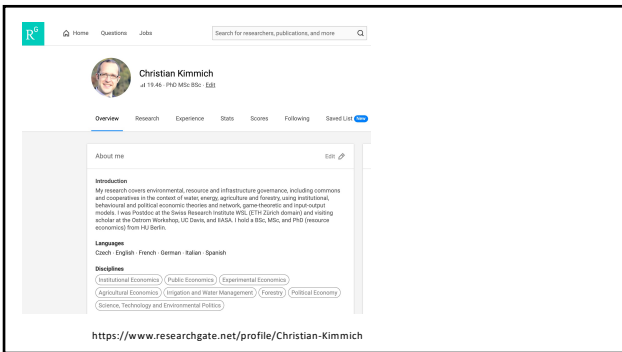


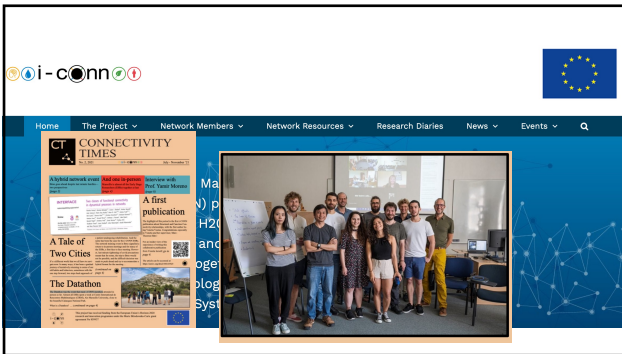
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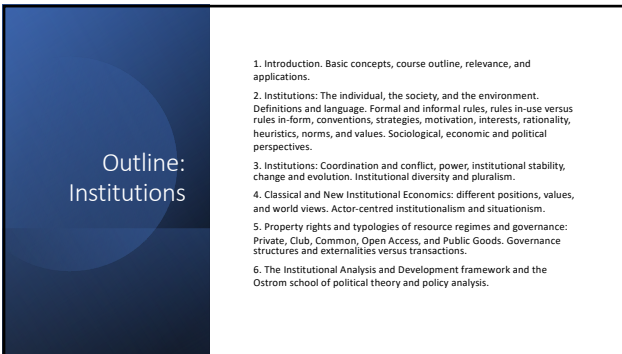
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Outline: Resources

8. Resource Economics: The use and limitations of models. Stocks, flows, and funds. Exponential and logistic growth, Gordon-Schaefer models. Renewable and non-renewable resources: water, energy, land and climate change in agriculture, forestry, and fisheries.

9. Ecological Resource Economics: towards an intuition of complex system dynamics. Lotka-Volterra models, steady states, stability, tipping points, thresholds, leverage points, resilience and collapse.

10. Applications and methods of Institutional and Resource Economics: Selected cases on exploitation, degradation, erosion, and conservation in agriculture, forestry, and fisheries. Methodological reflection and interactive debate.

11. Group work presentation and discussion on applications selected by the students.

12. Towards Social-Ecological Systems and Sustainability Transformations.

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Timeline	Date	
	18.2.	Institutions
	25.2.	Institutions II
	4.3.	Classical Institutionalism and New Institutional Economics
	11.3.	Property rights and resource regimes, Commons
	18.3.	Doughnut Economics: From Planetary Boundaries to thinking how an economy can be regenerative by design (Claudio Cattaneo)
	25.3.	Application of the doughnut at the city scale with Barcelona as an example (Claudio Cattaneo)
	1.4.	Ecological Resource Economics
	8.4.	Applications: water, forests, fisheries
	15.4.	<Great Friday>
	22.4.	The Water-Energy-Food Nexus in India
	29.4.	Q&A, discussion
	6.5.	Presentations I
	13.5.	Presentations II
	20.5.	Debate, Open Space, Experiment

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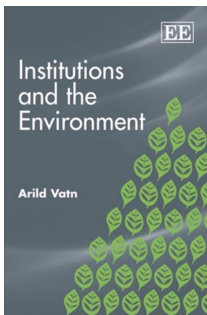


➤ Institutions as “rules of the game“ (Douglas North)

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“The real problem of humanity is the following:
we have Palaeolithic emotions; **medieval institutions**; and god-
like technology”
(sociobiologist E.O. Wilson, interview in 2009)

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ELINOR OSTROM
2009 Nobel Laureate
in Economic Sciences


Elinor Ostrom received the 2009 Nobel Memorial Prize in Economic Sciences
"for her analysis of economic governance, especially the commons"

She entitled her Nobel Address
"The Polycentric Governance of Complex Economic Systems"

Available here:
<https://www.youtube.com/watch?v=T6OzRkH5SgM>

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ELINOR OSTROM
2009 Nobel Laureate
in Economic Sciences

A short introduction to her work:
<https://vimeo.com/121608252>

A full-length documentary:
<https://polisci.indiana.edu/news-events/news/2020-ostrom-documentary-barbara-allen.html>

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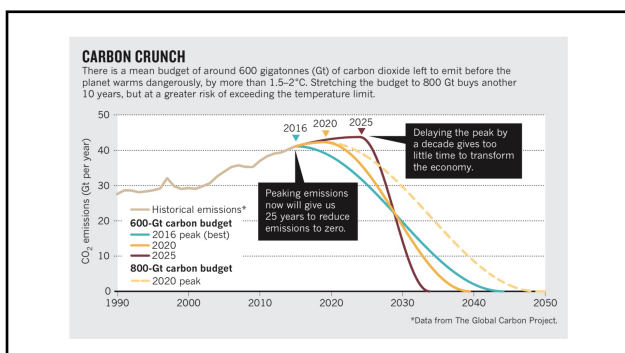
THE ECONOMICS OF THE ENVIRONMENT AND NATURAL RESOURCES

R. QUINCY GRAFTON, WITOR ADAMOWICZ, DIANE DUPONT, HARRY NELSON, ROBERT J. HILL, AND STEVEN RENZETTI

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Your background?
 Environmental Studies, International Relations, other?

Your interests
 Lifestyles & institutions, sovereignty, degrowth, philosophical aspects, ..

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22 INTERVIEW TELEVISION 25/2012/E

Learning enthusiastically

A conversation with Prof. Dr. Gerald Hüther*

How do people learn?
 Generally speaking, we think "learning" means cognitive, formal learning. We tend to associate "learning" with a school-like, organized society. Picture yourself how you felt as a small child when, after trying many times, you eventually managed to haul yourself up by the...

You mention the "power of inner images" in your publications. What are inner images?
 As a biologist I am naturally excited

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Course requirements

- **Essay / short paper** (2000-2500 words): 25%
- **Presentation** (15min + 15min discussion): 25%
- **Oral exam** (based on essay & presentation): 50%

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