

Institutional and Resource Economics

ENSn4669

1

The screenshot displays the i-conn website interface. At the top left is the i-conn logo, and at the top right is the European Union flag. A dark blue navigation bar contains the following menu items: Home, The Project, Network Members, Network Resources, Research Diaries, News, and Events, along with a search icon. Below the navigation bar, the main content area features a news section on the left with several article teasers: 'A hybrid network event', 'And one in-person', 'Interview with Prof. Yamir Moreno', 'A first publication', 'A Tale of Two Cities', and 'The Datathon'. On the right side of the news section is a large group photograph of approximately ten people standing in a meeting room with a whiteboard and a projector screen in the background.


2

The screenshot shows the top section of the i-conn website. On the left is the i-conn logo, which consists of four circular icons (a lightbulb, a water drop, a leaf, and a person) followed by the text 'i-conn'. On the right is the European Union flag. Below these is a dark navigation bar with the following items: Home, The Project (with a dropdown arrow), Network Members (with a dropdown arrow), Network Resources (with a dropdown arrow), Research Diaries, News (with a dropdown arrow), Events (with a dropdown arrow), and a search icon. The main banner has a blue background with a white network diagram. The text in the banner reads: "We are a Marie Skłodowska-Curie Innovative Training Network (ITN) project funded by the European Commission, under their H2020 programme. The network consists of 10 Universities and three partner organisations across Europe, and brings together scientists from Astrophysics, Computer Science, Ecology, Geomorphology, Hydrology, Neuroscience, Systems Biology and Social Science."

3

The screenshot shows the profile page for Dr. Christian Kimmich on the IHS website. At the top left is the IHS logo (a stylized 'IHS' in a circle) and the text "INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna". To the right is a search bar with the placeholder text "Your search phrase" and a search icon. Below the header is a dark red navigation bar with the following items: About, Research, People (highlighted), Events, and Publications. Below the navigation bar is a breadcrumb trail: "Home > People". On the left side, there is a vertical menu with the following items: "IHS - People" (highlighted), "Spotlight", "Fellows", and "Archive". The main content area features a profile for Dr. Christian Kimmich, MSc., with the following details: "Regional Science and Environmental Research", phone number "+43 1 59991 - 213", and email "kimmich(at)ihs.ac.at". To the right of the text is a portrait photo of Dr. Kimmich. Below the profile information is a section titled "LIST OF PUBLICATIONS". At the bottom of the page, there is a detailed biography of Dr. Kimmich, mentioning his education at Humboldt Universität zu Berlin, his work at the Leibniz Institute ATB Potsdam, the Office of Technology Assessment at the German Parliament, the Swiss Federal Research Institute WSL, and his current roles as a visiting scholar at Indiana University, UC Davis, and the TWI Lakelab at the University of Konstanz, as well as his affiliations with Masaryk University Brno and the Workshop in Institutional Analysis of Social-Ecological Systems (WINS) at HU Berlin and IIASA, Laxenburg.

4



Christian Kimmich ✎

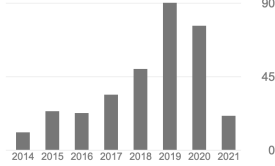
Institute for Advanced Studies Vienna and Masaryk University Brno
 Bestätigte E-Mail-Adresse bei ihs.ac.at

[Social-Ecological Systems](#) [Institutions](#) [Human Behavior](#) [Political Economy](#) [Expectations](#)

✉ FOLGEN AKTIV

Zitiert von ALLE ANZEIGEN

	Alle	Seit 2016
Zitate	357	297
h-index	10	9
i10-index	10	9




Koautoren BEARBEITEN

- [Sergio Villamayor-Tomas](#)
ICTA, Autonomous University of ...
- [Julian Sagebiel](#)
Technische Universität Berlin
- [Graham Epstein](#)
University of Waterloo
- [Philipp Grundmann](#)
Leibniz Institute for Agricultural E...
- [Christoph Oberlack](#)
University of Bam, Centre for De...
- [David Manuel-Navarrete](#)
Associate Professor, School of S...

TITEL	ZITIERT VON	JAHR
<input type="checkbox"/> The water-energy-food security nexus through the lenses of the value chain and the institutional analysis and development frameworks S Villamayor-Tomas, P Grundmann, G Epstein, T Evans, C Kimmich Water Alternatives 8 (1), 735-755	91	2015
<input type="checkbox"/> Linking action situations: Coordination, conflicts, and evolution in electricity provision for irrigation in Andhra Pradesh, India C Kimmich Ecological Economics 90, 150-158	46	2013
<input type="checkbox"/> Archetype analysis in sustainability research C Oberlack, D Sietz, EB Bonanomi, A De Bremond, J Dell'Angelo, ... Ecology and Society 24 (2)	41	2019
<input type="checkbox"/> Design and quality criteria for archetype analysis K Eisenack, S Villamayor-Tomas, G Epstein, C Kimmich, N Magliocca, ... Ecology and Society 24 (3)	25	2019
<input type="checkbox"/> Theoretische Zugänge eines Wachstumszwangs in der Geldwirtschaft F Wenzlaff, C Kimmich, O Richters DEU 45, 58	20	2014
<input type="checkbox"/> Coping with power scarcity in an emerging megacity: a consumers' perspective from Hyderabad M Hanisch, C Kimmich, J Rommel, J Sagebiel International journal of global energy issues 33 (3-4), 189-204	18	2010
<input type="checkbox"/> Incentives for energy-efficient irrigation: Empirical evidence of technology adoption in Andhra Pradesh, India C Kimmich	17	2013

5

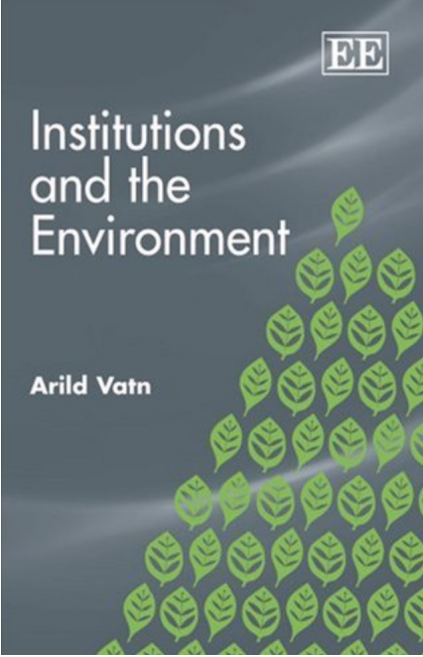


➤ Institutions as “rules of the game“ (Douglas North)

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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 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=T6OgRki5SgM>

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A short introduction to her work:

<https://vimeo.com/121608252>

A full-length documentary:

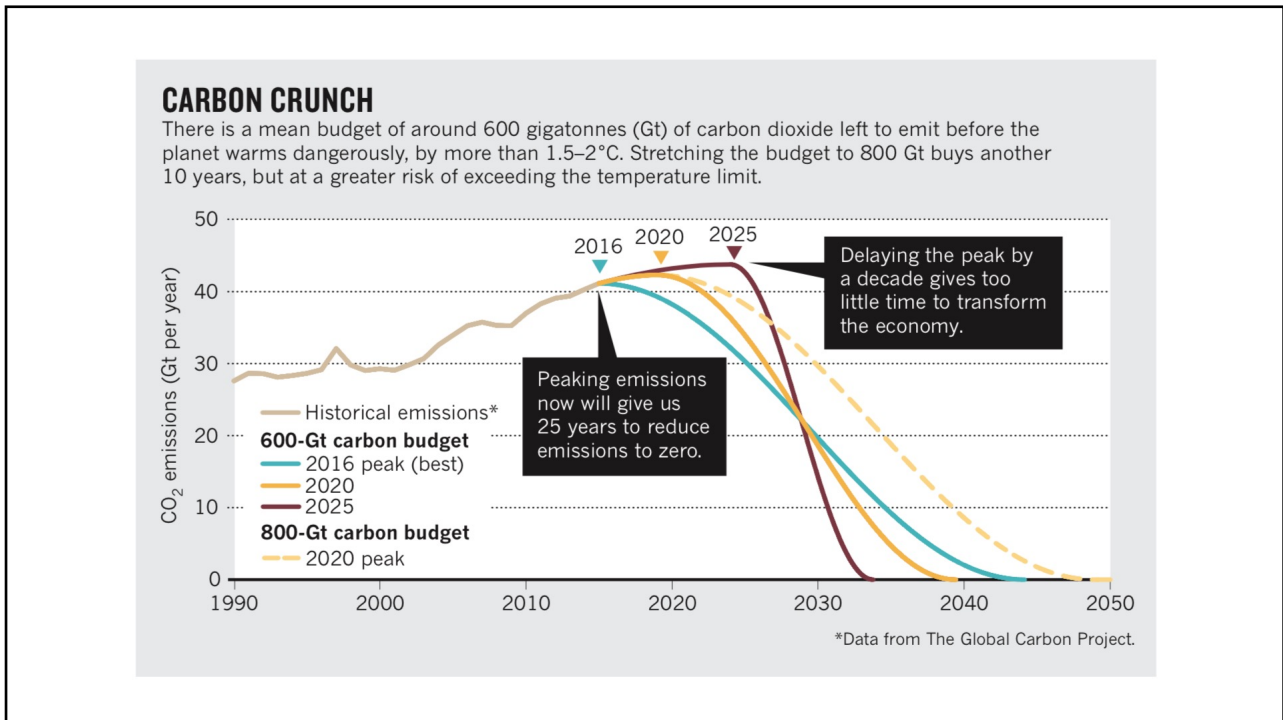
<https://polisci.indiana.edu/news-events/news/2020-ostrom-documentary-barbara-allen.html>



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THE ECONOMICS OF THE ENVIRONMENT AND NATURAL RESOURCES



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Outline: Institutions

1. Introduction. Basic concepts, course outline, relevance, and applications.
2. Institutions: The individual, the society, and the environment. Definitions and language. Formal and informal rules, rules in-use versus rules in-form, conventions, strategies, motivation, interests, rationality, heuristics, norms, and values. Sociological, economic and political perspectives.
3. Institutions: Coordination and conflict, power, institutional stability, change and evolution. Institutional diversity and pluralism.
4. Classical and New Institutional Economics: different positions, values, and world views. Actor-centred institutionalism and situationism.
5. Property rights and typologies of resource regimes and governance: Private, Club, Common, Open Access, and Public Goods. Governance structures and externalities versus transactions.
6. The Institutional Analysis and Development framework and the Ostrom school of political theory and policy analysis.

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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		
	17.2.	Course introduction / Institutions	
	24.2.	Institutions II	
	3.3.	Classical Institutionalism and New Institutional Economics, Property rights and resource regimes, Commons	
	10.3.	Doughnut Economics: From Planetary Boundaries to thinking how an economy can be regenerative by design (Claudio Cattaneo)	
	17.3.	Application of the doughnut at the city scale (Claudio Cattaneo)	
	24.3.	Barcelona as an example (Claudio Cattaneo)	
	31.3.	Ecological Resource Economics	
	7.4.	<Great Friday>	
	14.4.	Applications: water, forests, fisheries	
	21.4.	Q&A, discussion of your assignments	
	28.4.	Case study: The Water–Energy–Food Nexus in India	
	5.5.	Presentations I	
	12.5.	Presentations II and Debate, Open Space, Experiment (4 hrs)	
	19.5.	<Off>	


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Claudio Cattaneo –PhD Ecological Economics
Doughnut Economics Consultant, Barcelona















March 10th – Intro to Kate Raworth “[Doughnut Economics- 7 ways to think as a XXIst century economist](#)”
March 17th – The Doughnut Economics Action Lab. [An application of doughnut economics](#) – The case of cities
March 24st – The Barcelona council’s early [process towards doughnut economics](#).

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March 10th: short summary of K.Raworth’s book, with her 7 ways to revert neoclassical economics



Seven ways to think like a 21st century economist

Seven Ways to Think	From 20th-Century Economics	To 21st-Century Economics
1. Change the Goal	 GDP	 the Doughnut
2. See the Big Picture	 self-contained market	 embedded economy
3. Nurture Human Nature	 rational economic man	 social adaptable humans
4. Get Savvy with Systems	 mechanical equilibrium	 dynamic complexity
5. Design to Distribute	 growth will even it up again	 distributive by design
6. Create to Regenerate	 growth will clean it up again	 regenerative by design
7. Be Agnostic about Growth	 growth addicted	 growth agnostic

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Your background?
 Environmental Studies, International Relations, other?

Your interests?

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INTERVIEW

22 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”

ized 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): 50%
- **Presentation** (15min): 25%
- **Oral exam** (15min discussion based on essay & presentation): 25%

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