

Converting Water Loss into Climate Action: How Strategic NRW Management drives Climate Solutions

09:00 to 10:30	WORKSHOP 1: Financing a Water-Secure Future: Climate Capital for Water Loss Reduction (WORLD BANK)
10:30 to 11:00	Coffee Break
11:00 to 12:30	WORKSHOP 2: Integration of Carbon Certification into NRW Programs (InterAmerican Development Bank)
12:30 to 13:30	Lunch Break
13:30 to 15:00	WORKSHOP 3: Crafting Better NRW PBCs: Lessons Learned, Challenges Exposed
18:30 to 20:30	WELCOME RECEPTION

WOMEN'S NETWORK EVENING - Details to be released soon

STREAM 1				STREAM 2			STREAM 3		
08:30 to 09:00	KEYNOTE SPEECH Dr George Milis - DEMYSTIFYING AI: CUTTING THROUGH HYPE AND MYTHS TO ACHIEVE REAL IMPACT								
09:00 to 10:30	Leak Detection Technologies, Strategies and Equipment			Network Zoning, DMAs Pressure Management			NRW Assessment and Strategy - Part A		
	Chair:			Chair:			Chair:		
	thia	Title	Country	Author	Title	Country	Author	Title	Country
	Elizabeth Pauline Carreño Alvarado	APPLICATION OF UNSUPERVISED MACHINE LEARNING TECHNIQUES TO EVALUATE BINARY LEAK DETECTION IN WATER DISTRIBUTION SYSTEMS	Brazil	Igor Dundovic	TRANSFORMING INTERMITTENT WATER SUPPLY TO CONTINUOUS 24/7 SERVICE IN ADDIS ABABA: A PERFORMANCE-BASED APPROACH TO WATER LOSS REDUCTION	Croatia	Dylan Clarke-Herbert	ASSESSMENT AND MANAGEMENT OF WATER LOSSES IN WATER DISTRIBUTION SYSTEMS: A CASE STUDY IN BARBADOS	Barbados
	Mikal Willmott	EVALUATING THE EFFECTIVENESS OF CLAMP-ON METERS ON TRANSMISSION MAINS	UK	Khor Tse Tong	LEAKAGE REDUCTION WITH TRUNK MAIN PRESSURE MANAGEMENT	Malaysia	Joanna Sosna	25 YEARS OF EXPERIENCE IN IMPLEMENTING AND DEVELOPING WATER LOSS REDUCTION STRATEGY AT THE WATER AND WASTEWATER UTILITY COMPANY IN GLIWICE, POLAND	Poland
	Mohammad Moataz Tolba	LEAK LOCALIZATION IN INTERMITTENT-FLOW PIPES USING THERMOHYDRAULIC MODELING	Egypt	Martijn Deenen	REDUCING BURSTS AND BACKGROUND LEAKAGE WITH PREDICTIVE CONTROL	Netherlands	Josep Francisco Pons i Ausina	WATER SMART: A GIS AND AI-ASSISTED PLATFORM FOR REDUCING NON-REVENUE WATER IN SISAR UTILITIES, NORTHEAST BRAZIL	Spain
	Tomislav Vitovski	LEAK DETECTION ON PLASTIC PIPES. WHAT’S CHANGED?	Croatia	Metin Misirdali	REDUCING THE LEAKAGES ON THE WAY TO 20 MILLION RESIDENTS, ISTANBUL’S NRW JOURNEY OVER 5 YEARS	Turkey	Klavs Høgh	SOLVING THE FAVAD EQUATION	Denmark
13:30 to 11:00	Coffee Break								
11:00 to 12:30	Performance Based NRW Management Contracts			Digital Transformation in Water Networks and Enhancing Water Loss Monitoring			NRW Assessment and Strategy - Part B		
	Chair:			Chair:			Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Ernest Ronnie Ngaivale	PERFORMANCE BASED INCENTIVE PROGRAM FOR NON-REVENUE WATER REDUCTION IN LILONGWE CITY	Malawi	Paula Prado Viti Junqueira	ANÁLISE DE DADOS DE MEDIDORES INTELIGENTES PARA OTIMIZAÇÃO DA GESTÃO HÍDRICA EM UTILITIES DE ÁGUA	Brazil	Sara Daniela Oliveira Cunha	ATÉ ONDE COMPENSA REDUZIR? AVALIAÇÃO DO NÍVEL ECONÓMICO DE PERDAS DO SISTEMA DE ABASTECIMENTO DE ÁGUA DO PORTO	Portugal
	Nathalia Weruska da Silva Pessoa	CONTRATO BASEADO EM RESULTADOS PARA REDUÇÃO DE VOLUME PERDIDO E INCREMENTO DO VOLUME POR AÇÕES DE COMBATE À PERDAS APARENTES E REAIS	Brazil	Laura Anna Boscarello	DIGITAL WATER AND DATA-DRIVEN INNOVATION: THE LRH STRATEGY	Italy	Wellington Jorge Santos	A PERDA JÁ PARTE DE 15% DEVIDO À IMPRECISÃO DA MEDIÇÃO. COMO MITIGAR DE FORMA PERENE? MEDIDORES ELETRÔNICOS COM MAIS DE 8 ANOS PERFORMANDO COMO NOVO.	Brazil
	Joe Dalton	WHY PERFORMANCE-BASED CONTRACTS ARE NOT A PANACEA FOR REDUCING NON-REVENUE WATER	Ireland	Filip Vancoillie	AVOIDING VENDOR LOCK-IN THROUGH AN OPEN ECOSYSTEM APPROACH TO NON-REVENUE WATER REDUCTION IN FLANDERS	Belgium	Saroj Kumar Sharma	ANALYSIS AND PREDICTION OF UNAUTHORISED CONSUMPTION USING ANN	Netherlands
	Elaheh Rastegari	THE NECESSITY OF USING PERFORMANCE BASED CONTRACTS FOR NRW REDUCTION PROGRAMS AFTER JOINING URBAN AND RURAL WATER UTILITIES IN IRAN.	Iran	Claudio Cortés Henríquez	OVERCOMING OPERATIONAL BARRIERS IN SMALL, HIGH-COST SYSTEMS: NON-REVENUE WATER REDUCTION IN TOCOPILLA, CHILE	Chile	Rodolfo Fuchs dos Santos	DESENVOLVIMENTO DE UM KPI INTEGRADO PARA AVALIAÇÃO DA EFETIVIDADE NA DISTRIBUIÇÃO DE ÁGUA	Brazil
12:30 to 13:30	Lunch								

STREAM 1				STREAM 2			STREAM 3		
13:30 to 15:00	Advances in Customer Metering and Management Chair:			Innovative Approaches in Water Loss Reduction Chair:			NRW Assessment and Strategy - Part C Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Verson Kafodya	NRW ASSESSMENT AND REDUCTION IN WATER SUPPLY SYSTEMS WITH PREPAID METERS - CASE STUDY OF BLANTYRE WATER BOARD	Malawi	Steven David Sodek	MONITORING OF HYDRAULIC GRADE LINES BY MICRO-PRESSURE MANAGEMENT USING AI FOR LEAKAGE DETECTION AND OPERATIONAL EFFICIENCY IN RIO DE JANEIRO	Brazil	Milene Aguiar	A REVIEW OF PROGRESS IN WATER LOSS MANAGEMENT IN BRAZIL OVER THE LAST TEN YEARS	Brazil
	Qiang Xu	UNDERSTANDING THE MNF FOR DMAS: HOW MUCH NIGHT WATER CONSUMPTION IS CONTAINED?	China	Seamus Levin/ Francisco Piedade	FLOW BALANCE ANALYSIS IN TRUNK MAIN LEAKAGE INVESTIGATIONS	UK	Alan Wyatt	REAL WATER LOSS ASSESSMENT IN THE CONTEXT OF WATER COST WATER STRESS AND ENERGY USE	USA
	Bruno Dalledone Bittar	MANAGEMENT OF COMMERCIAL LOSSES IN MUNICIPALITIES WITH DIFFERENT SOCIO-ECONOMIC CONTEXTS. CASE STUDY OF VITÓRIA AND METROPOLITAN REGION.	Brazil	Márcio Francisco Gaefke	DETECÇÃO DE LIGAÇÕES IRREGULARES DE ÁGUA: USO DE EQUIPAMENTOS ELETRÔNICOS COM LUZ INFRAVERMELHA E SCANNER EM PERDAS APARENTES	Brazil	Cornelis Wilhelmus Adrianus Maria Merks	THE WATER LOSS CONTROL PROGRAM OF VITENS IN THE NETHERLANDS AIMING TO ALMOST ELIMINATE NRW IN 2030 AT THE LATEST	Netherlands
	Isaac Peña-Pereira	WHEN TO REPLACE A DN15 RESIDENTIAL WATER METER?	Costa Rica	Catherine Stanton-Davies	LOST IN TRANSLATION – A ROSETTA STONE APPROACH TO UNDERSTANDING INTER-RELATIONSHIPS BETWEEN REAL LOSS KPIS	UK	Nurul Carmiela Bidi	AIR SELANGOR EFFECTIVE NRW STRATEGY AND ACHIEVEMENTS	Malaysia
15:00 to 15:30	Coffee Break								
15:30 to 17:00	Digital Transformation in Water Networks and Enhancing Water Loss Monitoring Chair:			Organizational and Institutional Issues Chair:			Leak Detection Technologies, Strategies and Equipment Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Alessandro Bettin	INTEGRATING SMART TECHNOLOGIES WITH LEGACY OPERATIONS: A FULL-SCALE DIGITAL NRW STRATEGY FOR URBAN NETWORKS	Italy	Brenda Martins de Almeida	GESTÃO DE PROJETOS NA REDUÇÃO DE PERDAS DE ÁGUA: ABORDAGEM INTEGRADA TOP-DOWN E BOTTOM-UP	Brazil	Richard Collins	MANAGING BACKGROUND LEAKAGE	UK
	Denis Devos	IMPROVING DMA RELIABILITY THROUGH SMART VALVE MONITORING : SWDE'S INNOVATIVE APPROACH	Belgium	Ignacio Maria Peña	EFFECTIVE CONTRACTUAL FRAMEWORKS FOR WATER LOSS REDUCTION IN AFRICA: INSIGHTS FROM TWO DECADES OF EXPERIENCE	South Africa	Eduardo Filipe Pimentel Rodrigues	REDUCING WATER LOSS THROUGH SATELLITE LEAK DETECTION: A JOINT INITIATIVE OF SEVEN WATER UTILITIES IN THE ALGARVE (PORTUGAL)	Portugal
	Dragan Sokolovic	FOUR PILLARS OF DIGITAL TRANSFORMATION FOR WATER SERVICE PROVIDERS IN SOUTHEASTERN EUROPE	Croatia	Jo Parker	CONQUERING THE COBRA	UK	Manjusha Sunil	DETECTING THE DRIP: EMERGING TECHNOLOGIES COMBATING WATER LEAKAGE AND WASTE	South Africa
	Aisha Mamade	SWITCHING FROM REACTIVE TO PROACTIVE MODE – THE KEY PUSH OF THE DIGITAL TRANSFORMATION	Portugal	Romalyn Uy Malsi	ORGANIZATIONAL CAPABILITY AS A CORE ELEMENT IN NON-REVENUE WATER MANAGEMENT	Philippines	Rafael Humberto Machado Zerunian	USO DE SENSORIAMENTO REMOTO POR SATÉLITE NA DETECÇÃO DE VAZAMENTOS DE ÁGUA: EXPERIÊNCIA DA AEGEA NO RIO DE JANEIRO	Brazil
17:15 to 18:00	OPEN MEETING of the IWA WATER LOSS SPECIALIST GROUP Activities, initiatives, discussions Non-IWA WLSG members are MOST WELCOME								
Evening	FREE								

	STREAM 1			STREAM 2			STREAM 3		
08:30 to 09:00	KEYNOTE SPEECH: TO BE CONFIRMED								
09:00 to 10:30	NRW Assessment and Strategy - Part A				Technology Application in Water Loss Reduction		Digital Transformation in Water Networks and Enhancing Water Loss Monitoring		
	Chair:				Chair:		Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Lameck Dube	ASSESSING THE IMPACT OF THE PROJECT FOR STRENGTHENING THE CAPACITY OF NON-REVENUE WATER REDUCTION FOR LILONGWE WATER BOARD (LISCAP)	Malawi	Kelvin Siew	LEAK REPORTING FEATURE IN AIR SELANGOR CONSUMER APP	Malaysia	Anna Bojko	DIGITAL NRW TOOLS: HYPE VS. HELP. WHAT WORKS, WHAT DOESN'T, AND WHAT REALLY MATTERS	French Guiana
	Rodrigo Albuquerque Gonçalves	REDUÇÃO DE PERDAS POR IMPLANTAÇÃO DE DMCS EM FORTALEZA-CE, COM REMUNERAÇÃO BASEADA EM PERFORMANCE	Brazil	Luiz Roberto Gravina Pladevall	OPEN-SOURCE APPROACH FOR WATER LOSS REDUCTION AND OPERATIONAL MANAGEMENT OF WATER SUPPLY SYSTEMS THROUGH GIS INTEGRATED WITH HYDRAULIC MODELING	Brazil	Baker Bozeyeh	HUMAN-CENTERED NRW MANAGEMENT: AGENTIC AI TO FACILITATE DIGITALIZATION AND SMART(ER) WATER LOSS MANAGEMENT - CASE STUDIES FROM PALESTINE & BRAZIL	Jordan
	Klavs Høgh	APPARENT LOSSES COMPONENT ANALYSIS – A CASE STUDY FROM AL AIN	Denmark	Flávio Reis Oliveira	PROJETO RISCO – ALIANDO SEGURANÇA AO CONTROLO E REDUÇÃO DOS CONSUMOS ILÍCITOS	Portugal	Fabio Garzon-Contreras	A COMPREHENSIVE GUIDE TO DMA DATA MANAGEMENT FOR ENHANCED WATER LOSS REDUCTION STRATEGIES	Colombia
	Clarissa Campos de Sá	CONTRATO DE PERFORMANCE PARA REDUÇÃO DE PERDAS: INOVAÇÃO, EFICIÊNCIA E SEGURANÇA HÍDRICA PARA O FUTURO DE JOINVILLE	Brazil	Firas Rababaa	TRANSFORMING WATER UTILITIES: HOW AI-POWERED RISK MODELING OPTIMIZES PIPE REPLACEMENT TO REDUCES WATER LOSSES	USA	Jean-Francois Fidelin	A CASE STUDY: LEVERAGING SCADA TO ADDRESS POTABLE WATER SCARCITY IN KATHMANDU VALLEY, NEPAL, 2020-2025	France
10:30 to 11:00	Coffee Break								
11:00 to 12:30	NRW Assessment and Strategy - Part B			Organizational and Institutional Issues			Smart Monitoring and Predictive Analytics in Water Loss Management		
	Chair:			Chair:			Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Diego Cuenca	CONTRATO DE PERFORMANCE E GLOBAL UMA ALTERNATIVA À GESTÃO DE PERDAS NO MUNICÍPIO DE GUARULHOS EM SÃO PAULO	Brazil	Juan Jose Escobar Morales	ORGANIZATIONAL CAPACITY THE KEY TO EFFICIENT MANAGEMENT OF WATER LOSSES	Colombia	Stuart Mawditt	UNDERSTANDING AND PREDICTING CUSTOMER CONSUMPTION TO HELP REDUCE DMA LEAKAGE	UK
	Annalisa Gaccione	EU RECOVERY PLAN FUND FOR WATER LOSS REDUCTION IN ITALY: LESSONS LEARNT AND INPUTS FOR INTERNATIONAL UTILITIES	Italy	Debora Soares	BODAS DE PRATA: 25 ANOS DE CERTIFICAÇÃO EM DETECÇÃO DE VAZAMENTOS NÃO VISÍVEIS	Brazil	Tobias Ribeiro Barreto	ALGORITHM FOR IDENTIFYING WATER LOSSES DUE TO FRAUD IN DISTRIBUTION NETWORKS: A CONSUMPTION PATTERN ANALYSIS APPROACH	Brazil
	Claudel Florian	OPERATIONAL EXCELLENCE IN WATER LOSS REDUCTION: INSIGHTS FROM RURAL AND URBAN CONTEXTS IN FRANCE	France	Andrew Tal Blackwell	FROM POLICY TO PERFORMANCE: DRIVING EFFECTIVE WATER LOSS CONTROL IN THE US THROUGH POLICY, REGULATIONS AND WATER AUDIT VALIDATION	USA	Edmund Riehle	RETROFITTING WATER MAINS FOR REAL-TIME MONITORING USING DISTRIBUTED ACOUSTIC SENSING (DAS)	Germany
	Edison Asas Cajayon Jr.	THE IMPACT OF STRATEGIC PRESSURE AMPLIFICATION ON LEAK FINDINGS AND DETECTION EFFICIENCY IN DISTRICT METERED AREAS (DMA)	Philippines	Marcelo Dalcul Depexe	A IMPORTÂNCIA DO FATOR PESSOAS EM RELAÇÃO A TECNOLOGIAS E PROCESSOS, NA IMPLANTAÇÃO DE UM PROGRAMA DE REDUÇÃO DE PERDAS	Brazil	Ana Luís Sousa	SMART LEAK MANAGEMENT IN WATER SUPPLY SYSTEMS: A PRE-DETECTION LEAK ALARM AND LOCALIZATION MODEL USING MACHINE LEARNING	Portugal
12:30 to 13:30	Lunch								

STREAM 1				STREAM 2			STREAM 3		
13:30 to 15:00	NRW Assessment and Strategy - Part C			Capacity building and HR issues			Smart Water Networks and Relevant IT Solutions		
	Chair:			Chair:			Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Gabriele Confortola	BENEFITS OF THE APPLICATION OF WATER BALANCE VALIDATION TO AN ITALIAN UTILITY	Italy	Cícero Ferreira Batista	JOGOS DO SANEAMENTO: INOVANDO E CAPACITANDO PROFISSIONAIS DA ÁREA DE PESQUISA DE VAZAMENTOS NÃO VISÍVEIS	Brazil	Thomas Crowder	MAKING THE WATER BALANCE SMARTER	UK
	Abdoulie Bah	A NATIONAL VISION FOR NRW REDUCTION IN THE GAMBIA: FROM AWARENESS TO ACTION	The Gambia	Marion Liemberger	LEAKS DON'T JUST WASTE WATER—THEY WASTE TRUST!	Austria	Zheng Wu	AI-POWERED DIGITAL TWIN SOLUTION FOR FACILITATING LEAKAGE DETECTION AND LOCALIZATION IN WATER DISTRIBUTION SYSTEMS	USA
15:00	Alexandre Gomes de Souza	RESULTADO DA IMPLEMENTAÇÃO DO PROGRAMA DE REDUÇÃO DE PERDAS EM GOIÂNIA CAPITAL DO ESTADO DE GOIÁS NO BRASIL	Brazil	Henrique Almeida Ferreira	DESAFIOS NA IMPLEMENTAÇÃO DE UM PROGRAMA DE CAPACITAÇÃO NO COMBATE ÀS PERDAS EM UMA EMPRESA DE SANEAMENTO	Brazil	Jessica Aline Menezes Lima	GERENCIAMENTO DE PRESSÃO COMO ESTRATÉGIA PARA REDUZIR PERDAS E ESTABILIZAR O ABASTECIMENTO DE ÁGUA NA REGIÃO METROPOLITANA DO RIO DE JANEIRO	Brazil
	Ian Rodgers	STARTING THE DIGITAL JOURNEY: KEEP IT SIMPLE	UK	Marco Fantozzi	QUALIFICATION & CERTIFICATION PROCESS OF PERSONNEL ENGAGED IN LEAK DETECTION ACTIVITIES	Italy	Irene Eppinger Ruiz de Zarate	WATER LOSS MANAGEMENT RESULTS AT ACCIONA	Spain
15:00 to 15:30	Coffee Brake								
15:30 to 16:30	Tools and Technologies in Water Loss Reduction			Organizational and Institutional Issues			Experiences in Water Loss Management		
	Chair:			Chair:			Chair:		
	Author	Title	Country	Author	Title	Country	Author	Title	Country
	Nuno Marques	ENHANCE WATER UTILITY PERFORMANCE WITH DIGITAL TOOLS: BUILD A ROADMAP TO ENERGY SOBRIETY AND EFFICIENCY	France	Marianne Kjellén	REPURPOSING TARIFFS, SUBSIDIES AND FINANCING: INCENTIVICING UNIVERSAL ACCESS WITH REDUCED WATER AND ENERGY WASTAGE	Sweden	Jesus Ruben Sanchez Navarro	SECTORIZATION AND PRESSURE MANAGEMENT IN WATER NETWORKS WITH SEASONAL HYBRID SUPPLY: CONTINUOUS IN WINTER AND INTERMITTENT IN SUMMER	Mexico
	Holly Cook	HOW THE OTHER HALF ADOPTS: LESSONS FROM THE GLOBAL ADOPTION OF NRW TECHNOLOGY	UK	Natalie Lamb	MIND THE GAP: LESSONS LEARNED FROM A LEAKAGE GLOBAL CALL FOR INNOVATION IN COLLABORATION WITH UK AND IRISH WATER COMPANIES	UK	Gildas Clochard-Bossuet	QUALITY AND DURABILITY OF DRINKING WATER NETWORK PLASTIC PIPES	Chile
16:30	Robbert Lodewijks	SCALABLE LEAK DETECTION AND LOCALISATION: AI-HYDRAULIC INTEGRATION USING EXISTING INFRASTRUCTURE – A CASE STUDY WITH AGUAS DO RIO (AEGEA), BRAZIL	Netherlands	Jorge Andres Huacho Oleas	COMO O FORTALECIMENTO DA CAPACIDADE PARA A GESTÃO DA ÁGUA NÃO CONTABILIZADA ATRAVÉS DA COOPERAÇÃO INTERNACIONAL E DA IMPLEMENTAÇÃO DE PROJETOS PILOTOS	Ecuador	Reid Butler	UNDERPERFORMING WATER LOSS REDUCTION INITIATIVES	Australia
	Tory Wagoner	ASHEVILLE'S 15-YEAR WATER LOSS MARATHON: FROM AUDITS TO AMI AND BEYOND	USA	Thiago Theodoro da Silva	MATURITY MODEL FOR WATER UTILITIES: BRIDGING PERFORMANCE CONTRACTS WITH WATER 4.0 AND AI	Brazil	Eric Nicholas Toffin	STILL LEAKING AFTER ALL THESE YEARS: INSIGHTS FROM TWO DECADES OF WATERMAIN INSPECTIONS	Canada
16:30 to 17:30	CLOSING CEREMONY - Details to be available soon								
19:30 to 23:30	GALA DINNER Details to be available soon								