

Unit 1 – Practice

Objectives of the Practice:

- 1) Familiarization with standards and international guides for “Innovation and Innovation Management”
- 2) Analyzing sections of standards and documents addressing “Innovation Management” aspects
- 3) Presenting a summary of those analyzed documents in a lecture-session. Each Group will present the results of the research and analysis realized in topics/aspects related to “Sustainable Innovation Management”

Topics

- ISO 56000 Innovation management — Fundamentals and vocabulary
- The Measurement of Scientific, Technological and Innovation Activities
 - Oslo Manual 2018 (GUIDELINES FOR COLLECTING, REPORTING AND USING DATA ON INNOVATION)
 - Innovation Radar
 - Hypecycle Examples
- Sustainable Development Goals of the UN. Focus on SDG#9 (<https://www.un.org/sustainabledevelopment/infrastructure-industrialization/>)
- Trustworthy AI, Open Science and FAIR Guidelines

Source Material (standards, other documents, and associated links to official EU-/UN-Pages))

- 1) The necessary baseline material is distributed by the professor.
- 2) Students are requested to complement that material with complementary bibliography, if necessary.

Distribution of Tasks among students

Group 1: Overview of Diagrams with HypeCycle about current Key Enabling Technologies, e.g., AI, Augmented/Virtual reality, Digital Twins, Autonomic Vehicles, etc.

Group of maximum 2 members

Members:

Date of Exposition: 27.10.2025 (90 Minutes)

Group 2: ISO 56000, Chapters 1-2-3 and “Concept Diagram”

Group of maximum 2 members

Members:

Date of Exposition: 03.11.2025 (90 Minutes)

Group 3: ISO 56000, Chapter 4 (without 4.2.6 and 4.2.7: Topics related to “Innovation Management System”)

Group of maximum 2 members

Members:

Date of Exposition: 17.11.2025 (90 minutes)

Group 4: ISO 56000 (Chapter 4, Sections 4.2.6 and 4.2.7) and ISO 56002 (Innovation Management System)

Group of maximum 2 members

Members:

Date of Exposition: 17.11.2025 (90 minutes)

Group 5: Innovation Radar

Group of maximum 2 members

Members:

Date of exposition: 24.11.2025 (90 minutes)

Group 6: Overview of Strategic Research and Innovation Agendas. Overview of EU CALL FOR PROJECT PROPOSALS

Group of maximum 2 members

Members:

Date of exposition: 24.11.2025 (90 minutes)

Group 7: Oslo Manual, Chapter #2, Sections 2.1 and 2.2

Group of maximum 2 members

Members:

Date of exposition: 01.12.2025 (45 minutes)

Group 8: Oslo Manual, Chapter #2, Sections 2.5 and 2.6 and Chapter 4

Group of maximum 2 members

Members:

Date of exposition: 01.12.2025 (45 minutes)

Group 9: Oslo Manual, Chapter #3

Group of maximum 2 members

Members:

Date of exposition: 01.12.2025 (45 minutes)

Group 10: Oslo Manual, Overview of 2.3 and 2.4. Chapter #4

Group of maximum 2 members

Members:

Date of exposition: 08.12.2025 (90 minutes)

Group 11: Oslo Manual, Chapter #5

Group of maximum 1 member

Members:

Date of exposition: 08.12.2025 (45 minutes)

Group 12: Oslo Manual, Chapter #6 and Chapter 7

Group of maximum 2 members

Members:

Date of exposition: 08.12.2025 (45 minutes)

Group 13: Unit #1 Sustainable Development Goals (SDGs) of the United Nations / Major Focus on SDG#9

Group of maximum 1 member

Members:

Date of exposition: 15.12.2025 (45 minutes)

Group 14: Trustworthy Artificial Intelligence / Ethic and Open Science Data Management

Group of maximum 1 member

Members:

Date of exposition: 15.12.2025 (45 minutes)

25 ENROLLED STUDENTS on October 13th 2025

Only those Students that have performed at least one of the Practices, preparing and doing a presentation will be authorized to do the FINAL EXAMINATION of this Module

Guidelines for preparing the presentations

- 1) Each group consists of x students. Note:
- 2) For all text appearing on the slides, please, use Wording-size 16-18 points.
- 3) For example, for a 45 Minutes presentation don't go over 35 slides (maximum)
This means, 75% of the "time in minutes" should be approximately the number of slides.
- 4) Each Slide is having Slide Number, Name/s of the Speaker, Title of the presentation.
- 5) As speaker, PLEASE, don't read the text that you have put on your slides. The audience is reading and trying to hear your presentation, but NONE can read something and hear from another person the same text that is read.
- 6) Since you are presenting pieces of a Standard (of a document), use colors or any other form of highlighting some wording of the text that needs to be more discussed.
- 7) The last two slides from each group should provide (i) a summary of the most important topics / definitions / concepts addressed in your presentation (ii) major questions for being processed by the audience.
- 8) Each group provides a LATEST Complementary Slide with the set of References to the background used for preparing the presentation.
- 9) Remark: If some of the groups need complementary documentation (e.g. references found in the standard documents), ask for them / search for them / let me know if I can help finding such complementary bibliographic material.