



Center for
Biodiversity and
Natural Products
Biological Sciences



**BID Capacity
Enhancement Workshop
Biodiversity Data Mobilization**

NATURAL HISTORY COLLECTIONS
UNIVERSITY OF PAPUA NEW GUINEA
CENTRE FOR BIODIVERSITY AND NATURAL
PRODUCTS



Report on the First Training Workshop, held
at the University of Papua New Guinea (February 14 – 18, 2022)

Janet Gagul

Background – Centre for Biodiversity and Natural Products

The Centre for Biodiversity and Natural Products (CBNP) is hosted within the University of Papua New Guinea. It is the research arm of the Biological Sciences Division, one of the six divisions within the School of Natural and Physical Sciences (SNPS). The centre comprises four taxonomically important collections: Herbarium (23,933 plants specimens), Entomology (14,000 insect specimens), Zoology (Mammals, Amphibians and Reptiles (13,900 specimens), and the PNG National Fish Collection (c. 10,000 specimens). Currently, our collections are scattered in different databases with no standard format. We are employing traditional database systems such as record cards or catalogue systems, and these databases are stored digitally in MS access or excel spreadsheets or other databases such as Lucid. The disadvantage is that such a simple database can only accommodate up to a certain information capacity. The CBNP is currently not linked electronically to or with any other natural history collections both within Papua New Guinea and abroad. Even within the CBNP there is no main/central server that serves as a main storage or repository for the four collections.

Currently the centre only accepts and lends specimens by postage, a risky practice for significant collections such as the herbarium. Therefore, the CBNP aims to link its natural history collections with other national and (possibly) international institutions, for reference purposes, but also to exchange digital images and information for research. Furthermore, within the CBNP we aim to link the four collections to a main server to ensure data is automatically fed into the central repository when entered from the different sections. This idea has been discussed informally among researchers for so many years, and with the current GBIF funding we aim to link our collections within the CBNP, and hopefully link that to other institutions. The GBIF funding will also support the following (but not limited to):

- Training for data transcribing, data cleaning and management. First training was conducted this year (14 – 18 February)
- Data mobilization and digitization of existing collection records to new database (data migration)

- Student training (as part of job experience and capacity building) in data transcription using standard protocols – will be done during semester breaks and end of year holiday periods
- Making our data accessible online for the general public, researchers and the scientific community – first data (plants data from UPNG herbarium) will be made available in May this year

The CBNP has already conducted the first training (14 – 18 February 2022) for collection managers, and report for the workshop is currently being drafted by the project lead. The report will be sent out to the team for endorsements, and then will be submitted to the Executive Dean SNPS, Head Biological Sciences and GBIF secretariat.

Further funding assistance may be required for:

- Development of infrastructure platform to host the CBNP database for further data mobilisation and digitisation work, including specimen photography in the four collections
- Development or selection and purchase of robust database software (that can store >300,000 records with images). The current funding from GBIF supports us to get our collections in order and train our staff to use standard protocols or best practices that are employed by other natural history museums around the world. The GBIF is a great platform that supports such initiatives, and we were fortunate to get financial support from them.

The CBNP team believes that the project will require more effort in the following:

- 1) Preparation for database work – sorting collection for databasing in the four sections. For instance, going through the existing database in each section and identifying when the last entry was made, and why it stopped.
- 2) Training for collection managers and scientific officers – workshop for staff and possible student assistants for data transcribing and data management
- 3) Commencement of database work – information/data of specimens will be entered in each section (transcribing information from specimen labels into computers).

The scientific officers in each collection will be responsible for overseeing the project's progress. A meeting will be held at the end of every month whereby each Scientific Officer will report the progress. The information from the meeting will be compiled and presented to the director by the research scientist and the project lead. Each section will be tasked to produce publications (in peer reviewed articles, technical/scientific reports, news articles, and community outreach materials) headed by the senior

scientists while being engaged in the project. Presentation of the findings from the project will be done in relevant forums, symposiums and conferences. Report of project outcomes (results, best practices and policy recommendation) will be discussed and endorsed by the team and disseminated.

Project duration: July 2021 – June 2023.

REPORT ON WORKSHOP

Purpose of the workshop

The purpose of the workshop was to provide training to collection managers, NGO, government personnel and individuals that deal with data in their work. The workshop provided a non-judgemental platform where participants discussed how best they could work together to share data and information on PNG's biodiversity.

Background to workshop

The first workshop of a diverse cross-section of 12 participants including collection managers, IT personnel, representatives from both NGO and government departments, and research institutions from within Papua New Guinea. The training was held at the UPNG's Biological Sciences Natural Science Resource Centre, in Port Moresby, from 14 – 18 February 2022. The training was conducted by Penniel Lamei, a botanist and researcher from Forest Research Institute, and a collaborator on the GBIF project. The project is managed out of the UPNG.

A second follow-up training will be held on a later date (dates to be announced).

Composition of the workshop

The participants included both male and female, with surprisingly more females than males. While the training was designed to train collection managers whose daily responsibilities revolve around data entry, data cleaning and standardization, all participants were invited in their individual capacities and not as representatives of their respective organizations and institutions.

Content of the workshop

Pre-training: Arrival of instructor from FRI, Lae (13 February 2022)

Day One (14 February 2022): Registration, introductions, and purposes of training

MODULE I: INTRODUCTION TO WORKSHOP

This module enabled participants to get to know each other and the platforms and basic theoretical concepts that were to be used across modules.

Session 1: Welcome and introduction to workshop

The training was officially opened by the Head of Biological Sciences Dr. Lawong Balun, followed by curators of plants and Zoological collections (A/Prof Ralph Mana and Pius Piskaut) outlining the importance of curation and data maintenance in biological collections. The participants and trainer were allowed to get acquainted with each other

Session 2: Foundations for the course

In this session we went through the course contents, focussing on biodiversity digital data management. Participants did practical exercises and reported back with answers. The answers were discussed and feedback from participants was exchanged during the discussions.

MODULE II: PLANNING A DIGITISATION PROJECT

This module helped the participants to understand the different stages of digitisation project planning, and how to adapt them to their projects, their situations and their needs.

Session 3: Digitisation project planning: how to decided what to do and when to do it?

This session involved theoretical presentations, focusing on project planning, and the stages involved to successfully implementing a digitisation project. For instance, how to create a viable workflow, and what is involved in formally structuring the workflow from the start. What can be left for later? Who needs to know what and when?

Session 4: Digitisation planning practical exercise: Will it work?

Participants were divided into groups and exercises were given on the digitisation project planning. The exercise involved creating a project plan or work flow for small digitisation projects. The workflow plan was presented to the whole group for discussions.

Session 5: Digitisation planning practical exercise: Suggested solution and discussion

In this session the suggested solutions were discussed. This gave the participants a clear view of what is involved in the actual planning prior to digitisation project.

MODULE III: BIODIVERSITY DATA DIGITISATION

This module helped to identify the type of data the participants were working with, and how to better digitize information using best practices, and relevant tools and approaches.

Session 6: Introduction to Darwin Core

In this session participants were introduced to the Darwin Core Standard and its components to be used throughout the remainder of the workshop.

Day Two (15 February 2022)

MODULE IV: BIODIVERSITY DATA DIGITISATION CONTINUED

This module helped to identify the type of data the participants were working with, and how to best digitize information using best practices, and relevant tools and approaches.

Session 7: Biodiversity data types: What kind of data are we working with?

This session involved practical exercises to identify the various data types that people work with. These included observations data, sample-based data, taxonomic data, and images/pictures data (data or information obtained from images/pictures). There were discussions around the different types of data and how useful and priority they were for digitisation for their own needs.

Session 8: Principles of data management in digitisation

This session was focused on best practices and data quality principles in the context of data digitisation. Presentation by trainer included data quality and coherence particularly for 'Georeferencing, dates, names and taxa cross-checking', followed by group discussions on good practices, and practical exercises were done using spreadsheets.

MODULE V: DATA CURATION, FORMATTING AND TRANSFORMATION

This module mainly involved practical exercises, which helped with understanding the basic tools and concepts used for data validation and cleaning, and how data could be converted into Darwin Core.

Session 9: Basic concepts of data cleaning

The session comprised two parts:

Part 1 – enabled participants to familiarize themselves with main concepts of data cleaning using relevant tools, and best practices in the curation process, and Part 2 – consisted of theory and practical exercises using examples of technical and consistency validation checks.

Session 10: Use of OpenRefine

This session focused on OpenRefine, software used as a tool to improve the quality of biodiversity datasets by using the default features, existing web services and regular expressions.

Day Three (16 February 2022)

MODULE VI: DATA CURATION, FORMATTING AND TRANSFORMATION CONTINUED

Session 11: Other data management tools

This session was focused on tools that are used to validate and clean datasets in the following categories: nomenclature, format, and geographical.

MODULE VII: DATA PUBLISHING USING IPT

This module focused on the processes of making biodiversity data freely available online (or publishing data online). We used the main tool that GBIF has made available for this training purpose: the Integrated Publishing Toolkit (IPT).

Session 12a: Videos on data publishing concepts and introduction to the IPT

Session 12b: Videos on data publishing concepts and introduction to the IPT

Session 12c: Videos on data publishing concepts and introduction to the IPT

Day Four (17 February 2022)

MODULE VIII: FREE PRACTICE

This module involved free practical sessions where participants had the opportunity to practice using examples provided by the trainer. Participants also had the option to focus on where they should concentrate their efforts based on their skills and needs.

Session 13: Practical session

The participants did hands-on exercises comprised of techniques learned during the training on data mobilisation, digitization, and data management and data publishing. They also had the opportunity to use their own datasets as a practice, to see if their dataset worked.

Session 14: Practical session continued

Day Five (18 February 2022): Evaluation of training and closing with certificate presentation

MODULE IX: EVALUTION

Session 15: Summary of the workshop and evaluation

Trainer summary of data mobilisation workshop

A summary of the lessons imparted during the five days of training would be developed by the trainer and sent to the participants, to help them prepare for their second training workshop. The lessons imparted will be based on the:

- 1) Importance of data mobilisation and digitisation,
- 2) Significance of data publishing, and
- 3) Role of the collections in the UPNG research

Participants impact statements

The workshop was very useful such that we questioned and evaluated our performances, perception, prejudices of our databasing work at our collections, and to put our differences aside and work together for the common good of our institution, and the natural history collections which house the biodiversity and the natural heritage of Papua New Guinea at large.

We have learnt useful skills and tools from the workshop. GBIF provided us incredibly valuable tools, skills and practices for organization of our database, and eventually get to publish them. The workshop was made possible by the Forest Research Institute, our national collaborating institution. The workshop motivated and inspired us to progress forward despite numerous obstacles faced in the beginning of the project.

Below are four Ps, which we believe are useful if we apply in our data mobilisation project, for it to be successful:

Purpose: *Why* is data mobilisation and digitisation important in natural history museums, academic and research institutions?

People: *Who* needs to be a part of this project and the process?

Process: *How* will we accomplish our goals in the project?

Product: *What* (results) do we hope to achieve?

Participant notes on lessons learned from the workshop

At the closing, the participants were invited to reflect on what insights they had obtained through their participation in the training. They were also asked to share their opinions on the importance of data standardization and publishing. Following are what some participants had to say:

'The importance of data sharing and the lack of central repository and management for PNG's biodiversity data. Everyone needs the input of others; no one is self-sufficient'

'Suspicion and fear due to lack of knowledge in the importance of data sharing stops us from sharing our data'

'We were just entering data and did not know what to do with the data, particularly cleaning and standardizing the data in the database'

'For 3 years I was trying to figure out what to do with my data, but from these few days workshop, I was able to publish my data, using the trial publishing toolkit provided by GBIF'

'Collections at academic institutions like ours are quite important for research and publication but they have been neglected due to teaching responsibilities by staff with no proper curation of specimens. This has resulted in deterioration of specimens due to lack of funding to maintain the collection, with limited enthusiasm from staff to work on specimens'

'Management of funds in local institutions if not done properly results in trust issues. But with no funding at all or limited resources to do research and manage the collections at the same time, also results in challenges. For instance, lack of publicity due to lack of research, results in lack of visibility for the facility such as the CBNP. If the centre has the resources we need, we can organize ourselves better and maintain our collections (both in terms of equipment and human capacities)'

'Prejudices in projects are common. But for better outcome of our GBIF project, and deliverance in its output, we need transparency, honesty, commitment and sharing of ideas to help each other progress forward to successful completion'

'Feeling of incompetency or having a lack mentality should not be entertained or encouraged in projects. Because with imagination, effort and commitment, we can turn our ideas into projects and thrive to be the best for our institution'

'If we mobilize our resources, and organize ourselves for the project, we will produce quality results that benefit all. A good team effort is required at all levels of the project'

'With the CBNP data mobilisation project, we need to honor our commitment, so we do not fall behind our schedule in order to deliver results to the GBIF as required'

'It is important to understand the well being of the project team members, and whether there is justice in the process'

'If there is conflict or disagreement in the project, we must try to solve as professionally as we can, and acknowledge those conflict lessons for future projects'

'Entering data into database (transcribing information from catalogue or specimen labels into computers) is what we have been doing all along, without a proper standardization protocol. With the training we are able to access sites and platforms that provide standard protocols for our biological collections. For example, the Darwin Core Standard (DwC)'

'To be involved in data management is a personal commitment and perseverance besides your core functions at the university that takes majority of your time to assist in teaching activities'

'A broader perspective of how other natural history collections and museums are operating on a daily basis is crucial for quality curational work and research in our institution'

'In order to successfully complete the data mobilisation project, a well-structured activity plan is necessary from the start with regular reviews along the way'

'It is important to specify a task for a team member, and the objective to pursue'

'One of the major inconveniences that prevents projects from commencing as planned is unavoidable constraints, and trial and error'

'As in all projects, there is no prior roadmap; each project requires a workable roadmap that is specific to that project and specific to its needs'

'A project comes with different challenges. But the project team members have the potential to make it work and succeed. The persons responsible at all levels of the project must be conscious of the needs of the project and must facilitate the dialogue that is necessary for effective communication. That way the whole project will excel in the development and completion'

'When all project staff are united, challenges in the projects will be handled well to successful completion of the project'

'A good collaboration must exist between the members and partners of the project. It is necessary to uphold the common interests in all projects'

'Individual project team member interests must also be clarified in the management of the project from the beginning'

'In the case of conflict, and dealing with difficult non-cooperative individuals in the project, we must communicate with them in the most productive and professional manner'

Participants' recommendations for next training

1. Among many comments on training received from the participants, there was one in particular worth noting about the make up of participants in subsequent training. It was suggested that the project team consider including participants from other museums, and research and academic institutions from within PNG.

2. Follow up (informal tea coffee or lunch) meetings once a month to touch base on things and how participants are finding the training useful in their work. Are they using what they have learned from the training or have they

shelved it? The GBIF project team will meet at the end of each month to discuss what each collection member has been doing since training. Also once a month we will have a zoom meeting with our trainer to talk about the things we are unsure or find difficult.

3. The participants will also be invited to structure the agenda of the follow-on training session, scheduled for (dates to be advised). They will decide what the training will look like based on the last training. For instance, a consideration of their respective experiences in applying the lessons learned from the first training, and further work in elaborating their analysis of the principal obstacles to their respective databases, and of the means by which these obstacles should overcome.

Acknowledgements

The CBNP wishes to thank the following organizations for making the training possible:

- GBIF for financial support,
- UPNG for in-kind support, and
- FRI for providing the training

ENCLOSED:

Attachment 1 – Mini opening and closing program

Attachment 2 – Glossary of terms

Attachment 3 – Certificate sample

Attachment 4 – Some photos of the participants

Workshop program

Attachment 1

Mini program for the training

Pre-training (13 February 2022) – Arrival of trainer (Penniel Lamei) from Lae, Forest Research Institute

First day (14 February 2022) – Registration, introduction and welcome remarks

MC duty – Pius Piskaut (curator plant collections and lecturer plant sciences)

In-house matters announcement – Dan Kundun (scientific officer in charge of plant collections)

- A word of prayer by Pius Piskaut
- Welcome remarks by Dr. Lawong Balun Head of Biological Sciences
- Importance of curation and data maintenance in biological collections by curators of plant collection (Pius Piskaut), and zoological collections (Associate Professor Ralph Mana)
- Introduction to course contents by Penniel Lamei workshop instructor
- Participants introduction – each participant had a chance to introduce him/herself and what institution they represent

15 – 17 February 2022 – Workshop, theoretical presentations, practical exercises, and discussions on feedback from exercises. Participants used the tools and skills learned in trialing out with their own data using publishing toolkit provided by GBIF for the training

Last day (18 February 2022) – Summary of workshop, evaluation and closing of training followed by presentation of certificates

MC duty – Dan Kundun

- A summary of the lessons imparted during the five days of training by the trainer. The lessons imparted were broadly categorised under:
 - I) Importance of data mobilisation and digitisation,
 - II) Significance of data publishing, and
 - III) Role of the collections in the UPNG research
- Closing remarks by Beatrix Waiin (Deputy Dean Academic, SNPS) representing School of Science
- Importance of the training and the way forward by Dr. Lawong Balun Head of Biological Sciences

- Importance of curation and data maintenance in biological collections by curator of fish collection (Associate Professor Augustine Mungkaje)
- Lessons learned by participants representing NGO (Mazella Maniwavie), Motupore Island Research (Alfred Kooou), Government department (Rose Singadan but did not happen, as she had to attend an emergency meeting)
- Presentation of certificates by Divisional Head and Deputy Dean Academic
- Participants evaluation – The participants were invited to reflect on what insights they had obtained through their participation in the training. They were also asked to share their opinions on biodiversity data sharing and publishing.

End of training and evaluations

Post training (19 February 2022) – Departure of trainer to Lae

Attachment 2

Glossary

BID = Biodiversity information for Development

CBNP = Centre for Biodiversity and Natural Products

DwC = Darwin Core (often abbreviated as DwC) is a standard that provides terms to use when sharing biodiversity data

FRI = Forest Research Institute

GBIF = Global Biodiversity Information Facility

IPT = Integrated Publishing Toolkit

OpenRefine = is a tool/software (formerly Google Refine) used to clean large messy data and transforms them to other acceptable formats. It behaves like a spreadsheet, and is commonly known as a data wrangler.

Attachment 4

Some photos from the training



Pius Piskaut presenting on challenges of curating biological collections



Some of the participants listening to presentations



Certificate presentation (L – R: Penniel Lamei instructor of the training, Dr Lawong Balun Head of Biological Sciences UPNG, and Beatrix Waiin Deputy Dean Academic, SNPS)



Pius Piskaut with his certificate



Center for Biodiversity and Natural Products
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BID Capacity Enhancement Workshop: Biodiversity Data Mobilization

Information Brochure

February 2022



1. Onsite Workshop: 14-17 February 2022

Draft schedule

This draft schedule is provided to allow participants a sense of the contents planned for the event. It is likely that there will be changes before the final contents of the workshop are fixed.

Monday, 14 February 2022
<p>Module IV: INTRO TO THE ONSITE EVENT <i>This module will enable the participants to get acquainted with each other, with the platforms that we will use during the workshop and with the basic theoretical concepts that will be used across modules.</i></p>
08:30 – Registration
<p>09:00 - Session 1: Welcome and introduction to the workshop</p> <p><i>This session will include a combination of review of the pre-course activities; and participant introductions. an explanation of all the practical information that we will need during the course; a</i></p>
<p>09:45 - Session 2: Foundations for the course</p> <p><i>During this session we will have the opportunity to review the contents planned for the course and discuss key concepts that we will be using in all modules, in particular about biodiversity digital data management. It will be a theoretical interactive session where students will have the opportunity to contribute with their answers and experiences.</i></p>
10:45 - Coffee/tea break
<p>Module V: PLANNING A DIGITIZATION PROJECT <i>This module will help up to understand the different stages that should be taken into account when planning a digitization project, and how to adapt them to our specific situation.</i></p>
<p>11:00 - Session 3: Digitization project planning: how to decide what to do and when to do it?</p> <p><i>This session will include a theoretical presentation and discussion around the key project planning stages for successfully implementing a digitisation project and how to create a viable workflow. We will cover topics such as: What things should be formally structured at the beginning? What can be left wait and see? Who needs to know what and when?</i></p>
12:00 - Lunch break
<p>13:30 - Session 4: Digitization planning practical exercise: Will it work?</p> <p><i>Practical role-play group session. Using the methods discussed in Session 3 groups will be tasked to create an actual executable project plan/work-flow. Each member of the group will be assigned a stakeholder role and members will work together to create a workflow for a BID-like small digitisation project. These will then be presented to the whole group for discussion of commonalities and differences.</i></p>



15:00 - Coffee/tea break

15:30 - [Session 5](#): Digitization planning practical exercise: Suggested solution and discussion

Module VI: BIODIVERSITY DATA DIGITIZATION

This theoretical/practical module will help identifying the type of data each participant is working with, and how to best digitize relevant information using best practices and existing tools and techniques.

16:00 - [Session 6](#): Introduction to Darwin Core

During this session, participants will be introduced to the Darwin Core standard and it's components which be used throughout the remainder of the course.

17:00 - End of the day

Tuesday, 15 February 2022

Module VI: BIODIVERSITY DATA DIGITIZATION CONTINUED

This theoretical/practical module will help identifying the type of data each participant is working with, and how to best digitize relevant information using best practices and existing tools and techniques.

09:00 - [Session 7](#): Biodiversity Data Types: With which kind of data are we working?

Practical session to identify which kind of data people are dealing with and useful information to digitize in priority. Includes group discussions and roleplays to familiarize with different kinds of data (collections, observations, sample-based, taxonomic, possibly pictures) and how to best share the related information.

10:30 - Coffee/tea break

11:00 - [Session 8](#): Principles of data management in digitization

Theoretical and practical session focused on best practices and data quality principles in the context of data digitization. Includes a short presentation on data quality and coherence (especially on subjects like georeferencing, dates, names and taxa cross-checking), followed by a group discussion on good practices and a practical exercise using simple spreadsheets.

12:00 - Lunch break

Module VII: DATA CURATION, FORMATTING & TRANSFORMATION

This mainly practical module will help with the basic tools and concepts used for data validation and cleaning, and how data can be converted into Darwin Core.

13:30 - [Session 9](#): Basic concepts of data cleaning

The first part of this session will enable the participants to get familiarized with the main concepts of data cleaning, related tools, and best practices in the curation process. The second part will consist in a theoretical/practical exercise with examples of technical and consistency validation checks.



15:00 - Coffee/tea break

15:30- [Session 10](#): Use of OpenRefine

Practical/theoretical session focused on OpenRefine as an easy tool to improve the quality of biodiversity datasets by using the default features, existing web services and regular expressions.

17:00 - End of the day

Wednesday, 16 February 2022

Module VII: DATA CURATION, FORMATTING & TRANSFORMATION CONTINUED

This mainly practical module will help with the basic tools and concepts used for data validation and cleaning, and how data can be converted into Darwin Core.

09:00 - [Session 11](#): Other data management tools

Practical/theoretical session focused on easy to use tools to validate and clean datasets in three main categories: nomenclatural, format, and geographical.

10:30 - Coffee/tea break

Module VIII: DATA PUBLISHING USING IPT

This module focuses on the process of making biodiversity data freely available online, also known as publishing the data online. We will use the main tool that GBIF makes available for this purpose: the Integrated Publishing Toolkit (IPT).

11:00 - [Session 12a](#): Videos on Data publishing concepts and introduction to the IPT

Presentation and discussion on subjects such as licenses, metadata, mandatory fields, hosting of data sets of different institutions on the same IPT installation, etc. Presentation and demonstration covering the basics of publishing using the IPT tool (principles, user interface, workflow, metadata, dataset visibility, etc). Additional demonstration and discussion covering IPT features and publication of a complex, sample-based dataset where emphasis will be put on the use of extensions and the core/extension relationship.

12:00 - Lunch break

13:30 - [Session 12b](#): Videos on Data publishing concepts and introduction to the IPT

15:00 - Coffee/tea break

15:30 - [Session 12c](#): Videos on Data publishing concepts and introduction to the IPT

17:00 - End of the day



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Thursday, 17 February 2022

Module IX: FREE PRACTICE

This modules will feature free practice sessions where the students will have the opportunity to practice using examples provided by the organizers, or using their own examples and datasets. A focus will be suggested for each session but the participants will have the option to choose where to concentrate their efforts based on their skills and needs.

09:00 - [Session 13](#): Practical session

The students will perform hands-on exercises comprised of techniques learned during the course on data digitization, data management, and data publishing.

10:30 - Coffee/tea break

11:00 - [Session 14](#): Practical session continued

Module X: EVALUATION

Last module of the onsite workshop where we will review the contents covered, evaluate it, and discuss follow-ups.

11:30 - [Session 15](#): Summary of the course and evaluation of the onsite event.

During this session we will review the contents covered by the onsite workshop, and the participants will have the opportunity to provide feedback via an evaluation session. We will also discuss the follow-up activities after the onsite workshop, in particular everything connected with the assessment of the participants and the certification process.

12:00 - Lunch break

13:30 - End of the training