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### Current Position

Chief Economist, Food and Agriculture Organization of the United Nations (FAO), Rome, Italy (January 2019 – Present).

### Education

**Post-Doctorate** in 1999 at University of California at Los Angeles, Institute of Social Science Research.

**Ph.D.** received September 1998, University of California at Los Angeles, Department of Economics.

**M.A.** received September 1993, University of California at Los Angeles, Department of Economics.

### Publications<sup>1</sup>

#### **In Peer-Reviewed Journals**

(with Lukas Kornher, Zaneta Kubik and Bezawit Beyene). (Pending). The Aid-Nutrition Link: Does Targeted Development Assistance Related to Food Systems Matter? *World Development*.

(with Francesco N. Tubiello et al.). (2022). Pre- and Post-Production Processes Increasingly Dominate Greenhouse Gas Emissions from Agri-Food Systems. *Earth Syst. Sci. Data*, 14, 1795–1809. <https://doi.org/10.5194/essd-14-1795-2022>.

(with Pedro Herrera-Catalán and Coro Chasco). (2022). Spatial Spillover Effects of Agricultural Transport Costs in Peru, *Land* 11, no. 1: 58. <https://doi.org/10.3390/land11010058>

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(with Luciana Delgado and Monica Schuster). (2021). On the Origins of Food Loss. *Applied Economic Perspectives and Policy*, 2021; 1– 31, <https://doi.org/10.1002/aep.13156>.

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<sup>1</sup> Google Scholar: 9458 citations (H-index 42, I10-Index 114); REPEC: top 5% in all related productivity and citation measures.

- (with Andrea Cattaneo, Marco V. Sánchez and Rob Vos). (2021). Reducing Food Loss and Waste: Five Challenges for Policy and Research. *Food Policy*, Volume 98, 101974, ISSN 0306-9192, published online in 2020, <https://doi.org/10.1016/j.foodpol.2020.101974>.
- (with Luciana Delgado and Monica Schuster). (2021). Quantity and Quality Food Losses Across the Value Chain: A Comparative Analysis. *Food Policy*, Volume 98, 101958, ISSN 0306-9192, published online in 2020, <https://doi.org/10.1016/j.foodpol.2020.101958>.
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- (with Valeria Piñeiro, Joaquín Arias, Jochen Dürr, Pablo Elverdin, Ana María Ibáñez, Alison Kinengyere, Cristian Morales Opazo, Nkechi Owoo, Jessica R. Page, Steven D. Prager). (2020). A Scoping Review on Incentives for Adoption of Sustainable Agricultural Practices and Their Outcomes. *Nat Sustain* 3, 809–820, <https://doi.org/10.1038/s41893-020-00617-y>.
- (with Sandip Mitra, Dilip Mookherjee and Sujata Visaria). (2018). Asymmetric Information and Middleman Margins: An Experiment with West Bengal Potato Farmers. *The Review of Economics and Statistics*, MIT Press, vol. 100(1), pp. 1-13, March, [http://dx.doi.org/10.1162/REST\\_a\\_00699](http://dx.doi.org/10.1162/REST_a_00699).
- (with Zhang, Jian; Jin, Songking and Tao, Li). (2018). Teachers, Compensation, and Urban-Rural Gaps in Education Outcomes. *American Journal of Agricultural Economics*, 100: 1207-1223, <https://doi.org/10.1093/ajae/aay009>.
- (with Martins-Filho and Yao). (2018). Nonparametric Estimation of Conditional Value-at-Risk and Expected Shortfall Based on Extreme Value theory. *Econometric Theory*, Cambridge University Press, vol. 34(01), pp. 23-67, February.
- (with Hernandez, M). (2018). A Poverty-Sensitive Scorecard to Prioritize Lending and Grant Allocation: Evidence from Central America. *Food Policy*, Volume 77, pp. 81-90, ISSN 0306-9192, <https://doi.org/10.1016/j.foodpol.2018.04.006>.
- (with Andre Devaux Andre, André Devaux, Jason Donovan and Douglas Horton). (2018). Agricultural Innovation and Inclusive Value-Chain Development: A Review. *Journal of Agribusiness in Developing and Emerging Economies*, Vol. 8, No. 1.
- (with Manuel Barron). (2017). Household Electrification and Indoor Air Pollution, *Journal of Environmental Economics and Management*, Volume 86, pp. 81-92, ISSN 0095-0696, <https://doi.org/10.1016/j.jeem.2017.07.007>.
- (with Miguel Almanzar). (2017). Distributional Effects of Growth and Public Expenditures in Africa: Estimates for Tanzania and Rwanda. *World Development*, Vol. 95, pp. 177–195, <https://doi.org/10.1016/j.worlddev.2017.02.019>
- (with Nakasone, Eduardo). (2016). A Text Message Away: ICTs as a Tool to Improve Food Security. *Agricultural Economics*, 47: 49-59, <https://doi.org/10.1111/agec.12314>.

(with Chong, Alberto, Isabelle Cohen, Erica Field, Eduardo Nakasone). (2016). Are There Nutrient-Based Poverty Traps? Evidence on Iron Deficiency and Schooling Attainment in Peru. *American Economic Journal: Applied Economics*, 8(4): 222-255, <http://dx.doi.org/10.1257/app.20140494>.

(with Tanguy Bernard). (2015). Social Interaction Effects and Connection to Electricity: Experimental Evidence from Rural Ethiopia. *Economic Development and Cultural Change*, 63:3, 459-484, <https://doi.org/10.1086/679746>.

(with Angelino Viceisza). (2015). To Remit or Not to Remit, That Is the Question: A Remittance Field Experiment. *Journal of Economic Behavior & Organization*, 112, pp. 221–236.

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(2015). "L'impact de l'électrification rurale : enjeux et perspectives," *Revue d'économie du développement, De Boeck Université*, vol. 23(3), pp. 55-83.

(with Martins-Filho and Yao). (2014). High Order Conditional Quantile Estimation Based on Nonparametric Models of Regression. *Econometric Reviews*. Taylor & Francis Journals, vol. 34(6-10), pp. 907-958, December.

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(with Manuel Hernandez). (2014). Parametric versus nonparametric methods in risk scoring: An application to microcredit. *Empirical Economics*, Volume 46, Issue 3 (2014), pp. 1057-1079.

(with Marco Castillo, Ragan Petrie, and Lise Vesterlund). (2013). Gender Differences in Bargaining Outcomes: A Field Experiment on Discrimination. *Journal of Public Economics*, Volume 99, pp. 35-48, ISSN 0047-2727, <https://doi.org/10.1016/j.jpubeco.2012.12.006>.

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(with Miguel Robles). (2010). Understanding the Impact of High Food Prices in Latin America. *Economia*, Volume 10, Number 2, Spring 2010, pp. 117-164

(with Manuel Hernandez). (2010). Examining the Dynamic Relationship between Spot and Futures Prices of Agricultural Commodities. *Commodity Market Review*, 2009-2010, pp.47-87.

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(with Enrique Schroth and Alberto Pasco Font). (2004). The Impact of Telecommunications Privatization in Peru on the Welfare of Urban Consumers. *Economía*, 4 (1).

(with Virgilio Galdo and Shyamal Chowdhury). (2003). Willingness to Pay for the Rural Telephone Service in Bangladesh and Peru. *Information Economics and Policy*, Vol. 15 (3), pp. 327-361.

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(with Javier Escobal and Jaime Saavedra). (2000). The Private, Public and Organizational Assets of the Poor in Perú. *Trimestre Económico*, Vol LXVI(3), N(263), pp. 619-659.

### **Books**

(with M. Kalkuhl and J. von Braun). (2016). Food Price Volatility and its Implications for Food Security and Policy. Springer. <https://doi.org/10.1007/978-3-319-28201-5>

(with André Devaux, Jason Donovan, and Douglas Horton). (2016). Innovations for Inclusive Value-Chain Development. Successes and Challenges. IFPRI Book. October 2016.

(with Klaus von Grebmer, Claudia Ringler, Mark W. Rosegrant, Tolulope Olofinbiyi, Doris Wiesmann, Heidi Fritschel, Ousmane Badiane, Yisehac Yohannes, Jennifer Thompson, Constanze von Oppeln, Joseph Rahall). (2012). Global Hunger Index. The Challenge of Hunger: Ensuring Sustainable Food Security under Land, Water and Energy Stresses. IFPRI, Washington DC.

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(with P. Arregui, E. Zegarra, V. Minaya, J. Escobal, C. Ponce, M. Glave, J. Kuramoto, L. Alcázar, M. Jaramillo, H. Ñopo, JJ. Díaz, N. Birdsall, R. Menezes, J. Deustua, M. Hernández, S. Cueto, M. Benavides, E. Pollit, J. León, M. Valdivia, N. Valdivia). (2007). Investigación, Políticas y Desarrollo en el Perú. Lima, GRADE, 668pp.

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(with Maria Victoria Murillo, Carmen Urizar H., Jaime Saavedra-Chanduví, Naercio Aquino Menezes-Filho, Renato Ravina, Gabriela Fachola, Juan Sanguinetti, Elaine Pazello, Peter Kuhn, Sigfrido Lée). (2005). "What Difference Do Unions Make?: Their Impact on Productivity and Wages in Latin America," IDB Publications (Books), Inter-American Development Bank, number 327 edited by Gustavo Márquez and Peter Kuhn, August.

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(with Carolina Trivelli, Felipe Portocarrero, et al.). (2004). "Mercado y Gestion de Microcrédito en el Perú." Consorcio de Investigación Económica y Social, Lima, Peru.

(with María Eugenia Genoni, Margarita Sánchez, Jaime Saavedra-Chanduví, Suzanne Duryea, Richard Parker, Peter Aggleton, Mayra Buvinic, Ernest Massiah, Omar Arias, Hugo R. Ñopo, Jacqueline Mazza). (2004). "Social Inclusion and Economic Development in Latin America," IDB Publications (Books), Inter-American Development Bank, number 439 edited by Ruthanne Deutsch, Juliana Pungiluppi, Mayra Buvinic and Jacqueline Mazza, August.

(with Miguel Robles, Jaime Saavedra, Nestor Valdivia and Juan Chacaltana). (2001). Estrategias y Racionalidad de la Pequeña Empresa. OIT, Lima.

(with Orazio P. Attanasio, Miguel Székely, George Gray-Molina, Wilson Jiménez, Ernesto Pérez de Rada, Ernesto Yáñez, Marcelo Côrtes Neri, Edward Joaquim Amadeo, Alexandre Pinto Carvalho, Dante Contreras). (2001). "Portrait of the Poor: An Assets-Based Approach," IDB Publications (Books), Inter-American Development Bank, number 322 edited by Miguel Székely and Orazio P. Attanasio, August.

(with Patricia Arregui). (1999). Science and Technology Indicators for Latin America. GRADE, Lima.

### **Book Chapters**

(with von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A.). (2023). Food System Concepts and Definitions for Science and Political Action. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) Science and Innovations for Food Systems Transformation. Springer, Cham. [https://doi.org/10.1007/978-3-031-15703-5\\_2](https://doi.org/10.1007/978-3-031-15703-5_2)

(with Herrero, M., Hugas, M., Lele, U., Wirakartakusumah, A.). (2023). A Shift to Healthy and Sustainable Consumption Patterns. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) Science and Innovations for Food Systems Transformation. Springer, Cham. [https://doi.org/10.1007/978-3-031-15703-5\\_5](https://doi.org/10.1007/978-3-031-15703-5_5)

(with Laborde, D.). (2023). Modeling Actions for Transforming Agrifood Systems. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) Science and Innovations for Food Systems Transformation. Springer, Cham. [https://doi.org/10.1007/978-3-031-15703-5\\_7](https://doi.org/10.1007/978-3-031-15703-5_7)



- (with Hendriks, S. et al.). (2023). The True Cost of Food: A Preliminary Assessment. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) Science and Innovations for Food Systems Transformation. Springer, Cham. [https://doi.org/10.1007/978-3-031-15703-5\\_32](https://doi.org/10.1007/978-3-031-15703-5_32)
- (with Chichaibelu, B.B., Bekchanov, M., von Braun, J.). (2023). The Global Cost of Reaching a World Without Hunger: Investment Costs and Policy Action Opportunities. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) Science and Innovations for Food Systems Transformation. Springer, Cham. [https://doi.org/10.1007/978-3-031-15703-5\\_34](https://doi.org/10.1007/978-3-031-15703-5_34)
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- (with Kalkuhl, M., von Braun, J.). (2016). Volatile and Extreme Food Prices, Food Security, and Policy: An Overview. In: Kalkuhl, M., von Braun, J., Torero, M. (eds) Food Price Volatility and Its Implications for Food Security and Policy. Springer, Cham. [https://doi.org/10.1007/978-3-319-28201-5\\_1](https://doi.org/10.1007/978-3-319-28201-5_1)
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- (with Martins-Filho, C.). (2016). Relative Prices of Food and the Volatility of Agricultural Commodities: Evidence for a Panel of Developing Economies. In: Kalkuhl, M., von Braun, J., Torero, M. (eds) Food Price Volatility and Its Implications for Food Security and Policy. Springer, Cham. [https://doi.org/10.1007/978-3-319-28201-5\\_11](https://doi.org/10.1007/978-3-319-28201-5_11)
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(with Marco Castillo and Ragan Petrie). (2009). "Ethnic and Social Barriers to Cooperation: Experiments Studying the Extent and Nature of Discrimination in Urban Peru." In: Ñopo, Hugo, Chong, Alberto, Moro, Andrea; (2009). Discrimination in Latin America. An Economic Perspective. Chapter 2, pp. 13-36. Inter-American Development Bank.

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### **Working Papers Submitted to Academic Journals**

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(with Castillo, Marco and Petrie, Reagan). (2019). “Causal Evidence that Perinatal Conditions Affect the Risk Preferences of Adults.” Submitted to Journal of Political Economy.

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(with Castillo, Marco, Chenna Reddy Cotla, and Ragan Petrie). (2018). “Understanding the Risk Preferences of the Poor.”

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(with Schuster, Monica and Delgado, Luciana). (2018). “The Reality of Food Losses: A New Measurement Methodology.”

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(with Miguel Almanzar). (2017). "Media Coverage and Food Commodities: Agricultural Futures Prices and Volatility Effects," Discussion Papers 264781, University of Bonn, Center for Development Research (ZEF).

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(with Ashok Gulati). (2004). Connecting Smallholders to Markets: Role of Infrastructure and Institutions. USAID policy brief.

### Other Publications

(with Jessica Fanzo, Lawrence Haddad, Kate R. Schneider et al.) (2021). Viewpoint: Rigorous Monitoring Is Necessary to Guide Food System Transformation in the Countdown to the 2030 Global Goals, *Food Policy*, Volume 104, 102163, ISSN 0306-9192.  
<https://doi.org/10.1016/j.foodpol.2021.102163>.

(with J. von Braun, K. Afsana, L. O. Fresco et al.). (2021). Food System Concepts and Definitions for Science and Political Action. *Nat Food*. <https://doi.org/10.1038/s43016-021-00361-2>

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(2019). The State of Food Security and Nutrition in the World 2019. Safeguarding against Economic Slowdowns and Downturns. FAO, IFAD, UNICEF, WFP and WHO. 2019. Rome, FAO. <http://www.fao.org/3/ca5162en/ca5162en.pdf>

(with J. Pender). (2018). Economic Impacts, Costs, and Benefits of Infrastructure Investment – Review of the Literature. Paper presented at USDA Economic Research Service and Farm Foundation Workshop on Economic Returns to Rural Infrastructure Investment, April 10-11, 2018, Washington, D.C.

### Op-Eds

Russia's Invasion of Ukraine Should Not Cause a Hunger Crisis, *The Los Angeles Times*, March 4, 2022

Ending Hunger Sustainably, *Project Syndicate*, October 15, 2021

A Post-War Playbook for a Post-COVID Recovery, *Project Syndicate*, December 9, 2020

Without Food, There Can Be No Exit from The Pandemic, *Nature*, April 23, 2020

How to Stop a Looming Food Crisis, *Foreign Policy*, April 14, 2020

### **Media Appearances**

AFP, AP, Bloomberg, BBC, CNN, CNN Spanish, The Economist, Foreign Policy, Freakonomics, The Guardian, The Hill, Huffington Post, The Independent, MacLean's, The New York Times, Newsweek, National Public Radio, Der Spiegel, Salon, Slate, The Washington Post, Wall Street Journal, El Mercurio (Chile), El Comercio (Peru), and several other outlets in Latin America, Africa, South Asia, East Asia, and Australia.

### **Recent Research Grants**

2015-2017 National Institute of Health (with Erica Field)

2016-2017 National Science Foundation (with Angelino Viceisza)

2014-2016 European Commission (EU\$ 2.5 million). Improving the Effectiveness of Policies and Strategic Investments in the Fertilizer Supply Chain for Some African Countries Taking into Account the Global- and Country-Level Market Structure and Constraints

2014-2016 European Commission (EU\$ 2 million). Assessing Regional Food Reserves to Increase Resilience: Their Role in Safety Nets and in Reducing Price Volatility

2014-2016 CGIAR Policy Institutions and Markets (US\$ 5 million)

2014-2016 USAID (US\$ 3 million). Latin American Strategy

2013-2016 European Commission (US\$ 4 million). Food security

2013-2016 Swiss Development Cooperation (US\$ 2.2 million). Food Security India

2013-2017 Millennium Challenge Corporation (US\$ 1 million). Impact Evaluation of Rural Electrification and Roads in El Salvador

2012-2015 DFID (US\$ 1 million). Aflatoxin and Child Stunting

2013-2014 IADB (US\$ 600K). Impact of Rust Coffee in Central America

2013-2014 CAF (US\$ 600K). Rural Development and Poverty Reduction in Andean Countries: The Case of Peru

## **Professional Experience**

### **Teaching**

- 1999-           **Associate Professor** (on leave), Universidad del Pacífico  
Economics Department, Postgraduate School  
Industrial Organization and Uncertainty and Risk
- 1994-1997      **Teaching Assistant**, Department of Economics, UCLA  
Graduate Level Econometric Software Applications  
Intermediate Microeconomics, Econometrics
- 1990-1992      **Lecturer** Department of Economics, Universidad del Pacifico, Peru  
Intermediate Microeconomics  
Economics Software Applications

### **Research**

#### **Senior Researcher**

- 2019-           *Food and Agriculture Organization of the United Nations (FAO)*  
Chief Economist
- 2016-2018      *The World Bank Group (WBG)*  
Executive Director for Argentina, Bolivia, Chile, Paraguay, Peru and Uruguay
- 2006-2016      *International Food Policy Research Institute (IFPRI)*  
Division Director of the Markets, Trade and Institutions Division
- 2010-           *Center for Development Research, University of Bonn (ZEF)*  
Senior Fellow
- 2005-2006      *International Food Policy Research Institute (IFPRI)*  
Senior Research Fellow if the Markets, Trade and Institutions Division.  
Research on Infrastructure, and Institutions for rural development. Leader of a  
Global Research Project on Infrastructure and Institutions for Development for  
Africa, Latin America, Asia and South East Asia.
- 2003-2005      *International Food Policy Research Institute (IFPRI)*  
Research Fellow if the Markets, Trade and Institutions Division  
Research on infrastructure and institutions for rural development. Leader of a  
Global Research Project on Infrastructure and Institutions for Development for  
Africa, Latin America, Asia and South East Asia.
- 1997-           *Group of Analysis for Development (GRADE)*  
- Member of the Board of Directors  
- Director of the Executive Management Committee
- 2001-2003      *Georg Foster von Humboldt Fellow*

### **Associate Researcher**

- 1998-2000     *Center for Development Research (ZEF)-University of Bonn (Invited Fellow)*
- 1994-2003     *Institute for Social Science and Research, University of California at Los Angeles*

### **Professional Associations and Advisory Councils**

Member of the American Economic Association (1998-Present); the European Economic Association (1999-Present); the Western Economic Association (1998-2000); the Econometric Society (1998-Present); the Latin American Econometric Society (1998-Present); the Latin American and Caribbean Economic Association (1998-Present); the Southern Regional Science Association (1998-Present); the International Association of Agricultural Economics (2006-Present) and of the American Agricultural Association (2006-Present)

### **Awards**

- 2014           Chevalier de l'Ordre du M'erite Agricole
- 2002           Award for Outstanding Research on Development given by The Global Development Network (GDN). The selection committee was chaired by Nicolas Stern, and consisted of Francois Bourguignon, Mashiro Kawai, Nancy Birdsall, Jose Maria Fanelli y Fernando Loayza
- 2000           Award for Outstanding Research on Development given by The Global Development Network (GDN). The selection committee was chaired by Joseph E. Stiglitz, and consisted of Nancy Birdsall, Francois Bourguignon, Takatoshi Ito and Amartya Sen
- 2000-2001     Georg Foster Research Fellowship of the Alexander von Humboldt Foundation
- 1997-1998     University of California Dissertation Year Fellowship 1997-98
- 1997-1998     Ford Foundation-ISOP Interdisciplinary Program for Students of Development Areas
- 1996-1997     Latin American Center, UCLA Research Grant "Diffusion of Technical Change in Traditional Agriculture in Peru"
- 1996           Department of Economics, UCLA, Travel grant for diffusion of research
- 1995-1997     British Foundation Fellowship
- 1994-1997     Department of Economics, UCLA, Teaching Assistant Position
- 1992-1994     Fulbright Fellowship

- 1992-1995 Inter-American Development Bank Fellowship
- 1992-1994 Ford Foundation Fellowship
- 1992 National Award for the Best Bachelors Dissertation  
Peruvian Economic Consortium and IDRC, Canada
- 1990 Honoric Mention on Bachelors and Licenciatura Dissertations  
Universidad del Pacifico, Lima, Peru

### **Countries of Expertise**

*In Latin America:* Bolivia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Nicaragua, Peru, Paraguay, Uruguay, Dominic Republic, Chile, Argentina, and Brazil

*In Central and Eastern Europe:* Armenia, Kosovo.

*In Africa:* Burkina Faso, Ethiopia, Ghana, Kenya, Malawi, Morocco, Nigeria, Niger, Togo, Senegal, Uganda, Tanzania, Mozambique, and Zambia.

*In Asia:* Bangladesh, India, Vietnam and Cambodia

### **Languages**

English, Spanish, French (basic)

### **References**

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