



Food and Agriculture Organization
of the United Nations

INVESTMENT DAYS

AGENDA

INVEST IN SHARING

16-17 December 2014

Sheikh Zayed Centre — FAO, Rome



PHOTO BY JEAN CHARLES HEYD
MADAGASCAR

Table Of Contents

At-a-Glance Calendar	4
Programme	
» 16 December	7
» 17 December	15
Guest Speaker Profiles	24

08:30 Morning Coffee
OASIS LOUNGE, ADJACENT TO THE SHEIKH ZAYED CENTRE

09:00 OPENING REMARKS
50th Anniversary Presentation
SHEIKH ZAYED CENTRE

09:50 Coffee Break
IRAN FOYER – B116

10:20 PLENARY SESSION 1
Agricultural investments in the time of transformation
SHEIKH ZAYED CENTRE

12:30 Lunch
IRAN FOYER – B116

14:00 Landscape and Territorial Approaches for Food Security and Resilient Livelihoods: Practical Applications
PHILIPPINES ROOM – C277/281

Operational and Technical Solutions for Investing in Drylands
IRAN ROOM – B116

Tools for Integrating Climate Change into Investment Design & Implementation
ETHIOPIA ROOM – C285/289

15:30 Coffee Break
IRAN FOYER – B116

16:00 PLENARY SESSION 2
Invest in resilient livelihoods
SHEIKH ZAYED CENTRE

17:30 End Day One

Morning Coffee 08:30
OASIS LOUNGE, ADJACENT TO THE SHEIKH ZAYED CENTRE

09:00 PLENARY SESSION 3
The food security, water and energy nexus: opportunities for investments
SHEIKH ZAYED CENTRE

10:30 Coffee Break
IRAN FOYER – B116

11:00

Groundwater Governance-Priorities to Sustain a Critical Resource PHILIPPINES ROOM – C277/281	Making Investments in Agricultural Water Management Work IRAN ROOM – B116	GIS/Satellite-based Solutions for Investment Operations ETHIOPIA ROOM – C285/289
--	---	--

12:30 Lunch
IRAN FOYER – B116

14:00 WORKING WITH THE PRIVATE SECTOR

Investing in Technological Innovations PHILIPPINES ROOM – C277/281	Responsible Investment in Agriculture and Food Security IRAN ROOM – B116	Investing in Greener Value Chains ETHIOPIA ROOM – C285/289
--	--	--

15:30 Coffee Break
IRAN FOYER – B116

16:00 PLENARY SESSION 4
Looking forward: the role of FAO in promoting agricultural investments
SHEIKH ZAYED CENTRE

17:15 Closing Remarks

17:30 Cocktail/Awards Ceremony

20:00



PHOTO BY INNA PUNDA

TAJKIKISTAN

Programme

16/12

08:30 - 17:30

08:30 → 09:00 → 09:30 → 09:50

OASIS LOUNGE
ADJACENT TO THE
SHEIKH ZAYED CENTRE

Welcome Coffee

SHEIKH ZAYED CENTRE

Opening Remarks

Dan Gustafson, Deputy
Director-General (Operations),
DDO

Laurent Thomas, Assistant
Director-General, TC

SHEIKH ZAYED CENTRE

Celebrating 50 years of Promoting Investment in Agriculture

This year FAO's Investment Centre celebrates its 50th anniversary (1964-2014). A short presentation will highlight the Centre's milestones in supporting investment in agriculture, food and nutrition security and poverty reduction. The presentation pays tribute to FAO's enduring partnerships, innovative projects and the work of its dedicated staff throughout the years.

PRESENTER
Ida Christensen, Rural
Sociologist, TCIB

ORGANIZERS
Gustavo Merino, Director, TCI
Clare O'Farrell, Information and
Knowledge Management Officer,
TCID

MODERATOR
Guenter Feiler, Capacity
Development Officer, TCID

09:50 → 10:20 → 12:30 → 14:00

IRAN FOYER
B116

Coffee Break

SHEIKH ZAYED CENTRE

PLENARY SESSION 1

Agricultural Investments in the Time of Transformation

The session will discuss the "big" picture of global trends and challenges that will affect agricultural development in the next decades and get perspectives of FAO and its development partners (IFAD, World Bank, African Development Bank) on how these trends will affect priorities for agricultural investments.

ORGANIZERS
Gustavo Merino, Director, TCI
Guy Evers, Deputy Director, TCI
Rimma Dankova, Senior Adviser,
TCID

MODERATOR
Kostas Stamoulis, Director, ESA

IRAN FOYER
B116

Lunch

SPEAKERS
Ethel Sennhauser, Director of
the Agriculture Global Practice,
World Bank
Chiji Ojukwu, Director,
Agriculture & Agro-Industry
Department, African
Development Bank
Gustavo Merino, Director, TCI
Adolfo Brizzi, Director of the
Policy and Technical Advisory
Division, IFAD
Rob Vos, Director, ESP

PHILIPPINES ROOM
C277/281

Landscape and Territorial Approaches for Food Security and Resilient Livelihoods: *Practical Applications*

Landscape and territorial approaches are increasingly considered as a suitable framework to address the structural and emerging issues of agricultural development and poverty reduction. They allow the exploration of the multidimensional, multiactor and multilevel nature of these issues.

The session will provide an overview of various applications of the approaches in the areas of food security, livelihood resilience and rural development.

SPEAKERS

Nagaraja Rao Harshadeep, Senior Environmental Specialist, World Bank
Vitto Cistulli, Senior Policy Officer, ESP
Tomas Lindemann, Natural Resources Officer, NRC
Sally Bunning, Senior Officer, NRL
Paolo Groppo, Technical Officer, NRL
Cecilia Gañan de Molina, Consultant, TCIC
Marta Stefano, Consultant, ESP
Douglas McGuire, Senior Forestry Officer, FOM

ORGANIZERS

Maria del Mar Polo, Economist, TCIC
Rimma Dankova, Senior Adviser, TCID

MODERATOR

Astrid Agostini, Senior Adviser, TCID

IRAN ROOM
B116

Operational and Technical Solutions for Investing in Drylands

Drylands have traditionally been left out from the development mainstream due to their perceived low agricultural potential and the specific challenges they pose to rural economic development. TCI, together with the World Bank, CGIAR/International Livestock Research Institute and IGAD, have been working to support African countries on enhancing resilience of dryland communities.

The session will present some operational modalities and technical solutions adopted in these projects and activities.

SPEAKERS

Alberta Mascaretti, Chief, TCIA
Marc Moens, Senior Agricultural Officer, TCIA
Anne Mottet, Livestock Policy Officer, AGAL
Badi Besbes, Animal Production Officer, AGAG
Vincent Briac, Animal Production Expert, AGAS
Felix Njeumi, Animal Health Officer, AGAH

ORGANIZERS

Julien Vallet, Economist, TCIA
Ahmed Sidahmed, Consultant, TCIA

MODERATOR

Guy Evers, Deputy Director, TCI

ETHIOPIA ROOM
C285/289

Tools for Integrating Climate Change into Investment Design & Implementation

The session will be a tour of some of FAO's best tools that can be used to integrate specific valuable information, insights and analysis on climate change mitigation and/or adaptation into investment planning and design.

SPEAKERS

Kaisa Karttunen, Senior Natural Resources Officer, NRCD
Francesco Tubiello, Natural Resources Officer, NRCD
Carolyn Opio, Natural Resources Officer, NRCD
Caterina Batello, Senior Officer, AGPM
Francois Delobel, Natural Resources Officer, NRCD

ORGANIZER

Jeffery Griffin, Senior Coordinator, TCID

MODERATOR

Jeffery Griffin, Senior Coordinator, TCID

15:30

IRAN FOYER
B116Coffee
Break

16:00

SHEIKH ZAYED CENTRE

PLENARY SESSION 2

Invest in Resilient Livelihoods

The session will discuss resilience enhancing policies and instruments, with a particular focus on the recent analytical work on African Drylands and perspectives of different development partners (IGAD, FAO, IFAD and the World Bank).

ORGANIZERS

Mohamed Manssouri, Chief, TCIC
Rimma Dankova, Senior Adviser, TCID

MODERATOR

Shukri Ahmed, Senior Economist, EST

SPEAKERS

Raffaello Cervigni, Lead Environmental Economist, World Bank
Mohamed Manssouri, Chief, TCIC
Solomon Munyua, Director of Center for Pastoral Areas and Livestock Development, IGAD
Sylvie WabbesCandotti, Liaison and Operations Officer, TCE
Shukri Ahmed, Senior Economist, EST
Eric Patrick, Adaption Specialist, IFAD

17:30

End of
Day One



PHOTO BY TURI FILECCIA

BHUTAN

Programme

17/12

08:30 - 20:00

08:30

08:55

09:00

10:30

OASIS LOUNGE
ADJACENT TO THE
SHEIKH ZAYED CENTRE

Morning Coffee

Announcements

MODERATOR
Guenther Feiler, Capacity
Development Officer, TCID

SHEIKH ZAYED CENTRE

PLENARY SESSION 3

The Food Security, Water and Energy Nexus: Opportunities for Investments

The nexus approach allows for a better understanding of the complex and dynamic inter-relationships between water, energy and food, so that the limited resources can be managed sustainably. The objective of the session is to discuss the policy implications and investment opportunities at different scales of the nexus trade-offs, using practical examples.

ORGANIZERS

Rimma Dankova, Senior Adviser,
TCID

JeanMarc Faures, Senior Officer,
NRL

OPENING REMARKS

Maria Helena Semedo, Deputy
Director-General (Coordinator for
Natural Resources), DDN

SPEAKERS

Ijsbrand de Jong, Lead Water
Resources Specialist, World Bank
Jean Marc Faures, Senior Officer,
NRL

Jan Lundquist, Senior Scientific
Adviser, Stockholm International
Water Institute

Tushaar Shah, Senior Fellow,
CGIAR/International Water
Management Institute

Olivier Dubois, Senior Natural
Resources Officer, NRC

MODERATOR

Rimma Dankova, Senior Adviser,
TCID



10:30 → 11:00 → 12:30

IRAN FOYER
B116Coffee
BreakIRAN ROOM
B116Groundwater
Governance-
Priorities to
Sustain a
Critical Resource

Groundwater is a critical freshwater asset providing 50 percent of domestic water supplies and 40 percent of irrigation water, supporting river base flows and sustaining aquatic ecosystems. The session will discuss priority actions and investments required to sustain the vital benefits of groundwater, focusing on strengthening governance institutions and realigning fiscal incentives.

SPEAKERS

Stephen Foster, Senior Adviser, Global Water Partnership
Rudolph Cleveringa, Deputy Executive Secretary, Global Water Partnership (GWP)
Stefano Burchi, Chairman of the Executive Council International Association for Water Law
Klaus Urban, Senior Rural Institutions Officer, TCIB
Mohamed Bazza, Senior Irrigation Management Officer, NRL
Tushaar Shah, Senior Fellow, CGIAR / International Water Management Institute

ORGANIZER

Mohamed Bazza, Senior Irrigation Management Officer, NRL

MODERATOR

Mohamed Bazza, Senior Irrigation Management Officer, NRL

PHILIPPINES ROOM
C277/281Making
Investments
in Agricultural
Water
Management
Work

A panel discussion will focus on options for improving agricultural water investments under the increasing economic competition for water, climate change impacts and increased environmental awareness. The role of formal and informal institutions and adoption of irrigation modernization concepts will be addressed.

SPEAKERS

Zhijun Chen, Irrigation and Rural Infrastructure Engineer, TCIB
Erwin De Nys, Senior Water Resources and Irrigation Specialist, Global Water Practice, World Bank
Valens Mwumvaneza, Senior Rural Development Specialist, Food and Agriculture Global Practice, World Bank
Jean Marc Faures, Senior Officer, NRL
Amadou Soumaila, Former Senior Irrigation Engineer, TCIA
Audrey Nepveu, Technical Adviser, Water and Rural Infrastructure, IFAD
Jim Hancock, Natural Resources Officer, TCIB

ORGANIZERS

Giovanni Muñoz, Land and Water Development Engineer, TCIC
Zhijun Chen, Irrigation and Rural Infrastructure Engineer, TCIB

MODERATOR

Giovanni Muñoz, Land and Water Development Engineer, TCIC

ETHIOPIA ROOM
C285/289GIS/Satellite-
based Solutions
for Investment
Operations

The session will focus on the application of Geographical Information Systems (GIS) to target investments. A number of geospatial tools, products and applications relevant to sustainable management of land and water resources will be presented and demonstrated during the session. References and links to available GIS datasets and applications will be provided.

SPEAKERS

Guenther Fischer, International Institute for Applied Systems Analysis
Hussein Gadain, Emergency Operation Service, FAOSO
Nagaraja Rao Harshadeep, Senior Environmental Specialist, World Bank

ORGANIZERS

John Latham, Senior Environment Officer, NRL
Carlo Bravi, Project Coordinator (Capacity Development), TCID
Rimma Dankova, Senior Adviser, TCID

MODERATOR

Renato Cumani, Land and Water Officer, NRL

12:30 → 14:00 → 15:30

IRAN FOYER
B116IRAN ROOM
B116PHILIPPINES ROOM
C277/281ETHIOPIA ROOM
C285/289

Lunch

WORKING WITH THE PRIVATE SECTOR

Investing in
Technological
Innovations

Recent innovations are coming from Africa and Asia in the use of ICT, video, communication and e-banking technologies in agricultural projects. The purpose of the session is to discuss how these innovations can improve the quality and effectiveness of our investment support work.

SPEAKERS

James Mwangi, Chief Executive Officer and Managing Director, Equity Bank Group
Rikin Gandhi, Chief Executive Officer, Digital Green
Mark Davies, Founder, Esoko Networks

ORGANIZERS

Benoist Veillerette, Senior Economist, TCIB
Takayuki Hagiwara, Senior Natural Resources Management Officer, TCIB
Carlo Bravi, Project Coordinator, TCIA

MODERATOR

Takayuki Hagiwara, Senior Natural Resources Management Officer, TCIB

Responsible
Investment in
Agriculture and
Food Security

The "Principles for Responsible Investment in Agriculture and Food Systems" were approved in October 2014 by the Committee on World Food Security. Panellists from FAO, IFAD and ActionAid will briefly outline the principles and discuss the implications for agriculture investment work.

SPEAKERS

Pascal Liu, Senior Economist, EST
Alberta Guerra, Food Policy Adviser, ActionAid
Brian Baldwin, Senior Operations Management Adviser, IFAD
Christina Blank, Deputy Head of the Permanent Representation of Switzerland to FAO, IFAD and WFP

ORGANIZER

Benoist Veillerette, Senior Economist, TCIB

MODERATOR

Benoist Veillerette, Senior Economist, TCIB

Investing in
Greener Value
Chains

Greening practices may provide opportunities for companies to create competitive advantages through productivity gains, higher resource efficiency and improved sustainability of their business model. A discussion will focus on lessons learned from private sector investments in greening of food value chains and the role of policies in accelerating private sector-led green investments.

SPEAKERS

Gianpiero Nacci, Senior Engineer, EBRD
Martin Hilmi, Enterprise Development Officer, AGS
Irini Maltsooglou, Natural Resources Officer, NRL
Arianna Carita, Economist / Consultant, TCIC

ORGANIZERS

Emmanuel Hidir, Senior Economist, TCIC
Nuno Santos, Economist, TCIC
Arianna Carita, Economist / Consultant, TCIC

MODERATOR

Nuno Santos, Economist, TCIC

15:30 → 16:00 → 17:15

IRAN FOYER
B116

SHEIKH ZAYED CENTRE

Coffee
Break

PLENARY SESSION 4

Looking Forward: the Role of FAO in Promoting Agricultural Investments

The session will discuss challenges and evolving priorities for FAO and its partners in enhancing its support to investment work in agriculture and rural development.

SPEAKERS

Gustavo Merino, Director, TCI

Eugenia Serova, Director, AGS

Mark Cackler, Manager of the Agriculture Global Practice, World Bank

Brian Baldwin, Senior Operations Management Adviser, IFAD

Karen Brooks, Director of Research Program, CGIAR

Mike Robson, FAO

Representative in Bangladesh

ORGANIZERS

Mohamed Manssouri, Chief, TCIC

Guy Evers, Deputy Director, TCI

MODERATORS

Mohamed Manssouri, Chief, TCIC

Guenther Feiler, Capacity Development Officer, TCID

17:15 → 17:30 → 20:00

SHEIKH ZAYED CENTRE

Closing
Remarks

Cocktail/
Awards
Ceremony

Daniel Gustafson, Deputy
Director-General (Operations)
Laurent Thomas, Assistant
Director-General, TC



PHOTO BY IDA CHRISTENSEN

BOLIVIA

Guest Speaker Profiles



Adolfo
Brizzi

Adolfo Brizzi is currently the Director of the Policy and Technical Advisory Division (PTA) in IFAD. PTA is the repository of the technical expertise in IFAD and in that capacity he provides oversight of the technical support to country programmes, country policy dialogue and the pursuit of strategic and global partnership initiatives. Before joining IFAD in early 2012, he worked for 22 years in the World Bank in various managerial and technical positions in the Agriculture and Rural Development sector. He has been involved in a range of advisory and investment-related activities covering agriculture, natural resources management, rural livelihoods, community-driven development, rural finance, water and irrigation, forestry, biodiversity and land issues. His experience spans over Africa, Latin America and Asia. The last position he held was of country manager for Madagascar and before that he was the sector manager for agriculture and rural development for the South Asia Region. Before the Bank he worked eight years with FAO, mostly in Africa. He holds a master's degree in agricultural economics from the University of Gembloux, Belgium, and a master's degree on environmental sciences from the Fondation Universitaire Luxembourgeoise of Arlon, Belgium.



Karen
Brooks

Karen Brooks was appointed Director of the CGIAR Research Program on Policies, Institutions and Markets in July 2012. Before joining CGIAR, she worked for the World Bank for 20 years. For the last 10 years of her tenure there, she managed analytical and operational programmes in agriculture and rural development for the Africa region. She also worked extensively in Europe and Central Asia on issues related to the transition from central planning. Prior to joining the World Bank, she was Associate Professor in the Department of Applied Economics at the University of Minnesota. She received both her PhD and master's degrees in economics from the University of Chicago, where she was a National Science Foundation Graduate Fellow.



Mark
Cackler

Mark Cackler is Manager of the Agriculture Global Practice of the World Bank. He joined the World Bank in 1981, after working as an overseas Representative for John Deere Intercontinental, Ltd., based in Thailand. He has held assignments in the World Bank's Washington headquarters working in departments responsible for agriculture and natural resources in East Africa, China, Indonesia and the Pacific Islands, and Latin America and the Caribbean. He also worked for four years in the Agriculture Unit of the World Bank's New Delhi Office. In 2007, he was appointed Manager of the Agriculture and Rural Development Department of the World Bank. Following a reorganization of the World Bank in July 2014, he is now Manager of the Agriculture Global Practice, where he oversees the World Bank's global programmes and partnerships for agriculture and food security. He was raised in Moline, Illinois. He has an economics degree from Oberlin College, Ohio, and the University of Jyväskylä in Finland, and an MBA from Harvard Business School.



Raffaello
Cervigni

Raffaello Cervigni is a lead environmental economist with the Africa Region of the World Bank. He holds a master's degree and Ph.D. in economics from Oxford University and University College London, and has some 18 years of professional experience on programmes, projects and research financed by the World Bank, the GEF, the European Union and the Italian Government in a variety of sectors. He is currently the World Bank's regional coordinator for climate change in the Africa region, after serving for about three years in a similar role for the Middle East and North Africa region. He is the author or co-author of over 40 technical papers and publications, including books, book chapters and articles in learned journals.



Rudolph
Cleveringa

Rudolph Cleveringa has recently joined the Global Water Partnership Organisation (GWPO). At GWPO he is the Deputy Executive Secretary in charge of a 30 staff strong team in Sweden responsible for strategic planning, communications, HR and finance management in the delivery, together with over 3000 partners in 87 countries, of the six-year Strategy towards a more water secure world. He has come from IFAD where he was Senior Technical Advisor for Rural Development, Water and Rural Infrastructure. He has a degree in agricultural engineering from Wageningen University in the Netherlands, and over 35 years of global experience and engagement in various aspects of development - ranging from operational land, water and rural infrastructure projects to programme and policy advisory work. He has broad experience of working in collaborative partnership, engaging with SIWI, UN Water, CGIAR, FAO and many other organizations. He has managed both larger units and smaller project teams across diverse cultures and disciplines.



Mark
Davies

Mark Davies is the Founder/CEO of Esoko Networks, a profiling and messaging platform serving smallholder farmers, agri-businesses and national projects across Africa. Born in Wales, Mark graduated in social anthropology at Cambridge and has been experimenting with the link between people and technology ever since. In 1994 Mark founded Metrobeat, which became CitySearch, the leading online city guides across North America. In 1998 he co-founded First Tuesday in London, a popular networking and investment marketplace with over 300,000 members in 40 countries. In 2001 he moved to Accra, Ghana to establish the successful technology incubator, BusyInternet, before establishing Esoko in 2005. A global entrepreneur, he currently resides in West Africa and spends his spare time in Bahia, Brazil.



Ijsbrand
de Jong

Ijsbrand de Jong is the World Bank's Lead Water Resources Specialist for Central Asia, based in Almaty, Kazakhstan. His responsibilities including: providing strategic advice on the strategy and long-range policy and programme for WRM, irrigation, drainage, flood control, hydropower development and the transboundary river basin water management agenda in Central Asia; leading the preparation and supervision of projects in Central Asia related to water resources development and management; leading analytical studies on issues related to water resource management, and developing partnerships with government and non-government institutions to address national and transboundary water resource management issues in Central Asia. Prior to joining the World Bank, he held numerous positions, among others with the United Nations, NGOs and the private sector in South, South-East and Central Asia and Africa in the field of irrigation, water resources management and rural development. He holds a Master of Science degree in water resources from the University of Wageningen, the Netherlands.



Stephen
Foster

Stephen Foster has exceptional experience with groundwater assessment, management and protection in a wide variety of contexts and applications worldwide. His senior posts include: World Health Organisation-Groundwater Advisor for Latin American & Caribbean (1986-89); British Geological Survey-Environmental Geology Division Director (1990-99); and World Bank-GW-MATe Director (2000-11), a major programme to facilitate groundwater management globally in development projects. He was voted International Association of Hydrogeologists Vice-President (2000-04) and President (2004-08), was a co-founder of the UK Groundwater Forum (a cross-sector platform for policy dialogue) and a member of the EU-Groundwater Working Group (on the implementation of the EC-Water Framework Directive). Academically he received a D.Sc.(London) in 1983 for published work, in 1993 was appointed to a Visiting Professorship at the University of London and named a Foreign Corresponding Member of the Spanish Real Academia de Ciencias, and has received awards from British, international & American professional societies.



Rikin Gandhi

Rikin Gandhi is chief executive officer of Digital Green. His interests include sustainable agriculture and technology for socioeconomic development. He received a master's in aeronautical and astronautical engineering from MIT and a bachelor's in computer science from Carnegie Mellon University. He is a licensed private pilot and received patents for linguistic search algorithms that he helped develop at Oracle. Born and raised in the U.S., Rikin ventured to rural India to start up a social enterprise to develop biofuels. He then joined Microsoft Research in Bangalore, India as a researcher in the Technology for Emerging Markets team that incubated Digital Green. Digital Green is now an independent, not-for-profit organization with support from the Bill & Melinda Gates Foundation, the UK's Department for International Development (DFID), USAID, Google and others.



Alberta Guerra

Alberta Guerra is food policy adviser at ActionAid of ten years experience of advocacy, policy influencing and campaigning at Italian, European and international level on food security, trade, development finance and governance, representing the International Food Security Network-IFSN and ActionAid towards the Committee on World Food Security and the UN Food Rome Agencies. In the last four years she has mainly focused on governance of tenure with respect to women's secure access and control over land and natural resources, and on policies and initiatives to promote sustainable agriculture for people living in poverty. She actively participated at the Committee on Food Security (CFS) negotiations on the Voluntary Guidelines on Responsible Tenure of Land, Fisheries and Forests in the Context of National Food Security, and on Principles for Responsible Investment in Agriculture and Food Security, focusing mainly on strengthening the gender perspective as well as the land-related investment aspects. She has a master's degree in political sciences and II Level Master Degree in international cooperation, human rights and European Union politics.



Nagaraja Rao Harshadeep

Nagaraja Rao Harshadeep (Harsh) is a senior environmental specialist currently in the Environment and Natural Resources Global Practice of the World Bank. Over 18 years at the Bank, he has led and been part of a range of environmental water and other natural resources projects and studies, primarily in South Asia, Africa, Central Asia, and East Asia. This has included work on integrated landscape approaches, watershed management, water resources planning, climate resilience, international waters (including work on the Ganges, Brahmaputra, Nile, Jordan, Aral, and other Basins), biodiversity, environmental assessments, pollution, water and environment institutions, irrigation systems, environmental economics, etc. He also leads activities at the Bank related to the use of innovative analytical tools (e.g. GIS, modeling, decision support systems), modern hydromet services, and mobile Apps (e.g. "Spatial Agent" to promote public domain geospatial data access). He founded the GIS Thematic Group at the Bank and chairs the Bank-US Govt MoU on Water on remote sensing aspects. Prior to joining the Bank, he worked with other international organizations, in academia and in the private sector on issues ranging from wetlands management and environmental indicators to New York City water supply systems and Middle East water conflicts. He has a B.Tech in civil engineering from the Indian Institute of Technology (IIT)-Madras, a master's degree in environmental and resource engineering from the University of Syracuse, and a Ph.D. in water resources and environmental systems from Harvard University.



Jan Lundqvist

Professor Jan Lundqvist is a senior scientific adviser at Stockholm International Water Institute. His research includes multi-disciplinary analysis related to water resources policy and management, linkages between water, land, energy and food in a food supply chain perspective. Recently his engagement includes 'source to sea' challenges, i.e. land-based threats to coastal systems. Connections between policy and human responses feature in his research. He has organized and implemented research projects and consultancy assignments in East, North and Southern Africa, the Middle East, China, South Asia, Brazil and Sweden. He has published results of his work in about 100 articles, reports and books. He has participated in radio and TV programmes and other 'non-academic' programmes in several countries. He is or has been on the editorial board of a number of scientific journals. He continuously presents his work at international conferences and is frequently organizing sessions at international conferences.



Solomon
Muchina
Munyua

Solomon Muchina Munyua, presently the Director of the IGAD Centre for Pastoral Areas (Icpald) and coordinator of the GFDRR Greater Horn Of Africa resilience and sustainability Initiative (GHADRSI), is one of the key architects of the IGAD drought resilience and sustainability initiative (IDDRSI) that is being implemented in all seven participating member states. He has worked extensively in the Arid and semi-arid areas of Eastern Africa including IGAD and EAC member states. He has worked in various capacities in the University of Nairobi, AU-IBAR, Cardno-Agrisystem, FAO SOM, WB and IGAD. He is widely published in peer reviewed journals and is the co-author of the book entitled, *An Introduction To Environmental Management*.



James
Mwangi

Dr. James Mwangi is the Chief Executive Officer and Managing Director of Equity Bank Group and the Executive Chairman of Equity Group Foundation. He holds five honorary doctorate degrees in recognition of his contributions to the Kenyan society. He holds a Bachelor of Commerce degree and is a certified public accountant. He has been honoured twice with Presidential national awards. He was vested the First Class Chief of the Order of the Burning Spear national decoration — the highest presidential award to a civilian — for outstanding contributions in economic development. He was also named the World Entrepreneur of the Year by *Ernst & Young* in 2012, and the Forbes Africa Person of the Year in 2012. He is currently the Chairman of Kenya's Vision 2030 Delivery Board charged with the responsibility of ensuring Kenya becomes a middle income country with global high standards of living by the year 2030. He serves on several international bodies as an adviser. He is a board member of the Africa Leadership Academy in South Africa, the Global Alliance for Food Security and Nutrition among others and is the Chancellor of Meru University College of Science and Technology. He has extensive experience in the banking industry and inclusive finance.



Valens
Mwumvaneza

Valens Mwumvaneza is currently the Team Leader for World Bank Agriculture Operations in Rwanda including the Rural Sector Support Program (RSSP) and the Land Husbandry, Water Harvesting and Hillside Irrigation Program (LWH), which is co-financed by the Global Agriculture and Food Security Program (GAFSP), USAID and CIDA. He also leads The Western Kenya CDD and Flood Mitigation Project (WKCCDD/FMP) and also supports operations in Burundi and Tanzania. Since 2009, he has worked with the RSSP and LWH projects on development of sustainable agriculture production systems, on intensification programmes and on farmer and community empowerment through promotion of CDD approaches. Prior to joining the World Bank, he worked with the Institute of Agriculture and Animal Husbandry (Institut Supérieur d'Agriculture et d'Élevage –ISAE) in Rwanda where he was Director of Academic Quality, Deputy Dean and Lecturer in the School of Agricultural Engineering respectively. He is a founding member of the Rwanda Science and Research Council. He holds a Masters of Engineering in Agricultural Systems and Engineering from the Asian Institute of Technology, Bangkok, Thailand and a Bachelor of Agriculture Technology from Allahabad, India.



Gianpiero
Nacci

Gianpiero Nacci has more than 20 years' experience in sustainable energy and cleaner production with expertise in energy efficiency, industrial processes and renewable energy technologies. The Energy Efficiency and Climate Change (E2C2) Team is responsible for coordinating the implementation of the EBRD Sustainable Energy Initiative which since its inception in 2006 has provided over EUR 14 billion of finance to sustainable energy projects resulting in annual GHG emission reduction exceeding 65 million tons CO₂. He joined the EBRD in 2003 and has led the development of cleaner production, sustainable energy and carbon emission reduction projects for corporate clients in manufacturing, agribusiness, property and tourism and transport resulting in more than EUR 3 billion of EBRD finance. He has conducted or supervised the implementation of over 300 business development assignments, including energy and resource efficiency audits in manufacturing, carbon emission reduction assessments and energy management trainings. His work covers the whole EBRD region; in particular, he has developed field experience in Azerbaijan, Belarus, Bulgaria, BiH, Croatia, Jordan, Kazakhstan, Kyrgyzstan, Lithuania, Macedonia, Montenegro, Morocco, Poland, Romania, Russian Federation, Serbia, Slovenia, Tunisia, Turkey and Ukraine. He holds an M.Sc. in mechanical engineering from the Politecnico di Torino (1994) and an M.Sc. in renewable energy from the University of Oldenburg Germany (2003).



Chiji
Ojukwu

Chiji Ojukwu is from Nigeria and holds a Ph.D. and a master's degree in development economics and project planning from the University of Bradford, United Kingdom. He also holds a bachelor's degree in agriculture (agricultural economics) from the Obafemi Awolowo University, Ile-Ife, Nigeria. Since November 2013, he has been Director, Agriculture and Agro-industry Department of the African Development Bank. From January 2011 to October 2013, he was, he was Regional Director, South B, with responsibilities for policy and programming in six countries: Angola, Malawi, Mauritius, Mozambique, Sao Tome and Principe and Zambia. Earlier, he was Manager, North, East and South Regions in the Agriculture and Agro-Industry Department (2007 – 2010). He also held positions of senior, principal and chief agricultural economist from 1997 to 2007. Prior to joining the Bank in March 1997, he had worked for 16 years in various capacities under the Federal Government of Nigeria, and was last Coordinator, Programme Development and Planning, at the Federal Agricultural Coordinating Unit, Abuja, where he coordinated implementation of three major World Bank-assisted projects in several states of the country. He has taught and written many papers in the area of project analysis, and, especially, the application of cost-benefit analysis to agriculture projects. He is the chair of the informal Bank Network, Project Analysis Network (PAN) with the objective of sharing knowledge amongst Bank staff on project analyses. He has travelled extensively in Africa in the course of his work in development.



Eric
Patrick

Eric Patrick is an adaption specialist with IFAD, and works among other things in helping co-programme the ASAP adaptation grant with other IFAD financing for smallholder development. He was previously with UNDP's Drylands Development Centre and his interest in resilience dates from that period.



Ethel
Sennhauser

Ethel Sennhauser is the Director of the Agriculture Global Practice at the World Bank. The Practice has a threefold focus: climate-smart and nutrition-sensitive agriculture and Inclusive and efficient value chains. As Director, she oversees the Bank's agriculture portfolio and leads the Bank's strategy on food security, nutrition improvement and sustainable agriculture promotion. Prior to her current position she was the Director of Operational Services in the East Asia and Pacific Region. In this role, she managed the operational work of the region, including quality, portfolio and fiduciary aspects. Before this she was the Sector Manager for Agriculture and Rural Development in the Latin America & Caribbean Region. She holds a PhD in regional ecology from the University of Buenos Aires and a master's in biology and ecology also from the University of Buenos Aires. She worked extensively with the private sector and academia prior to joining the World Bank in 1998. In addition to working on various complex operations, she has been a prolific writer of reports and publications on agriculture, rural development, environment and sustainable development.



Tushaar
Shah

Tushaar Shah, an economist and public policy specialist, is a former director of the Institute of Rural Management at Anand in India. Over the past 35 years, his main research interests have been in water institutions and policies in South Asia, a subject on which he has published extensively. His notable contributions have been in comparative analyses of groundwater governance in South Asia, China and Mexico. More recently, his interests have been in comparative analyses of water institutions and policies across Asia and between South Asia and sub-Saharan Africa. He has also worked extensively on the energy-irrigation nexus in India. He was honoured with the Outstanding Scientist award of the Consultative Group of International Agricultural Research (CGIAR) in 2002. The IWMI-Tata Water Policy Program led by him was chosen for the 2014 UN Water-for-Life Award for Best Practices in water management research. His most recent publication is *Taming the Anarchy: Groundwater Governance in South Asia* published by the Resources for the Future Press, Washington. He serves on the boards of several academic institutions and NGOs and is a director on the board of the ICICI Bank. He is a Senior Fellow of the Colombo-based International Water Management Institute, and works out of Anand in western India.



Erwin
De Nys

Erwin De Nys is a senior water resources and irrigation specialist at the World Bank, in the Global Water Practice of the Latin America and Caribbean Region. He is currently coordinating the World Bank's portfolio in Brazil related to investment projects and analytical work in the field of water resources management, irrigation management and adaptation to climate change. He obtained his M.Sc. in water resources management from the International Centre for Higher Education in agricultural sciences (Montpellier, France) and his Ph.D. in irrigation management from the University of Leuven — KU Leuven, Belgium. Prior to joining the World Bank in 2005, he served as food security officer for the European Commission.



Christina
Blank

Christina Blank, a Swiss national, holds a master's degree in agriculture from the Swiss Federal Institute of Technology Zurich and a bachelor degree of science in international agriculture from the Bern University of Applied Sciences. She started her career in 2001 at the Federal Office for Agriculture in Switzerland as scientific officer in the field of agricultural policy development and implementation related to sustainable use of natural resources. In 2010 she joined an Indian Non-Governmental Organization where she was responsible for value chain analysis to develop strategies to enhance the income of small scale farmers. Since 2011 she is Deputy Permanent Representative at the Permanent Representation of Switzerland to FAO, IFAD and WFP in Rome and acted as Chair of the Open-ended Working Group of the Committee of World Food Security for the development and the inclusive consultation process for principles for responsible investment in agriculture and food systems.



Stefano
Burchi

Chairman of the Executive Council International Association for Water Law.

Guenter
Fischer

International Institute for Applied Systems Analysis.

Audrey
Nepveu

Audrey Nepveu is the Technical Adviser on Water and Rural Infrastructure in IFAD. She is a water resources management expert working on the issues of improving rural livelihoods. Since 2004 when she joined IFAD as a consultant, she has been providing technical support to IFAD portfolio on improving the access of the rural poor to water as a path to rural poverty reduction. She also facilitates knowledge and information exchange within the institution as well as on the international scene. Ms. Nepveu began her professional career in 1999 at FAO, working on innovations in scientific research and technology, focusing on issues of small scale and smallholder irrigation in West and Central Africa. In 2003, she worked on updating Africa country profiles on the use of agricultural water under the FAO's Aquastat programme.

