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SeaDataCloud second user workshop

WP4 – Deliverable 4.17

HORIZON *2020*

sdn-userdesk@seadatanet.org – www.seadatanet.org

SeaDataCloud - Further developing the pan-European infrastructure for marine and ocean data management

Grant Agreement Number: 730960

Deliverable number	Short title
D4.17	2nd SeaDataCloud User Workshop

Long title
SeaDataCloud second user workshop

Short description
This deliverable describes the Second SeaDataCloud User Workshop held online on 17th September 2020. More information about the organization phase are provided in D4.16

Author	Working group
E. Partescano, M. Vinci, E. Geletti and A. Giorgetti	WP4

Dissemination	Copyright terms
Public	

History

Version	Authors	Date	Comments
1.0	E. Partescano	24/09/2020	Creation
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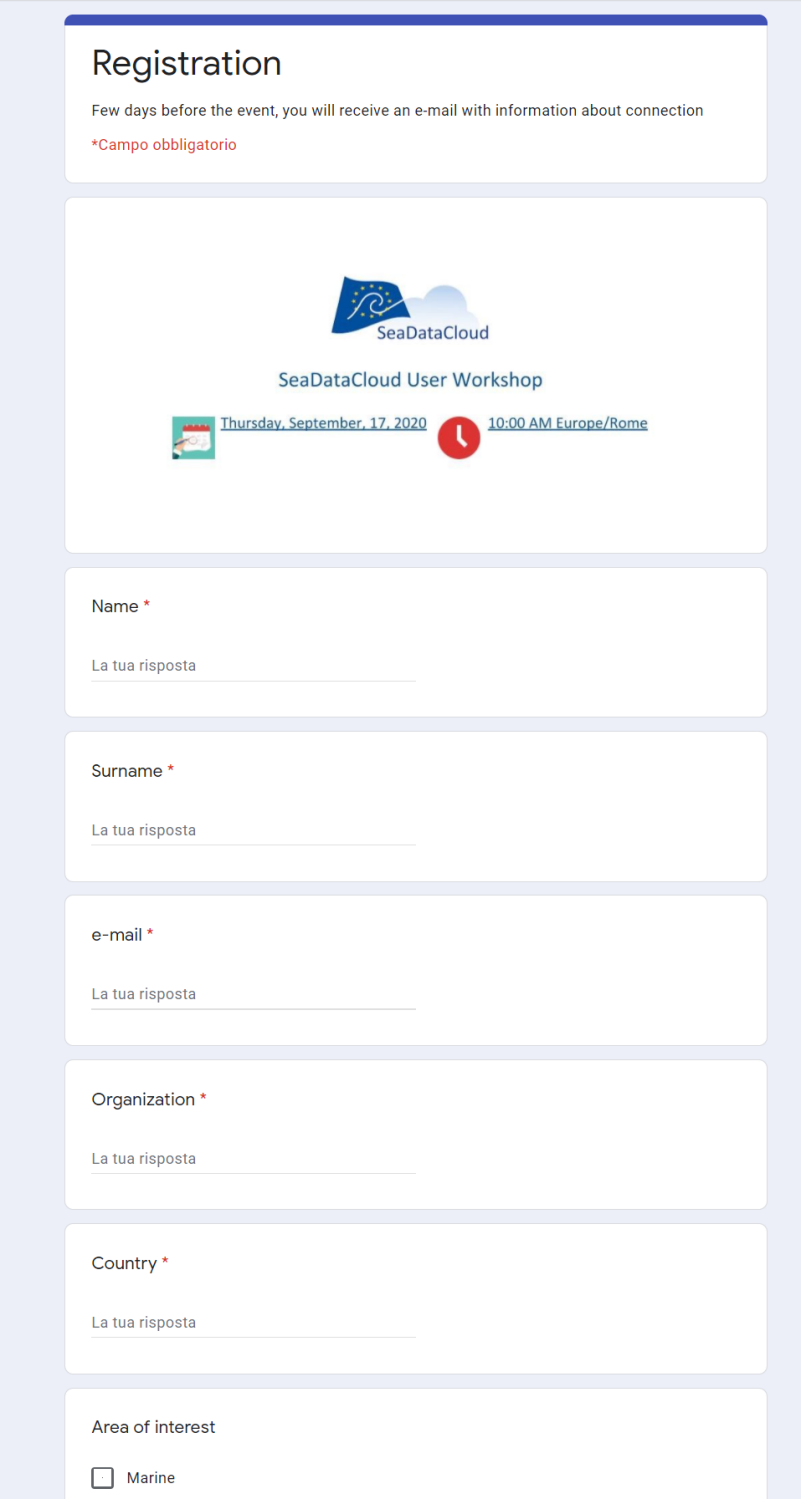
1. Pre-registration and coordination

The second User Workshop was organized as an on-line event the **17th September 2020**, in accordance with the workshop speakers and the project coordinator.

To collect attendances information a form (image below) was shared with the invitation email:



Registration

Few days before the event, you will receive an e-mail with information about connection

*Campo obbligatorio

SeaDataCloud

SeaDataCloud User Workshop

Thursday, September, 17, 2020 10:00 AM Europe/Rome

Name *

La tua risposta

Surname *

La tua risposta

e-mail *

La tua risposta

Organization *

La tua risposta

Country *

La tua risposta

Area of interest

Marine

The **pre-registered** participants were 322 with different areas of interest, from 51 different countries and 170 distinct organizations (see below Figure 1, Figure 2 and Table 1):

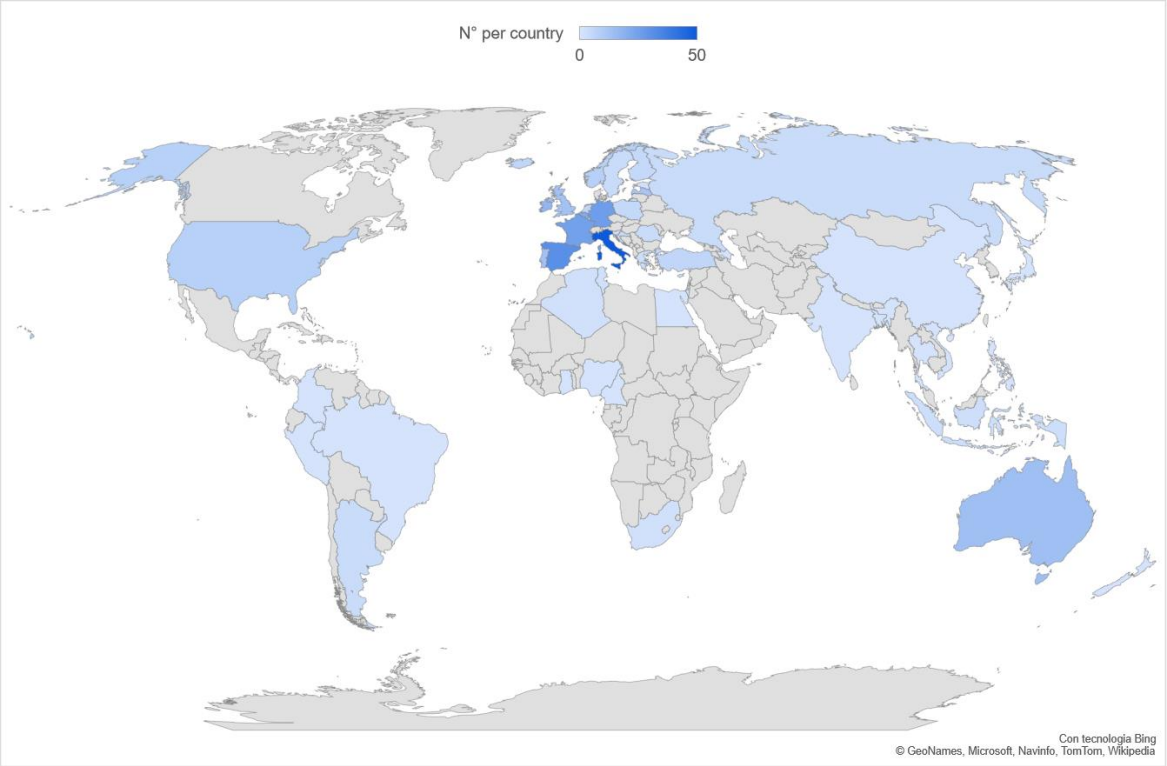


Figure 1 - Density of registration per country

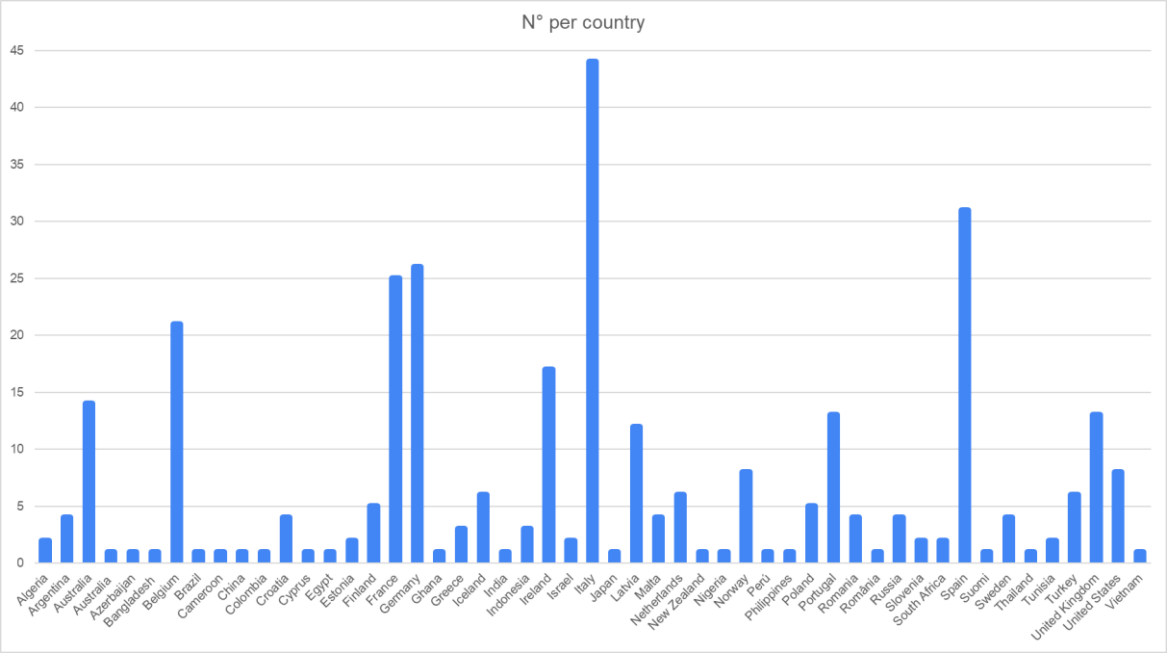


Figure 2 - Density of registration per country

Table 1 - List of organizations of the registered participants

AIMS	Leibniz Institute for Baltic Sea Research
Akwa Ibom State University	Leibniz-Institut für Ostseeforschung Warnemünde - IOW
Alfred Wegener Institute	LIAE
Aquavisu	Lund University
ARDC	MAL
Austral Center for Scientific Research	MARETEC - Instituto Superior Técnico - Universidade de Lisboa
Australian National University	MARE-UL
Australian Research Data Commond	MARIENE INFORMATIE SERVICE MARIS B.V.
Azti	Marine and Freshwater Research Institute
BGR Hannover	Marine Hydrophysical Institute RAS; ORION
Blue Lobster IT Limited	Marine Information Research Center
BSH	Marine Institute
BSMRMU	Marine Scotland Science
CCMAR - Algarve Centre for Marine Sciences, Univ. Algarve	Maritime Enforcement Operations Center
CEFAS	MARUM - University Bremen
CloudRemo Ltd	MBM
CLS	Metsähallitus Parks & Wildlife Finland
CMRE	MFRI - Marine and Freshwater Research Institute
CNR	MH&M, The Hydrographic Service of the Royal Netherlands Navy (RNLN)
CNRDPA	MHD
CNRM	Middle East Techical University Institute of Marine Sciences
CNRS	Ministerie van Defensie
CNRS/MIO	National Institute for Marine Research and Development "Grigore Antipa"
CNRS/UnivStrasbourg EOST-IPGS	National Institute of Biology
CSC	National Institute of Biology
CSIRO	National Oceanography Centre (NOC), British Oceanographic Data Centre (BODC)
DELTARES	National Research Council of Italy - ISTI-CNR
ECOAQUA	NATO CMRE
Ecological Research Society	NIMRD
Ecopath International Initiative	NIOZ Royal Netherlands Institute for Sea Research
ENEA	NIWA
EPOC Université de Bordeaux / OASU	NOAA
Estonian Environment Agency	NOC
ETT	Norwegian Hydrographic Service
EuroGOOS AISBL	Norwegian Mapping Authority
FEUP - University of Porto	NTNU
Finnish Environment Institute	Ocean Sciences and Techniques Academy
Flanders Marine Institute	OCEAN University Initiative - Université de Bretagne Occidentale
FMI	Ocean University of China
FREELANCE	OceanMind
Gazi university	OGS
GEOMAR	Okeanos
German Climate Computing Centre (DKRZ)	ORION
German Federal Maritime and Hydrographic Agency (BSH)	P.P. Shirshov Institute of Oceanology of RAS
Havforskningsinstituttet	Pangaea
HCMR	Physical Oceanography Research Group, University of Malta
HZG	PICTEC

IBM	Polytechnic University of Marche
ICBM - University Oldenburg	RBINS
ICM	RBINS - ECOMOD
IEO	Royal Belgian Institute of Natural Sciences
Ifremer	Russian NODC
Ifremer and Euro-Argo ERIC	School of Civil Engineering, AUTh
IFREMER LOPS	Scripps Institution of Oceanography / UCSD
IH	SeaTopic SAS
IIST	SHOM
ILVO	SMHI
IMBRSea	SOCIB
IMR	SOCIB and IMEDEA (CSIC-UIB)
Indonesian Institute of Sciences	Sorbonne University
INESC TEC	Spanish Institute of Oceanography (IEO)
INGV	Station Biologique de Roscoff - CNRS/Sorbonne Université
INGV / EMSO ERIC	Subtropical Scientific Centre of the Russian Academy of Sciences
INIDEP	SYKE
Institut of Geography of Azerbaijan National Academy of Sciences	Tallinn University of Technology
Institute for Chemistry and Biology of the Marine Environment (ICBM)	The European Marine Energy Centre
Institute for Marine and Antarctic Studies	The Marine Institute
Institute of Agriculture and Fisheries Research	TUBITAK Marmara Research Center
Institute of Marine Environment and Resources	UFES
Institute of Marine Research, Norway	UNEP-WCMC
Institute of Marine Sciences (ICM-CSIC)	UNESCO-IOC
Institute of Meteorology and Water Management - National Research Institute	Unidad de Tecnologia Marina. CSIC
Institute of Oceanography and Fisheries	Università di Parma
Institute of Oceanology PAN	Universitas Maritim AMNI Semarang
Institute of Oceanology, PAS	Universitat de Barcelona
Institute of Oceanology, Polish Academy of Sciences	Universitatea București
Instituto del Mar del Peru	Université de Bretagne Occidentale
Instituto Español de Oceanografía	University
Instituto Hidrografico	University College Cork
INSTM	University of Barcelona
INSTM-LMM	University of Bologna
Integrated Marine Observing System	University of Bremen
INVEMAR	University of Calabria, Italy
IOC/IODE	University of Cape Coast, Cape Coast
IODE	University of Cape Town
ISPRA	University of Genoa
Israel Oceanographic & Limnological Research	University of Latvia
Istanbul Technical University	University of Limerick
Istanbul University	University of Malta
IVL Svenska Miljöinstitutet	University of Murcia
JCOMMOPS	University of the Azores
JNCC	University of Yaounde 1
jOmegak	University Parthenope of Naples
JPI Oceans secretariat	UTM CSIC
Latvian Institute of Aquatic Ecology	UTM-CSIC

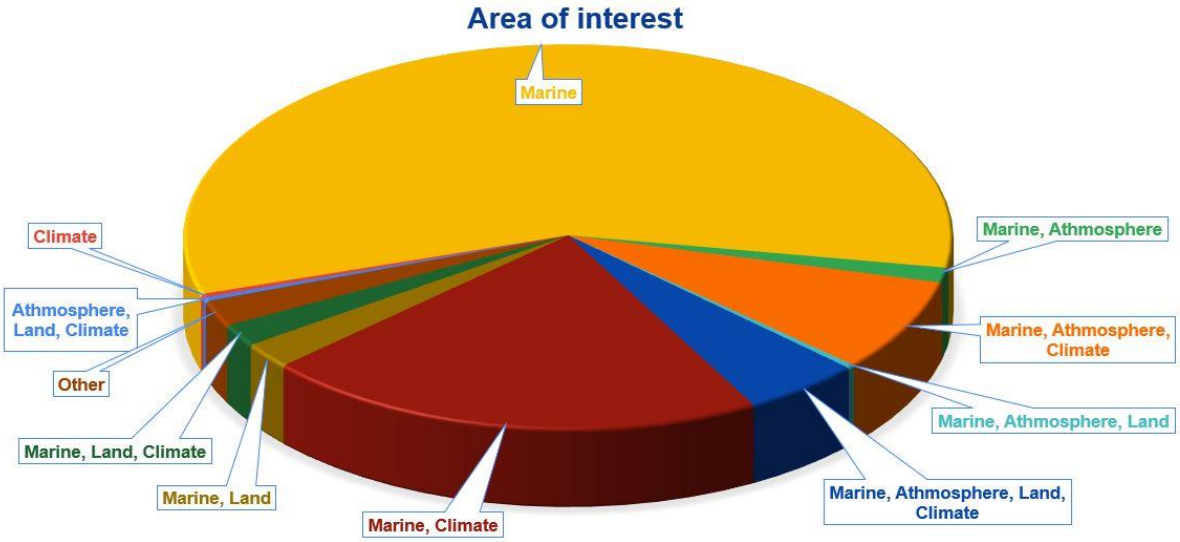


Figure 3 - Area of interest of the registered participant

Before the workshop day some coordination meetings were organized:

- **7th September**: technical meeting to test the Webex system (Cisco® Webex) in collaboration with Ifremer;
- **8th September**: coordination meeting with speakers to concord and confirm the agenda (see Figure 4):

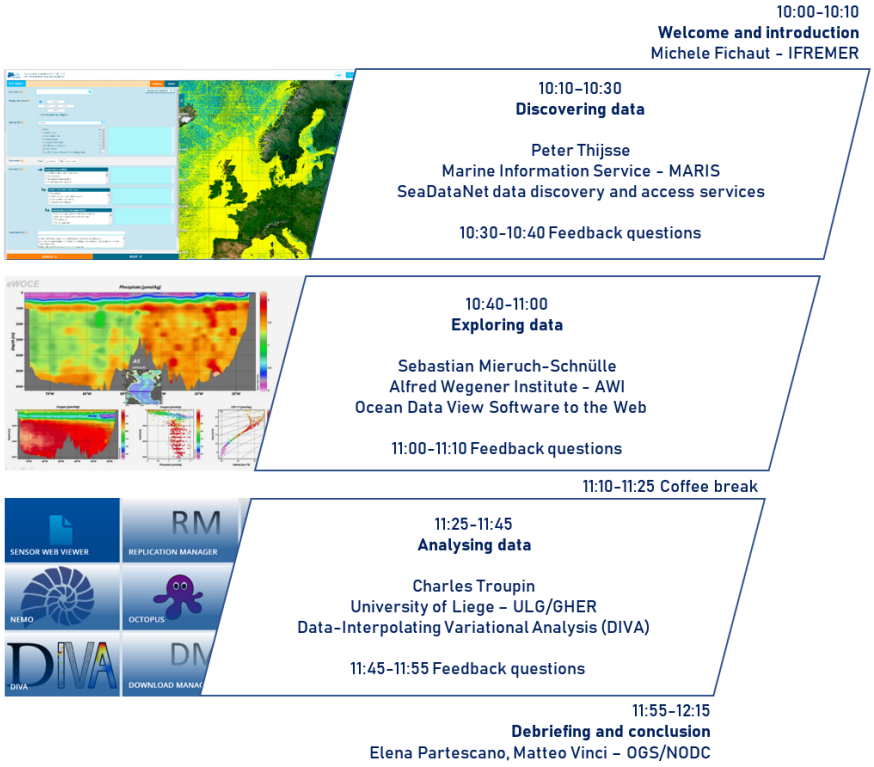


Figure 4 - Agenda of the user workshop

2. Workshop Day

The workshop started on time at 10:00 after the introduction of Michèle Fichaut (Ifremer) about: *Further developing the SeaDataNet pan-European infrastructure for marine and ocean data management*, Peter Thijsse (MARIS) presented: *Delivering marine data from the cloud using the SeaDataCloud Discovery and Access service*. Then Sebastian Mieruch (AWI) showed a video about a practical use of the Virtual Research Environment. In conclusion, Charles Troupin (ULiège/GHER) presented: *Data interpolation: what can we do {for, with} you?*

After each session, time for some questions was given using the Questions and Answers Cisco® tool (the complete list of questions is available on the Annex 1).

At the end, 155 attendees out of the 322 registered people followed the Webinar, from 32 countries (see image below):

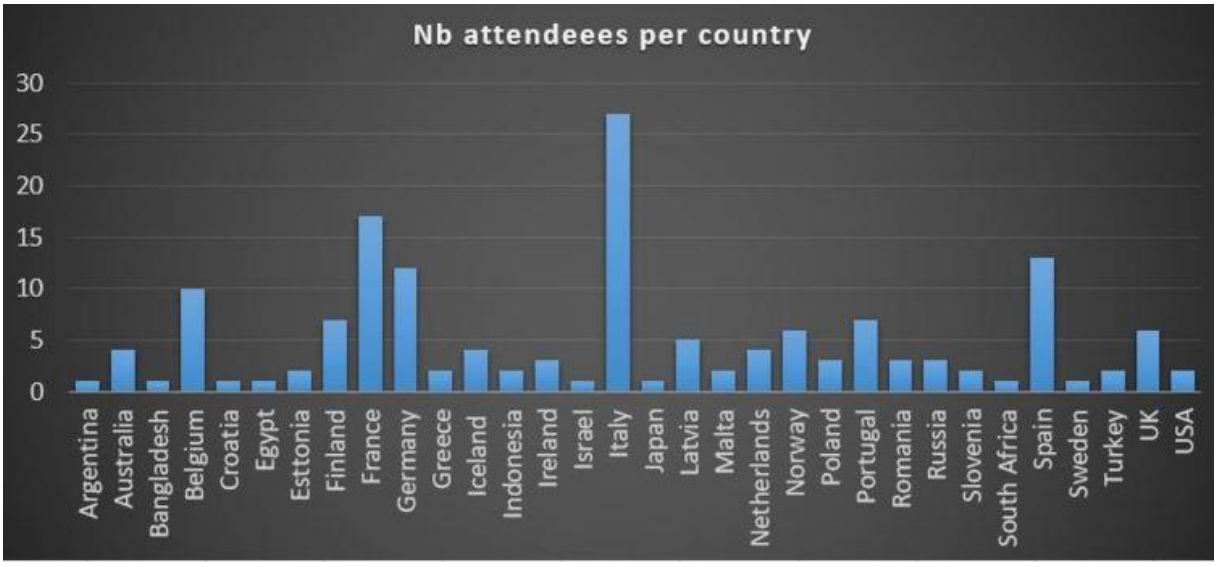
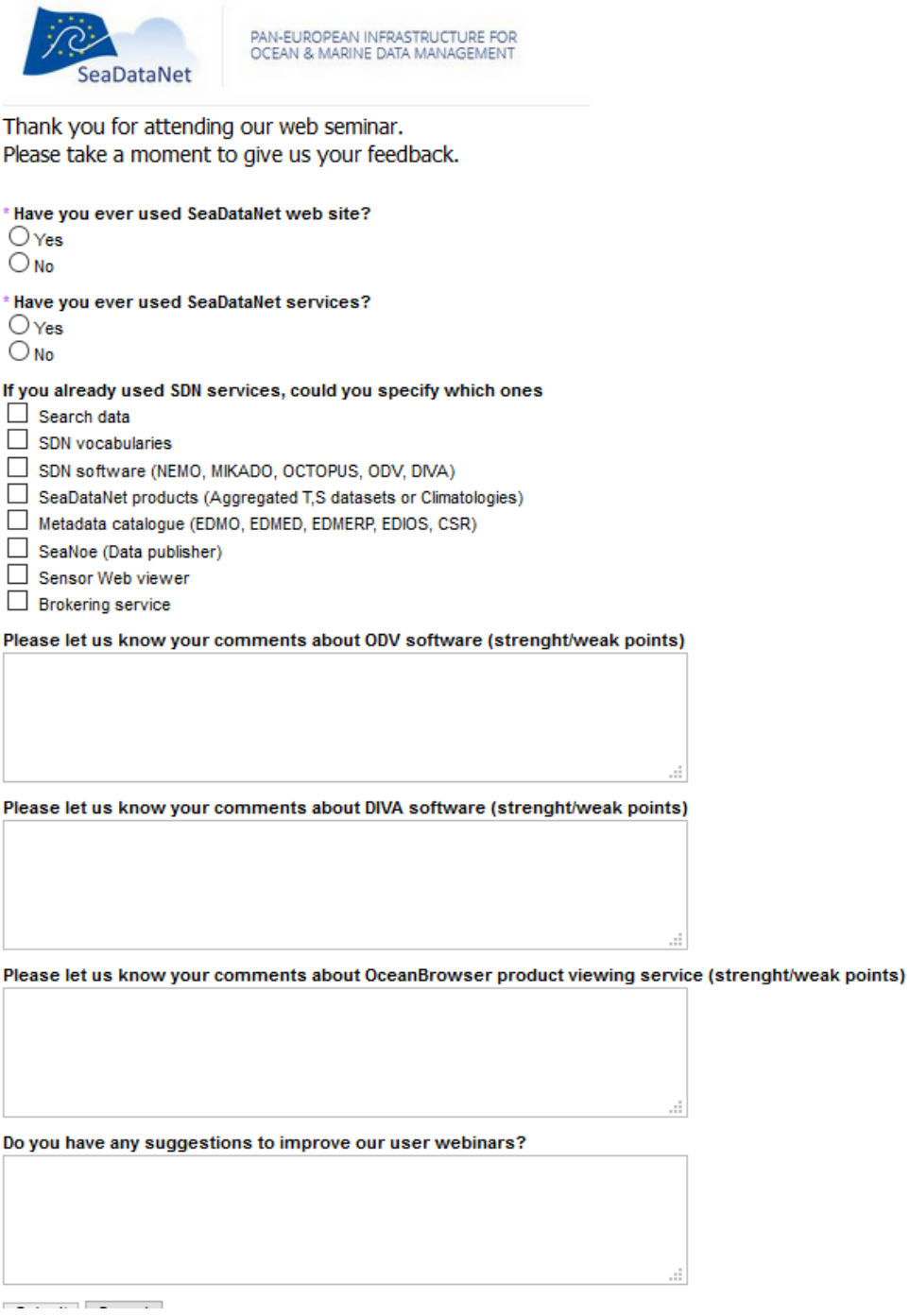


Figure 5 - Number of attendees to the SDC workshop per country

3. Survey

At the end of the workshop, a survey was proposed to all attendees (see Figure 6) to collect feedback to improve the next sessions.



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

Thank you for attending our web seminar.
Please take a moment to give us your feedback.

* **Have you ever used SeaDataNet web site?**
- ○ Yes
- ○ No

* **Have you ever used SeaDataNet services?**
- ○ Yes
- ○ No

If you already used SDN services, could you specify which ones
- ☐ Search data
- ☐ SDN vocabularies
- ☐ SDN software (NEMO, MIKADO, OCTOPUS, ODV, DIVA)
- ☐ SeaDataNet products (Aggregated T,S datasets or Climatologies)
- ☐ Metadata catalogue (EDMO, EDMED, EDMERP, EDIOS, CSR)
- ☐ SeaNoe (Data publisher)
- ☐ Sensor Web viewer
- ☐ Brokering service

Please let us know your comments about ODV software (strenght/weak points)

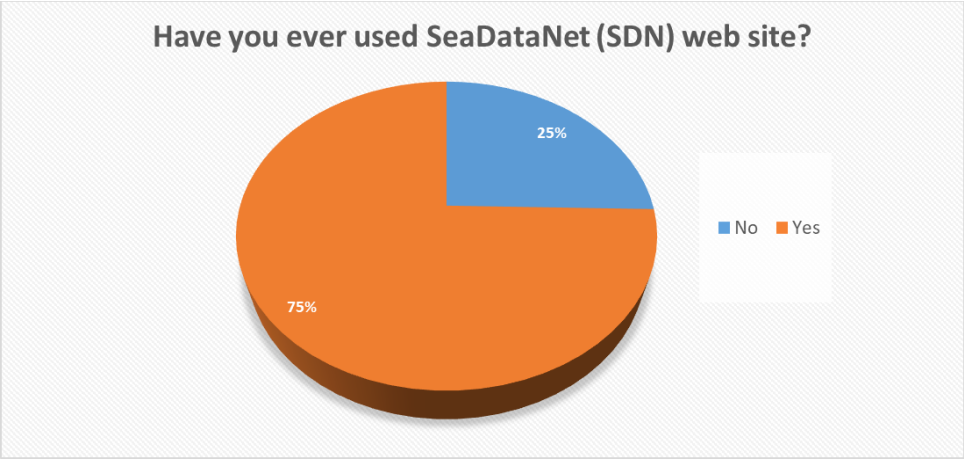
Please let us know your comments about DIVA software (strenght/weak points)

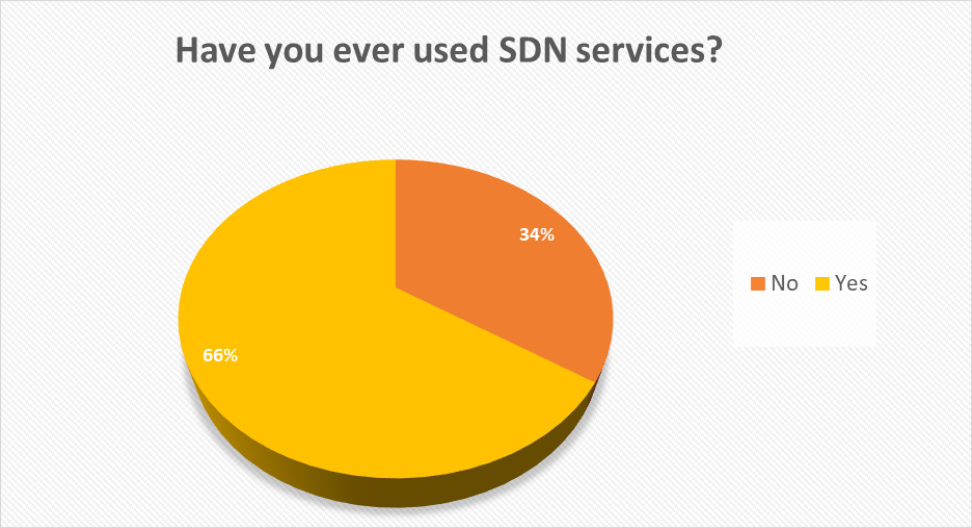
Please let us know your comments about OceanBrowser product viewing service (strenght/weak points)

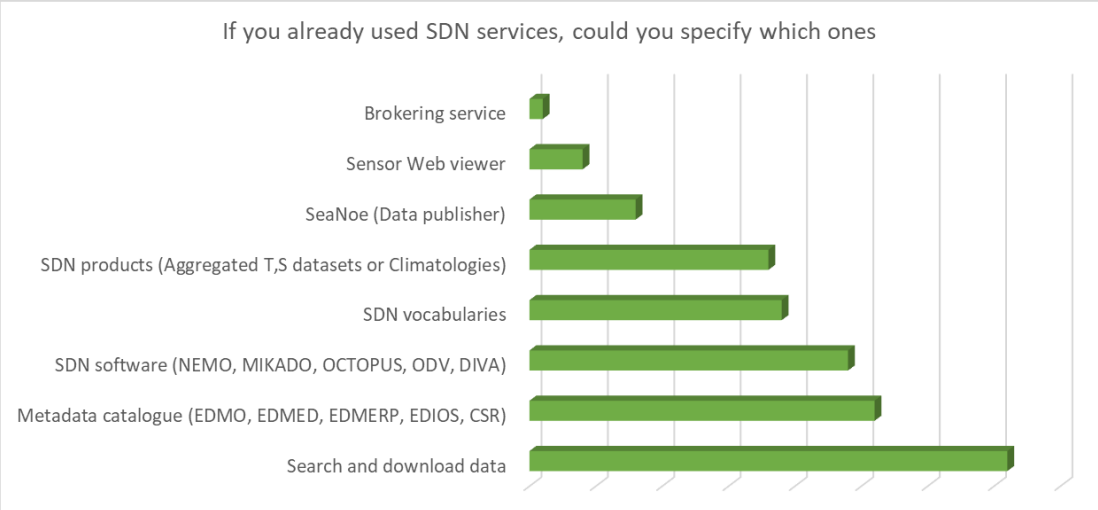
Do you have any suggestions to improve our user webinars?

Figure 6 - Survey sent to all participants

From the answers of the survey, we obtained the following results:







Please let us know your comments about ODV software (strength/weak points)

Great! Need to try with private data.
Great Software, no glaring weak points
Great, I use the offline version for a long time. Will resubmit some suggestions for implementation.
I am enthusiastic to test the webODV. Now I download SDN archives, then filter using python code (e.g. depth=surface, parameter=chlorophyll, etc). I think will be much easier and faster do this online.
I don't use ODV, only MIKADO to create CDI
I have used ODV for a long time, it is a very useful tool for oceanographers. I have never used Web ODV so far, but after first attempts, it seems to have some problems related to web certificates that do not allow enter and use it.
I tried but it was difficult for me to use it
It is a powerful tool.
It's a very good software
ODV is a very useful and user-friendly software to process, visualize and analyse oceanographic data sets such as profiles, cruise data. I would like to have ODV API.
Some minor problems importing data, date, time and bottom depth, but mainly pretty good.
Strength: easy to use weak: the choice of interpolation method is limited
Very powerful and extensive package for quality control, making harmonized data collections and data plots. Relatively weak: plotting and maps are all in the box and could be opened up by adopting OGC services standards.

Please let us know your comments about DIVA software (strength/weak points)

DIVA (2D) strength: amazing for filling gaps in regions with sparsed obs obtaining a gridding
Also, very powerful gridding software, taking into account geometry. Development of Notebooks very attractive also from FAIR perspective for Re-usability and Reproducibility.
DIVA is a very powerful tool but it is difficult to use DIVA for not python-familiar users. Probably, user interface would help scientists to use it easily.
I haven't used DIVA, but i want to give it a try
I will continue using inside ODV but no plans to go further in Julia code or Pluto Notebook. DIVA should balance what is better: have a faster software that people will not try because the code language or a slower software that people will give a chance?
I'll try to use it
Only tried 2D version. DIVAnd seems appealing, but not tried yet
Sometimes over-smoothing
Very interesting the n-dimensional version

Please let us know your comments about product viewing service (strength/weak points)

Strength: powerful viewer Weak: possibility to include additional layers but only based on WMS (90% of CMEMS-Insitu products cannot be visualized)

For a rookie there is a lot of portals and tools, and it is not easy to distinguish between them.
Good service for displaying products as maps with combinations of layers, animation option, and download options. Further functions desired for interacting and visualizing underlying data sets.
I found it good and useful.
Quite good.
Still learning. Primary interest is in EMODnet bathymetry.
The new version is much better than the previous one, I would add a button for "Select all datasets" since you have to do it in a kind of manual way.
Very good all the improvements on the product viewing. Haven't explore it yet myself so I cannot give feedback.
Very good. Suggestion: an option to draw polygons instead of boxes to find data. Maybe option to insert a polygon (shapefile, wkt or geojson).

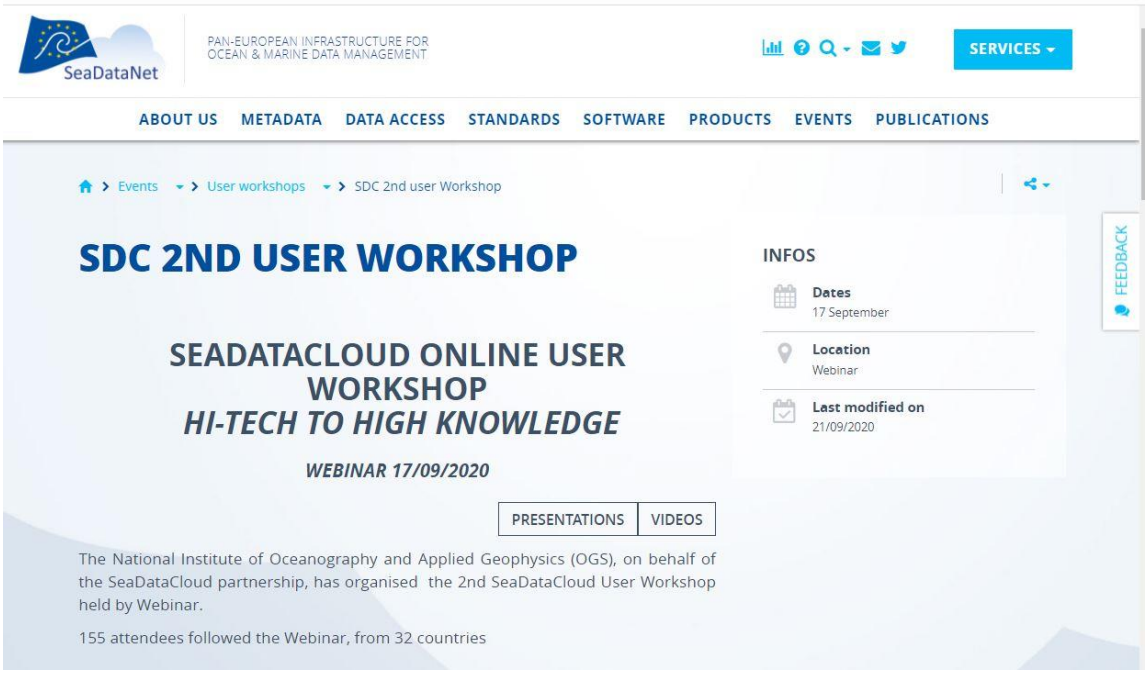
Do you have any suggestions to improve our user webinars?

Interactive slide presentations (as the oned from Charles Troupin) created using HTML are very welcomed! 1h Training specific parallel- sessions with different SDN software will be great!
Everything was very good. Nothing to suggest.
I am very surprised about the number of participants: were they very few? or not visible as participants? Would be great to follow from the beginning the use of the same data sets: searching, extracting, exploring, interpolating...
I could not see how many people were participating and their Questions and Answers.
I just came to know about the SDC. I did not know or use it before. Currently, I am working on marine research and would be using these services. Thank you for your great work.
I would maybe add a round session with more comments from the users
Internet connection was problematic, especially during videos
It was very interesting!
It would be good to be able to see the names of participants
May be, improve the sound of some speakers.
More webinars on data analysis
No, was a very interesting and useful webinar. Thanks.
No. I liked the webinar, and look forward to start working with the SDN website and services.
Not yet. May come after we receive the files? Thanks to all for this enlightening webinar!
Some trouble with sound, some people were very clear but others had some interferences and extra noises.

In conclusion, the results of the survey are positive: the majority of participants used SeaDataNet website and services in particular SeaDataNet vocabularies, metadata catalogues, software and discovery interface. The comments about ODV software, the viewing service and DIVA are constructive and they highlight the interest of participants to deepen the knowledge about them. The feedback on the webinar is encouraging.

4. Presentations and video

The workshop material was published, thanks to Ifremer, on the SeaDataNet web site (https://www.seadatanet.org/Events/User-workshops/SDC-2nd-user-Workshop), this gave the possibility to all attendees and to all interested users to visualize and deep their knowledge on SeaDataCloud tools.



5. Conclusions

In conclusion, despite the initial organizational difficulties due to the pandemic situation management and the selection of a suitable place for the realization of the workshop, the decision to organize the workshop online, proved to be a winning alternative. At the beginning, it seemed a fall-back solution, but at the end provided a good chance for a wide participation of people, giving the possibility to non-EU users to follow and deepen their knowledge on SeaDataNet tools.

Annex 1

Q&A Session for SeaDataCloud webinar

Date: 17 September 2020

-Kate Collingridge - 09:07

Q: Is that not now? I thought that was 2 hours ahead of us, but maybe only one hour.

Priority: N/A-

-Vanessa Tosello - 09:17

A: The workshop will start at 10am UTC+2 (Paris time). Currently, the panelist is testing the system.-

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-Kate Collingridge - 09:06

Q: What time is it starting? I thought it was 10am UTC+2?

Priority: N/A-

-Vanessa Tosello - 09:15

A: The workshop will start at 10am UTC+2 (Paris time). -

-Luminita Buga - 09:11

Q: Seems I'm too early. Should I join the meeting later?

Priority: N/A-

-Vanessa Tosello - 09:16

A: Currently, the panelist is testing the system. So, you could join the meeting later.

-Sebastian Mieruch - 09:57

Q: Good morning. I'm connected, but audio is not working at the moment.

Priority: N/A-

-Vanessa Tosello - 10:00

A: Hi Sebastian, for the moment, nobody is speaking-

-Sebastian Mieruch - 09:59

Q: Is it fine for you that you post the link to my video at 10:40 into the chat? It's important to inform the participants to set the video to high resolution, i.e. 1080p, click on the preferences.

Priority: N/A-

-Vanessa Tosello - 10:01

A: Elena will display the video on her screen-

-Ana Macario - 10:04

Q: Hi together,

Priority: N/A-

-Erik Geletti - 10:05

A: Thank you for your question. The information that you requested cannot be provided by any of the panelists.-

-Erik Geletti - 10:12

A: Good morning! -

-Elisabeth Kubin - 10:05

Q: Good morning!

Priority: N/A-

-Erik Geletti - 10:07

A: Thank you for your question. The information that you requested cannot be provided by any of the panelists.-

-Erik Geletti - 10:12

A: Good morning! -

-Joao Santos - 10:19

Q: Good morning. Two questions:

Priority: N/A-

-Joao Santos - 10:21

Q: Sorry, I will keep to the end. Maybe will be answered during the webinar.

Priority: N/A-

-Francisco Campuzano) - 10:35

Q: Hi Peter! Nice work! Under what circsunstances can access to restricted data be denied?

Priority: N/A-

-Peter Thijsse - 10:54

A: this happens when it is still under embargo because of a study/publication, but also because it has commercial value (think of seismic surveys) and requested by an oil company, or it is chemical data in a sensitive area and the dc want to provide context-

---

-Giampaolo Cimino - NATO CMRE (giampaolo.cimino@cmre.nato.int) - 10:35

Q: I have a question too

Priority: N/A-

-peter pissierssens - 10:35

Q: would SDN/SDC be interested in collaborating with the IOC Ocean InfoHub project through interoperability technology so the SDN data become available in LAC, AFR and P-SIDS?

Priority: N/A-

-Erik Geletti - 10:41

A: This question has been answered verbally. -

-peter pissierssens - 10:36

Q: in other words: is there an API or will there be?

Priority: N/A-

-Erik Geletti - 10:41

A: This question has been answered verbally.-

-Henrik Nygård - 10:37

Q: Hi, thanks for a nice presentation! Is there a way for how to identify time series data sets? And following on that, can the time period or time series length be searched for?

Priority: N/A-

-Erik Geletti - 10:42

A: This question has been answered verbally.-

-Peter Thijsse - 10:46

A: ah i found it. if you open in the search screen the advance search options, there is the field "duration" where you can fill in how long the min or max time of an observation dataset should be-

---

-Ana Macario - 10:38

Q: Thank you Peter. Who shall we (at AWI) contact if we want to contribute with oceanography data within a small ocean region (say Fram Strait) as proof-of-concept for us?

Priority: N/A-

-Peter Thijsse - 10:48

A: BSH is the german data center connected to CDI and acts as "nodc". best is to contact for example Susanne Tamm-

-Charles Troupin - 11:11

A: thanks for the feedback Francisco, that's really relevant-

---

-Angela Schaefer - 10:38

Q: @Peter: Is there a limitation of volume of data to be accessed or processed in the SD Cloud

Priority: N/A-

-Peter Thijsse - 10:50

A: good question. the limit per file is several GB's at the moment. but most files are much smaller. Th larger files are usually from seismic surveys and they have mostly a restriction on them and thus not made available via the cloud-

---

-Giampaolo Cimino - NATO CMRE - 10:38

Q: may i speak?

Priority: N/A-

-peter pissierssens - 10:40

Q: OK thanks

Priority: N/A-

-Ana Macario - 10:47

Q: sound transmission is bad

Priority: N/A-

-Vicente Fernandez - 10:35

Q: What is the difference betweeen this CDI seadatanet service and the EMODnet portal in terms of access to data?

Priority: N/A-

-Peter Thijsse - 10:52

A: Hi Vicente, there is no difference between the cdi data terms of access, and the cdi data available via emodnet physics. most data in physics is unrestricted, and if not, it should be ;)-

---

-Francisco Campuzano - 10:56

Q: Thank you for the answer! I asked 10 days ago for some nutrient data in the water column for Western Iberia and it was denied and I didn't receive a notification that it was denied (I checked it today) and they provide no reasons

Priority: N/A-

-Francisco Campuzano - 10:56

Q: I think that the user should be informed and some feedback for the reasons should be supplied

Priority: N/A-

-Francisco Campuzano (campuzanofj.maretec@tecnico.ulisboa.pt) - 10:57

Q: Congratulations for the new interface! Much better than the preivous one

Priority: N/A-

-Francisco Campuzano - 10:58

Q: As a suggestion I would only add a button to "select all registries"

Priority: N/A-

-Charles Troupin - 11:19

A: Hello-

-matteo vinci - 11:26

Q: hi there!

Priority: N/A-

-Vicente Fernandez - 11:43

Q: thanks Charles, Are you interpolating (using Diva) HF radials or total data? this could be a good gap filling data tool

Priority: N/A-

-Charles Troupin - 11:48

A: @Vicente: we use radials, we prefer to use that.-

-Francisco Campuzano - 11:45

Q: Hi Charles!

Priority: N/A-

-Jed Kempf - 11:46

Q: Thank you. great presentation

Priority: N/A-

-Ana Macario - 11:48

Q: May I ask a question?

Priority: N/A-

-Patricia Cabrera (patricia.cabrera@vliz.be) - 11:48

Q: Nice work Charles!!!

Priority: N/A-

-Emma Reyes - 11:47

Q: Cada vez me gusta más DIVAnd!! Me alegro de verte. Como siempre, tu presentación, chapó!

Priority: N/A-

-Charles Troupin - 11:49

A: Thanks-

-Charles Troupin - 11:49

A: Gracias Emma. -

-Francisco Campuzano - 11:49

Q: nice presentation

Priority: N/A-

-Charles Troupin - 11:49

A: thanks!-

-Juan Gabriel Fernández - 11:50

Q: Same Charles! I think we give a try at SOCIB: HFR or water massess transport data product...

Priority: N/A-

-Téténa Boinariziki - 11:51

Q: Thank you for all the presentations, that's was very nice.

Priority: N/A-

-Francisco Campuzano) - 11:50

Q: I'm browsing the products for the atlantic in emodnet chemistry

Priority: N/A-

-Andrea Artoni - 11:55

Q: Very interesting presentations for knowing what is behind and how to use Seadatanet. Many thanks!

Priority: N/A-

-Francisco Campuzano - 11:51

Q: They will be very useful for modellers ;)

Priority: N/A-

-Charles Troupin - 11:55

A: yes, they are 6-year products, so they might be some gaps -

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-MARILENA TSOMPANOU - 11:56

Q: Thank you for the nice presentations...Goodbye

Priority: N/A-

-Ana Macario - 11:56

Q: thank you for the organizaton

Priority: N/A-

-SISSY IONA - 11:56

Q: Bye!!!

Priority: N/A-

-Téténa Boinariziki - 11:56

Q: good bye

Priority: N/A-

-Andrea Artoni - 11:56

Q: bye

Priority: N/A-

-Audrey Zammit - 11:56

Q: Thank you

Priority: N/A-

-Kimmo Tikka - 11:56

Q: Bye!

Priority: N/A-

-Monika Graczyk-Raczyńska - 11:56

Q: Bye, thank you very much!

Priority: N/A-

-Geneviève Lacroix - 11:56

Q: Thanks!

Priority: N/A-

-Dries Van den Eynde - 11:56

Q: Bye bye, thanks for the nice and interesting presentations!

Priority: N/A-

-Isabelle Taupier-Letage - 11:56

Q: bye, thanks

Priority: N/A-

-Valentina Ibragimova - 11:57

Q: Thanks a lot ? it was very interesting

Priority: N/A-

-Angela Schaefer - 11:58

Q: Thank you

Priority: N/A-