

# Day 1: June 1, 2020

## Opening Comments:

### Morning Session

#### PLENARY SESSION 1: KLEMS and Economic Measurement

**Chair: Erich Strassner**

Bart van Ark, Abdul A. Erumban, Klaas de Vries

Global productivity growth in the age of digital transformation

Mun S. Ho, Jon D. Samuels

Tier Structure Aggregation and KLEMS Growth Accounting

Weilin Liu, Robin Sickles

Industry-Specific Productivity and Spatial Spillovers through input-output linkages: evidence from Asia-Pacific Value Chain

Richard Heys or Martin van Elp

Free Services (Statistics Netherlands)

### Mid-Morning Session

#### EU KLEMS

**Chair: Nicholas Oulton**

#### Digital Economy

**Chair: Erich Strassner**

Nicholas Oulton  
Measuring Productivity: theory and British practice

Carol Robbins  
Measuring Open Source Software

Robert Stehrer  
The role of tangibles and intangibles EU KLEMS

Chris Blackburn  
valuing data with a sum of costs approach

Cecilia Jona-Lasinio; Valentina Meliciani; Silvia Sopranzetti  
Organizational capital and global value chain participation: strengthening productivity growth in the digital age

Marshall Reinsdorf or Jim Tebrake  
IMF

Antonio Amores, Enrico Infante, Véronique Deneuville, Mattia Cai, Juan M. Valderas-Jaramillo and José M. Rueda-Cantucho  
A quality adjusted labour input index of the European Union for a better understanding of productivity developments

Chunyun Wang and Yafei Wang  
China's Industry-Level Productivity Measurement in a Digitalized Economy

Elodie Andrieu and Mary O'Mahony

Using on-line platforms to measure skills: wages and skills in AI versus non-AI firms

### Lunch-Time Session

#### LUNCH -- PLENARY SESSION 2: Latin America KLEMS

**Chair: Eduardo Cavallo**

Matilde Mas and Eva Benages (tbc)

LAKLEMS: Methodology and future improvements

Eduardo Fernández-Arias, André Hofman and Tomás Gálvez

First results for Latin American productivity

Ramón Gonzalez, Alejandro Alonso, Cristián Tercero, Cesar Alverado and José Robles

Salient results for Costa Rica, El Salvador, Dominican Republic, Honduras and Peru

### Mid-Afternoon Session

#### Human Capital

**Chair: Barbara Fraumeni**

#### India KLEMS #1

**Chair: Deb Das**

Maureen Cropper  
The Impact of Air Pollution on Human Capital and National Wealth in Developing Countries

Suresh Aggarwal and Bishwanath Goldar  
Economic growth and jobs: an international perspective and India's experience of the last two decades

Barbara M. Fraumeni and Gang Liu  
Methodological Summary and Comparative Rankings of Six Major Human Capital Measures

Deb Kusum Das  
Does Trade Reform improve Manufacturing Productivity? Evidence from India KLEMS Dataset

Glenn-Marie Lange, Shun Chonabayashi (presenter), Esther Naikal, and Kenan Karakulah  
The Impact of Air Pollution on Human Capital and National Wealth in Developing Countries

Abdul A. Erumban, Harry X. Wu, Deb Kusum Das, David Liang  
Comparing Sectoral Productivity Levels in India and China

Mary O'Mahony (presenter) and Lea Samek  
Health and Human Capital

K. L. Krishna and Bishwanath Goldar  
Measuring Productivity Change without Neo-Classical Assumptions: Evidence from India KLEMS Dataset

### Late-Afternoon Session

#### Latin America KLEMS #1

**Chair: Eduardo Fernández-Arias**

#### China KLEMS

**Chair: Kyoji Fukao**

#### KLEMS Measurement Methods

**Chair: Bart van Ark**

Francisco Guillén  
Evolution of productivity in Mexico in the period of 1990-2018

Harry X. Wu and Zhongwen Zhang  
Exploring the Industry Origin of Resource Misallocation in the Chinese Economy

Joint BEA, StatsCan, INEGI paper with Erich Strassner of BEA as lead  
Regional GVCs within I-O Satellite Account Framework

Khuong Minh Vu  
Latin American countries in the global dynamics of economic catch-up since 2000

Harry X. Wu, David T. Liang and George G. Zhang  
China's Resource Misallocation Revisited from an Ownership Structure Perspective

Chi-Yuan Liang, Rueil-He (Mike) Jheng  
An International Comparison on Total Factor Productivity Changes in Public Utility Sector among Japan, Korea, Taiwan, China and the United States

Matilde Mas, André Hofman and Eva Benages (tbc)  
Knowledge in small Latin American countries

Huimin Zhu  
Factor Cost Distortions in the Chinese Economy: Observations from CIP/China KLEMS Database

Nicholas Oulton  
GDP is a Measure of Output, Not Welfare. Or, HOS Meets the SNA

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|-------------------------------------|-----------------------------------|---------|--|-------------|--|
| IADB team                           | Energy in Latin America           | Zhan Li | Accounting for Sources of China's Growth from a Regional Economy Perspective—A Preliminary Attempt | Jop Woltjer | The rise of global value chains in a long historical perspective |
| Ilya Voskoboynikov and André Hofman | Russia and Latin America compared |         |  | Lin Shao    | Linkages, and Aggregate Productivity Growth                      |

## Day 2: June 2, 2020

### Morning Session

| Latin America KLEMS #2  | Chairs: Eduardo Cavallo   | Capital and Productivity Measurement   | Chair: Nadim Ahmad   |
|---|---|--|--|
| Alberto Vindas  | Implications of technical change on distinct labor segments in Costa Rica | Pierre-Alain Pionnier and Belén Zinni, OECD  | Capital services and MFP measurement at the OECD: a sensitivity analysis                       |
| Nicolas Grosman, Kevin Russell and Jaana Remes                | Latin American missing middle   | Julio Cabeca, Christine Gerstenberger, Doris Hanzl, Enrico Infante, Robert Stehrer | Capital productivity indicators (CAPI): A comparative overview                                 |
| Ricardo Monge, Alejandro Alonso Nanno Mulder and André Hofman | Micro, meso and aggregate productivity in 5 Central American countries    | Kevin J. Fox, Kay Cao, Franklin Soriano  | Measuring Firm-Level Capital and Productivity using Australian Integrated Microdata            |
| Wulong Gu, André Hofman and Salvador Marconi                  | Disaggregated PPP estimations in 8 Latin American countries               | Ariel Coremberg  | This was not Latin America's Productivity Decade. Do Infrastructures & Natural Capital matter? |
|   |   | John Glaser, Kendra Hathaway, Peter Meyer, Jay Stewart, Jerin Varghese             | Prediction Intervals for Estimates of Quarterly Labor Productivity                             |

### Mid-Morning Session

| Japan/Korea KLEMS                                  | Chair: Kyoji Fukao  | Labor Quality  | Chair: Mary O'Mahony  |
|--|---|--|---|
| Kyoji Fukao, Kim YoungGak and Kwon Hyeog Ug        | Causes of Japan's Slow Economic Growth: Analysis Based on the JIP Database 2018   | Matt Knepper and Rachel Soloveichik  | Measuring Labor Quality with NonCash Compensation   |
| Tsutomu Miyagawa, Konomi Tonogi, Takayuki Ishikawa | Does the Productivity J-Curve Exist in Japan?   | Kendra Asher and Peter B. Meyer  | Improving labor input measures with imputations by machine learning   |
| Hyunbae Chun, Hak K. Pyo and Keun Hee Rhee         | Intangibles and Industrial Productivity Growth in Korea (1995-2017)   | Lucy P. Eldridge, Corby Garner, Thomas F. Howells, Brian C. Moyer, Matthew Russell, Jon D. Samuels, Erich H. Strassner and David B. Wasshausen | Toward a BEA-BLS Integrated Industry-level Production Account for 1947-2016   |
| Joji Tokui and Tatsuji Makino                      | A Comparison of Human Capital and Productivity across Prefectures: Studies Based on Japan's Prefecture-level KLEMS Data | Justin Harper, Jon D. Samuels, Corby Garner, Michael Jadoo, Andrew Kato, Michael Sverchkov, Jerin Varghese                                     | Toward a Labor Composition Measure Suitable for the BLS MFP Accounts and BEA-BLS Integrated Industry-level Production Account |

### Lunch-Time Session

**LUNCH PRESENTATION: Eric Parrado, Chief Economist IADB**

### Mid-Afternoon Session

| Intangibles   | Chairs: Corrado, Haskel, O'Mahony                                  | India KLEMS #2  | Chair: Deb Das   | Eastern European KLEMS  | Chair: Ilya B. Voskoboynikov  |
|---|--|---|--|---|---|
| G. Berlingieri, C. Corrado, C. Criscuolo, J. Haskel, A. Himbert and C. Jona-Lasinio | New Evidence on Intangibles, Diffusion and Productivity            | Anjali Tandon   | Export sophistication in India: The role of non-price factors          | Ilya B. Voskoboynikov, Eduard F. Baranov, Ksenia V. Bobyleva and Dmitri Piontkovski | Intermediate inputs, knowledge-based capital and the Russian economy in 1995-2017                                     |
| Cammeraat, Samek and Squicciarini   | Managerial Practices, Workforce Skills and Productivity in Sectors | Abid A. Burki, Mushtaq A. Khan, Syed Muhammad Hussain, Muhammad Raza Mustafa Khan | Structural Change in Pakistan using Pakistan KLEMS Database, 1980-2010 | Ksenia Bobyleva   | The contribution of intangible assets to the growth of sectors of the Russian economy or what innovations are active? |

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|---|---|--------------------------------|---|---------------------------------------|--|
| Dan Sichel and Eric von Hippel          | Household Innovation and R&D: Bigger than You Think   | Rajib Das and Siddartha Nath   | Capital Misallocation and its Implications to India's GDP: An Evidence from India KLEMS | Dariusz Kotlewski and Miroslaw Blazej | Analysis of the Substitution between the Production Factors and Intermediate Inputs in the Light of KLEMS Growth Accounting for Poland |
| Carol Corrado, Mary O'Mahony, Lea Samek | How does education contribute to productivity? A social infrastructure approach applied to the US and UK. | Deb Kusum Das and André Hofman | Productivity in India and Latin America   | Toma Lankauskiene                     | Productivity growth determinants of differently developed countries: comparative results   |

### Late-Afternoon Session

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|---|--|--|--|--|--|
| <b>PLENARY SESSION 4: Global Value Chains</b>                           |  | <b>Chair: Steve Landefeld</b>  |  |  |  |
| Ivo Havinga of the UNSD   |  | Overview of UNECE Global Value Chains Handbook   |  |  |  |
| Steve Landefeld   |  | Tariff Impacts Using World I-O Models: Examples from the United States                             |  |  |  |
| Nadim Ahmad of the OECD, (Note that country and regional examples tbd). |  | Application of OECD GVC data base to tariffs impacts: Examples for Latin America, Asia, and Europe |  |  |  |
| Tom Howells, Erich Strassner  |  | Incorporating GVC's into the U.S. I-O and KLEMS Accounts   |  |  |  |
| <b>Closing Remarks: TBA</b>   |  |  |  |  |  |
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