THE WORLD KLEMS INITIATIVE

by

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XVI Апрельская международная научная конференция
По проблемам развития экономики и общества

OVERVIEW OF THE WORLD KLEMS INITIATIVE

The Purpose of the World KLEMS Initiative Is to Incorporate KLEMS-Type Data Sets into Official Systems of National Accounts.

The Growth of Outputs, Inputs, and Productivity at the Industry Level Is Crucial for Understanding the Sources of Economic Growth and the Nature of Structural Change.

Level Comparisons among Countries Are Essential for Assessing Competitive Advantage.

MILESTONES IN THE WORLD KLEMS INITIATIVE

EU KLEMS: Completed June 2008. KLEMS Data Sets for 25 or 27 European Union (EU) Members Plus Australia, Canada, Japan, Korea, and the United States. **See:** **http://www.euklems.net/**

LA KLEMS: Established December 2009 at ECLAC/CEPAL, the Economic Commission for Latin America and the Caribbean, Santiago, Chile. **See:** **http://www.cepal.org/cgi-bin/getprod.asp?xml=/la-klems/noticias/paginas/4/40294/P40294.xml&xsl=/la-klems/tpl-i/p18f-st.xsl&base=/la-klems/tpl-i/top-bottom.xsl**

World KLEMS Initiative: Established First World KLEMS Conference, Harvard University, August 2010. **See:** **http://www.csls.ca/ipm/24/IPM-24-Jorgenson.pdf**

Asia KLEMS: Established July 2011, First Asia KLEMS Conference, Asian Development Bank Institute, Tokyo, Japan. **See:** **http://www.asiaklems.net/**

Second World KLEMS Conference: Harvard University, August 9-10, 2012. **See**: **http://www.economics.harvard.edu/faculty/jorgenson/files/0809_0900_TIMMER_9AM_worldklems2012_timmer_intro.pdf**

EUROPEAN UNION (EU) KLEMS

Two Volumes Reporting Results of EU KLEMS:

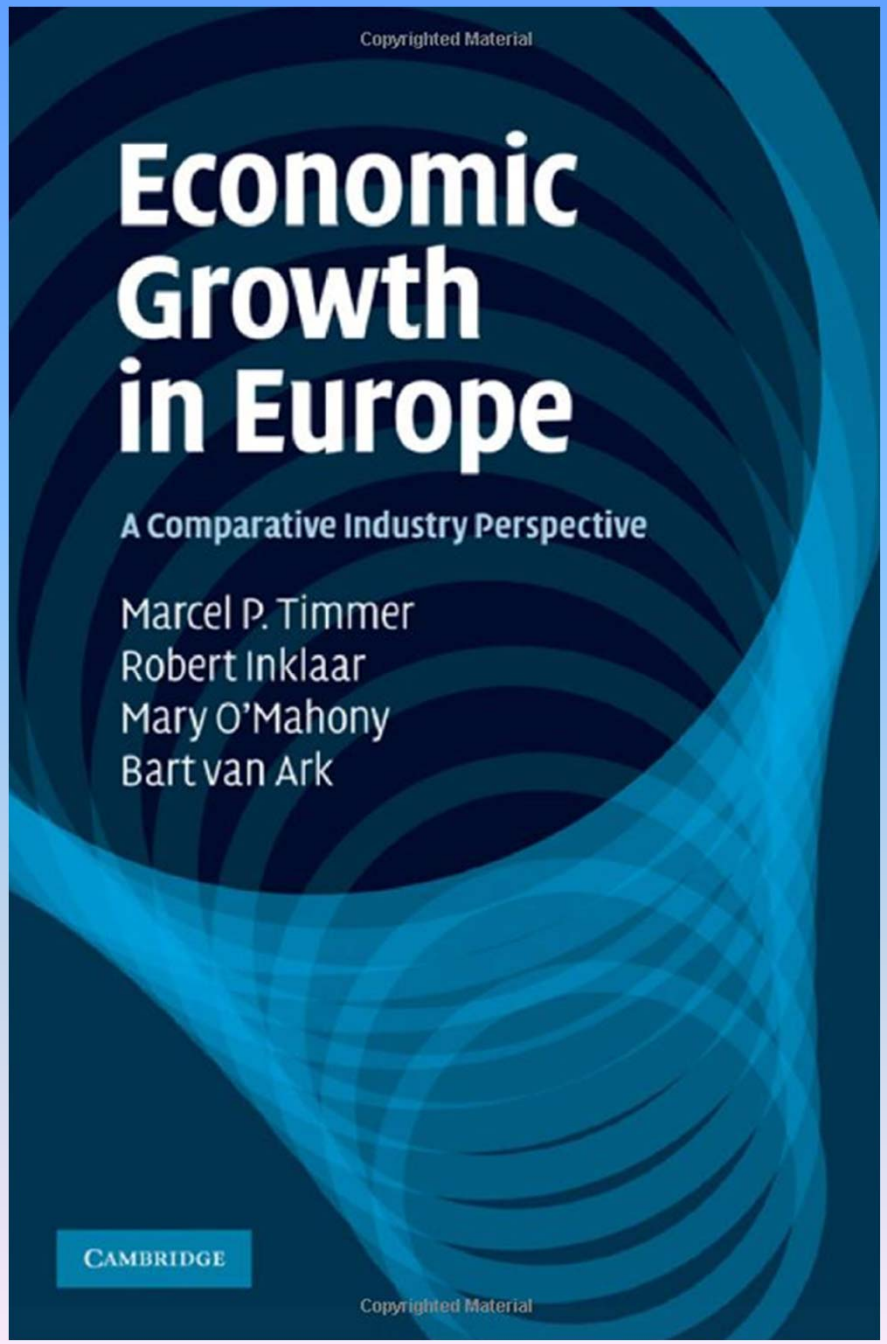
Marcel P. Timmer, Robert Inklaar, Mary O'Mahony, and Bart van Ark, ECONOMIC GROWTH IN EUROPE: A Comparative Industry Perspective, Cambridge, Cambridge University Press, 2010.

Matilde Mas and Robert Stehrer, eds., INDUSTRIAL PRODUCTIVITY IN EUROPE: Growth and Crisis, Cheltenham, UK, Edward Elgar Publishing, 2012.

Important Findings: The EU KLEMS Project Identified Weaknesses in the Knowledge Economy – Investment in Human Capital, Investment in Information Technology, and Innovation – As Main Sources of Economic Growth Slowdown that Preceded the Current Economic and Fiscal Crisis in Europe.

Policy Implications: Establishment of a Single Market for Services in Europe Is Critical in Removal of Barriers to the Knowledge Economy and Revival of Economic Growth in Europe as the Crisis Winds Down.

Updated Data: See: http://www.euklems.net/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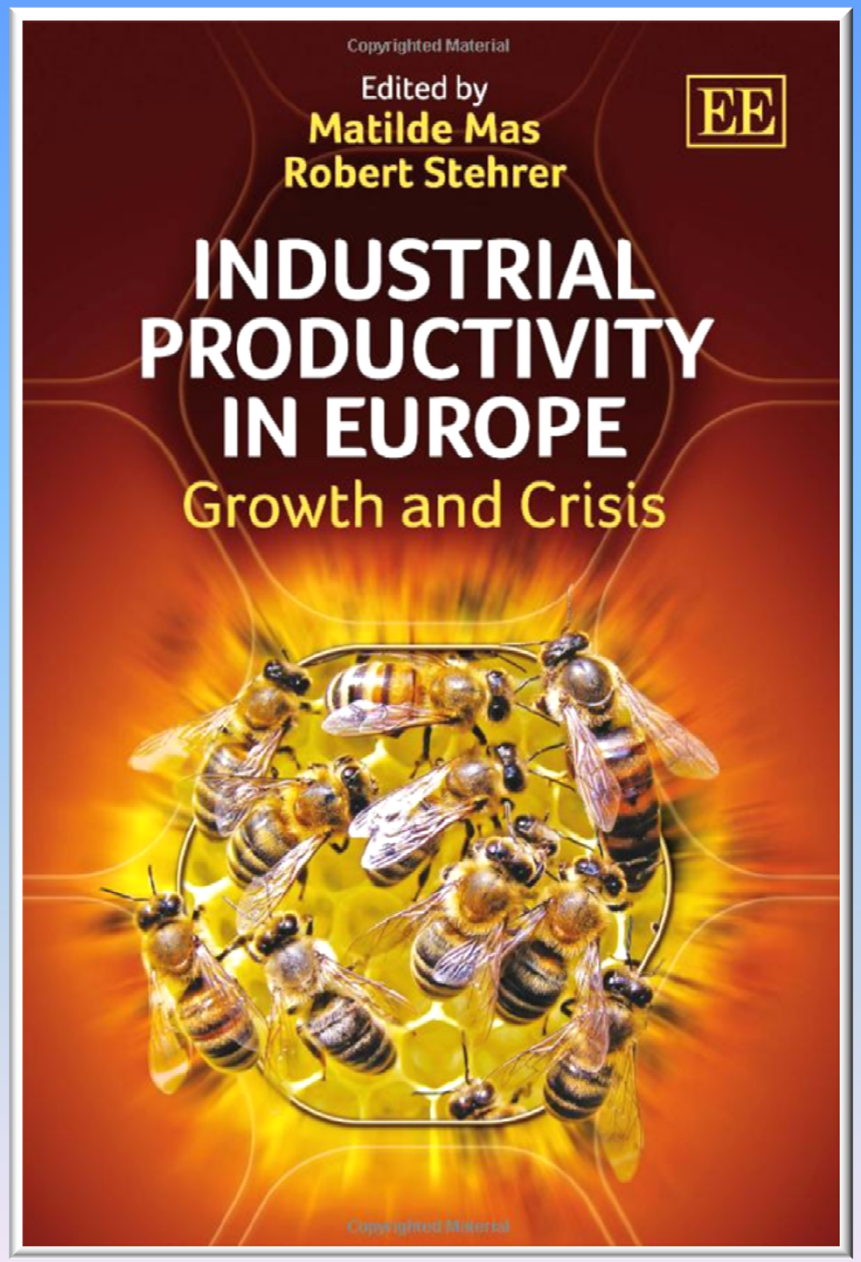
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Growth and Crisis
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LATIN AMERICAN (LA) KLEMS

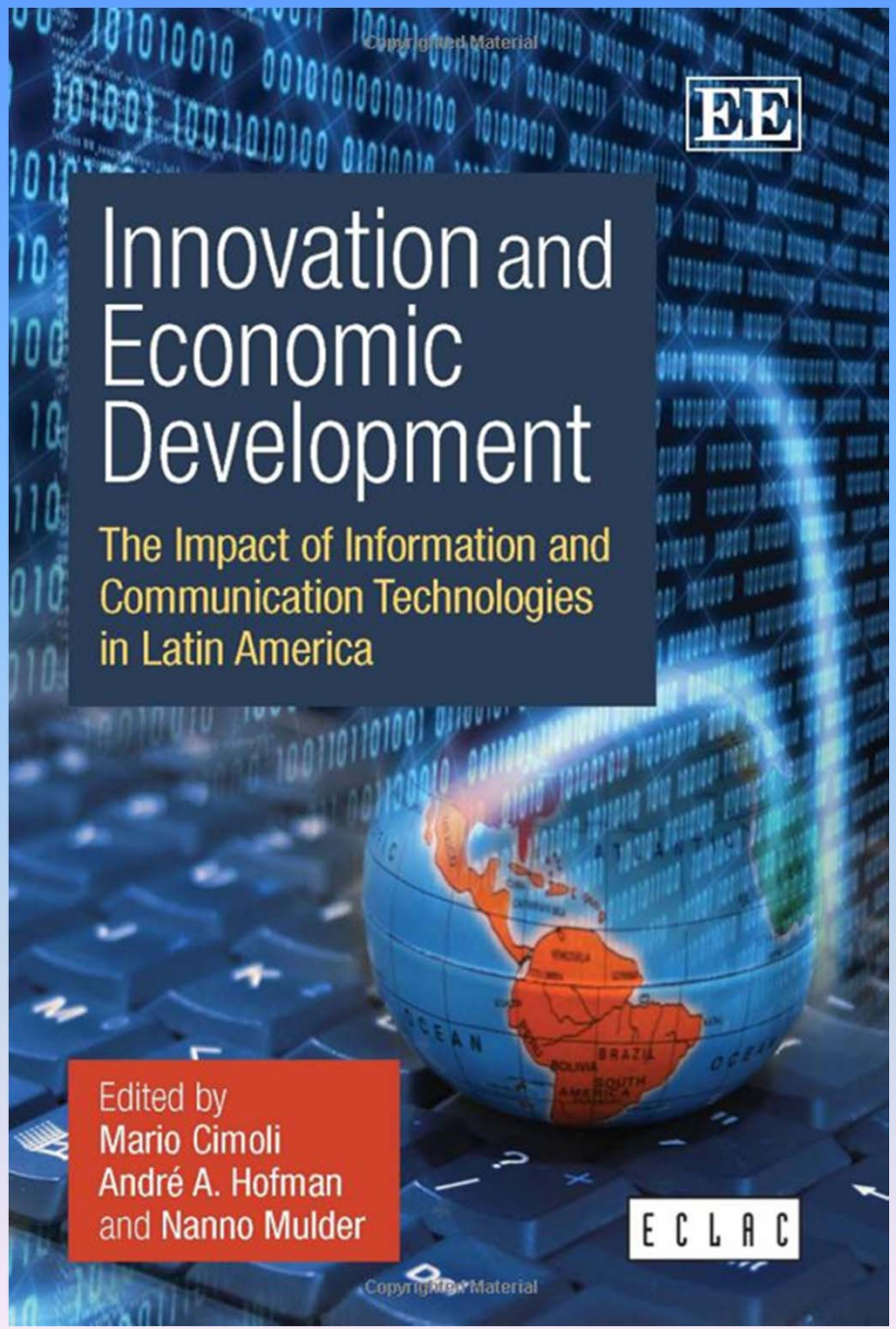
Results of Initial Conference Reported in:

Mario Cimoli, Andre A. Hofman, and Nanno Mulder (2010), eds., Innovation and Economic Development: The Impact of Information and Communication Technologies in Latin America, Northampton, MA, Edward Elgar.

Detailed Report on Mexico KLEMS:

INEGI (2013), Sistema de Cuentas Nacionales de Mexico: Productividad Total de los Factores, 1990-2011, Aguascalientes, Mexico, INEGI.

Presents a Complete Mexico KLEMS Data Set, Integrated with Mexican National Accounts. A Very Important Empirical Finding: Mexican Total Factor Productivity Has Not Grown since 1990. Positive Growth Offset by Negative Growth in Mexican Sovereign Debt Crisis of 1995, U.S. Dot-Com Crash of 2001, and U.S. Financial and Economic Crisis of 2007-2009. Other Important Findings Discussed at this Conference.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Instituto Nacional de Estadística y Geografía
SCNM
Sistema de Cuentas Nacionales de México
Productividad total de los factores 1990-2011
INEGI
INSTITUTO NACIONAL DE ESTADÍSTICA Y GEOGRAFÍA

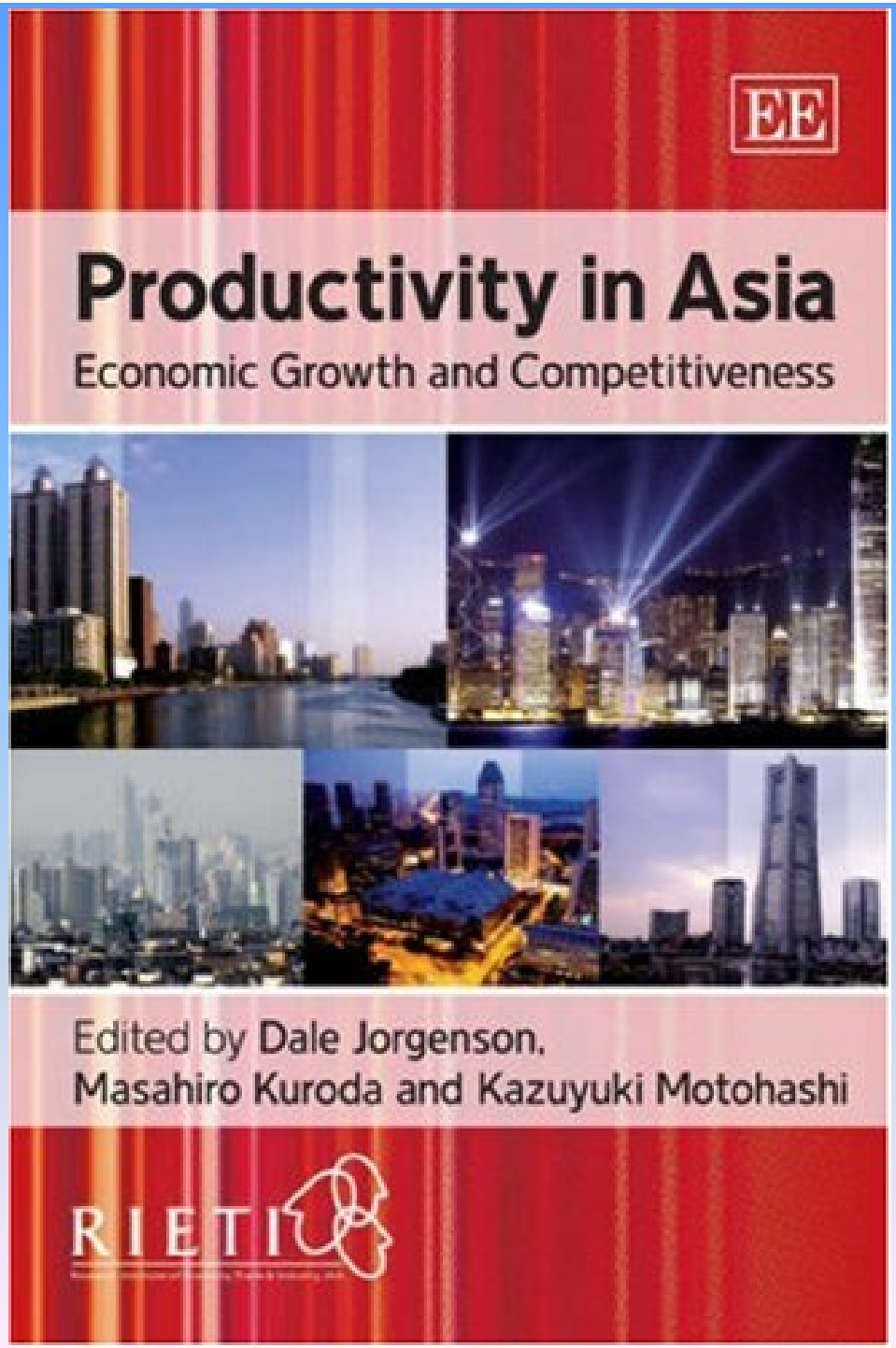
ASIA KLEMS

Asia KLEMS Was Preceded by International Comparison of Productivity among Asian Countries (IPAC) Project, Research Institute of Economy Trade and Industry (RIETI), Tokyo, Japan. Results Reported in:

Dale W. Jorgenson, Masahiro Kuroda, and Kazuyuki Motohashi (2007), eds., Productivity In Asia: Economic Growth and Competitiveness, Edward Elgar, Northampton, MA.

KLEMS-Type Data Sets for Japan and Korea: Japan Industrial Database (JIP); Korea Industrial Data Base (KIP) Updated Data Available on EU KLEMS Website. These Data Sets and Others Discussed at First Asia KLEMS Conference in Tokyo, 2011, and Second Asia KLEMS Conference in Seoul, 2013. KLEMS-Type Data Sets Have Completed for India and Taiwan and Under Construction for China and Malaysia.

Third World KLEMS Conference, Tokyo, May 19-20, 2014, Research Institute of Economy Trade and Industry. Call for Papers Posted on World KLEMS Website and RIETI Website:
http://www.rieti.go.jp/en/events/14051901/info.html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Productivity in Asia
Economic Growth and Competitiveness
Edited by Dale Jorgenson,
Masahiro Kuroda and Kazuyuki Motohashi
RIETI

RUSSIA IN WORLD KLEMS

First Release of Russia KLEMS Dataset: Laboratory for Research in Inflation and Growth, Higher School of Economics, July 2013.

Current Russia KLEMS Dataset: Marcel P. Timmer and Ilya Voskoboynikov, "In Mining Fueling Long-Run Growth in Russia? Industry Productivity Growth Trends, 1995-2012", World KLEMS Volume, 2015.

Release of the New Russian Input-Output Table for 2011 at the End of This Year Offers the Opportunity to Incorporate Russia KLEMS into the Russian National Accounts.

First Priority Should Be Given to Incorporating the New Input-Output Table. Second Priority Is To Extrapolate the Data Backward to 1995 and Forward to 2015. Third Priority Is To Include Data on Capital and Labor Services for Russia KLEMS.

RUSSIA KLEMS: MAIN RESULTS

Russia's Recovery from the Sharp Economic Downturn that Followed the Dissolution of the Soviet Union and the Transition to a Market Economy Has Been Very Impressive.

Surprisingly, Increases in Productivity Widely Anticipated by Observers Inside and Outside Russia Have Characterized only the Service Industries and IT Manufacturing, Both Underdeveloped under Central Planning.

Mining Industries Have Attracted Large Investments, but These Are Unaccompanied by Gains in Efficiency. The Recent Collapse of World Oil Prices Poses a Challenge for Future Growth.

More Details: Timmer and Voskoboynikov, 2015.

THE AGENDA FOR WORLD KLEMS: GROWTH AND STRUCTURAL CHANGE

National Accounts: The First Objective for the World KLEMS Initiative is to Incorporate Data on Growth and Productivity into the National Accounts. Ten Countries Provide KLEMS Data within National Accounts: Australia, Canada, Denmark, Finland, Italy, Mexico, The Netherlands, Sweden, United Kingdom, and the United States.

Second Priority: Is the Analysis of International Competitiveness. The Natural Framework for this is the World Input-Output Study (WIOD), Revised and Extended by OECD and World Trade Organization: **http://www.wiod.org/index.htm.**

KLEMS-Type Data Sets Can Be Linked by Industry-Level Purchasing Power Parities and Trade Data as Shown by Inklaar and Timmer (2014): **http://onlinelibrary.wiley.com/doi/10.1111/roiw.12012/abstract.** These Data Can Be Used to Implement the Value Added Approach to Trade: **http://www.wiod.org/publications/papers/wiod9.pdf**

THE AGENDA FOR THE WORLD KLEMS INITIATIVE: SUMMARY

Original Vision: World KLEMS Initiative Involves KLEMS-Type Data Sets for More Than 40 Countries. These Include the Countries that Are Participating in EU KLEMS, LA KLEMS, and Asia KLEMS, the Regional Organizations that Comprise World KLEMS.

Linking the Data: Data on Growth and Productivity Can Be Linked through Trade Data and Industry-Level Purchasing Power Parities from World Input-Output Data Base and Industry-Level Purchasing Power Parities for Capital and Labor Inputs.

Applications: Growth and Productivity Data Are Used to Analyze the Sources of Economic Growth and Changes in the Structure of an Economy. Linked KLEMS-Type Data Are Used to Analyze International Competitiveness, Including the Evolution of Global Supply Chains.