

DARE25-026 - An Off-the-Shelf Agent-Based Modeling Toolkit for Economic Forecasting and Policy Analysis

Abstract

This project will develop open-source software transforming the methodological framework created by the Viennese Agent Based Modeling team of economists from an expert tool into an accessible application for a broader community of users that includes social scientists and policymakers. We will develop a robust, automated data pipeline interfacing with Eurostat and other public APIs to eliminate manual data gathering, a country-agnostic model template enabling calibration for any European economy within hours rather than weeks, and a complete application with intuitive interfaces for calibration, simulation, forecasting, and policy analysis.

Scientific disciplines:

Macroeconomics (70%) | Mathematical modelling (30%)

Keywords:

Agent based models Macroeconomics Forecasting Policy evaluation

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Status: Contract in preparation

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Further links to the persons involved and to the project can be found under

<https://www.gmbh.wwtf.at/funding/programmes/ei/DARE25-026/>