

W-SMART Association 2021 Annual Activities Report

2021 General Assembly Meeting, March 15, 2022 @ 9:30 – 12:30 pm (EST); 14:30 pm – 17:30pm (CET)

W-SMART 2021 SCOPE OF ACTIVITIES

I. BACKGROUND – At the beginning of the 2022 New Year we would like to wish all our members and strategic partners our best wishes for a year of worldwide peace, health, societal recovery and sustainable development and deeply thank you for your contribution, leadership and support to the program development of the W-SMART Association. The following 2021 Activity Report presents a summary of the activities conducted by the W-SMART Association during the last year, following the Program Review & Strategic Planning Meeting, held virtually on December 2, 2020.

At this occasion, on behalf of W-SMART members, we would like to welcome and thank Mr. Edward W. PODCZERWINSKI, Director of Monitoring & Research Department of the Metropolitan Water Reclamation District of Greater Chicago, for kindly accepting our invitation for the MWRD Agency to join the W-SMART Association.

As this year marks 20 years since the inception of the Association, we would like to thank our strategic partners, and, more particularly, Diane VanDe HEI, Executive Director of AMWA, and John SULLIVAN, former President of NACWA and Chief Engineer of BWSC, who have supported our program development since its inception at the aftermath of 9/11. We would like also to acknowledge and thank Prof. Fadi G. COMAIR, Vice-Chair of UNESCO-IHP, and Dr. Alexandros MAKARIGAKIS, Program Specialist of UNESCO, for their leadership in the development of collaborative initiatives with UNESCO, with the participation of W-SMART as an Official UNESCO Partner, which offer new perspectives for the future program development of the Association, and is briefly summarized in this activity report.

We would like to thank our officers including Denis PENOUEL, President, Former Deputy CEO of SIAAP; Alain PALMANS, Vice-President, CEO of the CILE; John SULLIVAN, Vice-President for North America, Chief Engineer of BWSC; Gerard LUYET, Treasurer, Director of Drinking Water, SIG, Geneva; and Conceição ALMEIDA, Secretary General, Director of Corporate's Assets Management, EPAL. On behalf of W-SMART members, we would like to share our congratulations to Denis PENOUEL, for his appointment to the position of Director General of SICTOM, Ile de France, and thank our Vice-President, Mr. Alain PALMANS for kindly accepting to assume the responsibilities of Acting President until the next General Assembly, which shall include elections of the Board of Directors. Finally, we would like to thank Alexandra CRISTÓVÃO and Conceição ALMEIDA for confirming that EPAL has offered to host the W-SMART 2022 Workshop, hopefully presentially in the spring of 2022, pending on pandemic conditions and sanitary barriers.

This Annual Activities Report includes:

1. Executive Summary of the Program Review and Strategic Planning Meeting, Dec. 2, 2020;
2. Summary of Activities conducted in 2021;
3. 2021 Budgetary Status, including Certified Financial Report;
4. 2022 Program Objectives;

II. EXECUTIVE SUMMARY OF THE PROGRAM REVIEW AND STRATEGIC PLANNING MEETING, DEC. 2, 2020:

The purpose of the meeting was to: i) review the current program objectives and explore the best way forward of effectively promoting experience sharing and mutual lessons learning from the current pandemic crisis and climate driven extreme events, while ii) creatively leveraging the experience of the members through collaborative initiatives among the members and with strategic partners to support their capacity building for facing climate change adaptation challenges, and iii) adapting the current program to emerging utilities' challenges, pandemic context and the digital era. Its agenda focused on:



- i. **Improving crisis management capabilities** facing extreme events, through Collaborative Training Program & Exercises, with inter-utilities collaboration of experts for i) review and upgrading of current procedures as well as for ii) planning, execution, and lessons learning of corporate wide exercises;
- ii. **Engaging partnerships for consumers' education and awareness raising** to promote societal support to climate adaptation strategies and resilience building measures of local governments and operators;
- iii. **Promoting Research & Development programs** to explore and assess innovative solutions and AI driven smart control systems for upgrading service reliability, efficiency and resilience;
- iv. **Providing an experience sharing platform** for interactive assessment of lessons learned from extreme events and impacts evaluation of current adaptation strategies and resilience measures among the member-utilities as well as with strategic partners through digital workshops;
- v. **Undertaking collaborative initiatives with UNESCO**, as an Official UNESCO Partner, to establish a strategic development framework of global solidarity for sustainable water security, including:
 1. *Megacities Alliance of Water & Climate – Euro-North American Regional Platform*;
 2. *Organizing round-table experience sharing sessions at the EAUMEGA 2022 Conference*;
 3. *Establishing with UNESCO-IHP the “ECOMED” ACADEMY Network (IHP resolution, 2021) of Environmental Coastal coOperation for Metropolitan Eco-sustainable Development*;

These initiatives, offering new perspectives for the future program development of the Association, will be briefly summarized in this report.

III. SUMMARY OF 2021 SCOPE OF ACTIVITIES

Following the Program Review and Strategic Planning Meeting, Dec. 2, 2020, the 2021 scope of activities included:

1. CRISIS MANAGEMENT TRAINING & EXERCISES PROGRAM

The 2021 program included:

- i. 2nd year program of the 3-Year CMTE program conducted for the CILE;
- ii. Lessons learning mission, conducted by the W-SMART experts, following the flood events experienced by the CILE in July, 2021.

We would like to thank Alain PALMANS, CEO of the CILE, for providing W-SMART experts the opportunity of working with CILE experts on upgrading the capabilities of planning and executing crisis management exercises for corporate preparedness and cyber security event management. We would also like to thank William De Angelis, and the CILE Team, for the effective collaboration with the W-SMART experts in the program development, as well as the W-SMART Experts for their commitment, high-quality service and support to our core goals of inter-utility collaboration of experts for upgrading crisis management capacity of each member facing the ever-growing challenges of pandemic, anthropogenic and climate driven disasters.

i) **2nd year CMTE program** - The CILE program involves a 3-year training program, with crisis management exercises of increasing severity levels. A yearly progress assessment is required to confirm any subsequent year program implementation as the program is updated based upon the progress accomplished. At this stage the 3-year training program objectives can be broadly summarized as:

- o **Creating a corporate-wide awareness**, including the upper management, with regard to the critical needs of upgrading current crisis management procedures and capabilities in order to comply with new EU-NIS directives;
- o **Conducting scenario-based Exercises at different severity levels** for testing of C.I.L.E. cyber-security and other incident response capability, emergency response management, corporate awareness and preparedness,
- o **Improving public/customers' communication**, inter-agency coordination, and other critical issues at different event severity levels with lessons learning and recommendations for improvement of procedures and capabilities;

- o **Training of Trainers program** in crisis management that will ensure compliance with EU-NIS Directives and ISO Requirements and assist in building corporate preparedness, customers' communication, management capabilities and corporate confidence at target severity levels;
- o **Providing Expert-Assistance to the CILE** for the planning, execution, debriefing and post-exercise lessons learning for an annual corporate-wide exercise, focused on Cyber Security;

The W-SMART Team of Experts includes:

- o Bruno NGUYEN, Honorary President of W-SMART, Former Security Officer, EauDeParis;
- o Eric SHAW, Crisis Management Expert, recommended by MEKOROT;
- o Udi ROTH, Cyber Security Officer, MEKOROT;
- o Eric ADAMSE, Chair of CM Taskforce, Security Director, VITENS;
- o Avrum BEN YOSEF, Deputy CEO of Systems Eng., MEKOROT;

The first-year program focused on the planning of a crisis management exercise, which was executed on November 4, 2019, as part of the W-SMART 2019 Annual Workshop, to assess corporate preparedness, crisis management capabilities and capacity to comply with emerging regulatory requirements with regards to cyber security event management. W-SMART members participated as Observers and shared their comments in a post-exercise summary session of lessons learned in the workshop. **At the conclusion of the 1st year program with the leadership of its CEO, Alain PALMANS, the CILE was ISO Qualified.**

The 2nd year Program was established following a two days "cold debriefing" session of lesson learnt from the exercise held on November 4, 2019, which was held in February 27 & 28, 2020, at the CILE. This debriefing session enabled to establish the 2nd year training program, which was initiated in June, 2020. The main objectives of the 2nd year program are:

- i. Review and improvement of current crisis management guidelines and procedures;
- ii. Training program planning with Workshops and small Table-Top exercises tailored to demonstrate proficiency and compliance capacity with ISO standards;
- iii. Simultaneous improvement of capabilities following the "Cold Debriefing" recommendations;
- iv. Planning and conducting the 2nd Year Crisis Management Exercise - to test the revised procedures and assess the crisis management capacity improvement.

The 2nd year program was revised first to account for the sanitary constraints imposed over Europe, and following the flood events experienced by the CILE in July, 2021, to account for the conclusions of the lessons learning mission conducted by the W-SMART experts.

- ii) **Lessons learning mission, following flood events experienced by CILE, July 2021** - During the second week of July 2021, heavy rainfall flooded the south-eastern regions of Belgium. This rain event caused flooding along the Vesdre and Ourthe rivers, which flow into the Meuse. The flooding occurred between July 14 and 16, 2021, but the damage caused, and the necessary remediation extended the duration of the flooding. CILE's core infrastructure was restored to service within days, but other services required longer periods to return to normal operation. Real crisis events are normally rare and, although they can sometimes be catastrophic, they offer a unique opportunity to understand the vulnerabilities of the company's management structure and may allow for future improvement. Recognizing this, CILE management decided to conduct an external evaluation of the first 72 hours of the crisis to provide insight into the actual operational decisions made and their implementation at the site.

The WSMART Team of Experts come from various water operators. The team includes experts from the Netherlands, France and Israel. This multinational team of experts, each from a different environment, allowed for a diversified view of the crisis. The first survey missions were conducted between October 3 and 9, 2021. The mission included: i) review of available data and documents allowing for a systematic interview of the various CILE internal units involved; ii) a one-day site tour of the affected areas on Sunday,



Water Security Management
Assessment, Research & Technology

October 3, 2021; iii) face to face interviews to understand what happened; iv) recreating a credible timeline of events from the data collected, which can be considered a real "stress test"; v) understanding the managerial dilemmas encountered in real time; vi) severity assessment at different times; vii) review workshop with CILE staff; viii) validation of the data, which was crucial to refine the timeline of events and assess the crisis management during the first few days; leading to ix) vulnerabilities assessment and recommendations to the crisis management procedures, which were submitted to the Board of Directors.



The recommendations were integrated in the revised crisis management procedures and will be tested in the annual exercise tentatively planned for May, 2022.

2. Research & Development

The Current R&D Feasibility Assessment Study is part of the SIAAP R&D MOCOPPE program, which is focused on the application of *AI Algorithms for Process Control of Waste Water Treatment Plants*.

This R&D program aims to demonstrate the feasibility of adapting selected Artificial Intelligence (AI) based algorithms applications for upgrading and automating the treatment process control and improving its efficiency, operational reliability and sustainability in meeting the technical and functional process performance requirements. In 2020, W-SMART submitted to SIAAP the 1st year Feasibility Assessment report, which was prepared by Mr. Marcello Serrao, Research Associate, and jointly submitted for publication (ref. attached). On the basis of the outcome of this feasibility study the SIAAP accepted to sponsor the PhD research as part of its MOCOPPE program for the next 3 years and share the results with W-SMART members.

This SIAAP – W-SMART collaborative R&D program provides the W-SMART Association with a framework of offering interested member-utility managers the feasibility of leveraging the program for upgrading their process control systems by adapting and testing AI based algorithms, tailored to their specific process control and operational needs, through in-site "beta" testing at their utility sites under specific operational conditions.

3. Collaborative Initiatives with UNESCO as an Associated UNESCO Partner

In December 2020, the W-SMART Association was recognized by the Director General of UNESCO as Official UNESCO Partner (ref. letter). Several joint initiatives have been undertaken, including:

- i. **UNESCO-IHP “ECOMED” Academy Network** of “*Environmental Coastal coOperation for Metropolitan Eco-sustainable Development*” – this initiative is focused on engaging a regional development of coastal pollution monitoring, knowledge-bases and data sharing systems to support capacity building of local governments and operators in the Mediterranean Region for ecosystem pollution assessment, protection and mitigation planning, and effluent disposal quality control towards a trans-boundary IWRM, facing the escalating impacts of climate change in the region.

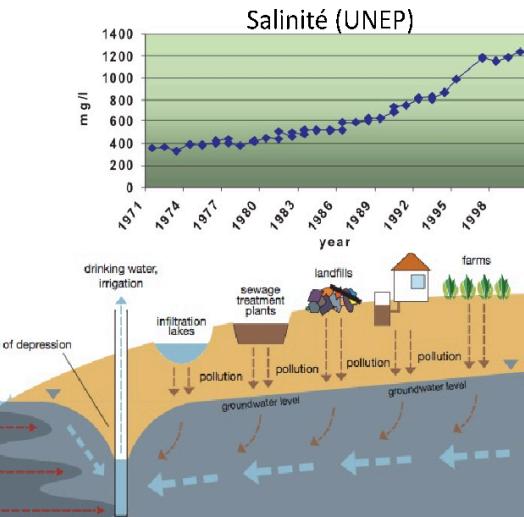
This global solidarity initiative was engaged in 2015, with the leadership of Prof. Fadi G. COMAIR, currently Vice President of UNESCO-IHP, and Prof. Ilan Juran, and the support of east Mediterranean member states, including Lebanon, Israel, Palestine, Jordan and Egypt. The concept note attached was prepared through a series of workshops, which were co-sponsored by UNESCO and SIAAP with the participation of MEKOROT. In 2021, this initiative was recognized by the UNESCO-IHP General Assembly, through **the UNESCO-IHP Resolution XTR-IV-DR3** (ref. attachment), which acknowledges the need for an international platform to “facilitate knowledge exchange by sharing best practices and inspire research projects on innovative solutions in the countries concerned, as well as education, media supported societal awareness and professional training programs of future managers and engineers of urban services facing the regional climatic sustainable development challenges”.

The “ECOMED” Academy’s goals are to:

- i) Support the development of capacity upgrading, research and education programs of the metropolitan stakeholders (i.e. local governments, water operators, academia, economic development corporations, and other stakeholders) to face regional challenges;
- ii) Promote coastal ecosystem monitoring of the fast-growing trans-boundary pollution, as well as the infiltration of raw wastewater to the coastal aquifer(s) and the severe impacts on public health risks, marine bio-degradation, environmental hazards, food security and economic decay;
- iii) Engage experience and knowledge sharing to support government-industry-academia collaborative research, education, and professional development programs for accelerating the development and deployment of innovative technology solutions and locally adapted best practices in the countries concerned facing the ever-growing climate impacts.

Local Governance Capacity Building

- ✓ **Undertaking coastal ecosystem preservation measures to:**
 - Promote integration of renewable resources and water reclamation management for agriculture
 - Ensure marine pre-disposal wastewater treatment and effluent quality control,
 - Protect trans-boundary aquifers from sea water infiltration caused by water over-dwelling
 - Provide sustainable sanitation for alleviating growing public health risks and environmental hazards
- ✓ **Promoting partnerships for planning & financing coastal depollution projects, wastewater treatment infrastructure, sustainable sanitation and ecosystem protective measures,**
- ✓ **Setting up a Regional Network of Eco-policy Coastal Monitoring Centers for ecosystem preservation measures and their environmental and societal impacts assessment**
- ✓ **Establishing knowledge/data bases to support prof. education at all levels, eco-risk assessment, research, public awareness and innovative solutions to ECOMED**



The W-SMART Association, recognized as official UNESCO partner NGO, has been designated in the UNESCO-IHP resolution by the IHP General Assembly as the Secretariat General of the ECOMED Academy Network of metropolitan Governments. With the collaboration of UNESCO-IHP and the Cyprus Institute, which has been delegated the responsibility for the Climate Change Initiative (CCI) in the Eastern Mediterranean and Middle East (EMME) Region, the purpose is to jointly create, support and develop the strategic and operational programs of the ECOMED Academy and its Mediterranean Network of Research & Innovation Centers for capacity building of local governments and water operators in the member states involved. It is envisioned that the ECOMED Academy will be hosted by the Cyprus Institute and jointly co-managed by the partners as its founding members.

ii. **Organization of FAUMEGA 2022 International Conference on “Water, Megacity & Global Change”.** which was hosted by UNESCO, January 11 to 14, 2022. The Conference, held principally on-line, brought together about 2000 attendees including scientists, metropolitan service managers, elected officials, policy makers and representatives of the civil society to discuss water management challenges of megacities facing the growing climate impacts. The conference was jointly organized by UNESCO, ARCEAU-IdF and SIAAP with W-SMART represented by its Honorary President, Bruno Nguyen.

Two roundtable sessions were organized, focusing respectively on:

■ **Metropolitan Eco-development & sustainability Research Observatory for Climate Adaptation & Resilient Ecosystems (“METRO-CARE”)** – co-moderated by Bruno Nguyen and Prof. Ilan Juran. This session brought together panel experts and researchers from Teheran, Istanbul, Los Angeles, New York, Paris and the US Water Research Foundation to share experience and assessment of current adaptation / mitigation strategies undertaken in different contexts, as well as priority research needs and the challenge of innovation in climate impacts response.



Euro-North American Regional (ENAR) Session

New York - Paris - Los Angeles - London - Chicago - Moscow - Istanbul

Metropolitan “CITI-RISE” Challenges

focusing on:

Climate Impacts adaptATion & Innovation



Euro-North American Regional (ENAR) Session

New York - Paris - Los Angeles - London - Chicago - Moscow - Istanbul

Session Agenda & Panel of Distinguished Experts

UNESCO-IHP Perspectives

Prof. Fadi G. COMAIR, Vice-President of UNESCO-IHP

EU Climate Urban Adaptation Strategy

H.E. Mr. Brice LALONDE, Former Minister of Environment, France

NYC Lessons learned & Resilience Building Challenges

Eric MACFARLANE, Deputy Commissioner, Infrastructure, NYCDDC

London City Challenges & Adaptation Strategy

Daniel BICKNELL, Head, Climate Adaptation Unit, London City Government

Operator's Perspectives & Role of Innovation for "Soft City"



- Metropolitan Challenges of **Climate Impacts adaption & Innovation for Resilient Infrastructure & Sustainable Eco-society ("CITI-RISE")** – co-moderated by Prof. Ilan Juran and Georges Leclere, VP, US National Academy of TV, Art & Science. This session brought together government officials, media, operators, and the research community to focus primarily on: i) the critical needs for consumers education and public awareness raising, at all levels, for effectively promoting a societal climate adaptation culture facing different contexts of hydrological, climatological, socio-political and economic development conditions; ii) experience sharing, research & innovation priorities for capacity building of local governments and operators; and iii) professional development needs that effectively integrate climate adaptation capacity and metropolitan resilience to meet the escalating climate impacts.

The two roundtable sessions provided a conceptual framework for an agenda for a follow up conference on the issues identified, to be jointly programmed with UNESCO for the autumn of 2022. We look forward to discussing with you this agenda, which is consistent with the issues identified in our Program Review and Strategic Planning Meeting, Dec. 2, 2020.

MAWAC-ENA Round Table 2 Session
New York - Paris - Los Angeles - London - Chicago - Moscow - Istanbul

"METRO-CARE" Challenges
focusing on:
Metropolitan Eco-development & sustainability Research Observatory for Climate Adaptation & Resilient Ecosystems

Co-Moderators:
Prof. Ilan JURAN, NYU & Bruno NGUYEN,
Director, W-SMART Assoc. Honorary President, W-SMART Assoc.

MAWAC-ENA RoundTable 2
Session Objectives & Proposed Discussion Issues

Purpose: Bringing together experts, including government officials, water utility executives, and leading research academics from ENA Megacities for a brainstorming assessment of:

- Climate adaptation experience with debriefings of lessons learned from recent events;
- Current metropolitan challenges of capacity building strategies for facing the CC driven extreme events (e.g., tsunamis, sea-level rise, super storms, droughts, etc.);
- Operational service sustainability under extreme conditions & accelerated eco-recovery;
- Experts' perspectives with regard to resilience financing, operational response measures, best practices and innovative solutions for meeting COPs global recommendations;
- Climate Crisis Impacts on Professional Development, Education and R&D Priority Needs;
- Operators' Adaptation Challenges, R&D Priorities & Impacts of Innovative Technologies
- Socio-cultural awareness raising & consumers adaptation to CC impacts on megacities;
- Turning CC Challenges into Innovation & Economic Development Drivers (ECO2Cities-WB)
- Other issues as identified by the Experts

- iii. **Megacities Alliance for Water & Climate Euro-North American Region** - The Megacities Alliance for Water and Climate was established at the EAUMEGA 2015 conference on Water, Megacities and Global Change International Conference held in December 2015, in Paris, which focused on climate change impacts on water resources and risks in megacities. Its purpose is to provide a global platform for experience sharing among the megacities on the challenges, implementation, performance measures and outcome assessment of their climate adaptation strategies.

The EAUMEGA 2022 Conference, which was organized by UNESCO, ARCEAU-IdF and their partners, including the Metropolis of Greater Paris (MGP) and SIAAP, more than 7 years after the Paris Agreement, provided a global forum for assessment of the current state-of-practice in metropolitan water management, sharing lessons learned from recent climate driven extreme events, exploring

innovative ideas, reviewing current research programs, promoting global public awareness, and evaluating emerging needs and current outcome of climate adaptation strategies. Within this context the first meeting of government officials of the MAWAC Megacities, was held on December 14, for sharing their local experience and perspectives of the way forward.

Recognizing the significant differences in local contexts of climatological, hydrological, socio-cultural, economic development, and other critical contextual conditions among the megacities, the development of the MAWAC platform emphasizes the role of regional alliances driven by common goals and climate impact challenges. For this purpose, UNESCO invited NYU to participate as a co-leading partner in exploring the best way forward in establishing with UNESCO and its partners, the MAWAC-Euro-North American Regional (ENAR) Alliance, which currently includes: New York, Chicago, Los Angeles, Paris, London, Istanbul and Moscow.

Over the past few months, the ARCEAU-IdF Association, NYU and the W-SMART Association, have jointly organized several online planning meetings in order to jointly explore the feasibility of such a regional experience /data sharing platform, identify mutual areas of interest for ENAR experience sharing, define its initial objectives, scope, priority areas, as well as expected outcome for the megacities and their operators and establish near-term development plans. In particular, 5 ENAR megacities participated in the MAWAC meeting, Dec. 14, and accepted to participate in the development of the ENAR Platform.

We would like to recognize and deeply thank Angela LICATA, Deputy Commissioner of NYCDEP, Dylan Meagher, her Chief of Staff, and Alan COHN, Director of IWM at the NYCDEP, for their leadership in the development of this initiative, as well as Dr. Edward W. PODCZERWINSKI, MWRD, for his participation and contribution.

We strongly believe that the collaboration with UNESCO, yet to be significantly further developed, offers the W-SMART Association a global experience sharing platform with local governments and operators and a collaborative development framework for relevant strategic initiatives, which may enrich its future program. We look forward to further discussing with you these new challenging perspectives.

4. Planning The 2022 Program

The proposed workplan for 2022 expands upon the current core activities, including:

- i. **Annual experience sharing workshop**, which is expected to be kindly hosted by EPAL, in the late Spring of 2022, depending upon the pandemic conditions;
- ii. **Crisis management training and exercises (CMTE) program**, and more specifically the organization with the CILE leadership of a corporate-wide exercise with members serving as observers, followed up by a “hot debriefing” workshop;
- iii. **R&D projects**, focusing on site demonstration of innovative solutions in “beta” sites of interested member utilities in collaboration with strategic partners;
- iv. **Collaborative initiatives with UNESCO-IHP**, including co-organization of conferences, development of the “ECOMED” Academy Network program, and the MAWAC-ENAR Alliance agenda;
- v. **Other relevant initiatives** to be proposed by the members

All the planned activities are geared to promoting and leveraging experience, mutual lessons learning from extreme events, and collaborative initiatives to efficiently support capacity building of the members facing emerging challenges, while jointly contributing to support global climate adaptation and resilience building for sustainable water security.

To further discuss the 2022 plan of activities and more broadly the W-SMART Strategic Program Development Framework, facing the current uncertainties of the pandemic crisis, the public health safety restrictions, and the opportunities and limitations of the extensive use of the digital communication platforms, we would like to

propose for your consideration scheduling an online virtual W-SMART- Brainstorming Workshop and a General Assembly meeting Mid-March, possibly 15 or 16 March, 15:00 – 18:00 Paris Time.

5. Financial Status

The 2021 financial balance of the Association is presented in table 1. The 2021 financial Report, as prepared by the CPA is attached for your review. A detailed plan of activities for 2022 along with the proposed budget for the 2022 budgetary year will be submitted for review before the General Assembly meeting.

Over the past 20 years of its existence, development of the W-SMART program has always been driven by the leadership of the members and their contribution to support an effective experience sharing, with different forums, relevant to meeting their emerging challenges with the essential participation of our strategic partners. With our thank for your support, we look forward to discussing with you the future development of current and new initiatives in the upcoming W-SMART 2022 General Assembly and virtual Workshop, which is tentatively scheduled for March 15, 9:00 am – 12:00pm EST (15:00 – 18:00 CET - Paris Time). Please advise on your availability at your earliest convenience.

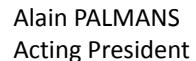
With our deep thanks for your support and best wishes for the New Year,



Prof. Ilan JURAN
Executive Director



Bruno NGUYEN
Honorary President



Alain PALMANS
Acting President

Table 1 - Financial Report Summary for 2019 - 2021



W-SMART Association		Jan to June 2019	Jul to Dec 2019	Total Budget 2019	Total Budget 2019 Actual	Jan to June 2020	Jul to Dec 2020	Total Budget 2020	Total Budget 2020 Actual	Jan to June 2021	Jul to Dec 2021	Total Budget 2021
Revenues												
Membership fees			-	27 000	30 000		27 000	27 000	27 000	24 000	-	24 000
Project revenues												
CILE (Mission in Israel)			15 957	15 957	15 957							
CILE Cold Debriefing						15 900						
CILE Crisis Management Exercice			66 000	66 000	50 600	19 725	19 725	15 900	15 900			
CILE Post Disaster Mission								39 450	39 450			
CILE Post Disaster Lessons Learning Mission												
CILE 2nd year Cont /Mod												
MRCM Congress - Co-Financing Agreement ANABASIS												
SmartWater4Europe project - Phase 2												
SmartWater4Europe project - Final phase												
SIAAP			50 000		50 000	50 000						
MEKOROT / MEI Ashkelon												
UNESCO-ECOMED												
Total revenues		57 000	81 957	165 957	152 819	35 625	46 725	82 350	82 350	24 000	12 375	36 375
Expenses												
Experts-consultants		4 800	16 625	21 425	21 475			6 056	6 056	17 000	15 356	32 356
Experts-consultants - Cold debriefing						12 720		12 720	12 720	-	-	-
Research Associate		15 000	-	15 000	12 971	19 450	19 450	38 900	38 900	8 492	-	8 492
Travel and meals		5 000	5 000	10 000	16 872	6 000	6 000	12 000	12 000	68	1 418	1 486
Telephone and mail		3 000	3 000	6 000	7 816	3 000	3 000	6 000	6 000	1 646	2 876	4 523
DG Salaries and payroll Tax		19 450	19 450	38 900	33 137	19 450	19 450	38 900	38 900	18 005	18 145	36 150
DP SW4EU salaries and payroll tax		-	-	-	25 792	-	-	-	-	-	-	13 108
Audit, accounting and domiciliation		3 000	3 000	6 000	6 985	3 000	3 000	6 000	6 000	3 002	2 828	5 830
Office supplies		200	200	400	729	200	200	400	400	172	1	171
Bank fees		200	200	400	285	200	200	400	400	248	185	434
Unencumbered						3 180	-	3 180	-	-	-	-
Depreciation of assets						157	-	-	-	441	-	441
Total Expenses		50 650	47 475	98 125	126 218	67 200	51 300	124 556	124 556	102 366	48 633	41 249
Annual result		- 650	34 482	67 832	26 601	- 31 575	- 4 575	- 42 206	- 42 206	- 20 016	- 24 633	- 28 874
Retaining earnings				64 091	64 091			90 692	90 692			70 676
Profit or -loss				131 923	90 692			48 486	48 486	70 676		4 061
Notes												
*1 - Prepayment exceeding invoicing for 2021												
*2 - including total of 4 days to be invoiced by experts												
*3 - PD for SW4EU (not invoiced)												

Verified and confirmed on 01/02/2022

Thierry COULOUVRAT, CPA
Groupe ATLANTIC PARTNERS

Prof. Ilan JURAN
Executive Director



SMART 2022	Jan to June 2021	Jul to Dec 2021	Total Budget 2021	Jan to June 2022	Jul - Dec 2022	Total Budget 2022
Revenues						
Membership fees	24 000	-	24 000		24 000	24 000
Project revenues						
CILE (Mission in Israel)						
CILE Cold Debriefing						
CILE Crisis Management Exercice		-9850	9 850			
CILE Post Disaster Mission		22 225	22 225			
CILE Post Disaster Lessons Learning Mission				34 746		34 746
CILE 2nd year Cont /Mod				53 600		53 600
MRCM Congress - Co-Financing Agreement ANABASIS						
SmartWater4Europe project - Phase 2						
SmartWater4Europe project - Final phase						
SIAAP						
MEKOROT / MEI Ashkelon						
EPAL						
UNESCO-ECOMED						
Total revenues	24 000	12 375	36 375	88 346	24 000	112 346
Expenses						
Experts-consultants	17 000	15 356	32 356	50 000	21 632	71 632
Experts-consultants - Cold debriefing	-	-	-			
Research Associate	8 492	-	8 492	3 000	3 000	6 000
Travel and meals	68	1 418	1 486	1 500	1 500	3 000
Telephone and mail	1 646	2 876	4 523	1 500	1 500	3 000
DG Salaries and payroll Tax	18 005	18 145	36 150	18 000	18 000	36 000
DP SW4EU salaries and payroll tax	-		13 108			
Audit, accounting and domiciliation	3 002	2 828	5 830	3 000	3 000	6 000
Office supplies	172	1	171	250	250	500
Bank fees	248	185	434	250	250	500
Unencumbered	-	-	-			
Depreciation of assets	-	441	441	450	450	900
Total Expenses	48 633	41 249	102 990	78 950	49 582	128 532
Annual result	- 24 633	- 28 874	- 66 615	9 396	- 25 582	- 16 186
Retaining earnings			70 676			4 061
Profit or -loss			4 061			-12 125

Table 2 – 2022 Annual Budget Planning

Prof. Ilan JURAN
Executive Director



W-SMART Association	Jan to June 2021	Jul to Dec 2021	Total Budget 2021	Jan to June 2022	Jul - Dec 2022	Total Budget 2022
Revenues						
Membership fees	24 000	-	24 000		24 000	24 000
Project revenues						
CILE (Mission in Israel)						
CILE Cold Debriefing						
CILE Crisis Management Exercise						
CILE Post Disaster Mission						
CILE Post Disaster Lessons Learning Mission						
CILE 2nd year Cont /Mod						
MRCM Congress - Co-Financing Agreement ANABASIS						
SmartWater4Europe project - Phase 2						
SmartWater4Europe project - Final phase						
SIAAP						
MEKOROT / MEI Ashkelon						
EPAL						
UNESCO-ECOMED						
Total revenues	24 000	12 375	36 375	88 346	74 000	162 346
				50		
Experts-consultants	17 000	15 356	32 356	50 000	33 632	71 632
ECOMED Workshop					20 000	
Experts-consultants - Cold debriefing	-	-	-			
Research Associate	8 492	-	8 492	3 000	3 000	6 000
Travel and meals	68	1 418	1 486	1 500	1 500	3 000
Telephone and mail	1 646	2 876	4 523	1 500	1 500	3 000
DG Salaries and payroll Tax	18 005	18 145	36 150	18 000	18 000	36 000
DP SW4EU salaries and payroll tax	-		13 108			12 000
Audit, accounting and domiciliation	3 002	2 828	5 830	3 000	3 000	6 000
Office supplies	172	-	1	171	250	250
Bank fees	248	185	434	250	250	500
Unencumbered	-	-	-			
Depreciation of assets	-	441	441	450	450	900
Total Expenses	48 633	41 249	102 990	78 950	93 582	172 532
Annual result	- 24 633	- 28 874	- 66 615	9 396	-19 582	-10 186
Retaining earnings						4 061
Profit or -loss			- 66 615			-6 125
Notes						
*1 - Prepayment exceeding invoicing for 2021						
*2 - including total of 4 days to be invoiced by experts						
*3 - PD for SW4EU (not invoiced)						

Table 3 – 2022 Annual Budget Planning including UNESCO-IHP ECOMED Workshop funded by UNESCO

Prof. Ilan JURAN
Executive Director