

Research Seminar "Quantitative Economics"

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Abstract

The Scope of Scope-3

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Abstract

We propose a novel network-based methodology in order to measure emissions along complex international supply chains (SC). Using international data for about 50,000 firms, we characterize SC-level emissions across countries and industries. Our methodology enables us to run counterfactual experiments and formulate granular forecasts about high-scope emissions with respect to many different scenarios such as maritime disruption, military conflicts, trade wars, revised carbon taxes.