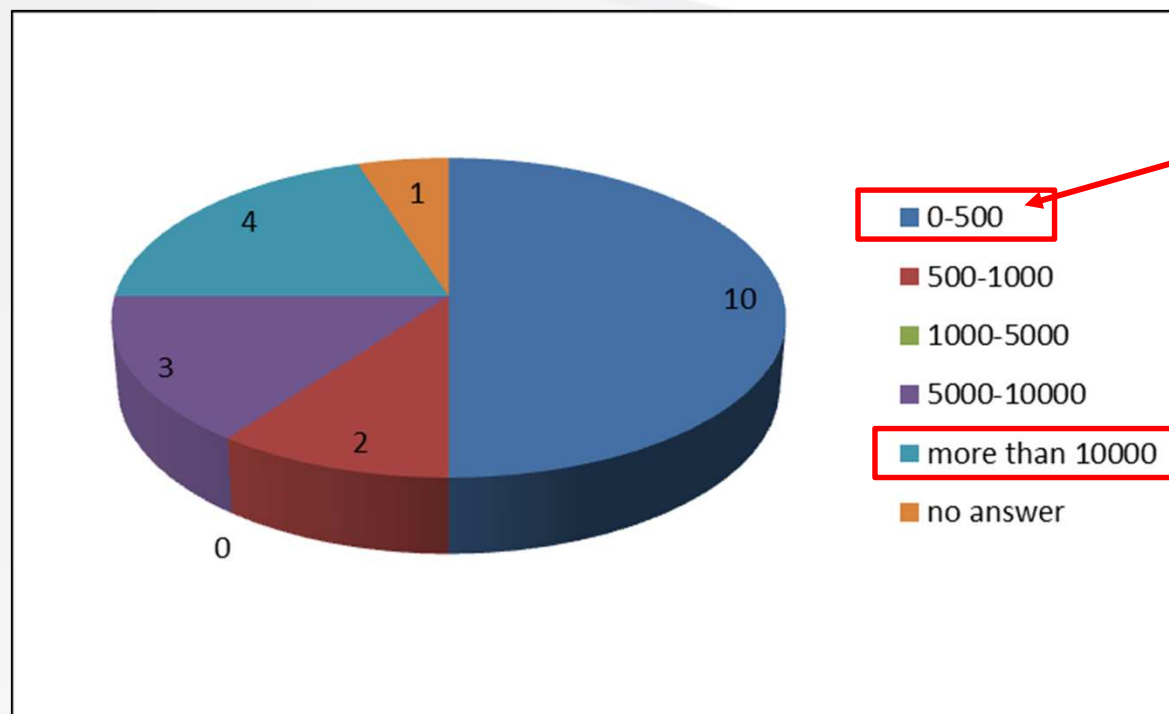(once 8+ 3 never→11)

Data Download

How many data files (CDI/stations) are you usually requesting?

Data Download

Were you able to easily select and download data?

- Ideally **the service should return one file per query**, irrespective of the amount of CDIs.

- **YES**

- We did get a couple of extracts … but it was **easy** for me...

- **Yes**, very **easily**

- **I would appreciate very much if it was possible to download more than 10000 data files at a time**. Downloading the data in packages of max. 10000 files makes the download very time consuming. **So, no, I was not able to easily download data**.

- **No. It would be a huge improvement to able to "choose all".** I get loads of **duplicate stations**, the meta data are poor. The **fact that platform code is not included and CSR are incomplete** causes TONS of work.
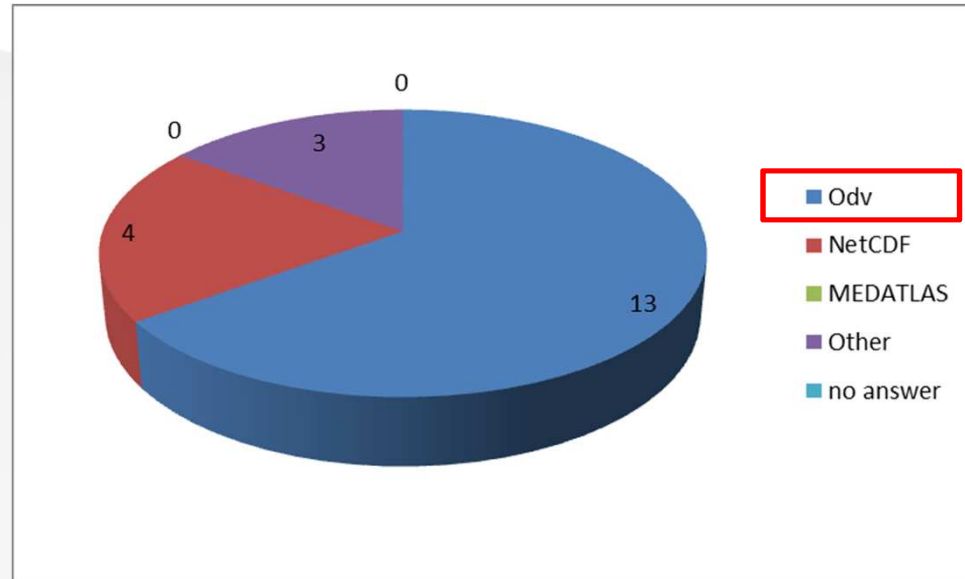
Post-processing

Which **data format** is the
most useful for your purpose?

If in the previous question you chose other format please specify which. (3 other format)
- ODV is ok, if **ship code and cruise number** is **well maintained** and have a common definition that is comparable between datasets.

- So far, I have only used ODV data, because I did not know, before the download, that data is also available in NetCDF format. Next time I download data I will make sure that it is NetCDF.
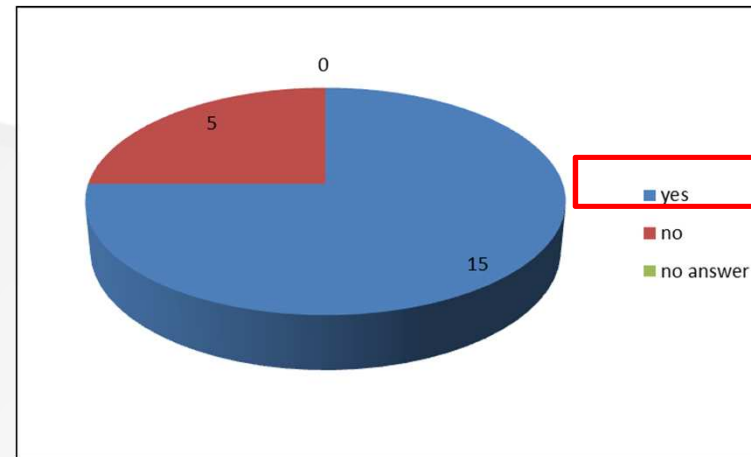
- Not familiar with any of the others.

Post-processing

Are you **using/aware of ODV software** to handle the downloaded data?

Which tools are you using to handle the downloaded data?
- In house/ODV
- ODV, EXCELL
- Mainly ODV and Matlab. Also excel and other in-house tools for the processing of metadata
- ODV, DIVA
- ODV for ODV files. I would use Matlab when I could download them in NetCDF files.
- MATLAB
- text editor, spreadsheet
- Spreadsheet, text editors
- After ODV ICES own programmes
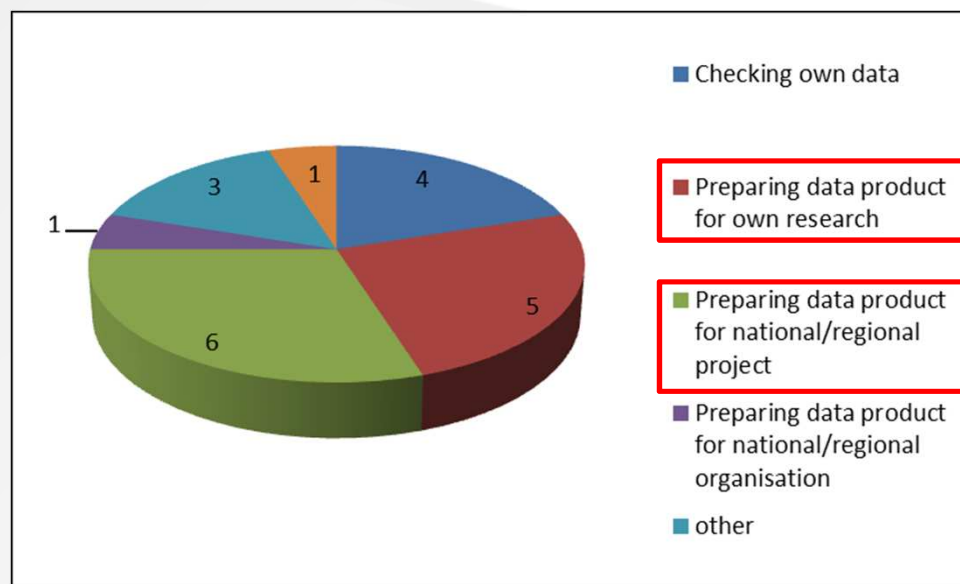- Traditional tabular data tools e.g. excel.

Post-processing

What are you usually doing with the downloaded data?
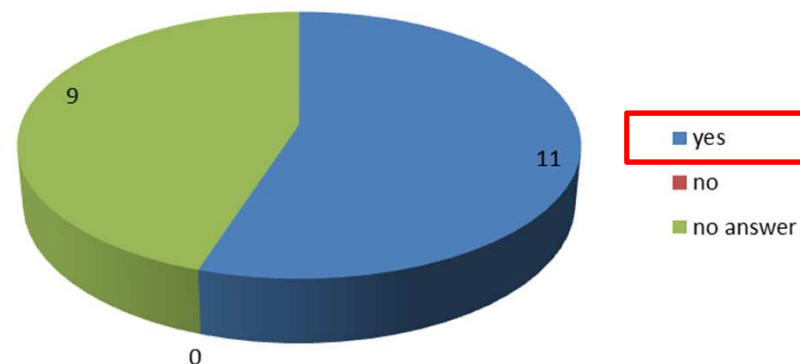
Product Discovery Service

Are you using the Product Discovery Service (based on Sextant catalogue)?

Is the product catalogue interface **quick**?

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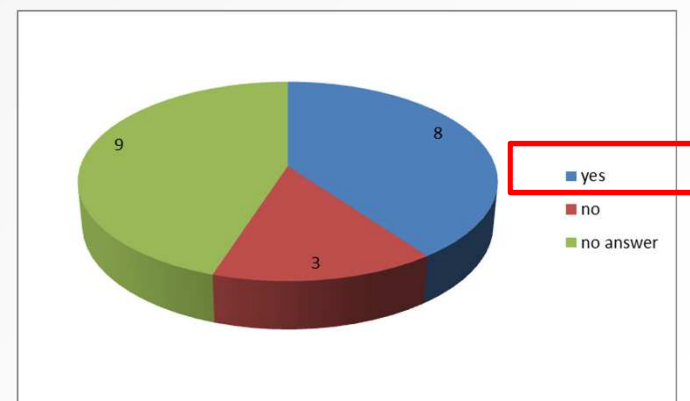
Product Discovery Service

Is the product catalogue interface
easy enough to use?
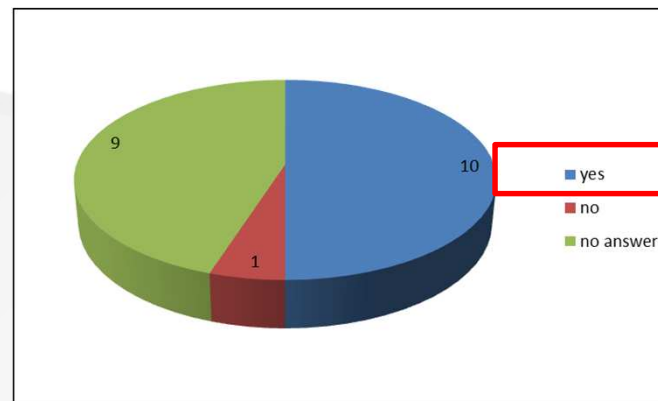
Are you **able to find** products of your
 interest?

Please let us know your comments/suggestions (free text)
- I did not use the product discovery service because **I was not looking for products but only for data.**
- I am interested in the **Adriatic region, but could not find other than Nitrate**
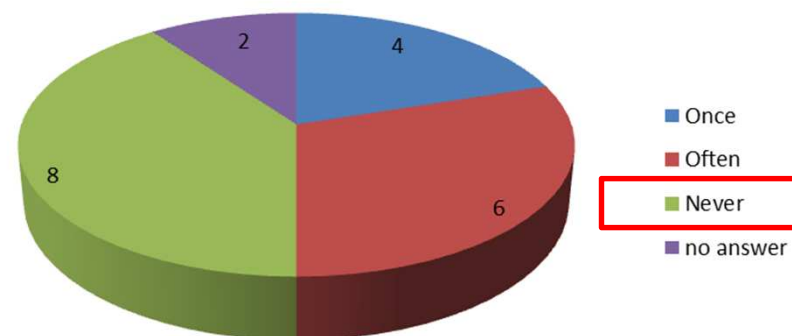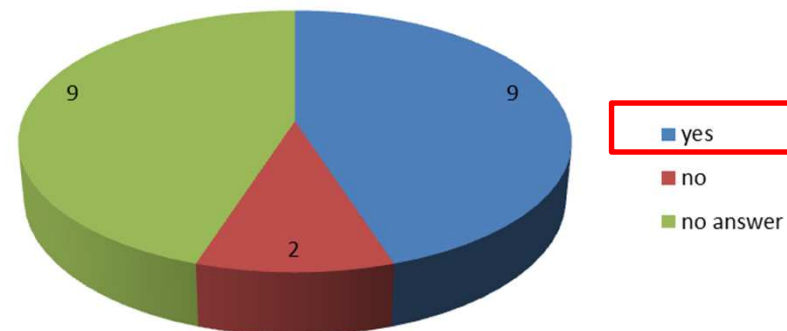
SeaDataNet

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Product Download

Are you using the Product viewing
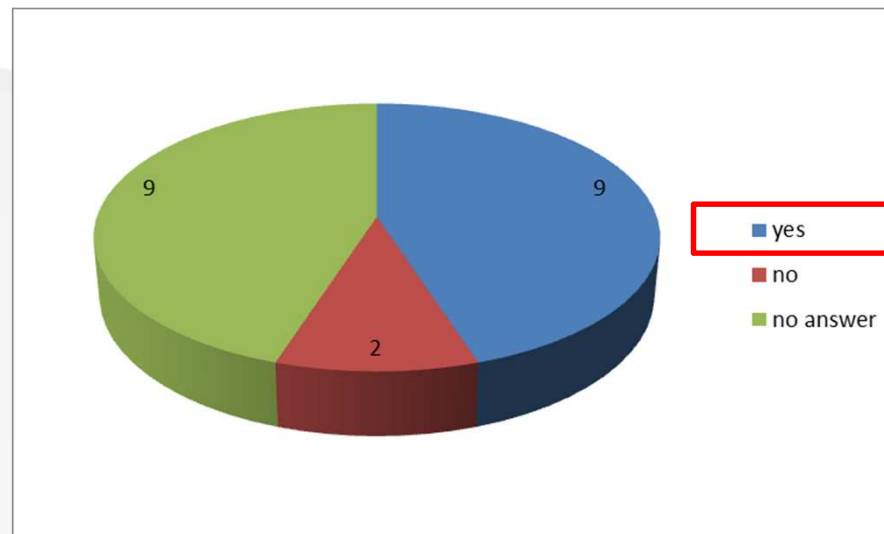service (based on Ocean Browser)?

Is the viewing service interface **quick**?

Product Download

Is the viewing service interface **easy** enough to use?

Please let us know your comments/suggestions

- I did not use the product viewing service **because I was not looking for products but only for data.**

- Confusing, **no labels** → more labels added

- I find it **very good**, **also the functionalities at the vertical section e.g. distance from coast**

- Perhaps viewing service interface is not quick enough because of **rather slow Internet at my location**.

Data use/restrictions policy and citation

Have you ever used the SDN/EMODnet data for your work?

- www.nodc.org.ua
- **Yes**, I have used SDN data for the EMODNET chemistry II project
- It is **easier** to download data from SDN CDI than from certain databases.
- Making **climatologies**
- **Yes**. Beyond the fact that I use SDN/EMODnet data for the regional products preparation for the Mediterranean Sea within EMODnet Chemistry project, I also extract T, S data from the system for my PhD thesis.
- Implementation of suitability and feasibility analysis for aquaculture, remote sensing data and product validation
- **Always** - ICES oceanographic data base
- We have been mainly searching what Baltic datasets there are included but have been getting the assessment dataset from ICES
- I am in the process of using it for the first time. We are aiming at creating a quality controlled data set of biogeochemical parameters to the North Sea region
- **Yes** as IMS METU is a partner in SeaDataNet project dealing with Black Sea T-S data.
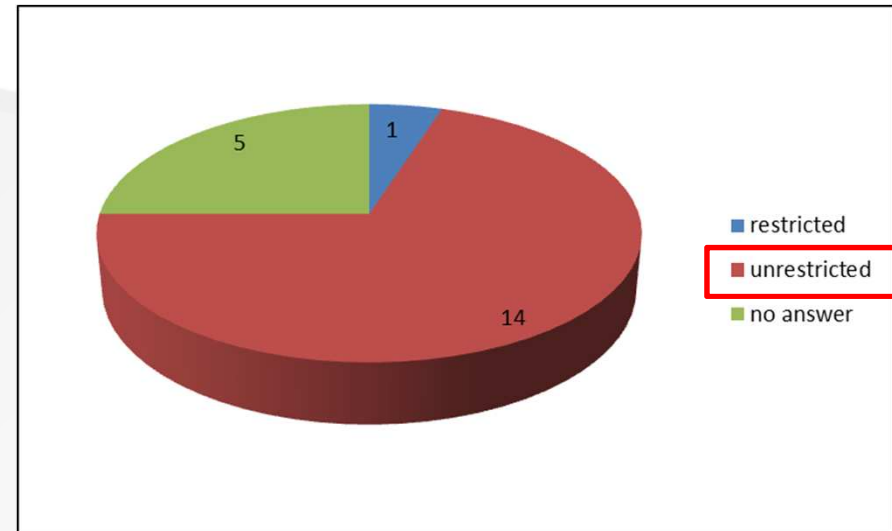
Data use/restrictions policy and citation

Are the data requested mainly **restricted or unrestricted** in your experience?

What is the average **negotiation time** for restricted data in your experience?

- **Not a long time for the negotiation**, but **often restricted data are not supplied by distributor**
- Do not know
- **Not long**
- I do not know.... Only few tens of data were unrestricted among the few thousands of data I have requested. So I did not wait for the unrestricted data and I did not check if they were finally available or not.
- I have not tried to negotiate.
- **One week to one month**
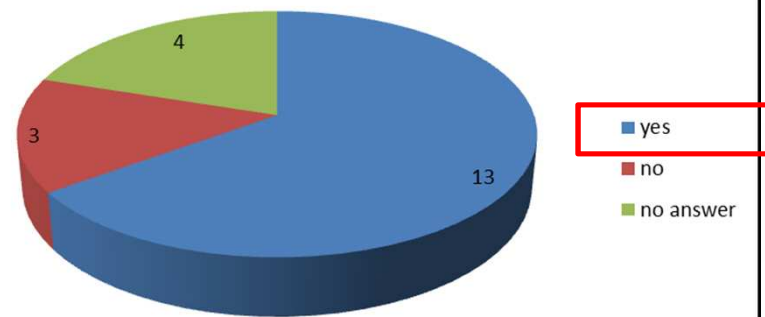- We have a general agreement, so no negotiation in the data products
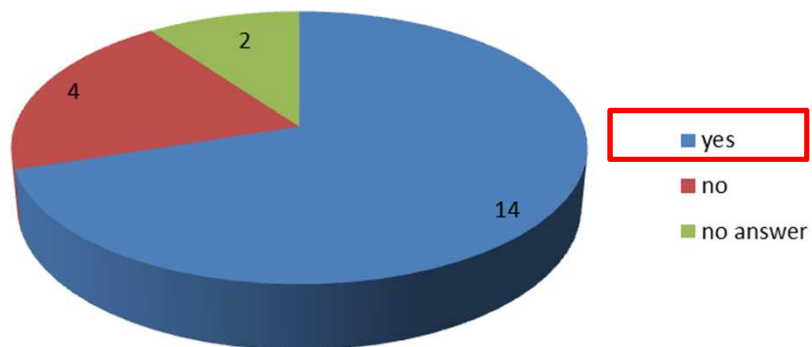
Data use/restrictions policy and citation

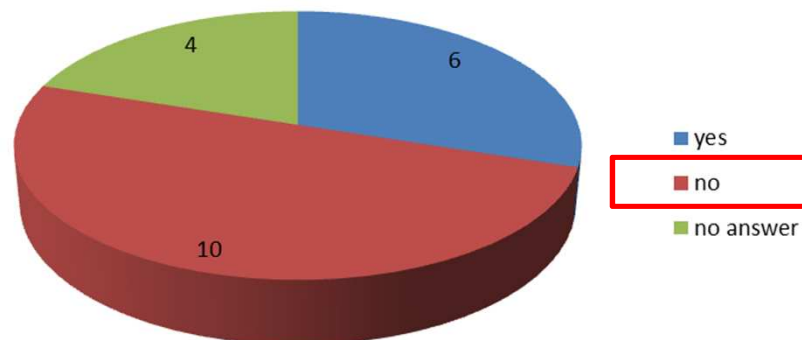Are you usually **citing data originators**?

Is the information provided by SDN/EMODnet
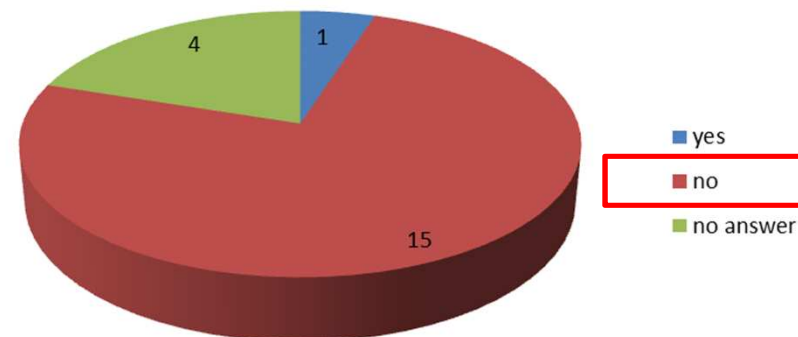system **adequate for data citation**?

Data use/restrictions policy and citation

Are you commonly **using/referring to permanent digital identifiers (like DOIs)** for data citation?

Are you commonly using permanent identifiers (like ORCID, FOAF...) **for scientist**?

Data use/restrictions policy and citation

Please let us know your comments/suggestions

- Until very recently, there was **not available a reference for the data extracted and used from SeaDataNet**. **This has been arranged now by a SDN usage agreement** that will used in the Acknowledgements of the publications.

Conclusions

- We get **20 responses** from 66 people invited (30%)

- 85% said that **registration** is quick and easy to use

- **Discovery**: 85% were able to find the searched data, 85% found metadata sufficient to describe the data available. Comments referred very long lists in **small selection window** and to move **Lat/Lon selection** in the search section.

- **Download**: 45% are **often** downloading data, 40% downloaded once and 15% never. 50% are requesting 0 to 500 CDIs, 20% more than 10.000. 1 request for **"choose all"** option.

- **Post Processing**: 65% consider **ODV format** as the most useful and 20% NetCDF format. 75% are using **ODV software to handle the downloaded data**.

- **65% never used the product discovery service**; considered it quick and easy to use.

- **40% never used the product viewing service**; considered it quick and easy to use. Comments highlighted that the labelling was insufficient and this was improved.

- **70%** replied that data of their interest are mainly **unrestricted**. Negotiation not too long.

- **65%** are **citing** the originators and **70%** considered the information adequate for citation.

- Only 30% are using **permanent digital identifiers** for data citation and 75 % are **not using permanent identifiers for scientists.**