



Evidence for Policy in Disaster Risk Management (DRM) Summer School 2025

Tallinn, 26-28 May 2026

Class No. 1

Harnessing the economics of disaster risk management and smart investing tools

Class will take place in room M 214 – 2nd floor of the Mare building

Class Coordinator



Francesco LAMPERTI

Professor, Institute of Economics, Scuola Superiore Sant'Anna

Francesco Lamperti is Full Professor at the Institute of Economics, Scuola Superiore Sant'Anna (Pisa) and Scientist at EIEE (Milan). His research interests are mainly focused on macroeconomics, agent based and integrated assessment modelling, climate change economics and dynamics of natural disasters. He holds a Bachelor and a Master of Science in Economics from Bocconi University (Milan) and, in 2016, he obtained a Ph.D. in Economics from Scuola Superiore Sant'Anna (Pisa). In his doctoral thesis, titled "Climate Change and Macroeconomic Dynamics: a Complex System Perspective" he has developed DSK, a global-scale agent-based integrated assessment model. Francesco is

principal investigator of the FIND ERC-funded project, he has been involved in different FP7 and H2020 European projects and has published in a variety of international scientific journals.

Class assistant

Marjana Tosunjan

Speakers



Matteo CORONESE

Assistant Professor, Institute of Economics, Scuola Superiore Sant'Anna

Matteo Coronese is Assistant Professor at the Institute of Economics and the L'EMbeDS Department of Excellence at the Sant'Anna School of Advanced Studies, Italy. He holds a PhD in Economics from Sant'Anna School of Advanced Studies, as well as MSc degrees in Economics and Econometrics. His research focuses on the economic impacts of climate change and natural hazards, with particular attention to income inequality, land-use change, and agriculture. His work combines the analysis of large-scale datasets with the development of agent-based models. Matteo is Principal Investigator of the FIS-funded TRACE project and unit leader in the DS-CHANGES project, and has contributed to several international initiatives, including the EU-funded GROWINPRO and the UK-funded EEIST projects. His works have been published in a variety of international scientific journals.



Zuzana STANTON GEDDES
Senior Disaster Risk Management Specialist – World Bank

Zuzana Stanton-Geddes is a Senior Disaster Risk Management Specialist with the World Bank's Europe and Central Asia region where she has been leading and co-leading regional and country-specific projects in Bulgaria, Croatia, Greece, Iceland, Ireland, Romania, and Ukraine. Zuzana has over 15 years of experience related to urban resilience, critical infrastructure, and post-disaster recovery. Zuzana has led and contributed to several World Bank reports. She holds graduate degrees from Johns Hopkins School of Advanced International Studies (SAIS) and Humboldt University in Berlin, and a bachelor's degree from the University of Cambridge.

Aim(s) of the Class

This class examines how economic analysis and financial instruments can strengthen disaster risk management and climate adaptation strategies. Lectures provide participants with tools to assess trade-offs in prevention and preparedness investments, understand short- versus long-term financial implications, and compare alternative investment pathways under uncertainty. Building on real-world cases, the course explores strategies for designing resilient economies—"preparedness-by-design"—grounded in socio-economic evidence. Group work complements the lectures by fostering collaborative problem-solving, structured dialogue between researchers and policymakers, and the development of communication skills to support evidence-based decision-making.

Recommended readings

World Bank/International Bank for Reconstruction and Development (2021a) Financial Risk and Opportunities to Build Resilience in Europe, Economics for Disaster Risk Prevention and Preparedness - Full report, <https://civil-protection-knowledge-network.europa.eu/economics-disaster-prevention-and-preparedness>

World Bank/International Bank for Reconstruction and Development (2021b) Investment in Disaster Risk Management in Europe Makes Economic Sense - Summary report, <https://civil-protection-knowledge-network.europa.eu/economics-disaster-prevention-and-preparedness>

Reports collected at the EC & WB Economics for Disaster Prevention and Preparedness programme site: <https://civil-protection-knowledge-network.europa.eu/economics-disaster-prevention-and-preparedness>

Hallegatte and Przyluski (2010) The economics of natural disasters: concepts and methods. World Bank Policy Research Working Paper 5507. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=1732386

Botzen, Deschenes and Sanders (2019) The economic impacts of natural disasters: A review of models and empirical studies. Review of Environmental Economics and Policy 13(2), pp. 167-188. <https://www.journals.uchicago.edu/doi/10.1093/reep/rez004>

Waidelich, P., Batibeniz, F., Rising, J., Kikstra, J. S., & Seneviratne, S. I. (2024). Climate damage projections beyond annual temperature. Nature Climate Change, 14(6), 592-599. <https://doi.org/10.1038/s41558-024-01990-8>

Coronese, M., Crippa, F., Lamperti, F., Chiaromonte, F., & Roventini, A. (2025). Raided by the storm: How three decades of thunderstorms shaped US incomes and wages. Journal of Environmental Economics and Management, 130, 103074. <https://doi.org/10.1016/j.jeem.2024.103074>

World Bank. 2025. Germany: The Economic Case for Investing in Disaster Preparedness and Resilience: Summary Report. <https://www.gfdr.org/en/publication/germany-economic-case-investing-disaster-preparedness-and-resilience-summary-report>