MS
RESEARCH HUB

Unlock Your Potential

CGE Policy Modeling with Applications to the Saudi Arabian Economy in GTAP & GAMS

March 2025

Online Workshop ▶ LIVE

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WHO WE ARE

M&S Research Hub is an international research and academic Institute headquartered in Kassel, Germany. Networking and partnering with major academic networks worldwide and with more than half of the staff and the academic team working remotely from the USA, UK, Malaysia, and around the World.

We organize online and onsite live training in the fields of advanced econometrics, statistics, data analysis, and programming for institutes and individuals. On another front, we design and administrate CGE modeling, Life Cycle Analysis development, survey, and impact assessment projects for NGOs, government, and funding institutes.

OUR

LEGACY

We have conducted customized training programs for research centers, central banks, and government teams to help them improve their data modeling and analysis skills. We have trained groups from a variety of organizations, including the World Bank, UN, IMF, the Saudi Arabian Finance Ministry, the Brazilian Economic Ministry, and the central banks of UAE, Congo, and Mozambique to build up their data analysis skills and leverage their skills to accomplish their regular duties while dealing with the complexities of work and data.
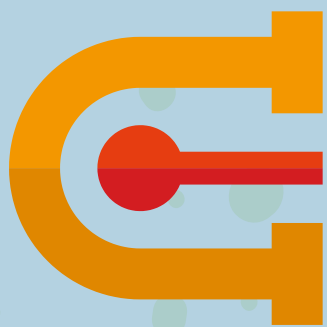
TRAINING HIGHLIGHTS

- Multilingual team of experienced econometricians.
- Training programs cover theories, applications, and hands-on exercises using all common statistical packages
- Certified certificate after each module.
- Flexible schedule.
- Data files, codes, material, literature, and recorded sessions are included.
- Learn from home/office 'online training' or onsite training.
- Opportunity to participate in existing research projects.

Simply click on any training to access its dedicated page

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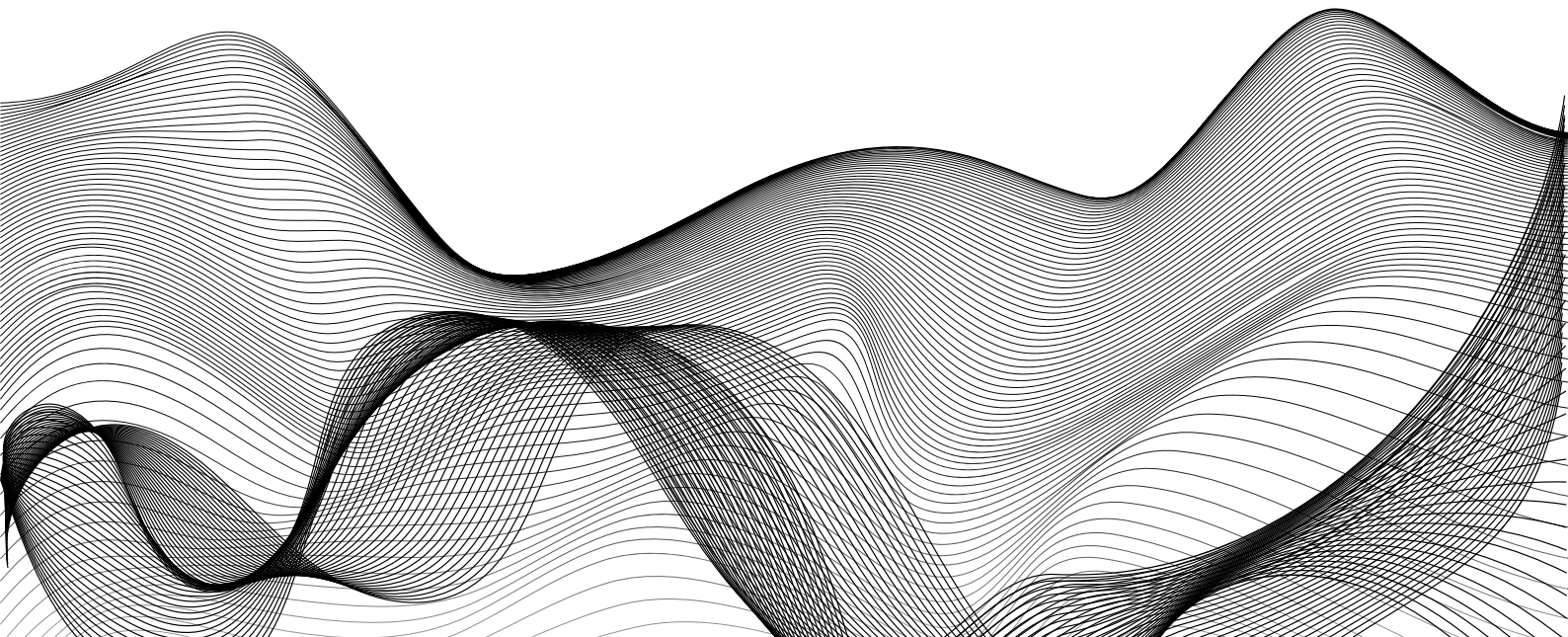
1. INTRODUCTION TO GEM AND CGE TRAINING

One-of-its-kind global structured General Macroeconomic Modeling (GEM) Training program organized since 2019 by M&S Research Hub.

This program provides an immersive learning experience to elevate the trainee's proficiency in Macroeconomic modeling. Focused on two pivotal modules—Computable General Equilibrium (CGE) and Dynamic Stochastic General Equilibrium (DSGE) (**Click [here](#) to explore the program**).

1. INTRODUCTION TO GEM AND CGE TRAINING

GAMS
Recommended by the GAMS Institute

LIVE ●
One and only live compact GEM training ever availabe
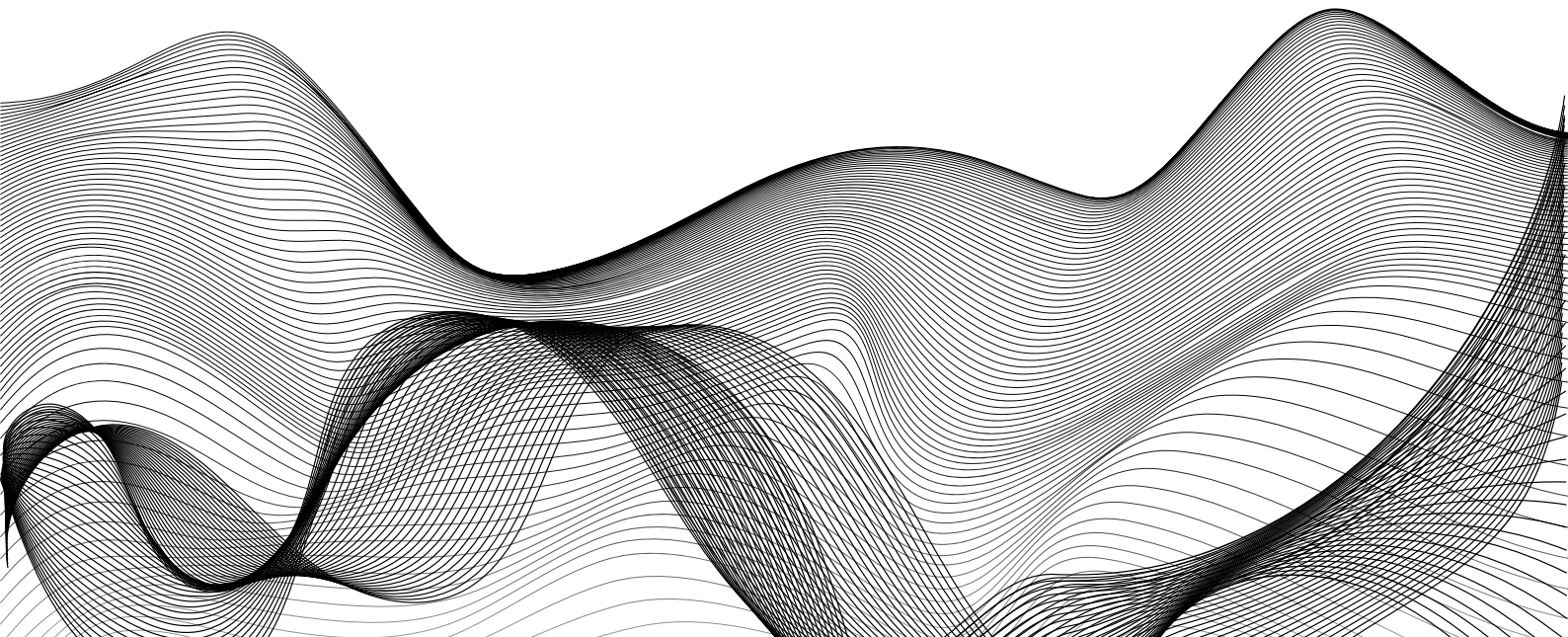
KPMG
eco engineers
THE WORLD BANK
Trusted by governments and world-led business organizatins

Attended by hundreds each year from all over the world

After conducting customized training programs for teams from organizations such as the IMF, KPMG, World Bank, WTO, Brazilian Government, and the Scottish Government **(Click here to view a full list of CGE projects and consultancies)**. We have come to realize that tailored training programs designed for specific economic settings or projects tend to yield the highest learning benefits.

2. Workshop Objectives

"CGE Policy Modeling with Applications to the Saudi Arabian Economy in GTAP & GAMS"

IMPROVED POLICY MODELING FOR SAUDI ARABIA'S ECONOMIC TRANSFORMATION AND DEVELOPMENT

The workshop aims to enhance participants' capacity to conduct evidence-based policy analysis and contribute to informed decision-making processes related to economic development and policy formulation in Saudi Arabia.

COMPREHENSIVE POLICY MODELING

- To equip public officials, researchers, and academic staff with the skills and knowledge necessary for conducting comprehensive policy analysis and economic modeling tailored to the Saudi Arabian context.

GAMS AND GTAP

- To provide practical training on utilizing GTAP and GAMS software for conducting policy simulations and analyzing the economic impacts of various policy changes.

POLICY AREAS OF INTEREST TO THE SAUDI GOVERNMENT

- To enable participants to simulate demand and supply changes in key economic sectors, including energy, construction, technology, logistics, and tourism, to inform policy-making decisions and strategic planning.

SIMULATE POLICY SHOCKS

- To enable participants to assess the effects of tax policy changes, trade agreements, Investments in AI, Mega projects e.g. Neom and other economic policies, with a focus on VAT applications in Saudi Arabia.

3. Target Participants

Public Officials,
Modeling Teams, and
Researchers in
Government Institutes
such as SFD, IFA, SAMA,
Ministry of Economic
Planning, and others.

Academic Staff,
Consultants,
Post Graduate Students
involved in macroeconomic
and policy modeling for
Saudi Arabia and the Gulf
region in general.

4. Workshop structure

Overview

The workshop will utilize up-to-date Input-Output (I/O) and Social Accounting Matrix (SAM) tables to conduct various simulations pertaining to policy shocks relevant to Saudi Arabia. These simulations will cover a range of topics, including changes in tariffs, adjustments to VAT rates, simulations of the energy market, investments in artificial intelligence (AI), and more.

Recommendations

- The workshop will consist of practical tutorials employing GAMS and GTAP software.
- Trainees are advised to possess a moderate level of understanding in macroeconomic and Computable General Equilibrium (CGE) modeling, as well as familiarity with GTAP and GAMS environments.
- Absolute beginners are encouraged to enroll in preparatory courses outlined in the "Preparation and Registration" section.

Highlights

4-Day online weekend (Saturdays and Sundays) workshop, totling 12-15 hours

Pratical simulation tutorials using GAMS and GTAP

Live interactions with a moderator will be facilitated, offering participants the opportunity to ask questions and engage in extended discussions.

Real policy modeling scenarios, findings, and recommendations will be provided, which can be utilized in reports, white papers, and policy briefs.

Registered trainees will have the opportunity to suggest policy areas of interest via a post-registration survey. These suggestions will be taken into consideration when preparing the practical tutorials.

4. About the Moderator

DR. MAROS IVANIC

Maros Ivanic is a distinguished Senior CGE Fellow at the M&S Research Hub, an Adjunct Professor at Boston University, a Senior GTAP Fellow, and an accomplished Senior Agricultural Economist in Dep. of Agriculture USA Government.

He brings a wealth of experience from his tenure within both national (U.S. Government) and international government organizations (International Finance Corporation and International Bank for Reconstruction and Development, the World Bank Group).

With over two decades of expertise in CGE and Macroeconomic Modeling, Maros has authored over 100 highly cited articles, establishing himself as one of the foremost CGE modelers and consultants globally.

5- Preparartion & Registration

REGISTRATION MODE A

For Absolute Beginners with no background on Applied Macroeconomic modeling, CGE in GTAP and GAMS

1- Preparatory courses and dates:
- **Intro. to CGE in GTAP (Jan 2025)-view course page**
- **Linear, Nonlinear Programming and Intro. to GAMS (Feb 2025)-view course page**
- **Intro to CGE in GAMS (Feb 2025)-view course page**
- **Advanced CGE with GAMS, GTAP, and R (March 2025)- view course page**

2- Registration deadline: November, 9 2024

3-Package:
- **Attending all live and online preparatory courses, and participating in the live workshop "CGE Modeling with Applications to Saudi Arabia in GTAP and GAMS".**
- **Receiving comprehensive course materials including literature, slides, codes, Input-Output (IO) tables, and datasets.**
- **Participants will have access to recorded video sessions of each course for three months.**
- **Upon completion of the program, participants will be awarded a certified certificate encompassing all attended courses.**
- **20% discount on registration fees for the upcoming Annual GEC conference (themed on CGE modeling) in early 2025.**

4- Fees per person (10% group discount for 3 or more participants):
- **Public Officials, and researchers affiliated with Gov. organizations: 6950 Euros**
- **Academic Staff and independent consultants: 5800 Euros**
- **Postgraduate students: 4150 Euros**

5- Preparartion & Registration

REGISTRATION MODE B

For participants seeking a refresher, it is assumed they possess a moderate background in Applied Macroeconomic modeling, as well as familiarity with CGE in GTAP and GAMS.

1- Preparatory courses and dates:
- **Intro. to CGE in GTAP and GAMS- 2 Day Online Course (March 2025)**

2- Registration deadline: 9 November 2024

3-Package:
- **Attending the preparatory course and participating in the live workshop "CGE Modeling with Applications to Saudi Arabia in GTAP and GAMS".**
- **Receiving comprehensive course materials including literature, slides, codes, Input-Output (IO) tables, and datasets.**
- **Participants will have access to recorded video sessions of each course for three months.**
- **Upon completion of the program, participants will be awarded a certified certificate encompassing all attended courses.**
- **20% discount on registration fees for the upcoming GEC conference (themed on CGE modeling) in 2025**

4- Fees per person (10% group discount for 3 or more participants):
- **Public Officials, and researchers affiliated with Gov. organizations: 3820 Euros**
- **Academic Staff and independent consultants: 2760 Euros**
- **Postgraduate students: 1350 Euros**

CGE MODEL DESIGN

for Governments and Organisations

CLICK HERE TO

Explore the service details
and areas of activites

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