

Asian Development Bank (ADB) and
the CAREC Institute (CI)

Virtual Workshop on Input-Output Analysis

April 4-8, 2022



Introduction

Economic analyses based on input output framework provide a deeper understanding of the state, functioning and evolution of an economy and its various sectors.

The IO framework effectively facilitates evidence-based policymaking by providing high quality data-driven insights on economic issues.

Introduction

ADB's Knowledge Solutions and Technical Assistance (KSTA)

- KSTA 9624 – Supporting Knowledge Solutions in Central and West Asian Countries
- KSTA 9646 – Data for Development Phase II

The CAREC Institute has been a partner of ADB in enhancing the capacities of relevant government entities in the CAREC countries to produce high quality economic data.

Introduction

- The ADB and the CAREC Institute has organized a five-day Virtual Workshop on IO analysis from 04-April to 08-April 2022
- The main objectives of the workshop is to provide a comprehensive foundation of IO economic concepts and theory.



Participants

Statisticians and analysts involved in national accounts and macroeconomic analysis



Azerbaijan

PRC

Georgia

Kazakhstan

Kyrgyz Republic

Mongolia

Pakistan

Tajikistan

Turkmenistan

Uzbekistan

Researchers, economists and think tanks are also invited.

Agenda

DAY 1 (04-April-2022)	
12:50 pm - 01:00 pm	VIRTUAL CONNECTION AND INTRODUCTION OF WORKSHOP
01:00 pm - 01:15 pm	WELCOME AND OPENING REMARKS Syed Shakeel Shah , Director, The CAREC Institute Mahinthan Joseph Mariasingham , Senior Statistician, ADB
01:15 pm - 01:30 pm	INTRODUCTION OF FACILITATORS AND HOUSE RULES Julian Thomas Alvarez , Senior Input Output Specialist, ADB
01:30 pm - 02:45 pm	THE BASIC FRAMEWORK OF IO ANALYSIS <i>From Supply Use Table to Input-Output Table</i> <i>Structure of Input-Output Table</i> <i>Application</i> Anurag Agarwal , Economic and Statistical Analyst, ADB Ridhima Bahl , Economic and Statistical Analyst, ADB
02:45 pm - 04:00 pm	BASIC LEONTIEF OUTPUT MODEL <i>Open and Closed Input-Output Models</i> <i>Application</i> Arushi Gupta , Economic and Statistical Analyst, ADB

Agenda

DAY 2 (05-April-2022)	
01:00 pm – 02:00 pm	<p>GENERAL STRUCTURE OF MULTIPLIER ANALYSIS</p> <p><i>Output Multipliers</i> <i>Income / Employment Multipliers</i> <i>Value-added Multipliers</i> <i>Application</i></p> <p>Gieneen Antonio, Economic Research Analyst, ADB</p>
02:00 pm – 04:00 pm	<p>INPUT OUTPUT MODELS AT THE REGIONAL LEVEL</p> <p><i>Many-Region Models: The Interregional Approach</i> <i>Many-Region Models: The Multiregional Approach</i> <i>Application</i></p> <p>John Arvin Bernabe, Economic Research Analyst, ADB Julian Thomas Alvarez, Senior Input Output Specialist, ADB</p>

Agenda

DAY 3 (06-April-2022)	
01:00 pm – 02:00 pm	INTRODUCTION TO ADB MRIO DATABASE <i>Structure of ADB MRIO Tables</i> <i>Application</i> Anna Monina Sanchez, Research Analyst, ADB
02:00 pm – 04:00 pm	MULTIPLIERS IN THE REGIONAL MODELS <i>Output multiplier decomposition</i> <i>Interregional effects and intraregional effects</i> <i>Application</i> Ma. Charmaine Crisostomo, Economic Research Analyst, ADB

Agenda

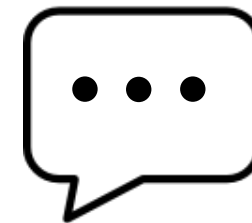
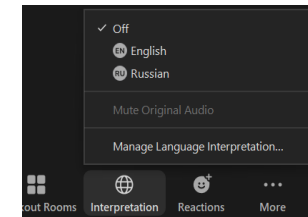
DAY 4 (07-April-2022)	
01:00 pm – 02:00 pm	SUPPLY-SIDE IO MODELS <i>Ghosh Model</i> <i>Re-interpretation as a Price Model</i> <i>Application</i> Jahm Mae Guinto , Economic Research Analyst, ADB Jessica Ann Jola , Economic and Statistical Analyst, ADB
02:00 pm – 03:00 pm	LINKAGES IN IO MODELS <i>Backward vs. Forward Linkage</i> <i>Normalized linkages</i> <i>Application</i> Christian Jabagat , Research Analyst, ADB
03:00 pm – 04:00 pm	HYPOTHETICAL EXTRACTION, CONTRACTION, AND EXPANSION METHOD <i>Hypothetical Extraction and Contraction Model</i> <i>Hypothetical Expansion Model</i> <i>Application</i> Elyssa Mariel T. Mores , Economic Research Analyst, ADB

Agenda

DAY 5 (08-April-2022) – Hands-on Exercises	
01:00 pm – 01:30 pm	GENERAL INSTRUCTIONS
01:30 pm – 03:30 pm	APPLICATIONS AND EXERCISES
03:30 pm – 04:00 pm	SYNTHESIS
	<i>Julian Thomas Alvarez, Senior Input Output Specialist, ADB</i> <i>Dale Maverenz Lim, Research Analyst, ADB</i> <i>Jessica Ann Jola, Economic and Statistical Analyst, ADB</i>

House Rules

1. Please turn off your microphone and camera while the lecture videos are being played.
2. Simultaneous Russian interpretation will be provided. Please select your preferred language in the Interpretation button.
3. If you have any questions or clarifications to the presenter, you may send your message in the chatbox.
4. Workshop materials will be made available through the CAREC Institute e-learning platform.



Hands-on Exercises

- After Day 5 sessions, we will provide the questions for Hands-on Exercises. You will be asked to answer at least two problems.
- Certificates of participation will be given to attendees who accomplished the exercises.
- Exercises should be submitted to the resource speakers on or before 22-April-2022.



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