

MARITES M. TIONGCO

Full Professor

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Dr. Marites M. Tiongco is currently a Full Professor and Dean of the School of Economics at the De La Salle University in Manila, Philippines. Dr. Tiongco received her Ph.D. in Agricultural Economics and a B.Sc. in Applied Mathematics from the University of the Philippines Los Baños. Her research work focus on human capital development including gender issues, poverty and inequality, and on the economics of agricultural development with emphasis on critical natural resources and policy issues as they affect food security, food and water safety along the value chain, market access of smallholder crop and livestock producers, agricultural health and productivity, climate change mitigation and adaptation, and environmental sustainability. Prior to joining DLSU, she served as a Research Fellow of the Markets, Trade and Institutions Division of the International Food Policy Research. Her expertise in socio-economic surveys and econometric analysis of crop and livestock productivity and market access for the poor has brought her to several countries in Asia (including Indonesia, India, Philippines, China, Uzbekistan and Vietnam) and across Sub-Saharan Africa (including Kenya, Ghana, Ethiopia, Mali, and Nigeria). She has provided technical assistance to the Gates Foundation, the World Bank, DFID, FAO/IFAD, ADB, and NEDA-PPP.

FIELD OF EXPERTISE

Socio-economic Survey Design and Implementation
Data Management and Econometric Analysis
Impact Assessment and Evaluation of Development Projects/Programs
Policy and Economic Development in Developing Countries Cost-Benefit/Cost-Effective Analysis/Risk Analysis
Value Chain Analysis
Production Economics and Agricultural Marketing

EDUCATION

Ph.D. in Agricultural Economics, 2001
University of the Philippines Los Baños
Thesis Title: “Productivity Trends, Technological Progress, and Efficiency Changes in a Sample of Philippine Rice Farms”
Dissertation Committee: Chair: Dr. David Dawe (Policy and Trade); Members: Dr. Liborio Cabanilla (Economics), Dr. Isabelita Pabuayon (Policy and Economic Development), Dr. Nenita Tapay (Sociology)

M.S. in Agricultural Economics, 1993

University of the Philippines Los Baños

Thesis Title: "Measurement of Production Risk of Rice Farmers in the Rainfed Areas of Victoria, Tarlac"

Thesis Committee: Chair: Dr. Prabhu Pingali (Production Economics); Members: Dr. Corazon Aragon (Farm Management) and Dr. Flordeliza Lantican (Agricultural Marketing)

B.S. in Applied Mathematics, 1984

University of the Philippines Los Baños

Thesis: "Numerical Integration of Ordinary Differential Equations Using a New Predictor-Corrector Method"

Adviser: Prof. Wilfredo Lao

COUNTRIES OF EXPERIENCE

In Asia and Southeast Asia: China, Indonesia, India, Philippines, Uzbekistan, Vietnam
In East and West Africa: Ghana, Ethiopia, Kenya, Mali, Nigeria

TRAININGS/STAFF DEVELOPMENT ACTIVITIES UNDERTAKEN

Decision-Making and Quantitative Risk Analysis using @RISK, Parts I & II (May 3-4; 24-25, 2010)

Online Course

Palisade

Corporation

Food Safety Risk Analysis Professional Development Training Program (March 2008-January 2009)

Joint Institute for Food Safety and Applied

Nutrition University of Maryland, 0220 Symons

Hall

College Park, MD 20742

Completed and earned 8.4 continuing education units for the following courses (distance learning): Food Safety Risk Management, Food Safety Risk Communication, Food Safety Risk Assessment, and Qualitative and Quantitative Food Safety Risk Assessment.

EMPLOYMENT EXPERIENCE

June 2012-present Associate Professor 5, School of Economics, De La Salle University, Manila, Philippines

As faculty member, I teach Principles of Economics, Contemporary National Development, and Principles of Agricultural Economics and Agribusiness to undergraduate students of the School of Economics and College of Business. I also serve as Managing Editor of the DLSU Business and Economics Review, a major academic journal of DLSU listed in SciVerse Scopus and abstracted and indexed in EBSCO. As researcher and in my capacity as chair the Research and Advanced Studies of the School of Economics in DLSU, I develop proposals related to priority research areas of DLSU (research issues related to food security and food systems, climate change and environment sustainability, higher education, gender empowerment, and youth at risk). I am engaged in capacity

building on these priority areas and impact assessment and evaluation of government-commissioned projects. I also lead the DLSU-AKI funded project on “*An Impact Evaluation Study on The Pantawid Pamilyang Pilipino Program (4Ps): Pilot Study in Bagac, Bataan.*”

November 2012-June 2015 Agriculture Sector Specialist, ADB’s Capacity Development Technical Assistance for Strengthening Public-Private Partnerships (PPP) in the Philippines, NEDA sa QC, EDSA, Diliman, 1103 Quezon City, Philippines

As Agriculture Specialist, my scope of work are 1) to provide relevant advice on agriculture sector issues on PPP projects and PPP-enabling environment to the PPP Center and line-agencies advise the PPP Center on specific PPP agricultural projects presented to the Project Development and Monitoring Facility (PDMF) that is administered by the PPP Center (PPPC). The work involves evaluation of projects in (i) agricultural production and irrigation systems, (ii) agricultural logistics, cold storage and supply chain, (iii) agricultural in/output markets and land issues, (iv) government support mechanisms/schemes/institutions to the agricultural sector; and 2) to prepare or review terms of reference for pre-investment studies, and for transaction advisory services review of project concept notes, prefeasibility studies, feasibility studies and technical inputs into bid documents and assistance in evaluation of bids and contract management, if needed.

June 2010-June 2011 Adjunct faculty, Department of Economics, College of Economics and Management, University of the Philippines Los Baños (UPLB)

Team-teach Basic Econometrics to graduate students of the College during the First Semester, SY 2010-2011

June 2009-October 2012 Research Fellow, Markets, Trade and Institutions Division (MTID), International Food Policy Research Institute (IFPRI), Washington, D.C., U.S.A.

April 2006 – May 2009 Postdoctoral Fellow, MTID, IFPRI, Washington, D.C., U.S.A.

Provide technical support to the leader of IFPRI’s Food and Water Safety Theme (Global Research Program (GRP) 40) in developing, managing and implementing a portfolio of research projects identified related to the following research areas: dynamic relationship between food and water safety and food security, and how these relationships can be influenced through appropriate institutional mechanisms and technologies to mitigate food and water borne hazards; pro-poor cost-effective disease control strategies to reduce food safety hazards so as to facilitate and enhance poor’s access to markets and livelihoods; public-private partnerships and other institutional arrangements that best address the food and water safety and quality concerns of the poor; impact assessment of the uptake of food safety interventions on food security, health and nutrition; knowledge and technologies for the control of zoonotic, food-borne, water-borne diseases; and cost of compliance of increased food safety standards on smallholders.

Conduct empirical research and econometric analysis on crop/livestock market access for the poor and the changing demand for food safety of high value products along the value chain, in collaboration with the food safety team of IFPRI and researchers from national agricultural research centers and universities.

Provide technical inputs to survey design including sampling methods, and to quantitative and qualitative data analysis to components of multi-disciplinary projects related to value chain analysis, cost-benefit and cost-effective analysis, risk assessment and analysis, bio-economic modeling, institutional analysis, and livelihood analysis. Also provide technical support to the Theme leader and other researchers of the Food and Water Safety Theme, in support of MTID’s fund-raising, publication, and research objectives.

Produce peer reviewed analytic reports from studies/projects conducted.

Publish research results in peer-reviewed scientific journals and communicate research findings through briefs, presentations in international conferences, and media.

Develop concept notes and proposals in strategic research areas of the Markets, Trade, and Institutions Division, and IFPRI as a whole.

Contribute to the capacity building of collaborators in national agricultural research centers, universities, and government agencies.

September 2002 – March 2006 Research Analyst, MTID, IFPRI, Washington, D.C., U.S.A.

Conducted empirical analysis through data acquisition and documentation, data cleaning, processing and quantitative data analysis, including various forms of econometric estimation and policy analysis, and preparing reports.

Wrote scientific papers and present them in workshops and conferences (local and international).

Coordinated, monitored and evaluated activities with a variety of collaborative projects between IFPRI and national and international partners collaborating on IFPRI's GRP 27 "Participation in High-Value Agricultural Markets", ILRI-IFPRI Joint Program on Livestock Market Opportunities, and GRP 40.

As lead researcher, provided technical inputs on sampling and methodological frameworks, designing survey instruments, and coordinated, monitored and followed-up project activities for smooth implementation of the FAO/IFAD project on Contract Farming of Milk and Poultry in India.

Organized and monitored household surveys, focus group discussions, and outreach activities for the projects on Contract Farming of Milk and Poultry in India and on Contract Farming of Swine Production in North Vietnam.

Developed partnership with collaborators and provide them with technical support to enhance their capacity to conduct research.

Prepared progress reports for the projects under the ILRI-IFPRI Joint Program.

Assisted in writing proposals related to high-value agricultural markets covered by GRP 27, GRP 40 and the ILRI/IFPRI Joint Program on Livestock Market Opportunities, particularly on fruits, vegetables, livestock and dairy product markets.

January 1998 – September 2002 Assistant Scientist II, International Rice Research Institute, Los Banos, Laguna, Philippines (started as Assistant Scientist I)

Carried out empirical analysis through data acquisition and documentation; econometric analysis and report preparation related to productivity and efficiency changes of intensive irrigated rice systems in Asia; provided training and guidance to collaborators in terms of data collection, documentation, and statistical analysis.

Involved in data collection and analysis of a study on the impact assessment of microcredit project in the Philippines targeted to poor rural women, CARD Bank, Inc. (Center for Agricultural Rural Development, Inc.) which is a replication of the Bangladesh Grameen Bank model in Bangladesh.

January 1997 – January 1998 Senior Research Assistant, International Center for Living Aquatic Resources and Management (ICLARM) (now WorldFish), Makati, Philippines

Provided research assistance for socioeconomic analysis of freshwater capture fisheries in Cambodia, demand assessment of bangus fry in the Philippines, impact assessment of production and marketing of inland fisheries products in the Philippines, and design of survey questionnaires for the fisheries management and socioeconomic issues of selected reservoirs in the Central Highlands of Vietnam.

May 1994 – December 1996 Research Assistant, International Rice Research Institute, Los Banos, Laguna, Philippines

Designed and conducted survey, and provided technical support for the impact assessment of a non-government organization engaged in micro-credit (a replication of Grameen Bank's micro-credit program); Conducted survey and data analysis on rice technology, income distribution and poverty in the Philippines; Provided research assistance for data collection, econometric analysis of rice production growth under increasing resource constraints as well as on the evaluation of potential gains from rice research, and for policy analysis of agricultural commodities.

July 1991- March 1992 Graduate Assistant, International Rice Research Institute, Los Banos, Laguna, Philippines

Provided research assistance for literature reviews and statistical analysis of high yielding rice varieties in Asia.

July 1990 – April 1992 Research Assistant, Sarmiento Research and Development Corporation, Makati, Philippines

Provided technical support in the preparation of project proposals and appraisals, feasibility studies, project reports, and training modules.

July 1987-October 1990 Instructor, University of Eastern Philippines, Catarman, Northern Samar, Philippines

Taught mathematics subjects such as Trigonometry, Algebra, Calculus, and Statistics to Math major students.

PUBLICATIONS

Published as Journal article:

De Groote, H., C. Narrod, S. Kimenju, C. Bett, R. Scott, M. Tiongco, and Z. Gitonga. 2015. Measuring rural consumers' willingness to pay for quality labels using experimental auctions: the case of aflatoxin-free maize in Kenya. (accepted for publication to *Agricultural Economics*)

Cororaton, C., A. Inocencio, A. B. Siriban -Manalang, and M. Tiongco. 2015. A Conceptual Framework for Estimating the Impact of Climatic Uncertainty and Shocks on Land Use, Food Production, and Poverty in the Philippines. *DLSU Business and Economics Review*. January 2015 Vol. 24.No. 2, pp. 13-32. Manila: DLSU Publishing House. *ISSN 0116-7111*

Narrod, C., M.Tiongco, G. Mahuku, H. de Groote, J. Hellin, C. Bett, H. Nzioki, S. Collins, S. Guantai, F. Waliyar, J. Ndjeunga, D. Bamory, K. Ondie, D. Lamissa, P. Masuoka, and F. Wu. 2013. No chance for Aflatoxins. In *Food Losses* (03.04.2013). *Rural21: The International Journal for Rural Development*.
<http://www.rural21.com/english/news/detail/article/no-chance-for-aflatoxins-0000656/>

- Yamauchi, F., and Tiongco, M. 2012. Why Women are Progressive in Education? Gender Disparities in Human Capital, Labor Markets and Family Arrangement in the Philippines. *Economics of Education Review* 32 (2013) 196– 206. <http://dx.doi.org/10.1016/j.econedurev.2012.09.003>. Also published as IFPRI Discussion Paper 1155. IFPRI, Washington, DC. <http://www.ifpri.org/sites/default/files/publications/ifpridp01155.pdf>.
- Narro, C., J. Zinsstag, and M. Tiongco. 2012. A One Health Framework for Estimating the Economic Costs of Zoonotic Diseases on Society. *EcoHealth*. Vol 9(2). Pp 150-162. DOI: 10.1007/s10393-012-0747-9. ISSN: 1612-9202(Print); 1612-9210(Online).
- Lapar M. L, Tiongco, M. 2011. Private standards in pork value chains: role, impact, and potential for local innovation to improve food safety and enhance smallholder competitiveness. *Farm Policy Journal*. Vol 8(3). Pp 39-53. Australian Farm Institute.
- Narro, C., M. Tiongco, and R. Scott. 2011. Current and predicted trends in production, consumption and trade of live animals and their products. Special Issue of the Spread of Pathogens through International Trade. Current and Predicted Trends in the Production, Consumption and Trade of Live Animals and their Products. *Revue Scientifique et Technique - Office International des Epizooties (OIE Scientific and Technical Review)* 30(1): 31-49. ISSN: 0253-1933(Print); 1608-0637 (Electronic).
- Akunzule, N.A., E. Koney, and M. Tiongco. 2009. Economic impact assessment of HPAI on the poultry industry in Ghana. *World's Poultry Science Journal*, Vol. 65(3), September 2009. Pp.517-527. ISSN: 0043-9339;EISSN: 1743-4777
- Birthal, P.S., A. K. Jha, M.Tiongco, and C. Narro. 2009. Farm-Level Impacts of Vertical Coordination of the Food Supply Chain: Evidence from Contract Farming of Milk in India. *The Indian Journal of Agricultural Economics*, Vol 64(3). Pp 481-496. ISSN: 00195014
- Delgado, C., N. Minot, and M. Tiongco. 2005. Evidence and Implications of Non-Tradability of Food Staples in Tanzania 1983-1998. *Journal of Development Studies*. Vol 41, No. 3, April 2005, 376-393. Routledge , U.K. DOI: 10.1080/0022038042000313291. ISSN 0022-0388 (Print), 1743-9140 (Online). (Also published in IFPRI as an MTID Discussion Paper #72, July 2004).
- Tiongco, M. and D. Dawe. 2002. Long-term Evolution of Productivity in a Sample of Philippine Rice Farms: Implications for Sustainability and Future Research. *World Development*, Vol.30, No. 5, May 2002, 891-898. ISSN: 0305-750X

Published as Book Chapter:

- Avendaño, B, C. Narro, and M. Tiongco. 2013. The Role of Public-Private Partnerships on the Access of Smallholder Producers of Mexican Cantaloupe to Fresh Produce Export Markets. Chapter 4, Part I in “Improving Import Food Safety” eds. By Lorna Zach, Wayne Ellefson and Darryl Sullivan. IFT Press, Wiley-Blackwell, John Wiley & Sons (368 pages). ISBN: 978-0-8138-0877-2. Pp. 65-85. Based on a paper presented at the conference on Food import safety: systems, infrastructure, and governance, University of Wisconsin-Madison, May 26-27, 2009.
- Chenevix -Trench, P., C. Narro, D. Roy, M. Tiongco. 2012. Responding to Health Risks Along the Value Chain. Chapter 11 in “Reshaping agriculture for nutrition and health,” edited by Shenggen Fan and Rajul Pandya-Lorch. IFPRI, Washington, D.C. pp. 93-102. <http://www.ifpri.org/sites/default/files/publications/oc69ch11.pdf>. ISBN: 978-0-89629-673-2.

- Tiongco, M., Narrod, C., M. Kobayashi, R. Scott, and J. Omiti. 2012. Understanding knowledge, attitude, perceptions, and practices for HPAI risks and management options among Kenyan poultry producers. In Chapter 15 of the book on Health and Animal Agriculture in Developing Countries, Natural Resource Management and Policy (36), edited by David Zilberman, Joachim Otte, David Roland Holst, and Dirk Pfeiffer. Springer New York and The Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00153 Rome, Italy. pp. 281-304. *ISBN: 978-1-4419-7076-3 (Print) 978-1-4419-7077-0 (Online)*.
- Tiongco, M. 2011. Food security versus Agricultural Exports: the case of the Philippines. Chapter 8 in Agricultural Development, Trade and Regional Cooperation in Integrating and Industrializing East Asia, edited by P. S. Intal, S. Oum, and M. Semorangkir. Economic Research Institute for ASEAN and East Asia. Jakarta, Indonesia. Pp. 356-400. *ISBN: 978-602-8660-43-3*
- Tiongco, M., C. Narrod, and K. Bidwell. 2010. Risk analysis integrating livelihood and economic impacts of wastewater irrigation on health. In Chapter 7 of the book on “Wastewater irrigation and health: Assessing and mitigating risk in low income countries,” by Drechsel, P., C.A. Scott, L. Raschid, M. Redwood, and A. Bahri (eds). Earthscan, London. 2009. pp. 127-145. http://www.idrc.ca/en/ev-149129_201-1-DO_TOPIC.html. *ISBN: 978-1-84407-795-3(Print) 978-1-55250-475-8) (Online)*.
- Narrod, C., C. Delgado, and M. Tiongco. 2010. Socio-Economic Implications of the Livestock Industrialization Process: How will Smallholders Fare (Chapter 14). In Livestock in a Changing Landscape, Volume 1: Drivers, Consequences and Responses, edited by Henning Steinfeld, Harold A. Mooney, Fritz Schneider, and Laurie E. Neville. Island Press. Washington, D.C., U.S.A. pp. 269-284. *ISBN: 978-1-59726-671-0*.
- Rola, A., W. Rola, C. Delgado, and M. Tiongco. 2007. An example of livestock intensification and the role of smallholders: Philippines hog and poultry sectors. Animal production and animal science worldwide - Waap (World Association for Animal Production), edited by: A. Rosati, A. Tewolde and C. Mosconi, Waap book of the year, Volume 3. Wageningen Academic Publishers. Netherlands. pp 249-262. (based on MTID DP#59). *ISBN: 978-90-8686-034-0(Print) 978-90-8686-034-1) (Online)*.
- Dobermann, A., G.C. Simbahan, P.F. Moya, M.A.A. Adviento, M. Tiongco, C. Witt, and D. Dawe Methodology for Socioeconomic and Agronomic On-farm Research in the RTDP Project. In Increasing Productivity of Intensive Rice Systems Through Site -Specific Nutrient Management edited by A. Dobermann, C. Witt, and D. Dawe, 2004, IRRI and Science Publishers Inc. (SPI).
- Moya, P.F., Dawe, D., Pabale, D., Tiongco, M., Chien, N.V., Devarajan, S., Djatiharti, A., Lai, N.X., Niyomvit, L., Ping, H.X., Redondo, G., Wardana, P. 2004. The Economics of Intensively Irrigated Rice in Asia. In Increasing the productivity of intensive rice systems through site-specific nutrient management. Dobermann A, Witt C, Dawe D (editors). Enfield, N.H. (USA) and Los Baños (Philippines): Science Publishers, Inc. and International Rice Research Institute (IRRI), pp. 29-58.
- Tiongco, M. and D. Dawe. 2003. The Economics of Potassium Use in Asian Rice. In Feed the soil to feed the people – the role of potash in sustainable agriculture edited by A.E. Johnston, International Potash Institute (IPI), Vol 1, 2003, pp. 155-168. This publication resulted from the proceedings of the IPI Congress held in Basel, Switzerland, October 8-10, 2002.

Published as IFPRI Research Monograph/Book (formerly IFPRI Research Report):

Delgado, C., C. Narrod, and M. Tiongco. 2008. *Determinants and Implications of the Growing Scale*

of Livestock Farms in Four Fast-Growing Developing Countries (with Ma. Angeles Catelo, Achilles Costales, Rajesh Mehta, Viroj Naranong, Nipon Poapongsakorn, Vijay Paul Sharma, and Sergio de Zen), IFPRI Research Report # 157, June 2008. ISBN 978-0-89629-166-9. Available online at <http://www.ifpri.org/pubs/abstract/157/rr157.pdf>.

Costales, A.C., C. Delgado, M. A. Catelo, M. L. Lapar, M. Tiongco, S. Ehui, and A. Z. Bautista. 2007. *Scale and Access Issues Affecting Smallholder Hog Producers in an Expanding Peri-Urban Market: Southern Luzon, Philippines*, IFPRI Research Report No. 151. April 2007. ISBN-13: 978-0-89629-159-1 Available online at <http://www.ifpri.org/pubs/abstract/151/rr151.pdf>.

Working papers:

Yamauchi, F. and M. Tiongco. 2015. *Labor Market Returns to Out-of-School Program in the Philippines: Evidence from an Unusual Tracking Survey*. World Bank Policy Note

Tiongco, M., Espaldon, M. V., Ancog, R., Quiray, A., Bolislis, W., Jaffee, S. and Frias, J. 2015. From Agricultural Productivity to Agricultural Sustainability in a Changing Environment: The Challenge for Green Agriculture in the Philippines.

Tiongco, M. 2015. Climate Change Adaptation and Mitigation in the Agriculture Sector. Chapter 6 of an IFPRI-NEDA edited book on “Addressing the Impacts of Climate Change in the Philippine Agriculture Sector.

Bautista, R., A. Biana, D. Pulido, and M. Tiongco. 2015. *The Daily Grind: Female Farmers and the Business of Coffee*. DLSU

Yoshinaga, K., A. Inocencio, and M. Tiongco. Irrigators Associations in O&M PPP: From Fallacy to Option. DLSU

Conchada, M. and M. Tiongco. 2014. Assessing the impact of conditional cash transfer on maternal health care: the case of 4Ps in Bagac, Bataan. DLSU-AKI

Conchada, M. and Tiongco, M. 2014. Optimal Allocation of School and Health Resources for Effective Delivery of the Conditional Cash Transfer Program in Bagac, Bataan. DLSU-AKI.

Narro, C. M., Tiongco, J. Ndjeunga, W. Collier, and L. Diakite. 2012. Do Knowledge, Attitude, and Perceptions about Aflatoxin Affect Producer’s Actions: A Case Study of Malian Groundnut Producers?

Tiongco, M., C. Narrod, H. De Groote, J. Ndjeunga. 2012. Assessing the Impact of Aflatoxin Contamination on Poor Households’ Income and Wealth in Kenya and Mali. Working paper for submission as IFPRI DP.

Tiongco, M., C. Narrod, and W. Collier, J. Ndjeunga, and H. De Groote. 2012. Gender differences in knowledge, attitude, perceptions, and practices about aflatoxin and risk management decisions among poor households in Kenya and Mali. Working Paper for submission as IFPRI DP. IFPRI, Washington, D.C.

Tiongco M., M. Hossain, and B. Bagchi. 2012. Determinants of Rice Variety Diversity on Household Farms in West Bengal and Orissa. Paper to be submitted to Harvest Plus for consideration as Harvest Plus Working Paper.

Wu, F., C. Narrod, M. Tiongco, and Y. Liu. 2011. The Health Economics of Aflatoxin: Global Burden of Disease. Project Paper. Aflacontrol Working Paper 4 for the BMGF Project on “Exploring the Scope of Cost-Effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut

- Value Chains so as to Improve Market Access of the Poor in Africa”. IFPRI, Washington, D.C. <http://www.ifpri.org/publication/health-economics-aflatoxin>
- Narro, C.; M. Tiongco, M. Kobayashi, R. Scott, and W. Collier. 2011. Understanding knowledge, attitude, perceptions, and practices for avian influenza risk and management options amongst African poultry producers. Working paper submitted as IFPRI DP. IFPRI, Washington, D.C.
- Tiongco, M. 2011. Impact of aflatoxin shocks and threats to household income and wealth: a methodological framework. Project paper for the BMGF Project on “Exploring the Scope of Cost-Effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut Value Chains so as to Improve Market Access of the Poor in Africa”. IFPRI, Washington, D.C.
- Narro, C.; M. Tiongco, M. Kobayashi, R. Scott, A. Saak, and G. Ayele. 2011. Evaluating Risk Management Options to Reduce the Risk of HPAI for Ethiopia’s Poor Poultry Producers. Draft Report to Department for International Development (DfID). January 15, 2011. IFPRI, Washington, D.C.
- Narro, C.; M. Tiongco, M. Kobayashi, R. Scott, A. Saak, and A. Mensah-Bonsu. Evaluating Risk Management Options to Reduce the Risk of HPAI for Ghana’s Poor Poultry Producers. Draft Report to Department for International Development (DfID). January 15, 2011. IFPRI, Washington, D.C.
- Narro, C.; M. Tiongco, M. Kobayashi, R. Scott, A. Saak, and J. Omiti. Evaluating Risk Management Options to Reduce the Risk of HPAI for Kenya’s Poor Poultry Producers. Draft Report to Department for International Development (DfID). January 15, 2011. IFPRI, Washington, D.C.
- Narro, C.; M. Tiongco, M. Kobayashi, R. Scott, A. Saak, and N. Nuryartono. Evaluating Risk Management Options to Reduce the Risk of HPAI for Indonesia’s Poor Poultry Producers. Draft Report to Department for International Development (DfID). January 15, 2011. IFPRI, Washington, D.C.
- Narro, C., Wu, F., M. Tiongco, Y. Liu, and Y. Yakshilikov. 2010. A Framework for the Risk Analysis Approach to Identifying cost-effective control strategies. Project Paper for the BMGF Project on “Exploring the Scope of Cost-Effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut Value Chains so as to Improve Market Access of the Poor in Africa”. IFPRI.

Selected Conference Papers/Discussion Papers/Project Reports:

- Tiongco, M., Espaldon, M. V., Ancog, R., Quiray, W., Jaffee, S. and Frias, J. 2015. Green Agriculture in the Philippines: An old wine in a new bottle? Presented at the 16th Global Development Network Conference, June 11-13, 2015, Casablanca, Morocco.
- Tiongco, M. Measuring Inefficiency in Public Health Expenditures and Health Outcomes in the Philippines.
- Conchada, M. and M. Tiongco. 2014. Assessing the impact of conditional cash transfer on maternal health care: the case of 4Ps in Bagac, Bataan. Presented at the 14th EAEA Conference held in Chulalongkorn University, Bangkok, Thailand on November 1-2, 2014, and at the 52nd Philippine Economic Society held at Intercontinental Manila, on November 15, 2014.
- Tiongco, M., Espaldon, M. V., Ancog, R., Quiray, A., and Bolislis, W. 2014. National Green Agriculture Policies and Strategies: Closing the Gap between Aspirations and Applications.

- Conchada, M. and Tiongco, M. 2014. Optimal Allocation of School and Health Resources for Effective Delivery of the Conditional Cash Transfer Program in Bagac, Bataan. Presented at the DLSU Research Congress 2014, March 5-6, 2014.
- Tiongco, M. 2014. Climate Change Adaptation and Mitigation in the Agriculture Sector. Presented at the Inception Workshop of IFPRI-NEDA's project on "Addressing the Impacts of Climate Change in the Philippine Agriculture Sector held at Eastwood Richmonde Hotel, Eastwood, Quezon City, on January 13-14, 2014.
- Tiongco, M. 2013. Aspirations of Filipino Women Entrepreneurs in the Informal Economy. Presented at the 51st Philippine Economic Society held at Intercontinental Manila, on November 15, 2013.
- Tiongco, M. 2013. The Role of Agricultural Input Policies in Transforming Agriculture in the Philippines Presented at an international conference entitled Agricultural Transformation in Asia: Policy Options for Food and Nutrition Security that will be jointly organized by the Cambodia Development Resource Institute (CDRI) and held at the Apsara Angkor Resort & Conference Center, Siem Reap, Cambodia on September 25-27, 2013
- Yamauchi, F. and M. Tiongco. 2012. Why Women are Progressive in Education? Gender Disparities in Human Capital, Labor Markets and Family Arrangement in the Philippines. IFPRI Discussion Paper 1155. January 2012. IFPRI, Washington, DC. presented at the SEARCA-ADSS seminar series in UPLB at Los Banos on September 13, 2011; and at the PIDS-DepEd Education Forum on School Intervention and Gender Issues in Philippine Education, in Makati, Philippines held on September 20, 2011.
<http://www.ifpri.org/sites/default/files/publications/ifpridp01155.pdf>
- Chenevix -Trench, P., C. Narrod, D. Roy, M. Tiongco. 2011. Responding to Health Risks Along the Value Chain. 2020 Vision Initiative. Paper presented at the 2020 Conference on Leveraging Agriculture for Improving Nutrition and Health, New Delhi, India.
- Determinants of adoption of modern varieties and rice varietal diversity on household farms in Bangladesh, presented at the Harvest Plus Workshop on Farmer Adoption and Consumer Acceptance of Biofortified Varieties of Staple Crops held on November 8-9, IFPRI, Washington, D.C.
- Estimating Demand for Aflatoxin Risk Reducing Strategies in Kenya, presented at the Final Workshop of Aflcontrol Project held in Nairobi, Kenya on November 30, 2011
- Impacts of aflatoxin contamination on livelihoods of the poor households, presented at the Final Workshop of Aflacontrol Project held in Nairobi, Kenya on November 30, 2011
- Tiongco, M., Narrod, C.; M. Kobayashi, R. Scott, and N. Nuryartono. 2011. Understanding knowledge, attitude, perceptions, and practices for HPAI risks and management options among small scale poultry producers in Indonesia. Paper prepared for presentation at the 7th ASAE International Conference, Meeting the Challenges Facing Asian Agriculture and Agricultural Economics toward a Sustainable Future, to be held in Hanoi, Vietnam on October 13-15, 2011.
- Tiongco, M., M. L. Lapar, A. Costales, N.T. Son, M. Jabbar, and S. Staal. Is contract farming really pro -poor? Empirical evidence from Northern Vietnam. 2009. Contributed paper presented in The XXVII International Conference of Agricultural Economists, 16 ± 22 August 2009, International Convention Centre, Beijing, China.
http://ageconsearch.umn.edu/bitstream/51161/2/Ref361-Tiongco_et_al_2008_Is%20Contract%20Farming%20Really%20Propoor.pdf

- Knowledge and practices of Indonesian rural communities and poultry farmers toward Avian Flu. (by Yorbol Yakhshilikov, Marites Tiongco, Ekin Birol, Clare Narrod, and Jed Friedman) HPAI Research Brief No. 17. 2009. Available online at http://www.hpai-research.net/docs/Research_briefs/IFPRI-ILRI/IFPRI_ILRI_rbr17.pdf
- A Contingent Valuation Study on Indonesian Farmers' Willingness to Accept Compensation for Poultry. (by Yorbol Yakhshilikov, Ekin Birol, Marites Tiongco, Clare Narrod, and Jed Friedman). HPAI Research Brief No. 18. 2009. Available online at http://www.hpai-research.net/docs/Research_briefs/IFPRI-ILRI/IFPRI_ILRI_rbr18.pdf
- Determinants of the scaling up of commercial poultry production in India. (by Mehta, R., C. Narrod, and M. Tiongco). Research and Information System for Developing Countries (RIS) Discussion Paper #146. 2009. New Delhi, India.
- Technology transfer, policies, and the role of private sector in the global poultry revolution. (by Narrod, C., C.E. Pray, and M.Tiongco). 2008. IFPRI Discussion Paper #841. Available online at <http://www.ifpri.org/pubs/dp/IFPRIDP00841.pdf>.
- Improving Farm-to-Market Linkages through Contract Farming: A Case Study of Smallholder Dairying in India (by Pratap S. Birthal, Awadesh K. Jha, Marites Tiongco, and Clare Narrod), IFPRI Discussion Paper #814. 2008. Available online at: <http://www.ifpri.org/pubs/dp/IFPRIDP00814.pdf>.
- Structural Changes in the Philippine Pig Industry and their Environmental Implications (with Maria Angeles Catelo and Clare Narrod), IFPRI Discussion Paper #781. 2008. Available online at: <http://www.ifpri.org/pubs/dp/IFPRIDP00781.pdf>.
- Contract Farming of Swine in Southeast Asia as a Response to Changing Market Demand for Quality and Safety in Pork (with Maria Lucila Lapar and Maria Angeles Catelo), IFPRI Discussion Paper #779. 2008. Available at online: <http://www.ifpri.org/pubs/dp/IFPRIDP00779.pdf>.
- The Role of Information Networks Along the Poultry Value Chain. (by Ekin Birol and Marites Tiongco). HPAI Research Brief No. 4. 2008. Available online at http://www.hpai-research.net/docs/Research_briefs/IFPRI-ILRI/IFPRI_ILRI_rbr04.pdf
- Pro-poor risk reduction strategies: Synthesis of country background papers. (by M. Tiongco). 2008. Africa/Indonesia Region Working Paper No. 6. Available online at http://www.hpai-research.net/working_papers%20.html.
- Cost and benefits of HPAI prevention and control measures: A methodological review. (by M. Tiongco). 2008. Africa/Indonesia Region Working Paper No. 13. Available online at http://www.hpai-research.net/working_papers%20.html.
- Global poultry sector trends and external drivers for structural change (by Clare Narrod, Marites Tiongco and Achilles Costales). In Workshop proceedings of the International Conference entitled ^a Poultry in the 21st Century ± Avian Influenza and Beyond^o held in Bangkok, Thailand on November 5-7, 2007. 2008. ed. O. Thieme, and D. Pilling, FAO Animal Production and Health Proceedings, No. 9, Rome: Food and Agricultural Organization of the United Nations (FAO). Available online at http://www.fao.org/AG/againfo/home/events/bangkok2007/docs/part1/1_1.pdf
- From farm to table: Better food safety for better development in Uzbekistan. Report prepared by the International Food Policy Research Institute for the World Bank. Washington, D.C. (by E. Birol, M. Tiongco, J. Jansen, S. El Hag El Tahir, A. Giertz, J. Ilyasov, R. Menon). 2008

- Staple crop marketing in sub-Saharan Africa: Ten case studies. Report prepared by the International Food Policy Research Institute for the Bill and Melinda Gates Foundation. Washington, D.C. (by Minot, N., R. V. Hill, T. Bernard, M. Tiongco, and D. Roy). 2008.
- Determinants of Participation in Contract Farming in Pig Production in Northern Vietnam (A. Costales, N.T. Son, L. Lapar, and M.Tiongco. Pro-Poor Livestock Policy Initiative Research Report 08-04, April 2008. Available on line at: http://www.fao.org/ag/againfo/programmes/en/pplpi/docarc/rep_0804_Determinants_of_Participation_ACostales_080409.pdf
- Contract Farming for Equitable Market -Oriented Swine Production in Northern Vietnam (with Ma. Lucila Lapar (ILRI), Nguyen Son (HAU), and Achilles Costales (PPLPI-FAO), Final Report to FAO, November 2007.
- Strengthening Market Linkages of Smallholder Pig Producers through Informal Contracts in Northern Vietnam. (with Costales, A., N.T. Son, M.L. Lapar). a paper presented at the Conference on 'Development of Animal Husbandry and Breeding of Special Local Breeds in Smallholder Production Systems in Northern Mountain Areas in Vietnam: Research, Application and Extension', Son La Province, Vietnam, held on September 19-21, 2007 sponsored by Vietnam Ministry of Agriculture and Rural Development (MARD) and Hohenheim University, Federal Republic of Germany.
- Equitable Intensification of Market -Oriented Smallholder Dairy and Poultry Production in India through Contract Farming: A Synthesis (with Christopher Delgado and Clare Narrod), Final Report to FAO, June 30, 2006.
- Equitable Intensification of Market-Oriented Smallholder Dairy Production in India through Contract Farming (with Pratap BIRTHAL, Awadhesh K. Jah, Christopher Delgado, Clare Narrod, and P.K.Joshi), Final Report to FAO, May 31, 2006.
- Equitable Intensification of Market-Oriented Smallholder Poultry Production in India through Contract Farming (with Mohamed Nadeem Fairoze, Lalith Achoth, Prasanna Rashmi, Christopher Delgado, Clare Narrod, and P.G. Chengappa), Final Report to FAO, May 31, 2006.
- Smallholder Contract Farming of Swine in Northern Viet Nam:Contract Types (with Achilles Costales, Nguyen Son, Ma. Lucila Lapar), Pro-Poor Livestock Policy Initiative-FAO Research Report. 2006.
- Smallholder Contract Farming of Swine in Northern Viet Nam: Study Design (with Achilles Costales, Nguyen Son, Ma. Lucila Lapar, and Christopher Delgado), Pro-Poor Livestock Policy Initiative-FAO Research Report. 2005
- Maintaining Smallholder Competitiveness through Contract Farming: A Look at Monogastric Livestock Production in India, the Philippines, and Thailand (with Christopher Delgado and Clare Narrod), Working Paper. 2005.
- Implications of the Scaling-up of Livestock Production in a Group of Fast-growing Developing Countries (with Christopher Delgado and Clare Narrod) in *Livestock and Livelihoods: Challenges and Opportunities for Asia in the Emerging Market Environment* edited by Vinod Ahuja, National Dairy Development Board, Anand, India and Food and Agriculture Organization of the United Nations, Rome, Italy. pp 95-131. September 2004.
- Livestock Industrialization in the Philippines: Can Smallholder Broiler and Pig Producers Thrive?" by Achilles C. Costales, Food and Agriculture Organization of the United Nations (FAO); Christopher Delgado (IFPRI), Maria Angeles Catelo (UPLB), Marites Tiongco (IFPRI), Amal

Chatterjee, Jr. (UPLB), and Amelia de los Reyes (UPLB) . A paper drawn from the Philippines volume of the IFPRI-FAO Livestock Industrialization Study concluded in 2003, and won first place in the contributed paper competition of the 45th annual meetings of the Philippine Agricultural Economics and Development Association in Manila, Philippines.

Policy, Technical and Environmental Determinants and Implications of the Scaling-up of Livestock Production in Four Fast-Growing Developing Countries: A Synthesis. (with Christopher Delgado and Clare A. Narrod), Final Report to FAO, July 24, 2003.

Policy, Technical and Environmental Determinants and Implications of the Scaling-up of Broiler and Swine Production in the Philippines (with Achilles C. Costales, Christopher Delgado, Ma. Angeles O. Catelo, Amal Chatterjee, and Amelia delos Reyes), Final Report to FAO, July 24, 2003.

Policy, Technical and Environmental Determinants and Implications of the Scaling-up of Swine, Broiler, Layer, and Milk Production in Thailand (with Nipon Poapongsakorn, Viroj NaRanong, Christopher Delgado, Clare A. Narrod, Pawin Siriprapanukul, Nipa Sriant, Paisit Goolchai, Somkiat Ruangchan, Sake Methrsurarak, Tipatree Jittreekhun, Nawarat Chalernpao, and Benjarong Suwankiri), Final Report to FAO, July 24, 2003.

Policy, Technical and Environmental Determinants and Implications of the Scaling-up of Swine, Broiler, Layer, and Milk Production in Brazil (with Geraldo Sant' Ana de Camargo Barros, Sergio De Zen, Mirian Rumenos Piedade Bacchi, Silvia Helena Galvão de Miranda, and Clare A. Narrod), (Final Report to FAO, July 24, 2003).

Livestock Intensification and Smallholders: A Rapid Reconnaissance of the Philippines Hog and Poultry Sector (with A. Rola, W. Rola, and C. Delgado). MTID Discussion Paper 59, IFPRI, April 2003.

PROJECTS

How the Department of Health and Other Interventions Close the Gap in Health

Outcome Disparities among Local Government Units (November 2014-September 2015), funded by the European Commission

In collaboration with the Bureau of Local Health Systems Development and the De La Salle University (DLSU), the project aims to review the impact of the LGC on the implementation of the UHC strategy and to provide a deeper understanding of how DOH programs and other interventions reduce existing disparities; what works, what not and why. As the economist of the project, my main responsibilities are to review the financing mechanisms, financial resources, budgeting and expenditure allocations of LGUs on health service delivery and analyze disparities in health service delivery whether the existing financing scheme and programs are closing these gaps.

Impact Assessment of the National Greening Program (NGP) of the Department of Environment and Natural Resources (DENR): Scoping or Process Evaluation Phase, Economic Component [PIDS-IE/14-2015/33]

In collaboration with the University of the Philippines Los Baños, this project

aims to assess the impacts of the NGP to food security, poverty alleviation, environmental stability, biodiversity conservation, and climate change mitigation and adaptation goals of the government. The project's specific objectives of the economic component are to: 1) Estimate NGP's economic impacts to project beneficiaries in terms of building up capital for improved livelihood for sustained increased income and in terms of the potential benefits it will contribute to the economic growth of the communities in the short term, municipality in the mid-term and province/region in the long-term; 2) Conduct an extended-Cost-Benefit Analysis (extended-CBA) taking into account all costs and benefits that are quantifiable in this project; and 3) Simulate potential long run economy-wide impact of NGP on the economy, incomes through the employment/livelihood component and poverty and the environment using Computable General Equilibrium (CGE) model to derive policy options that will optimize NGP performance. I am part of the team that looks at objective (3), specifically on factors (such as changes in employment and factor incomes, and changes in commodity prices) that affect household income and expenditure, and the impact of NGP on poverty and income distributional impacts across households groups.

Philippines Alternative Learning System (ALS) Survey (September ± November 2013, funded by the World Bank, Philippines)

The objective of this survey is to collect information in National Capital Region and its surrounding provinces, i.e., Laguna and Rizal on (i) ALS learners' background and life course after they complete the program and (ii) ALS providers' background. The survey includes tracking of former learners who were enrolled in the program in 2010 and 2011, and also those adult learners and out-of school youth who were interested in ALS but did not enroll. Sample data used for sampling respondents is extracted from literacy mapping conducted by the Department of Education with the assistance of barangay officials. While the ALS program has been operating since 1990, no reliable assessment of its impact has been conducted. This situation has constrained DepEd in deciding the correct course of action for the program in the years to come. The purpose of the survey is to evaluate the effectiveness of the ALS program and provide evidence-based policy recommendations to improve the program in the Philippines.

An Impact Evaluation Study on The Pantawid Pamilyang Pilipino Program (4Ps): Pilot Study in Bagac, Bataan (May 2013-May 2015, funded by DLSU-AKI)

The study aims to investigate the short term and long term impacts of the 4Ps in terms of its education and health, and labor market outcomes. In particular, the study will assess whether the program has improved the welfare of women leading to gender empowerment through a reduction in domestic violence and change in fertility rate, maternal health, and knowledge of nutrient dense in their children's diet, prevention of illness, morbidity symptoms. It will also look at the expenditure patterns of the family and any changes in the poverty status, assets and income of the beneficiaries in Bagac. The results of the study and the issues it addresses are intended to provide feedback into the planning system of the local government units in the study areas and also at the national level, particularly with the technical working groups for the 4Ps, in order that it translates to evidence-based policies.

Beyond the duration of the study, the goal is for it to serve as catalyst in initiating a regular

and continuing monitoring by the Department of Social Welfare and Development of the 4Ps program. This project is envisioned to be a long term commitment on research in food and nutrition security, poverty, and evidenced-based policy. The social relevance of the project include: 1) empowerment of women and parent-beneficiaries; 2) child rights and protection—improved delivery of health and education to children in order to attain efficient and sustainable social development; and 3) healthy and happy families as productive members of the society.

Exploring the Scope of Cost-Effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut Value Chains so as to Improve Market Access of the Poor in Africa (December 2008-February 2012, funded by the Bill and Melinda Gates Foundation)

The purpose of this project is to improve market access of the poor in Sub-Saharan Africa (Kenya and Mali) by providing empirical evidence of the cost-effectiveness of existing technologies to reduce aflatoxin risk and to understand the factors that prevent the poor from adopting control strategies along maize and groundnut value chains. My main contributions are to provide technical inputs for the cost-benefit/cost-effective analyses, adoption and willingness to pay for cost-effective risk reducing technologies. I am also responsible for the impact assessment of aflatoxin contamination on livelihoods (in terms of income and wealth) of poor households, and on the assessment of gender differences of knowledge, attitudes, and perceptions about aflatoxin risks and its risk management decisions. I also provide technical support to national collaborators on the risk pathway analysis of aflatoxin contamination along the value chain, and network mapping of institutional linkages along the value chain of maize and groundnuts.

Impact Evaluation of the Third Elementary Education Project in the Philippines (2010-2011, funded by JICA)

The objective of this project is to assess the impacts of a large-scale primary education intervention, Third Elementary Education Project (TEEP), implemented by the Philippine government on students' learning achievement, human capital formation and labor market outcomes by utilizing school database as well as conducting household and student tracking surveys in 8 provinces and 3 large metropolitan areas. My main contribution to this project is on coordination and monitoring of the tracking survey and in some cases on the household survey in the sample study areas in Northern Luzon and Western Visayas. I have also contributed to one of the papers that came out of the project' s household data titled ^a Why Females are Progressive in Education? Gender Disparities in Human Capital, Labor Markets and Family Arrangement in the Philippines.^o

Varietal diversification and the adoption of modern varieties of wheat and millet in India (2009-2011, funded by Harvest Plus through the Bill and Melinda Gates Foundation)

The aim of this project is to investigate various aspects of varietal diversification and adoption of modern varieties of wheat and millet in India. Results of this project are expected to help refine target areas for potential interventions, and to shed light on several development related issues, including, but not limited to, how best to ensure the adoption of the high yielding and nutrient rich modern varieties; what are the variety traits that farm

households value the most and hence would be most likely to adopt crops with these traits; and what kind of institutions (public, private, formal, informal) should be strengthened to ensure the adoption of modern varieties of crops. My contribution to this project is mainly on developing survey instruments, supervising data collection, training of enumerators, analyzing data, and writing up of reports and papers. In addition, I am also responsible for the econometric analysis of understanding the determinants of rice variety diversification of household farms in Bangladesh and West Bengal, India.

Improving the Competitiveness of Pig Producers in an Adjusting Vietnam Market (June 2007-2009, funded by ACIAR)

The objectives of this project are to: a) establish empirically the level of market demand for commercial and traditional quality attributes of pork in Vietnam; b) compare input supply and services arrangements (piglets, feeds and support services) as well as output marketing arrangements between smallholder pig raisers selling into higher priced market outlets versus those selling into lower priced ones; c) characterize the structure and conduct of the input and service providing firms and organizations (piglets, breeding services, feeds, extension, health, credit service) and pig market; d) assess the potential impact of selected institutional, technology and policy options for increasing the access of smallholder pig producers to improved inputs and services and accessing the high value supply chains under current market-oriented conditions, and e) Promote awareness and uptake of the pro-poor policy, institutional and investment options emerging from the project. My responsibilities are to: a) provide comments and suggestions for the design of survey instruments and descriptive analysis; b) provide inputs for the methodology, analysis and write up of results for the market survey data; c) provide technical inputs to methodology for estimating hedonic price model and for the partial equilibrium model, and provide inputs for the analysis and write up of results and d) contribute to write-up of the project' s synthesis report.

Department for International Development (DfID-UK) funded project on **Pro-poor Highly Pathogenic Avian Influenza (HPAI) Risk Reduction Strategies** (May 2007-2010)

The aim of this project is to help developing countries develop a cost-effective, efficient, equitable, and sustainable HPAI control and prevention strategies. Thus, the purpose is to aid decision makers in developing pro-poor HPAI control and prevention strategies at local, national and regional levels that are not only cost- effective and efficient in terms of reducing risk, but also enhance livelihoods, particularly those of the rural poor in developing countries. I am responsible for the synthesis of the background papers from the study countries (Ethiopia, Ghana, Nigeria, Kenya, and Indonesia). My main responsibilities are: a) to provide guidance on conducting value chain and institutional analyses of poultry and poultry products in Ethiopia, Ghana, Nigeria, Kenya, and Indonesia; b) to provide technical inputs to methodology used for the cost-benefit/cost-effectiveness analysis, and for the optimization model to simulate the effect of various risk reduction strategies on backyard/small-scale poultry producers; c) to develop questionnaires for the cost-benefit analysis of control measures at the farm household level, supervise data collection, train enumerators, analyze data, and write up of reports; and d) to develop a user-friendly spreadsheet model for the

cost-benefit analysis of control measures at the institutions level.

From Farm to Fork – Better Food Safety for Better Development in Uzbekistan (February ±April 2008, funded by the World Bank)

The objective of the consultancy is to conduct an institutional analysis to identify gaps in the current food safety regulatory and monitoring system in Uzbekistan.

The analysis helps build consensus on necessary reforms and areas for future investments to strengthen the existing system in order to better ensure food safety and limit negative impacts on the health of the population and improve export opportunities. I am responsible for value chain mapping for milk and grapes and I also contributed on the mapping of institutions and its linkages.

Staple Crops Value Chain Analysis for Selected Countries in Sub-Saharan Africa (February ±April 2008; funded by the Bill and Melinda Gates Foundation)

The objectives of the study are a) to summarize the patterns and recent trends in the marketing of four staple food crops (maize, cassava, sorghum, and rice) in selected Sub-Saharan African countries (Benin, Ghana, Malawi, Uganda, Nigeria, and Tanzania) including the role of these commodities in household livelihoods, marketing costs at different stages, the magnitude to flows through different channels, the extent of internal and cross-border trade, and the policy environment; b) to describe the patterns and recent trends in the processing of the four staple commodities in the same countries, including the cost of processing, the proportion of production undergoing different types of processing, the composition of small and large-scale processors, and policies affecting the sector; and c) to review current and potential interventions to improve the efficiency of staple crop marketing and, to the extent possible, to evaluate the qualitative impact of these interventions on farmers, traders, and consumers. I am responsible for the value chain analysis for rice and cassava in Ghana.

Contract Farming for Equitable Market-Oriented Smallholder Swine Production in Northern Vietnam June 2005-2007, funded by FAO)

This project seeks to identify a set of policy and intervention options for the facilitation of profitable market-oriented pig farming partnerships involving smallholders, and to understand barriers to participation of the poor in contract farming and other marketing arrangements in Northern Vietnam. It assesses a variety of institutional arrangements through selected case studies, and provides information on marketing arrangements for pigs and pig products under different institutional forms, and on contractor strategies for targeting and selecting producers in Northern Vietnam. I provided technical support to the national collaborator including econometric analysis, and in developing questionnaires for the household surveys and focus group discussions.

Contract Farming of Milk and Poultry in India January 2005-June 2006, funded by FAO)

The end purposes of the Project are to find ways to: (a) lower smallholder farmers' transaction and production costs; (b) increase smallholder farmers' access to services; (c) ensure product supply; (d) promote or maintain the spatial distribution of intensified animal production to reduce negative impact on the environment and public

health; and (e) promote the equitable development of the community at large. As lead researcher for this project, my responsibilities are to (a) organize, oversee, and monitor household surveys, focus group discussions, and outreach activities; and (b) conduct econometric analysis; (c) write the synthesis report.

Evaluating the Cost to Smallholders of Complying with Increased Food Safety Requirements: the Case of the Cantaloupe Small Producers in Mexico

(December 2005-2008)

The goal of this research is to better understand the cost of compliance issues of increased food safety requirements for a variety of commodities on smallholders. It investigates how small producers of cantaloupe in Mexico and Guatemala have responded to the increasing demands of food safety in the United States. I am responsible for providing technical inputs to the national collaborator in terms of developing the conceptual framework and supply chain analysis.

Improving Market Opportunities for Small-Scale Livestock Producers Through Effective Storage of Animal Feeds so as to Minimize Mycotoxins

(March 2007-February 2008- Phase I: Proposal development)

The purpose of the project is to better understand the economic and health implications of not reducing the risk of mycotoxins and the risk-risk trade-offs. It aims to aid decision-makers/policy makers in identifying cost-effective storage methods that would minimize mycotoxins thereby improving the livelihoods of small-scale crop and livestock producers. I conceptualized and developed the proposal for Phase I of this project. I also provided research support in the development of the full proposal submitted to potential donors (the proposal has been accepted and funded by the Bill and Melinda Gates Foundation in November 2008).

Highly Pathogenic Avian Influenza (HPAI) Compensation in Developing Countries: Issues and Good Practices (September- December 2006; funded by the World Bank, IFPRI, FAO, and OIE)

The objective of the study is to prepare a paper for the Bamako meeting in Mali in December 2006 identifying the best practices for compensation of producers of culled birds under developing country conditions. My contribution for this study was literature reviews on compensation schemes including types of losses to be compensated, deciding who to compensate, and organizing payments; and on poultry market chains in developing countries. Report is available at: <http://www.ifpri.org/publication/enhancing-control-highly-pathogenic-avian-influenza-developing-countries-through-compens>

Livestock Industrialization: Economies of Scale, Externalities, and Transaction Costs-Phase II (2002-2004)

The project examined the relative competitiveness of samples of small, medium, and large scale livestock and dairy farms, based on their relative efficiency in securing profits from a given level of farm production resources and facing a given set of farm input and output prices. Results were used to

assess the basis — or absence of basis — in the claim that larger-scale swine, broiler, layer, and dairy farms in the study countries are more profit efficient in production than smaller scale ones if family labor is not costed and if so why. The determinants of farm-specific relative efficiency were assessed, with particular attention to the roles of farm-specific transactions costs, policy distortions, and environmental externalities that differ per unit of output across different size operations. In addition to coordinating and monitoring the project's activities, I am responsible for the econometric analysis for the livestock commodities covered in the four study countries. I also have contributed heavily writing up the Research Report (No.157) that came out from this project.

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