



Fifth Nile Basin Development Forum

PROGRAMME OVERVIEW



Day 1 – 23 October 2017	
15:30 – 18:00	Opening Session – Room MH 1 + 2
16:00 – 21:00	Nile Media Awards ceremony and concert by The Nile Project – Room MH 3 + 4

Day 2 – 24 October 2017											
09:00 – 10:00	Plenary Session 1 – Water Security – From concept to practice – Room MH 1 + 2										
<i>10:00 – 10:30</i>	<i>Coffee break</i>										
	Paper presentation sessions – Taking stock of what we know										
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Day 3 – 25 October 2017									
08:30 – 10:15	Plenary 2 – Water Security in the Nile Basin – Room MH 1 + 2								
<i>10:15 – 10:45</i>	<i>Coffee Break</i>								
	Panel Sessions – Exploring solutions and pathways								
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<i>12:15 – 13:30</i>	<i>Lunch Break</i>								
13:30 – 15:15	High Level Synthesis Panel Sessions – How to take it forward								
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<i>15:15 – 16:00</i>	<i>Coffee Break</i>								
16:00 – 17:00	Ministerial Panel – Room MH 1 + 2								
17:00 – 17:30	Closing – Room MH 1 + 2								



Fifth Nile Basin Development Forum

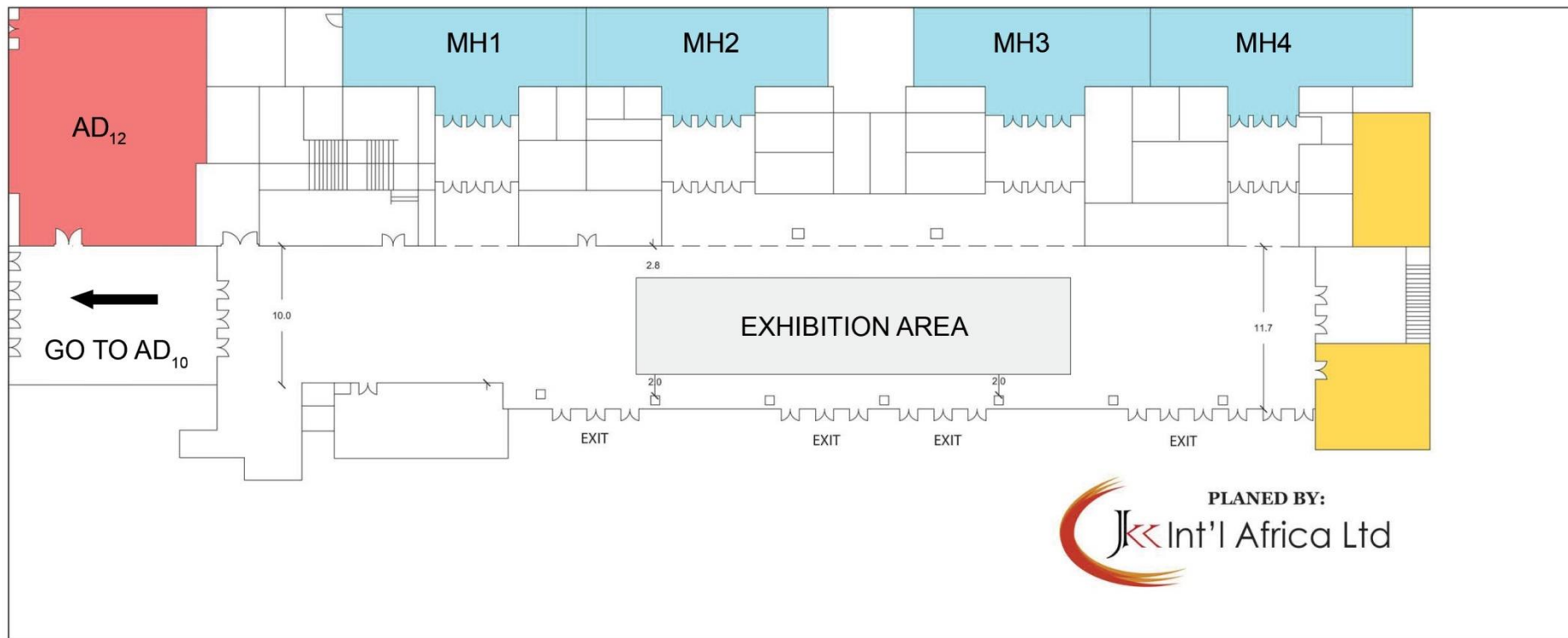
23-25 October 2017

Radisson Blue Hotel & Convention Center, Kigali - Rwanda

Investing in Nile Cooperation for a Water Secure Future



FLOOR PLAN



PLANED BY:
Jkk Int'l Africa Ltd



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FINAL PROGRAMME

DAY 1 – Monday, 23rd October 2017

Participants are expected to register for the event at the Opening Session. Organisers, hosts and partners welcome participants to the Fifth Nile Basin Development Forum and introduce the programme for the following days. The Guest of Honour will visit the exhibition which will be open to participants for the duration of the NBDF.

Opening Session Room MH 1 + 2	
15:30 – 16:00	Registration over tea and coffee
16:00 – 16:05	Welcome statement by Dr. Claudine Uwera, Master of Ceremony (MC)
16:05 – 16:15	Poem presentation by school children
16:15 – 16:25	Welcome remarks by Eng. Innocent Ntabana, Executive Director, NBI Secretariat
16:25 – 16:35	Welcome remarks by HE Amb. Rolf Welberts, German Special Envoy for Nile Cooperation Affairs
16:35 – 16:45	Welcome remarks by William Rex, CIWA Program Manager World Bank
16:45 – 16:55	Welcome remarks Nile-COM Member of Rwanda (tbc)
16:55 – 17:05	Opening speech by the Guest of Honour
17:05 – 17:25	Introduction to the program by Dr. Abdulkarim Seid, Chair of the Programme Committee
17:25 – 18:00	Exhibition Opening

The Nile Media Awards 2017 seek to recognize journalists from within the Nile Basin for excellent reporting on Nile cooperation issues in order to promote increased, factual and increased, accurate and factual reporting on these issues.

Nile Media Awards 2017 Ceremony and Nile Project Concert Room MH 3 + 4	
18:00 – 19:00	Nile Media Awards Ceremony (incl. dinner)
19:00 – 21:00	The Nile Project Concert

DAY 2 – Tuesday, 24th October 2017

As water in the Nile Basin becomes an increasingly scarce resource, given the impacts of climate change, demand continues to rise with the growing populations and economies of the Nile Basin states. However, there are a wide range of options available to riparian states seeking to meet these growing demands by investing in cooperative solutions to managing water resources in an integrated and equitable manner. The first Plenary Session of the 5th NBDF will explore the concept of water security, what it means for the Nile Basin, and how cooperation can help achieve it for up- and downstream countries alike.

Plenary Session 1: Water Security – From concept to practice Room MH 1 + 2	
09:00 – 10:00	<ul style="list-style-type: none"> - Brief introduction to the program and theme of NBDF; by Dr. Claudine Uwera, MC - Keynote 1: River Basin Management Pathways to Water Security; by Dr. Don Blackmore - Keynote 2: Water security through regional basin planning – an example from the SADC region; by Prof. Zebedia Phiri <p>Moderator: Dr. Claudine Uwera, MC Rapporteurs: Dr. Wubalem Fekade and Dr. Mohsen Alarabawy</p>
10:00 – 10:30	<i>Coffee break</i>

A first step in moving towards a basin-wide approach to managing the waters of the Nile is to take stock of the knowledge and solutions already available in the basin. Three rounds of paper presentation sessions will collect the experience of scientists and practitioners on topics ranging from water resources and food security, energy access – and the nexus between these three –, water ecosystems, governance, financing options and knowledge assets. These have been arranged in five parallel session series, as outlined below, with each session featuring presentations from four experts as well as a short discussion.

	I: Ensuring water availability for a growing water demand (WA)	II: Sustaining the water ecosystems of the Nile Basin (ECO)	III: Water – Energy – Food Nexus (WEF)	IV: Governance (GOV)	V: Economic Perspectives for Basin Management (ECN)
Session Series	This session aims to build common understanding on current and projected future availability, variability (natural and due to climate change) and accessibility of water resources in the Nile Basin and generate options for enhancing water supply/availability for meeting the growing water demands.	The objective of this session is to take stock of current understanding and knowledge of the two most critical elements of the Nile basin environment – wetlands and catchments; explore options for their sustainable management determining technical, policy and institutional requirements.	This session shall identify key intra-, inter-sectoral and u/s – d/s tradeoffs and explore/propose/recommend strategic options for regional coordinated approaches (infrastructure, institutions and policies) to meet the growing water, energy, and food demands in the Nile Basin.	The objective of this session is to identify constraints and opportunities for effective transboundary water governance, explore options and draw workable recommendations for cooperative management and development of the Nile Basin.	This session seeks to create a shared understanding of how economic considerations are currently impacting the management of water resources, as well as the potential opportunities for economics, trade and business in furthering sustainable development of the Nile waters.

Paper Presentation Sessions: *taking stock of what we know*

Paper Presentation Sessions: <i>taking stock of what we know</i>					
WA1 - Climate change	ECO1 - Catchment/Watershed Management	WEF1 – Food production and water management	GOV1 - Transboundary cooperation: sharing experiences	ECN1 - Economic valuation of ecosystem services	
Moderator: Dr. Ahmed Khalid Rapporteur: Eng. Arsene Mukubwa	Moderator: Eng. Colleta Ruhamia Rapporteur: Mr. Leonard Akwany	Moderator: Dr. Rashid Mbazira Rapporteur: Mr. Andy Tola	Moderator: Ms. Dorothy Kaggwa Rapporteur: Mr. Tom Waako	Moderator: Dr. Michel Masozera Rapporteur: Mr. Emmanuel Chonza	
Room MH 1 + 2	Room MH 4	Room MH 3	Room AD 12	Room AD 10	
Climate Change projections for the Nile Basin: what do the climate models tell us?	Soil and Water conservation, experiences from upper Blue Nile Basin, Ethiopia	<i>Regional agricultural trade and investment in the Nile Basin</i> <i>Dr. Claudia Ringler</i>	Beyond legalisms: toward cooperative governance of resource security	The Value of the Sudd Wetland: Implications for Integrated Policies in the Nile River Basin	
<i>Dr. Modathir Zaroug</i>	<i>Dr. Seifu A. Tilahun</i>	<i>Dr. Eltigani Abdelgalil</i>	<i>Ms. Belynda Petrie</i>	<i>Dr. Hannes Lang / Dr. John Gowdy</i>	
Analyzing the future climate change of Upper Blue Nile River Basin (UBNRB) using statistical down scaling techniques	Assessing impact of land use and land cover change on stream flow response: Dinder and Rahad	Technical efficiency of large scale irrigated wheat production in Blue Nile basin, case of Koga irrigation scheme	TB water governance and cooperation through Benefit Opportunities Assessment Dialogue in the Sio-Malaba-Malakisi sub-basin	Applying standardized methodology to value biodiversity and ecosystem services in the Lake Victoria Basin	
<i>Mr. Dagnenet Fenta Mekonnen</i>	<i>Eng, Khalid Hassaballah</i>	<i>Mr. Anteneh Belay</i>	<i>Mr. John Owino</i>	<i>Dr. Brenda Bergman</i>	
Impact of climate change on precipitation distribution and water availability in the Nile basin	Livelihood Contribution of landscape restoration	Impacts of irrigation development in the Upper Blue Nile basin using Nile Basin DSS	Project based transboundary cooperation: the case of GERD-P	Rapid Assessment of Ecosystem Service values at Yala Wetland, Kenya	
<i>Mr. Zelalem Mekonnen</i>	<i>Mr. Yitbarek Tibebe Welde semaet</i>	<i>Eng. Habtam Achenif</i>	<i>Eng. Gedion Asfaw</i>	<i>Mr. Justus Amayo</i>	
The National Impact of 1.5 and 2 Degree Global Warming over Africa, and the Role of Aridity	Catchment restoration for a sustainable renewable energy production in Upper Nyabarongo Catchment, Rwanda	Satellite based ICT for improved crop production in the Gezira Scheme – Sudan	GERD and Hydro-politics in the Eastern Nile, from water to benefit sharing?	Economic Valuation of Wetlands Ecosystems for Wise Use Review and Case Studies from the Nile Basin	
<i>Dr. Modathir Zaroug</i>	<i>Mr. Francois Tetero</i>	<i>Prof. Younis Gismalla</i>	<i>Dr. Rawia Tawfik</i>	<i>Dr. Amel Azab</i>	
Discussion	Discussion	Discussion	Discussion	Discussion	
<i>Lunch break</i>					

10:30-12:00

13:30-15:00	WA2 - WR Availability and Variability Moderator: Dr. Ahmed Khalid	ECO2 - Sustainable use and management of Wetlands Moderator: Eng. Colleta Ruhamia	WEF2: Multi-sector planning and tradeoffs Moderator: Dr. Rashid Mbazira	GOV2 - Hydro-politics of the Nile Basin Moderator: Ms. Dorothy Kaggwa	ECN2 - Hydro -economics of water allocation Moderator: Dr. Michel Masozera
	Room MH 1 + 2	Room MH 4	Room MH 3	Room AD 12	Room AD 10
	Surface water availability and variability in the Basin and climate change impacts in the Nile Basin	Supporting Sustainable Management of the Mara Wetlands in the Mara River Basin	Eastern Nile Multi-Sectoral Investment Opportunity Analysis	Collective Action Theory and Nile Basin Cooperation: Past Experience, Future Directions	Water in national economic planning: utilization, challenges and valuation
	<i>Prof. Seifeldin Abdalla</i>	<i>Mr. Emmanuel Mgimwa</i>	<i>Ms. Azeb Mersha</i>	<i>Dr. Alan Nicol</i>	<i>Dr. Khalid Siddig</i>
	Use of EO Data for Monitoring River Basins.	Community Conservation Agreements Model for Sustainable Management of Winam Gulf Wetlands	Influence of Roseires Dam Heightening on Performance of Al-Guneid Irrigation Pumps in Sudan	Role of water diplomacy in TB cooperation in EN: Application of experimental games	Eastern Nile Multipurpose Option Scoping Model
	<i>Ms. Milly Mbuliro</i>	<i>Ms. Roniance Adhiambo</i>	<i>Prof. Ali Adeeb</i>	<i>Dr. Mahsa Motlagh</i>	<i>Mr. Mikyas Gonfa</i>
	Assessment of GW of Blue Nile Sudan	How Healthy is the Lake Victoria Ecosystems Goods and Services? Gender-Ecosystem-Poverty linkage Perspective	Using WEAP Model to Monitor and Manage the Blue Nile River Basin	The Emotional River: The Hydro Political Psychology of the Nile	Projecting downstream impacts of the GERD: the case of irrigated schemes in Sudan
	<i>Dr. Elmusalami Fadlallah</i>	<i>Dr. Aloyce Hepelwa</i>	<i>Eng. Mohamed Mokhtar</i>	<i>Mr. Wondwosen Michago Seide</i>	<i>Dr. Shamseddin Ahmed</i>
	Flood forecasting and early warning	Incentives Based Conservation Approach for Nile Basin Wetlands Wise-use by	Mainstreaming value of Ecosystems and Biodiversity in Development Planning: Tana River Basin		Updating the hydrology of the Baro-Akobo-Sobat
	<i>Eng. Surafel Mamo Woldegrael</i>	<i>Mr. Amos Thiongo</i>	<i>Mr. Wamubeyi Brian Jared</i>		<i>Dr. Verno Jonker</i>
Discussion	Discussion	Discussion	Discussion	Discussion	
<i>Coffee Break</i>					

	WA3 - Enhancing water resources supply Moderator: Dr. Ahmed Khalid	ECO3 – Environmental Flows Moderator: Eng. Colleta Ruhamia	WEF3 – Coordinated planning and management Moderator: Dr. Rashid Mbazirra	GOV3 – Multi-track Hydro- diplomacy Moderator: Ms. Dorothy Kaggwa	ECN3 – Investment and trade: exploring the current landscape Moderator: Michel Masozera	
	Room MH 1 + 2	Room MH 4	Room MH 3	Room AD 12	Room AD 10	
15:30-17:00	Scope for diversifying water resources supply in the Nile Basin <i>Dr. Yassir Abas</i>	A Framework Model for Strategic Environmental Assessment for River Engineering Development <i>Mr. Lugard Kaunda Ogaro</i>	Towards operation of dam cascades, approaches of NBI in the Eastern Nile <i>Dr. Omer El-Awad</i>	Realizing the water security of the Nile Basin states: exploring the options <i>Dr. John R. Nyaoro</i>	Political economy of large scale agricultural investment in the Nile Basin: exploring opportunities and challenges <i>Mr. Ramy Hanna</i>	
	Rainfall Harvesting Projects in Sudan <i>Dr. Ahmed Adam</i>	Environmental flow assessment: NBI experience; include case studies (dinder) <i>Dr. Mohsen Alarabawy</i>	Challenges facing Atbara Dam Complex (ADC) Operation Management <i>Prof. Abdalla Abdelsalam Ahmed</i>	The role of media and science communication in shaping debates and negotiations over the Nile. <i>Dr. Emanuele Fantini</i>	Food, Fodder and Flowers: virtual water trade in the Nile Basin <i>Dr. Ana Elisa Cascão</i>	
	Challenges and success factors to enhancing rural community resilience to drought- Case study Bugesera in Rwanda <i>Eng. Lazare Nzeyimana</i>	Environmental flow for the Nile Basin: Framework for regional evaluations and a case study from the Mara river <i>Dr. Gordon O'Brien</i>	Seeking Compromise with the GERD <i>Dr. Kevin Wheeler</i>	Integrated diagnostic approach to understand stakeholder's role and impact on water governance in the Nile Basin <i>Mr. Mohamedh Tawfik</i>	Business Corporations in the Eastern Nile Basin: Engine or Barrier of Effective Water Governance? <i>Ms. Abeer Abazeed</i>	
	Groundwater availability and potential in the Nile Basin <i>Dr. Seifu Kebede</i>	Evaluation of experiences with e-flow assessments in the East Africa <i>Prof. Michael McClain</i>	National Water Projects in the Eastern Nile Basin: Drivers to Conflict or Cooperation? <i>Eng. Mina Michel Samaan</i>	The Nile Project: culture and education dimensions of water diplomacy <i>Mr. Mina Girgis</i>	Climate finance: opportunities for investment in the water sector <i>Mr. Herman Kwoba</i>	
	Discussion	Discussion	Discussion	Discussion	Discussion	
	Open Space: exhibition visits, side meetings and book launches: <ul style="list-style-type: none"> - Realizing the Water security of the Nile Basin States: balancing the Existing Water Uses and Potential Water Uses, <i>Dr. John Rao Nyaoro</i> - The River Nile: a bridge to cooperation, <i>Prof. Mark Mwandosya</i> - The Grand Ethiopian Renaissance Dam and the Nile Basin: Implications for transboundary water cooperation, <i>Dr. Zeray Yihdego, Prof. Alistair Rieu-Clarke, Dr. Ana Elisa Cascão</i> 					

DAY 3 – Wednesday, 25th October 2017

Day 3 aims to pave a way forward for Nile Basin countries to explore joint solutions to river basin management. The Plenary introduces current strategies at the national level, NBI's approach to exploring possible solution pathways and examples of how two other river basins are addressing similar challenges.

08:30 – 10:25	<p style="text-align: center;">Plenary Session 2: Coordinated planning and management of shared water resources for enhancing water security in the Nile Basin</p> <p style="text-align: center;">Room MH 1 + 2</p> <ul style="list-style-type: none">• Review of Day 2, introduction to Day 3; <i>by Dr. Claudine Uwera, MC</i> • Country perspectives (5) on future water demands, challenges and strategies for addressing the growing water demands Sudan: Eng. Ahmed Adam Rwanda: Dr. Omar Munyaneza Uganda: Eng. Sowed Sewagudde Ethiopia: Dr. Ylma Seleshi • Keynote 1: Exploring how to address projected growth in water demands, NBI's approach; <i>by Dr. Abdulkarim Seid</i>• Keynote 2: Indicative scenarios of cooperative solutions for addressing up- and downstream water demands; <i>by Prof. Dale Whittington</i>• Keynote 3: Adapting water governance to emerging needs and challenges, example from the Colorado river basin; <i>by Prof. Edith Zagona</i> <p>Moderator: Dr. Claudine Uwera, MC Rapporteurs: Dr. Wubalem Fekade and Dr. Mohsen Alarabawy</p>
Coffee break	

Four parallel panel sessions draw on the vast knowledge collected on day two and begin to explore possible solutions and pathways to the sustainable and cooperative management and development of the Nile Basin's resources. Each panel will feature three short expert inputs to stimulate discussion.

					Panel Sessions: exploring solutions and pathways			
10:45 – 12:15	Thematic Panel 1: Options for conserving and diversifying water source		Thematic Panel 2: Reconciling ecosystem sustainability with water resources investment planning		Thematic Panel 3: Towards a basin approach for efficient water management and food security		Thematic Panel 4: Regional integration through hydraulic infrastructure	
	Moderator: Dr. Ahmed Khalid Rapporteur: Eng. Arsene Mukubwa		Moderator: Dr. Malte Grossmann Rapporteur: Mr. Leonard Akwany		Moderator: Dr. Rashid Mbaziara Rapporteur: Mr. Tom Waako		Moderator: Eng. Fekahmed Negash Rapporteur: Mr. Andy Tola	
	Room MH 1 + 2		Room MH 3		Room AD 12		Room AD 10	
	Enhancing and diversifying water sources: scanning the options for the Nile Basin		Environmental flows: how to use existing best practice in the Nile Basin region		Food security through basin-wide approaches of agricultural water management		Coordinated operation of cascade of dams, experiences from the Colorado Basin, USA	
	<i>Dr. Yassir Abbas</i>		<i>Prof. Michael McClain</i>		<i>Mr. Bart Hilhorst</i>		<i>Prof. Edith Zagona</i>	
	Improved demand side management and use of non-conventional water;		Water requirements of Wetlands: Integrating wetland sustainable use and management in basin planning		The critical role of global and regional virtual water trade in the Nile Basin		Power inter-connection and energy trade, NBI's experience.	
	<i>Dr. Mohammed Ahmed Hassan</i>		<i>Dr. Paul Ouédraogo</i>		<i>Dr. Ana Elisa Cascão</i>		<i>Mr. Ellicad Nyabeeya</i>	
	Groundwater as complementary water source		Integrated watershed management for protection of water source areas and sustainable livelihoods		Agriculture and Food Security in NBI's Strategy		Regional integration through hydraulic infrastructure: the economic arguments	
	<i>Dr. Seifu Kebede</i>		<i>Dr. Seifu A. Tilahun</i>		<i>Eng. Innocent Ntabana</i>		<i>Prof. Marc Jeuland</i>	
	Short interventions by additional panellists: Prof. Seifeldin Abdalla Dr. Yilma Sileshi Eng. Jackson Twinomujuni Mr. Francis Wajo		Short interventions by additional panelists: Eng. Alier Oka Ms. Astrid Hillers Mr. Laisser Sadiki Ms. Lucy Iyango Mr. Francois Tetero		Short interventions by additional panelists: Prof. Younis Gismalla Dr. Omer El-Awad Dr. Badreldi Elhas Mr. Fred Mwango		New approaches for regional water-energy integration <i>Prof. Julien Harou</i>	
Discussion and audience Q&A		Discussion and audience Q&A		Discussion and audience Q&A		Short interventions by additional panelists: Dr. Kevin Wheeler Prof. Abdalla Abdussalam Eng. Sowed Sewaggude Eng. Teshome Atnafie		
Discussion and audience Q&A		Discussion and audience Q&A		Discussion and audience Q&A		Discussion and audience Q&A		
Lunch								

Two parallel synthesis panels seek to further focus the discussions of the previous days and translate them into specific options for Nile Basin countries to take move their cooperation forward.

High Level Panel Session: <i>how to take it forward</i>	
<p>Synthesis Panel 1: Nile Cooperation, how to make the qualitative leap forward?</p> <p>Moderator: Dr. Susanne Schmeier Rapporteurs: Dr. Wubalem Fekade, Mr. Tom Waako</p>	<p>Synthesis Panel 2: Rethinking basin planning and investment in the Nile Basin</p> <p>Moderator: Eng. Fekahmed Negash Rapporteur: Dr. Mohsen Alarabawy, Mr. Andy Tola</p>
Room MH 1 +2	Room MH3
Qualitative leap in Nile cooperation, reflecting on the outcomes of the paper and panel sessions, <i>by Rapporteur</i>	Building blocks for a water secure Nile Basin: reflecting on the outcomes of the paper and panel sessions, <i>by Rapporteur</i>
Strengthening the dialogue: structured dialogue as a means for exploring breakthrough options in transboundary cooperation	NBI's 10 year strategy: Re-thinking regional investment and basin planning
<i>Prof. Jon Martin Trondalen</i>	<i>Dr. Abdulkarim Seid</i>
International water law perspectives	International experience in joint basin planning and investments
<i>Dr. Salman Salman (via Skype)</i>	<i>Dr. Don Blackmore</i>
<p><i>Short interventions by other panellists:</i></p> <p>H.E. State-Minister Hirut Zemene Prof. Seifeldin Abdalla Dr. John Nyaoro Eng. Florence Adongo</p>	<p><i>Short interventions by other panellists:</i></p> <p>Eng. Teferra Beyene Eng. Ellicad Nyabeeya Dr. Ali Said Matano Prof. Zebedia Phiri</p>
Discussion: Q and A from audience, panel members reflection	Discussion: Q and A from audience, panel members reflection
<i>Coffee Break</i>	

13:30 – 15:15

In the Ministerial Panel, Ministers of Water Affairs will deliberate on the messages and possible solution pathways emerging from the 5th NBDF.

	<p style="text-align: center;">Ministerial Panel – moving the agenda forward together</p> <p style="text-align: center;">Room MH 1 + 2</p> <p>Moderator: Mr. Daniel Kalinaki, Rapporteur: Dr. Wubalem Fekade and Dr. Mohsen Alarabawy</p>
16:00-17:00	<ul style="list-style-type: none"> - Reporting back on key issues: Dr. Wubalem Fekade (hydro-diplomacy, cooperation) and Dr. Mohsen Alarabawy (investment, building blocks) (10 Mins) - Introduction by Moderator (5 Minutes) - Panel discussion on key issues/recommendations from sessions (40 Minutes) <p>Panellists: ED + Ministers of water affairs from Nile Basin available at the forum Eng, Innocent Ntabana, Executive Director NBI Secretariat H.E. Minister Vincent Biruta, Rwanda H.E. Minister Dr. Seleshi Bekele, Ethiopia H.E. Minister Sophia Pal Gai, South Sudan H.E. Minister Mutaz Abdalla Salim, Sudan H.E. Ambassador John L Mugerwa, Uganda Ministers of Burundi, DRC, Kenya, Tanzania (tbc)</p> <p style="text-align: center;">Wrap-Up of the Ministerial Panel deliberations, by moderator</p>
17:00-17:30	<p>Closing Session</p> <ul style="list-style-type: none"> - Messages from the forum, by <i>Dr. Wubalem Fekade</i> - Words of thanks, by Executive Director of NBI - Concluding remarks by Development Partners - Closing remarks by Host Country Nile-COM member