World KLEMS initiative: the future

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World KLEMS

Aim of World KLEMS initiative:

- Establishing an international network of researchers involved in building KLEMS databases
- Bringing together national databases that facilitate the analysis of growth and productivity at the industry level.
- Create spillovers in knowledge for producers and added benefits to users of databases
- Incorporation of productivity measures in System of National Accounts
World KLEMS

We have come a long way, and much remains to be done

- EU KLEMS
- Challenges ahead
- Extensions
- Future of World KLEMS initiative
EU KLEMS

- Last update in November 2009, updated March 2011

- Uptake in statistical world:
  - Eurostat
  - National Statistical offices

- Current plan to update to 2009/2010 on a rolling basis in upcoming months, based on ISIC rev 4 as much as possible

- Stronger cooperation with OECD
Challenges ahead

- Major changes in statistical systems introducing time-series breaks and comparability problems across countries
  - ISIC revision 4: need for new industry list
  - SNA 2008 (R&D inclusion and revisions)

- Hard to measure sectors:
  - public administration, health, education,
  - Some market business services
  - “Informal” sector
Extensions

- Extending the capital boundary beyond tangibles and software
- Linked national input-output tables through international trade
- International level comparisons of output, inputs and productivity
- Micro-level indicators (number of firms, firm size, distribution statistics)
- Environmental accounts
What can WORLD KLEMS do for you?

- Provide platform for releasing your productivity data and research through the website: www.worldklems.net
- Providing a link to the relevant webpages at your institute/project
- Posting relevant material concerning productivity statistics and research
- posting your analytical database, prepared according to WORLD KLEMS conventions, and underlying reference material
WORLD KLEMS: Next steps

- The Groningen Growth and Development Centre will act as coordinator for the website. Mail your contributions to World KLEMS website to me (m.p.timmer@rug.nl).

- Next conferences
  - IARIW special conference in Sydney, Dec 2013, on Productivity: measures and trends
  - IARIW conference in the Netherlands, Aug 2014 sessions on productivity, intangibles, capital, PPPs, International trade
  - Third WORLD KLEMS conference: when/where?

- Suggestions welcome and looking forward to future cooperation
WORLD KLEMS Database

This page contains databases on output, inputs and productivity at the industry-level for a set of countries. The data for each country for which the excel tables are posted on this page is structured and built up in the same meta data structure to allow for comparisons across a larger set of countries. The harmonisation process includes industry classifications, input definitions, price concepts, aggregation procedures and comparable measure. Each dataset has been prepared by a dedicated research group of the WORLD KLEMS consortium. More information on the consortium partner and the construction of each dataset can be found in the source descriptions.

Files can be downloaded directly from the websites of the respective partners. For these countries or regions the link to the website of the research group is provided.

Content of the files available:

- Basic File: Includes standard industry aggregates according to the ISIC Rev.3 standardised industry classification.
- Additional File: Includes alternative industry aggregates such as market versus non-market, goods versus services and ICT production.
- Capital Input File: Contains information on investments and capital stocks in the same classification as the output file.
- Labour Input File: Contains information on share of several types of labour in total labour input (labour composition) in the same classification as the output file.
- Sources and Notes: Contains notes with source descriptions and additional notes.
- Partner: Reference to the website of the research group or consortium partner that constructed the data. Additional information can be found here.

1. **France**, Released July 2012
   - Basic File: IFA Basic 2012
   - Capital Input File: Confidential
   - Labour Input File: IFA Labour 2012
   - Sources and Notes: IFA sources 2012

2. **Austria**, Released July 2012
   - Basic File: LH Basic 2012
   - Capital Input File: LH Capital 2012
   - Labour Input File: LH Labour 2012
   - Sources and Notes: LH Sources 2012

3. **Spain**, Released July 2012
   - Basic File: EBA Basic 2012
   - Capital Input File: EBA Capital 2012
   - Labour Input File: EBA Labour 2012
   - Sources and Notes: EBA Sources 2012

4. **Canada**, Released July 2012
   - Basic File: CAME Basic 2012
   - Capital Input File: CAN Capital 2012
   - Labour Input File: CAN Labour 2012
   - Sources and Notes: CAN Sources 2012
   - Partner: Statistics Canada

5. **Australia**, Released in 2011
   - Experimental Estimates of Industry Multifactor Productivity, 2010-11
   - Data and sources can be downloaded directly from the website of the Australian Bureau of Statistics (ABS).

6. **China**, Released in 2011
France, Released July 2012

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Austria, Released July 2012

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Spain, Released July 2012

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Canada, Released July 2012

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Australia, Released in 2011

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World KLEMS 2012

Countries currently involved in initiative

• US, Canada, Australia
• ASIA: China, India, Japan, Russia, South Korea plus more (Taiwan, Indonesia, Malaysia,..)?
• LAT AMER: Brazil, Chile, Mexico, Argentina plus more?
• EUROPE:
  • Denmark, Finland, Italy, Netherlands, Sweden (NSIs)
  • Germany, France, Spain, UK and others (EU KLEMS)
• AFRICA: ?
Standardisation in World KLEMS

- Broad guidelines (e.g. int. classifications, SNA, OECD manuals on productivity and capital, Eurostat handbooks, Jorgenson’s growth accounts etc.)

- Implementation conventions needed, e.g. as developed in the EU KLEMS project
  - Industry classification, level of industry detail and aggregation
  - Measurement of labour services (types, wage-concept)
  - Measurement of capital services (depreciation patterns and rates, rental prices, types)
  - Measurement of multi factor productivity (value added, gross output)
Experience of EU KLEMS

- Importance of difference between
  - Statistical database: solely based on published official statistics from National Accounts
  - Analytical databases: e.g. linking series over time, splitting industries and using world klems implementation rules that differ from national rules (e.g. calculation of capital stocks and types)

- Users not only interested in productivity series but also in underlying output, labour and capital input series.

- Users (academics, policy analysts, media) appreciate one-stop shop for international productivity statistics