



IAERE

Italian Association of Environmental
and Resource Economists

IAERE10 Tour

2 December 2022, 11:00

Organizer(s): Dipartimento di Economia, Università degli Studi di Perugia

Venue: Room 23 Department of Economics

Speaker: Carlo Andrea Bollino (University of Perugia)

Title: Water Energy Food Nexus: Analysis of Convergence Worldwide.

Authors: Carlo Andrea Bollino (University of Perugia) and Marzio Galeotti (University of Milano)

Abstract:

This paper provides new evidence on the convergence process of energy, water and food per capita consumption levels for 108 countries from 1971 to 2018, constructing a common data set, using the Arellano-Bond estimator. We establish a new notion of multivariate sigma and beta-convergence, estimated jointly a system of equations. The results reveal that there is evidence of conditional sigma-convergence and beta-convergence processes for the countries. The multivariate approach reveals that there are spillover effects with complex positive impact of each variable on the others in the analyzed countries. The speed of convergence is simulated to assess when the desired levels according to the prescription of the SDG of per water, energy and food capita consumption is reached by each country. Results have important policy implications for interventions on macro variables. Investment has a positive accelerating effect on water and energy convergence. In addition, openness to foreign trade and inflow of foreign direct investment have a positive accelerating effect on water and food convergence, respectively.

Online webinar:

IAERE10 TOUR Friday, Dec 2 • 11:00 – 12:00 (GMT+1) Google Meet joining info Video call link:

<https://meet.google.com/uca-qrid-syx>