

SPS/08 8012219, 2nd Semester 2025/26: Research Policy (6 CFU) 42 ore

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Program

RESEARCH POLICY (L-16)

Questo corso offre una panoramica sulla globalizzazione della scienza, della tecnologia e dell'innovazione, comprese le tendenze globali nel modo in cui la conoscenza viene prodotta e distribuita, lo sviluppo delle istituzioni e la politica globale. Mostra come il cambiamento tecnologico e l'innovazione siano influenzati dal ruolo dei paesi emergenti nella generazione di conoscenze scientifiche e tecnologiche e dalle multinazionali, e come le riforme in materia di diritti di proprietà intellettuale e commercio mondiale siano state influenzate dai flussi sempre più internazionali di conoscenza, tecnologia e innovazione. Affronta le principali tendenze della politica globale, tra cui un significativo spostamento verso la ricerca scientifica privata, il cambiamento nella distribuzione delle conoscenze scientifiche e tecniche e una maggiore consapevolezza da parte dei responsabili politici dell'impatto economico e tecnologico dell'attività scientifica. Il corso si concentrerà sulla definizione di un programma di ricerca che fornisca raccomandazioni alle agenzie di finanziamento su argomenti poco studiati e altamente rilevanti, e fornirà anche linee guida per l'ottimizzazione degli sforzi di ricerca al fine di evitare sovrapposizioni e, ove possibile, colmare le lacune nello spettro globale e nelle iniziative nazionali. Il corso riunisce le principali intuizioni concettuali alla base dell'impegno dell'Europa verso un programma di ricerca che attui l'innovazione aperta, la scienza aperta e l'apertura al mondo, ed evidenzia le azioni già in corso o in fase di preparazione. Un programma strategico di ricerca e innovazione affronta questioni quali: come trarre vantaggio e accedere alle conoscenze e alle competenze disponibili? Come promuovere l'accumulo di conoscenze e competenze? E come colmare le lacune nelle conoscenze? La seconda parte del corso fornirà un'analisi approfondita delle infrastrutture di ricerca europee con un impatto globale nei settori dei dati, dell'energia, dell'ambiente, della salute e dell'alimentazione, delle scienze fisiche e dell'ingegneria, nonché dell'innovazione sociale e culturale.

This course provides an overview of the globalization of science, technology, and innovation, including global trends in the way knowledge is produced and distributed, the development of institutions, and global policy. It shows how technological change and innovation are shaped by the role of emerging countries in the generation of science and technological knowledge, and transnational corporations, and how reforms in intellectual property rights and world trade have been affected by the increasingly international flows of knowledge, technology, and innovation. It addresses major trends in global policy, including a significant shift toward private scientific research, the change in the distribution of science and technical knowledge, and a heightened awareness among policymakers of the economic and technological impact of scientific activity. The course will focus on setting a research agenda, which provides recommendations for funding agencies regarding under-researched and highly relevant topics, it also provides roadmaps for the optimization of research efforts to avoid overlapping, and, where possible, to close the gaps in the global spectrum and national initiatives. The course brings together key conceptual insights behind Europe's commitment to a research agenda that implements Open Innovation, Open Science and Open to the World and highlights actions that are already taking place or are being prepared. A Strategic Research and Innovation Agenda addresses questions such as: How to benefit from and get access to available knowledge and expertise? How to promote the accumulation of knowledge and expertise? and how to address gaps in knowledge? The second part of course will provide an extensive analysis of European research infrastructures with a global impact in the domains of Data, Energy, Environment, Health & Food, Physical Sciences & Engineering, and Social & Cultural Innovation. **Prerequisites:** Since these are fundamentals, prior knowledge of research policy and innovation economics is not required.

Objectives

KNOWLEDGE: (1) Knowledge of logic and philosophy of science; (2) Ability to establish connections between determinations of thought, regions, and timeframes; (3) Hermeneutical skills; (4) Awareness of the problems related to the historiographical methodology.

SKILLS: (1) Ability to analyze sources; (2) Ability to apply the theoretical and methodological tools that enable autonomy of research, critical reflection and understanding; (3) Ability to produce an organic and systematic overview; (4) Ability to manage and interpret historical-bibliographic sources autonomously and to identify connections between different phases of economic and cultural processes.

AUTONOMY: (1) Ability to formulate an independent critical judgment on economic and cultural issues; (2) Ability to autonomously manage and interpret historical-bibliographic sources and to identify connections between different phases of economic and cultural processes.

COMMUNICATION: (1) Ability to communicate, share and disseminate information, ideas, problems and solutions with specialists and non-specialists.

LEARNING: (1) Ability to autonomously process research paths; (2) Ability to master interdisciplinary dialogue; (3) Ability to carry out research work independently.

Exams

General. Come to class prepared. This means read and think about the text carefully before each class. Reading the text in preparation for class is not optional. It is required. Reading assignments will be evaluated. Attendance is required and will be checked on a daily basis. Attendance counts toward the assessment of the final grade in the following way. Four absences will be tolerated without academic penalty; each absence after the fourth will result in a reduction of one point of the total of 30 points for the course up until the tenth absence, which results in failure for the course. A maximum of nine absences will be allowed without failure for the course. **Papers.** One seminar presentation during the course-weeks and one term paper due on 8 May 2026, are required for the course. **Note.** Correct format, grammar, and spelling comprise part of all grades. Unethical practices, such as plagiarism in papers or cheating on exams, will result in failure for the course.

GRADING

Attending students:

Final grades will be determined as follows:

40% Research Design Paper
40% Research Design Presentation
20% Participation

Non-Attending Students:

30% Research Design Paper
70% Oral Exam

Reading assignments will be evaluated. Attendance is required and will be checked on a daily basis. Non-attending students can refer to the aforementioned material and to the slides available on the webpage of the course. We highly recommend discussing with Prof Pozzo the topic chosen for the research design well ahead of the exam and before starting to write the Research Design Paper. The Oral exam will assess if the student has acquired the relevant skills and understood the methods to write (plan) a research project. Rather than being simply a question-and-answer exam we will try to “build” the research project during the exam.

If you miss more than 20% of the classes (i.e. 4 lectures) you will be labeled as a Non-attending

Student Research Design Paper, Presentation: At the end of the semester, you will write a research design paper based on an anticipated research project. Part of this paper will include drafting a data collection instrument that uses at least one of the methods learned in the course. You will present the research design during the last week of the course.

Deadlines:

- **Research Design Abstract due via e-mail: around 10 days before the presentation week (exact date will be announced in class)**
- **Research Design Presentations: 20 March to 22 April 2026**
- **Research Design Paper: 8 May 2026**

Participation

You are expected to attend all course sessions. This is your opportunity to ask questions, discuss reading and other course material, and engage in activities that will deepen your understanding of course topics. Your participation grade will be based on: 1) attendance; and 2) the quality of your participation, including demonstrating you have thoughtfully completed the reading. We expect students to come prepared, and to be respectful, attentive, and actively engaged. In classroom discussions and activities are an integral part of this course, intended to be additional learning opportunities. If you must be absent at any point, please notify me via email as soon as possible, ideally before that course session begins.

Grade Determination:

Writing and public speaking are essential to success in many careers. Students will be held to professional standards. Students should not submit first drafts and should carefully proofread all work. The following factors will be considered in evaluating student assignments:

- **Content:** Responds to the assignment’s questions. Develops and supports a central thesis. Provides a focused argument throughout the essay/talk.
- **Clarity and Presentation:** Writes/speaks clearly by: developing a coherent, well- organized argument; arranging sentences in a logical and coherent manner; using correct punctuation, spelling, and grammar; and providing correct citations in the APA format.
- **Comprehensiveness:** Reviews the relevant literature and material, shows an in-depth understanding of the topic, and critiques differing points of view on the topic.
- **Creativity:** Draws the reader/listener in and engages him/her in the topic. Makes an original contribution to the topic. Presents material in an interesting and unique way that elucidates the ideas.
- **Accuracy:** Free of obvious errors. All facts are derived from assigned course material and properly cited.

Schedule and Reading Assignments

1-Wed., Mar. 4, 2026, 9:00-11:00 S6	Introduction to Research Policy (slides)
2-Thu., Mar. 5, 2026, 14:00-16:00 P12	Introduction to Innovation Economics (slides)
3-Thu., Mar. 12, 2026, 11:00-13:00 S6	Research Agenda (Kingdon, ch. 1, p. 1-20)
4-Fri., Mar. 13, 2026, 14:00-16:00 S6	Inside of Government (Kingdon, ch. 2, p. 21-44)
5-Tue., Mar. 17, 2026, 9:00-11:00 S6	Outside of Government (Kingdon, ch. 3, p. 45-70)
6-Fri., Mar. 20, 2026, 14:00-16:00 S6	Policy Window (Kingdon, ch. 3, p. 165-195)
7-Tue., Mar. 24, 2026, 9:00-11:00 S6	Open Innovation (EU-RTD, ch. 1, p. 11-30)
8-Fri., Mar. 27, 2026, 14:00-16:00 S6	Open Science (EU-RTD, ch. 2, p. 33-55)
9-Tue., Mar. 31, 2026, 9:00-11:00 S6	Open to the World (EU-RTD, ch. 2, p. 59-79)
10-Fri., Apr. 3, 2026, 11:00-13:00 S1	Research Infrastructures Policy (ESFRI, part 1, p. 7-31)
11-Thu., Apr. 9, 2026, 11:00-13:00 S6	Landscape Analysis of Domains (ESFRI, part 2, p. 37-114)
12-Fri., Apr. 10, 2026, 11:00-13:00 S6	Data (ESFRI, part 2, p. 41-47)
13-Mon., Apr. 13, 2026, 11:00-13:00 S6	Energy (ESFRI, part 2, p. 49-60)
14-Tue., Apr. 14, 2026, 9:00-11:00 S6	Environment (ESFRI, part 2, p. 63-65)
15-Fri., Apr. 17, 2026, 9:00-11:00 S6	Health & Food (ESFRI, part 2, p. 77-87)
16-Mon., Apr. 20, 2026, 14:00-16:00 S6	Physical Sciences & Engineering (ESFRI, part 2, p. 89-103)
17-Wed., Apr. 22, 2026, 11:00-13:00 S6	Social & Cultural Innovation (ESFRI, part 2, p. 105-114)
18-Thu., Apr. 23, 2026, 9:00-11:00 S6	Humanities (ESFRI, part 2, p. 111-112, 185-190)
19-Mon. Apr. 27, 2026, 14:00-16:00 S6	Social Sciences (ESFRI, part 2, p. 112, 229-233)

20-Wed., Apr. 29, 2026, 11:00-13:00 S6
21-Mon., May 4, 2026, 11:00-13:00 S6

Big data (ESFRI, part 2, p. 112-115, p. 193)
Conclusion (ESFRI, p. 149-161)

References

MANDATORY (all open access)

European Commission Directorate-General for Research and Innovation (2015): *Open Innovation, Open Science, Open to the World – A Vision for Europe*, Luxembourg: Publication Office of the European Union. DOI [10.2777/061652](https://doi.org/10.2777/061652).

European Strategy Forum Research Infrastructures (2021): *Strategy Report Research Infrastructures: Roadmap 2021*. Brussels: Science and Technology Facilities Council. ISBN [978-88-943243-6-5](https://www.sciencedirect.com/book/9788894324365).

Kingdon, John W. (2014): *Agenda, Alternatives, and Public Policies* (2nd ed.). Harlow: Pearson. ISBN [978-1-269-37450-6](https://www.pearson.com/9781269374506).

OPTIONAL You will not be asked to read the book (all open access) in its entirety. You will be asked instead to select an argument of your choice and prepare a report.

Archibugi, Daniele/Filippetti, Andrea (2015): *The Handbook of Global Science, Technology, and Innovation*. London: Wiley. DOI: [10.1002/9781118739044](https://doi.org/10.1002/9781118739044).

Chesbrough, Herbert W. (2003): *Open Innovation: The New Imperative for Creating and Profiting from Technology*. Cambridge, Mass.: Harvard University Press. ISBN [1-57851-837-7](https://www.harvard.edu/9780674019088).

European Commission Directorate-General for Research and Innovation (2015): *Bridge over Troubled Waters? The Link between European Historical Heritage and the Future of European Integration: Insights from Social Sciences and Humanities Research on Reflective Societies*. Luxembourg: Publication Office of the European Union. DOI [10.2777/534076](https://doi.org/10.2777/534076).

Pozzo, Riccardo (2021): *History of Philosophy and the Reflective Society*. Berlin/Boston: De Gruyter. DOI [10.1515/9783110709292](https://doi.org/10.1515/9783110709292).

Pozzo, Riccardo/Boubtane, Ekrame/d'Albis, Hippolyte/Greco Tonegutti, Raffaella/Paravati, Claudio (2022) "A Future Agenda for Migration Studies," in *Introduction to Migration Studies: An Interactive Guide to the Literatures on Migration and Migration-related Diversities*, ed. Peter Scholten (Cham: Springer), 483-500. DOI: [10.1007/978-3-030-92377-8_29](https://doi.org/10.1007/978-3-030-92377-8_29).

Caussé, Alexandre/Cazenave, Élodie/Giry-Deloison, Charles/Gâman, Miruna/Grano, Marica/Heritage, Alison/Liévaux, Pascal/Spini, Lucilla/Virgili, Vania/Warren, Katherine/ Zoppo, Giuseppe (2025): *ARCHE Strategic Research and Innovation Agenda and Its Synthesis* (Paris: Heritage Research Alliance, 2025), 92 p. <https://www.heritageresearch-hub.eu/app/uploads/2025/06/ARCHE-D2.6-ARCHE-SRIA-and-its-Synthesis.pdf>.