
0. RESEARCH TEAM



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The research has been conducted from October 2013 to May 2015 by a consortium of four leading research centers and think tanks¹:

CIDOB, Barcelona Centre for International Affairs, is a Catalan think-tank founded in 1973 dedicated to research and divulge contents of the different areas of International Relations, European and Mediterranean politics, Security and Development studies. CIDOB is a **public foundation** with a Board of Trustees that includes among its members the main political institutions and universities of the country.

Istituto di Studi per l'Integrazione dei Sistemi (ISIS, Italy)

ISIS - the Institute of Studies for the Integration of Systems (www.isis-it.com) - is an Italian private research and consulting firm supporting international, national and local public bodies for the analysis, the design, the implementation and the evaluation of sustainable policies in the fields of energy, environment, transport and mobility, urban planning, and knowledge society. For more than four decades ISIS has supplied expertise and solved complex problems for a variety of public and private organisations, and notably for the European Commission. Founded in 1971, ISIS relies on the expertise of a multi-disciplinary team – including engineers, statisticians, experts in information technology, social scientists, and economists – and avails itself of state-of-the-art information technologies, also developing its own interactive and user-friendly software applications. ISIS has extensive experience in the management of and participation in EU funded projects in FP4, FP5, FP6 and FP7, and has a well-established network of alliances currently active in Europe and beyond.

E3-Modelling. Energy, Economy & Environment (E3M, Greece)

E3-Modelling is a research entity offering policy analysis studies and consulting services worldwide. E3-Modelling research team has developed large scale applied models, undertakes policy assessment in the fields of macroeconomic growth, energy system and markets, climate change policy, transport sector and provides services to clients on policy analysis and consulting using the models. The suite of models developed and maintained by E3-Modelling include global and

1. This study has been carry out as a joint research project by CEPS and CIDOB with the participation of ISIS and ICCS according to the Cooperation Agreement between CIDOB and CEPS (Centre for European Policy Studies) signed on November 8th 2013

EU-specific multi-sectoral macroeconomic models, detailed partial equilibrium models for the transport and power generation sectors as well as sector specific models on agriculture, biomass and biofuels. E3-Modelling develops and maintains several sector-specific models. The energy model developed and maintained for all the European Union member-states and all the European countries non-members of the EU is PRIMES. For the transport sector the PRIMES-TREMOVE transport model has been developed and it is maintained for all 28 EU Member States. E3-Modelling researchers developed and maintain the PROMETHEUS world energy model, a stochastic world energy/technology model rich in representation of world oil and gas markets. E3-Modelling develops and operates the GEM-E3 model a multiple-country and multiple-sectors detailed computable general equilibrium model with global coverage which covers the interactions between the economy, energy and the environment. The GEM-E3 model operates in the European Commission and it is the most widely used CGE model in Europe. GEM-E3 model versions have been tailored to region-specific or policy-specific assessment. E3-Modelling has developed and maintains with regular updates a considerable database on the economies represented in the GEM-E3 model including social accounting, bilateral trade, and consumption and investment matrices and energy data. The key personnel of E3-Modelling have assisted institutions in developing their own models and using such models in policy analysis.

Centre for European Policy Studies, CEPS, Belgium. Founded in Brussels in 1983, CEPS is among the most experienced and authoritative think tanks operating in the European Union. Its most distinguishing feature lies in its strong in-house research capacity, complemented by an extensive network of partner institutes throughout the world. CEPS also serves as a leading forum for debate among all stakeholders in the European policy process.

The research team is composed of a group of international economists:

Prof. Rym Ayadi is the research director of the project, Professor at HEC Montreal (since July 2013), Director of the International Research Institute on Cooperatives (<http://institutcoop.hec.ca/en/>) and of the International Research Centre on Cooperative Finance (<http://financecoop.hec.ca/en/>) (since October 2014). She is also President of the Euro-Mediterranean Economists Association (EMEA) (<http://www.euromed-economists.org>). Till October 2014, she was Senior Research Fellow and Head of Research of the Financial Institutions Unit at CEPS. She also served as the Director of MedPro (Mediterranean Prospects), a 3 million€-EU funded consortium to Think Ahead for the Mediterranean and the Euro- Mediterranean Partnership". (www.medpro-foresight.eu).

Carlo Sessa, former President of ISIS, now Research Director – Before joining ISIS in 1983, he has conducted research at NYU, where he worked with Nobel Prize winner Wassily Leontieff. He was the Coordinator of several EU research projects, in the 5th, 6th and 7th Framework Programmes, in the fields of transport, urban issues and environment. In this context, he organised several participatory foresight exercises, involving panels of experts and citizens.

Riccardo Enei graduated in Political Science, has been working in ISIS as researcher since 1990. He is specialised in the field of economic research, environmental impacts and information systems for socio economic data analysis.

Prof. Pantelis Capros is President of E3-Modelling and a Professor of Energy Economics and Operation Research at the Department of Electrical and Computer Engineering of National Technical University of Athens. He has built and used a variety of large-scale mathematical models and has more than 20 years professional experience of consultancy in the domain of energy, transport, environment and economic policy. He has served as consultant to the European Commission, several European Governments and energy companies. He has built and used a variety of large-scale mathematical models. He has widely published (more than 100 publications) in the areas of Energy Modelling, Macroeconomics, Operations Research and Mathematical Programming.

Dr. Leonidas Paroussos is managing director of E3-Modelling. He has extensive experience in the development and use of large scale applied models and applied research focusing in the fields of economy, energy and the environment. He has extensive experience in modelling, particularly in the development of the GEM-E3 model. He has participated in several research and policy oriented projects. He is a main contributor in introducing bottom-up modules in the global version of the GEM-E3 model and he is experienced in climate change policy assessment using general equilibrium models, environmental economics, energy economics and transport analysis. He is publishing regularly in a variety of journals including Energy Economics, Energy Policy, Complexity Economics and Economic Letters.

Dr. Kostas Fragkiadakis is working in the field of CGE model development and policy applications. His research experience includes works with the Department of Economics at the National and Kapodistiran University of Athens and the National Technical University of Athens, Greece in the areas of Energy Analysis, Computational Statistics, Econometrics, Computable General Equilibrium, Statistics and Finance, Bayesian methods and Non Parametric Statistics. He has published in the areas of Mathematical Modelling, Statistical Methodology, Computational Statistics, General Equilibrium Modelling and Energy Studies.

Dr. Stella Tsani is a researcher working with the development of CGE models. Her research interests focus on resource economics, development economics, political economy and macroeconomics. She is a member of the Centre for Euro Asian Studies at the University of Reading, UK and the Observatory for Energy, Technology and Infrastructure in Argentina. She has held research posts at Europrism, Cyprus, at the Public Finance Monitoring Centre in Azerbaijan and at the Institute of Energy for South East Europe, Greece. She has worked for the UK Foreign Office Chevening Fellowship Program in Energy Economics hosted by the University of Reading. Her research has been published in peer reviewed journals including Energy Economics and Resources Policy.

Marc Gafarot, Holds a degree in Humanities from the Universidad de Navarra, an MSc in European Studies from the London School of Economics and Political Science and conducts research in the field

of International Processes of Secession and International Cooperation at CIDOB. As a journalist and political commentator he has worked from London for Bloomberg LP, in Latin America for Summit Communications and served as a Parliamentary Adviser at the European Parliament in Brussels and Strasbourg. Marc Gafarot has also worked from Barcelona as Head of International Relations for Fundació CATmón and for the English-written magazine Catalan International View. He has written a book on Flanders and Federalism in Belgium called "La mort de Bèlgica? La gradual i pacífica emancipació flamenca" (The Death of Belgium? the Gradual and Peaceful Flemish Emancipation) and he has co-authored "The Student's Guide to European Integration", "Benefits of being a small state in the EU" and his last book is called "Hem Guanyat / Hem perdut: victòria o derrota de Catalunya". He collaborates with a number of Catalan and international publications and has published works on Political Science, Nationalism, Immigration, European and world politics.

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