



World Input-Output Database (WIOD)
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**World Input-Output Database:
Construction and Applications**

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7th Framework Programme, Theme 8:
Socio-Economic Sciences and Humanities.
Grant Agreement no: 225 281*



**Final Report Fp7 project World Input-Output Database: Construction and
Applications (WIOD), Grant agreement no: 225 281**

**Attachment 1 Complementary documents : Project information and
photographs**

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1. Project summary

Project title: World Input-Output Database: Construction and Applications
Starting date: May 1, 2009
Duration in months: 36
Call (part) identifier: FP7-SSH-2007-1
Activity code(s) most relevant to your topic: SSH-2007-2.1-03: Developments and applications of tools for the assessment of policies and socio-economic forecasting
Free keywords: Input-output tables; Policy modeling; Database; Socio-economic and environmental accounts

Abstract:

How has the increase in Chinese exports of textile products affected the employment of low skilled workers in German retail trade? What would be the effects of a change in the European Union's agricultural policy on global CO2 emissions? Economic and environmental policies are designed at a detailed level of industries and products, while production is characterized by an interdependent structure. Due to globalization, these interdependencies cross borders and the inclusion of trade is more than ever essential. Analyzing policy issues therefore requires an all-encompassing database. Its construction is at the heart of this project and the following three aspects are crucial.

- Input-output (IO) tables provide a description of the interdependent production structure. Taking the reach of internationalization into full consideration requires a worldwide set of national IO tables (covering at least 80% of world GDP) that are fully linked through bilateral trade data.
- Taking the dynamics of internationalization into account requires a time series (1995-2006) of such linked IO tables, in current and constant international prices.
- Taking the effects of internationalization into consideration requires that other relevant information is appended. These so-called satellite accounts include labour data for different skill types, investment flows, and environmental and resources data.

The first part of the project constructs such a unique database. The second part of the project applies the database to analyze the international interaction of socio-economic and environmental objectives from a policy perspective. These are applications that use the database by directly employing IO and econometric techniques, and applications that use large-scale models that employ the database. The project builds on several previous, EU-sponsored projects and is carried out by Europe's leading experts in IO theory, data construction, interindustry models, and policy applications.

2. List of beneficiaries

Beneficiary Number *	Beneficiary name	Beneficiary short name	Country	Scientific Contact
1 (coord.)	University of Groningen	RUG	Netherlands	H.W.A. Dietzenbacher
2	Institute for Prospective Technological Studies	IPTS	Spain	Alejandro Villanueva
3	Wiener Institut für Internationale Wirtschaftsvergleiche	WIIW	Austria	Joseph Francois
4	Zentrum für Europäische Wirtschaftsforschung	ZEW	Germany	Andreas Löschel
5	Österreichisches Institut für Wirtschaftsforschung	WIFO	Austria	Kurt Kratena
6	Hochschule Konstanz	HTWG	Germany	Joerg Beutel
7	The Conference Board Europe	TCBE	Belgium	Bart van Ark
9	CPB Netherlands Bureau for Economic Policy Analysis	CPB	Netherlands	Paul Veenendaal
10	Institute of Communication and Computer Systems	ICCS	Greece	Pantelis Capros
11	Central Recherche SA	CRSA	France	Paul Zagamé

3. Management Team (MT)

The MT consisted of four persons, all located at the Groningen hub of EUNIOS, the European Network for Input-Output Studies. The MT was led by the scientific coordinator (Professor Erik Dietzenbacher), and two assistant coordinators (Associate Professors Bart Los and Marcel Timmer). Astrid van der Veen was appointed as project administrator.

4. Committee of External Experts

The consortium established a Committee of External Experts, which offered their reflections on the progress of the project and choices made to the Project Board. The Committee of External Experts consisted of researchers who are widely regarded to be leading in fields relevant to the project. The following persons (in alphabetical ordering) formed the Committee:

- Robert C. Feenstra (C. Bryan Cameron Distinguished Professor in International Economics, University of California at Davis; Director of the International Trade and Investment Program at the U.S. National Bureau of Economic Research). Feenstra is an expert on international trade theory and statistics;
- Kyoji Fukao (Professor of Contemporary Economies at Hitotsubashi University, Japan). Fukao has extensive knowledge of industry-level productivity and trade statistics for Asia;
- Geoffrey J.D. Hewings (Professor of Economics, Geography and Regional and Urban Planning at the University of Illinois at Urbana-Champaign, United States). Hewings is an expert on Latin-American input-output and trade statistics and has been involved in numerous input-output table construction efforts;
- Rutger Hoekstra (Statistics Netherlands). Hoekstra is a specialist in the field of integration of environmental indicators and national accounts statistics;

- Dale W. Jorgenson (Samuel W. Morris University Professor, Harvard University, United States). Worldwide, Jorgenson is considered a leading scholar in the fields of international productivity comparisons and economic growth, and regarding environmental and energy model building, in particular for the US and China;
- Rob A. McDougall (Deputy Director of the Center for Global Trade Analysis, Purdue University, United States). McDougall has been involved intensively with the GTAP program, which focuses on the construction and application of computable general equilibrium models to assess the effects of trade policies on (mainly) agricultural activities on a global scale;
- Jan Oosterhaven (Professor of Regional Economics, University of Groningen, The Netherlands). Oosterhaven is very experienced in constructing inter-country input-output tables and constructed computable general equilibrium models to predict the effects of policy measures;
- Sherman Robinson (Professor of Economics, University of Sussex, UK). Robinson has a world-class reputation for his intersectoral modelling work on economic development, which was mainly built when he was a researcher at the World Bank.
- Colin Webb (OECD). Webb is responsible for OECD's STAN database and the Bilateral Trade by industry database. He has many years of experience in building databases of international economic statistics and providing support to researchers worldwide, and is familiar with methodological issues concerning international industry and trade data.
- Norihiko Yamano (OECD). Yamano is responsible for the current edition of OECD's Input-Output database. He has developed various types of economic models using originally developed regional public capital stock, labour force statistics, and inter-regional IO tables. He also served as an external consultant for many projects regarding economic, energy and demographic forecasting models.

5. Committee of Stakeholders

A Committee of Stakeholders was established to ensure the best match between needs in the policy arena and the activities carried out by the WIOD consortium, as well as to promote wide dissemination of WIOD's methods and findings among policymakers. The committee consisted of representatives of various Directorate Generals in the European Commission. In particular the activities carried out in WP9 should advise these DGs in assessing the most likely consequences of policy measures within and outside the European Union. The beneficiaries involved in this WP have done numerous projects for DG ECFIN, DG ENTR, DG ENV, DG TAXUD and DG TREN. One or a few representatives of the European Commission with involvement in these DGs will be appointed on the Committee of Stakeholders, next to representatives of DGs RTD, ECFIN and Eurostat.

Next to persons who are representing the European Commission, there are also two other members in the Committee of Stakeholders. The first is Mark de Haan, the chairman of the London Group on Environmental Accounting. The London Group is a leading international body (backed by the UN and the OECD, among others) regarding the formulation of guidelines and standards for establishing and revising integrated environmental and economic accounts. A second stakeholder in this Committee of Stakeholders is Joyashree Roy. She is Coordinating Lead Author of Chapter 7 ("Industry") of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC).

6. Workpackages

The following sections present the overview for each of the work packages.

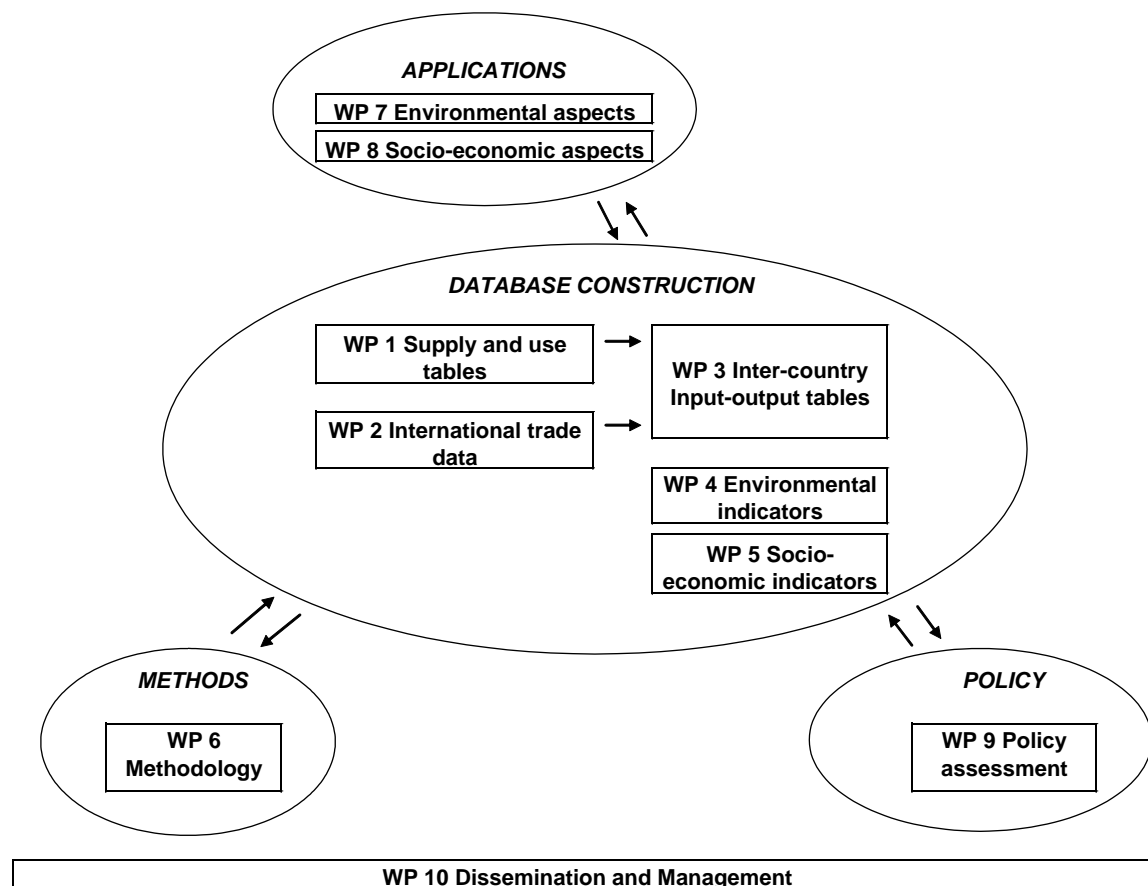


Figure 1. Interdependencies between the core parts of the project

7. Some pictures made in the final period of the project

- **The Final WIOD Policy and Dissemination Meeting and the official launch of the World Input-Output Database (WIOD).**

On April 16 2012, the European Commission hosted the high-level conference in Brussels on “Competitiveness, trade, environment and jobs in Europe: Insights from the World Input Output Database (WIOD)”.

During the conference the World Input-Output Database was officially opened to the general public.

During the morning session of the conference EU Trade Commissioner Karel De Gucht as well as a highlevel

WTO representative gave key note speeches. This was followed by a presentation by the WIOD consortium of the new database, and by a policy roundtable discussion on the topic "Does Europe still have a competitive advantage?".

The afternoon session of the conference was dedicated to analysing how the WIOD database can deepen our understanding of trade and the increasing inter-relatedness between countries and industries.



EU Trade Commissioner Karel De Gucht

- **Final WIOD Conference: Causes and Consequences of Globalization, 24-26 April, 2012**
Venue: Het Kasteel, Groningen, The Netherlands

Conference Pictures



