

## YAHYA JAMMAL

### Key Qualifications

Development economist with over 26 years of professional experience. Over 21 years of experience in providing advice to statistical and planning agencies of developing countries on economic policy (macroeconomic, employment, industrial, housing and public enterprise/privatization policies) and quantitative systems in support of monitoring and evaluation of these policies. Worked with USAID, the World Bank, the Asian Development Bank, UNIDO, ILO and UNTAET, in Asia, Africa, the Middle East and the Pacific. Proven management and leadership. Native Arabic speaker; native proficiency in English; fluency in French and Indonesian.

### Professional Experience

#### **Associate Director, Boston Institute for Developing Economies (1993-present)**

At home office, work involves proposal writing and managing BIDE's division concerned with development of statistical products and methodology for developing countries. The focus is on both enterprise level and macroeconomic indicators. The division has fielded consultants to provide advice on development of macroeconomic indicators in Indonesia, Morocco, Ivory Coast, Saudi Arabia, the Federated States of Micronesia and East Timor. Enterprise level indicators have been developed for a large number of public enterprises in developing countries, including Nigeria, Ghana, Thailand and the Ivory Coast.

In addition, undertook the following consulting assignments:

#### **Chief of Party, Indonesian Statistical Agency (USAID) (2000 through June, 2003)**

Managed a 3.5-year 93-person-month project (a team of 11 short-term consultants) assisting the Indonesian statistical agency (BPS) in improving indicator systems in the following areas: national accounts, industry, prices, labor market, agriculture, survey/census design and methodology. Led efforts which include, among others, the following technical achievements:

- 1) National Accounts (to improve monitoring of macroeconomic developments and evaluation of impact of macroeconomic policy): documentation of sources and methods; improving methods of computing production accounts; direct measurement of inventory investment; design of unit value indices to deflate foreign trade flows.
- 2) Industry (to improve monitoring of macroeconomic developments): development of monthly manufacturing production survey in compliance with the IMF's Special Data Dissemination Standards (SDDS); design of an expanded industrial production index
- 3) Labor market (to improve monitoring of developments in the labor market): introduction of an alternative "relaxed" definition of unemployment which takes into account discouraged workers; design of a quarterly labor force survey
- 4) Prices (to improve monitoring of inflation measures): instituting methodologies for adjusting CPI computations to take into account new and disappearing products and outlets
- 5) Introducing seasonal adjustment (using X12 ARIMA) and benchmarking (using BENCH) techniques and applying them to select data in national accounts, industry, labor force and prices.

Primary emphasis in all the above technical efforts was on institution building to ensure sustainability of achievements.

**East Timor, Project Director (UNTAET, intermittent November 2001-March 2002)**

Led a team of 5 professionals in computing the emerging country's first national accounts, setting up a system of annual updates of these accounts and training local staff.

**Indonesia, Industry Statistics Advisor (USAID, June-September 1999)**

Was the lead advisor assisting the Central Bureau of Statistics in improving the Quarterly Industrial Production Survey and in designing a system of Quarterly and Monthly Industrial Production Indices to help Indonesia monitor short-term growth in industrial production in compliance with the IMF's Special Data Dissemination Standard (SDDS).

**Côte d'Ivoire, Team Leader (World Bank, June 1998-December 1999)**

Led a project evaluating the impact on economic welfare of the country's privatization program (1990-1997). Work required building a set of performance indicators for public enterprises to measure the macroeconomic impact of privatization. In addition, a cost/benefit model was used and applied to two utilities (electricity & telecommunications) and two agro-industries. The impact was distributed among various stakeholders: buyers (domestic/foreign), workers, government, consumers etc.

**Federated States of Micronesia, National Accounts Advisor (Asian Development Bank, 3 trips 1997-1998)**

Led a team of 14 professional staff from state and national statistical offices in designing and conducting the first census of establishments in the country's history, which resulted in computation of the states' and country's Gross Domestic Product (GDP). Also set up a system for timely annual updates of the GDP.

**Ghana, Public Enterprise Performance Evaluation Advisor (World Bank, 2 trips between August, 1997 and January, 1998)**

Constructed an establishment and national economic system of indicators to analyze the performance of public enterprises in the country. Developed a system for monitoring and evaluating enterprises under the supervision of the State Enterprises Commission.

**Nigeria, Public Enterprise Performance Evaluation Advisor, (World Bank, May, 1997)**

Provided training to middle and senior level Nigerian officials of the Bureau of Public Enterprises in techniques of national accounting, price indexing, measurement of capital stock and performance evaluation of public enterprises.

**Director, Public Enterprise Performance Evaluation Workshop, (World Bank funding, August, 1996)**

Directed a three-week workshop to train Nigerian Government officials in techniques of national accounting, price indexing, measurement of capital stock and performance evaluation for public enterprises.

**Lecturer, Computer Training Workshop for Government Decision Makers, (World Bank funding, July, 1996)**

Provided, in a one-week workshop, hands-on training to Nigerian Government officials in the use of personal computers for various relevant applications.

**Federated States of Micronesia, Economic Statistics Advisor (Asian Development Bank, May-June 1996)**

Evaluated existing statistical activities at the state and national levels and set up a feasible integrated system of indicators to help state and national planning agencies in macroeconomic management.

**Côte d'Ivoire, Industry Statistics Advisor (UNIDO, August 1995)**

Designed a system of industrial statistics indicators to help the Ministry of Industry formulate and implement industrial policy.

**Saudi Arabia, Economic Statistics Advisor (World Bank, June-July 1995)**

Evaluated economic indicators produced by the Central Department of Statistics. Designed a system of macroeconomic indicators of varying frequency and coverage to improve the government's ability in macroeconomic management.

**Indonesia, Industry/National Accounts Advisor (USAID, 2 trips March-June 1995)**

Assisted the Central Bureau of Statistics in developing more accurate and timely estimation, processing and analysis of National Accounts components, in an effort to improve the government's macroeconomic management.

**Morocco, Economic Statistics Advisor (USAID, January-March 1995)**

Identified individual statistics and economic indicators which help the government in developing the private sector and monitoring its development.

**Thailand, Public Enterprise Performance Evaluation Advisor (World Bank, January 1995)**

Provided the Ministry of Finance with a preliminary evaluation of the performance of two Thai public enterprises, as part of a wider effort of evaluating the public enterprise sector.

**Indonesia (World Bank, August-September 1994)**

Provided background report on civil service training in Indonesia.

**Lecturer, Performance Contracts Workshop, BIDE, Boston (August, 1994)**

Lectured on the methodology used in the Public Enterprise Performance Information System to evaluate the performance of public enterprises.

**Indonesia, Industry Advisor (USAID, 3 trips 1993-1994)**

Worked with the Indonesian National Planning Agency and Central Bureau of Statistics on:

- 1) evaluating manufacturing sector data and their implications for the National Accounts;
- 2) analyzing concentration patterns in the manufacturing sector and their policy implications.

**Industry Statistics Advisor, Indonesian Central Bureau of Statistics (USAID) (1988,1990-1993)**

Led teams of professional staff (as well as intermittent expatriate consultants) in three major projects:

- 1) development of a quarterly system of indicators to measure growth in *current* manufacturing production;
- 2) backcasting the history of 30,000 manufacturing establishments based on record-by-record cleaning and adjustment, to obtain consistent micro and macro indicator series for 1975-1990;

3) computation of a series of double-deflation value-added indices at the 5, 3, 2 and 1-digit ISIC levels.  
Effort resulted in an upward revision of the National Accounts and a better understanding of the behavior of different size establishments.

**Housing Policy Analyst, Indonesian Office of the State Minister of Housing (World Bank) (1989)**

Advised the Minister of Housing on macroeconomic and operational policies. Evaluated, restructured and documented a survey of 8,000 urban households and used it in preparing the government's housing policy statement and strategy and in assessing the cost of government housing subsidies. Drafted the government's basic housing policy statement and strategy.

**Employment Policy Advisor, Indonesian National Planning Agency (ILO) (1985-1987)**

Constructed a macroeconometric model to measure the impact on employment of alternative policies in Indonesia. Also analyzed the structure of the housing sector and assessed its potential growth and employment prospects.

**Credit Officer, Manufacturers Hanover Trust Company, New York (1983-1985)**

Was responsible for business development in Saudi Arabia, Kuwait and Yemen. Undertook country risk assessment and customer credit analysis.

**Expert in Quantitative Economic Methods, Saudi Arabian Ministry of Planning (1981-1983)**

Advised on macroeconomic policy, oversaw data evaluation, design and implementation of a survey of cost of living, macroeconomic modeling and evaluation of the Saudi subsidy system.

**Assistant Professor, Albion College, Michigan (1980-1981)**

Taught principles of economics and intermediate microeconomics

**Teaching Assistant, Wayne State University, Michigan (1978-1980)**

Taught principles of economics and of statistics.

**Marketing Research Assistant, Nicosia, Cyprus (1976)**

Worked on a number of projects in Saudi Arabia, Bahrain and other Middle Eastern countries. Tasks included questionnaire and survey design, survey implementation and analysis of results.

## Education

Ph.D., Economics, Wayne State University, Michigan, 1980

B.A, Economics, American University of Beirut, 1976

## Languages

English	native proficiency
Arabic	native language
French	main language of education until high school, speaking and reading at FSI 3+ level
Indonesian	speaking and reading at FSI 2 level

## Nationality

American

## **PROFESSIONAL PAPERS AND REPORT**

### ***National Accounts & Macroeconomic Policy***

*Toward Income Accounts for Indonesia*, with Kusmadi Saleh, STAT Project, Indonesia, September, 2002. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Gross Domestic Product: East Timor 2000*, with John Kuiper, Frank de Leeuw, Kusmadi Saleh, Wiwiek Arumwaty and Rifa Rufiadi, Report to UNTAET and the Central Fiscal Authority, East Timor, March, 2002.

*Chain Linking National Accounts*, STAT Project, Indonesia, June, 2001. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Quarterly National Accounts in Indonesia: Current Sources and Methods (Draft)*, STAT Project, Indonesia, February, 2001. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Revision of Quarterly Production Accounts*, STAT Project, Indonesia, October, 2000. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Federated States of Micronesia Gross Domestic Product, 1996*, Report to the Asian Development Bank's Economic Management Policy Advisory Team, April, 1998.

*Gross Domestic Product 1996: Conceptual Framework, Methodology and Results*, National Statistical Office, Federated States of Micronesia, 1998.

*Gross Domestic Product Pohnpei State 1996: Conceptual Framework, Methodology and Results*, Pohnpei Statistical Office, Federated States of Micronesia, 1998.

*Gross Domestic Product Kosrae State 1996: Conceptual Framework, Methodology and Results*, Kosrae Statistical Office, Federated States of Micronesia, 1998.

*Gross Domestic Product Chuuk State 1996: Conceptual Framework, Methodology and Results*, Chuuk Statistical Office, Federated States of Micronesia, 1998.

*Gross Domestic Product Yap State 1996: Conceptual Framework, Methodology and Results*, Yap Statistical Office, Federated States of Micronesia, 1998.

*An Integrated System of Statistical Activities for the Federated States of Micronesia*, Report to the Asian Development Bank and the Economic Management Policy Advisory Team, June, 1996.

*Memoranda on Industry, National Accounts and Prices*, Development Studies Project (DSP II), Indonesia, June, 1995.

*A Computerized Simple Macroeconomic Employment Policy Model For Indonesia: A User Manual*, UNDP/ILO INS/84/006, March, 1987.

*Towards a Macroeconomic Employment Policy Model for Indonesia*, UNDP/ILO INS/84/006 Project

Summary Report, February, 1987.

“A Simple Macroeconomic Employment Policy Model For Indonesia”, UNDP/ILO INS/84/006 project working paper, March, 1986.

"The Monetary Sector in Saudi Arabia: Some Issues for the Fourth Development Plan", working paper, Research Department, Ministry of Planning, Saudi Arabia, January, 1983.

*Private Consumption Patterns in the Saudi Arabian Economy*, with Dr. Hashim Al-Ali, Research Department, Ministry of Planning, Saudi Arabia, January, 1982.

### ***Industry Statistics & Policy***

*Classifying Manufacturing Production by Commodity vs by Establishment: Evidence Using 1998 Annual Survey Data*, with Rifa Rufiadi, STAT Project, Indonesia, August, 2001. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Monthly Manufacturing Production and Employment Indices*, with Vijay Verma, STAT Project, Indonesia, April, 2001. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*The Monthly Manufacturing Production Survey*, with Rosniaty Ismail, STAT Project, Indonesia, November, 2000. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Industrial Production Index for Indonesia*, Report to USAID and Badan Pusat Statistik, Indonesia, September, 1999.

*Statistical Needs for Industrial Policy Making in Côte d'Ivoire*, Report to UNIDO, August, 1995 (in both English and French).

*Evaluation of Selected Activities of the Saudi Arabian Central Department of Statistics*, Report to the World Bank, July, 1995.

*Memoranda on Industry, National Accounts and Prices*, Development Studies Project (DSP II), Indonesia, June, 1995.

*Value-Added to Output Ratio in Indonesian Manufacturing*, Development Studies Project (DSP II), Indonesia, March, 1995.

*Memoranda to BPS: November 1993- January 1994*, Development Studies Project (DSP II), Indonesia, January, 1994.

*Dynamics of Growth in Large and Medium Scale Manufacturing, 1975-1990*, with William Steel, Development Studies Project (DSP II), Indonesia, August, 1993.

*Backcasting Manufacturing Growth: 1975-1990*, Development Studies Project (DSP II), Indonesia, February, 1993.

*Memoranda on the Quarterly Industry Survey*, with Vijay Verma, Development Studies Project (DSP II),

Indonesia, February, 1993.

*The New Quarterly Industry Survey*, Volumes I and II, Development Studies Project (DSP II), Indonesia, December, 1992.

*Notes on the Quarterly Industry Survey*, Development Studies Project (DSP II), Indonesia, June, 1991.

*Results of Cleaning Data in the Annual Industry Survey*, Development Studies Project (DSP II), Indonesia, October, 1990.

*Analysis of the Results of a Special Survey of Manufacturing Establishments*, Development Studies Project (DSP II), Indonesia, August, 1990.

*Industry-Level Data in the Annual Survey of Medium and Large Manufacturing Establishments: A Case Study of the Kretek Industry*, Development Studies Project (DSP II), Indonesia, June, 1990.

*Selection of the Sample for the Quarterly Survey of Medium and Large Manufacturing Establishments*, Development Studies Project (DSP II), Indonesia, May, 1990.

*Nominal Manufacturing Growth, 1975 - 1986: Extensions*, with Leroy Jones, Development Studies Project (DSP II), Indonesia, October, 1988.

*The Cement Industry in Indonesia: A Case for Deregulation*, Development Studies Project (DSP II), Indonesia, October, 1988.

*Nominal Manufacturing Growth, 1975 - 1986: Alternative Estimates*, with Leroy Jones, Development Studies Project (DSP II), Indonesia, 1988.

*A User's Look at Manufacturing Data Quality: The case of Medium and Large Establishments*, Development Studies Project (DSP II), Indonesia, May, 1988.

*A User's Guide to the Medium and Large Manufacturing Database*, with Kenneth Chomitz, Development Studies Project (DSP II), Indonesia, May, 1988.

*The Survey of Medium and Large Manufacturing Establishments in Indonesia 1975- 1985: A preliminary Assessment of Data Reliability*, Development Studies Project (DSP II), Indonesia, March, 1988.

### ***Public Enterprise/Privatization Policy & Systems***

*Impact of Privatization in Cote d'Ivoire*, with Leroy Jones and Nilgun Gokgur, Report to the World Bank and the Privatization Agency, November, 1998 (in both English and French). Report available on the World Bank website: [http://rru.worldbank.org/documents/privatization\\_cote\\_d\\_ivoire.pdf](http://rru.worldbank.org/documents/privatization_cote_d_ivoire.pdf).

*Performance Monitoring and Evaluation of State Enterprises in Ghana*, with Leroy Jones, Report to the World Bank and Ghana's State Enterprises Commission, January, 1998.

*Public Enterprise Performance Information System, A User's Manual*, with Leroy Jones and Prajapati Trivedi, Boston Institute for Developing Economies, August, 1996.

### ***Employment Statistics & Policy***

*Quarterly Wage Survey of Livestock and Fishery*, with Uzair Suhaimi, STAT Project, Indonesia, April, 2003. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Measuring Open Unemployment in Sakernas*, with Uzair Suhaimi, STAT Project, Indonesia, June, 2001. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Monthly Manufacturing Production and Employment Indices*, with Vijay Verma, STAT Project, Indonesia, April, 2001. Paper available on BPS Statistics Indonesia website: [www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*The Housing Sector in Indonesia as a Potential Leading Domestic Sector for Growth and Employment*, UNDP/ILO INS/84/006, July, 1987. A summary version was presented in an international seminar on "Human Settlements and Shelter as an Engine of Economic Growth and Employment" (November, 1987) sponsored by the State Ministry of Housing and the Indonesian real estate association. Paper was also published in the seminar proceedings.

*A Computerized Simple Macroeconomic Employment Policy Model For Indonesia: A User Manual*, UNDP/ILO INS/84/006, March, 1987.

*Towards a Macroeconomic Employment Policy Model for Indonesia*, UNDP/ILO INS/84/006 Project Summary Report, February, 1987.

"A Framework for Analyzing Short-term Effects of Employment-Relevant Policies in Indonesia", UNDP/ILO INS/84/006 project working paper, August, 1986.

"A Simple Macroeconomic Employment Policy Model For Indonesia", UNDP/ILO INS/84/006 project working paper, March, 1986.

### ***Housing Statistics & Policy***

*Indonesian Urban Housing Market Data Documentation*, with Rifa Rufiadi, Report to the World Bank and the State Ministry of Housing, December, 1989.

*A Proposed Home Improvement Credit Scheme for Low Income Urban Households in Indonesia*, with Lista Damayanti, Report to the World Bank and the State Ministry of Housing, August, 1989.

*Measuring the Size of the Implicit Subsidies in the Low Cost Home Ownership (KPR) Program in Indonesia: a Preliminary Attempt*, Report to the World Bank and the State Ministry of Housing, July, 1989.

*Should a Special Housing Fund Be Established in Indonesia?*, report to the World Bank and the State Ministry of Housing, June, 1989.

*A Preliminary Assessment of an Information System for MENPERA* (Draft), report to the World Bank and the State Ministry of Housing, June, 1989.

*Commercial Banks and Regional Development Banks in Indonesia: Their Potential Role in the Housing Finance System*, report prepared for The Fels Center of Government, University of Pennsylvania, Housing Finance Training Program and Workshop, May, 1989.

*Income and Price Elasticities of Demand for Housing in Indonesia: Alternative Estimates*, report to the World Bank and the State Ministry of Housing, May, 1989.

*The Housing Policy Studies Project Final Report: A Review of Selected Issues*, report to the World Bank and the State Ministry of Housing, May, 1989.

*Is The Housing Market Behavior Survey Representative of Urban Households in Indonesia in 1988?*, report to the World Bank and the State Ministry of Housing, May, 1989.

*Mobilization of Long-Term Funds for Housing Finance in Indonesia: A Suggested Approach*, UNDP/ILO INS/84/006, September, 1987.

*The Housing Sector in Indonesia as a Potential Leading Domestic Sector for Growth and Employment*, UNDP/ILO INS/84/006, July, 1987. A summary version was presented in an international seminar on "Human Settlements and Shelter as an Engine of Economic Growth and Employment" (November, 1987) sponsored by the State Ministry of Housing and the Indonesian real estate association. Paper was also published in the seminar proceedings.

### ***Other Topics***

"Recent Technical Papers on BPS Data," *Bulletin of Indonesian Economic Studies*, August, 2003.

*Project Summary Report*, STAT Project report to USAID and BPS Statistics Indonesia, Indonesia, June, 2003.

*Benchmarking Susenas Health and Education Data*, with Wendy Hartanto, STAT Project, Indonesia, May, 2003. Paper available on BPS Statistics Indonesia website:  
[www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

*Is Susenas Rice Consumption in Urban Areas of Indonesia Understated?* with Arizal Ahnaf, STAT Project, Indonesia, November, 2002. Paper available on BPS Statistics Indonesia website:  
[www.bps.go.id/papers/Papers\\_and\\_Analysis/Papers\\_by\\_BPS\\_and\\_USAID\\_Project](http://www.bps.go.id/papers/Papers_and_Analysis/Papers_by_BPS_and_USAID_Project).

"Integrating Non-Agricultural Surveys Into One: An Indonesian Case Study," with Robert Torene, Robert Aten, Sri Budiarti Sukmadi and Richard Sigman, paper presented at the *International Conference on Establishment Surveys*, Buffalo, New York, June, 2000.