



Updated 03/18/2014

Contributions Fact Sheet

U.S. Water Partnership (the Partnership) members are dedicating over six hundred and fifty million dollars of in-kind and cash support to water-related projects around the globe over the next five years. Of our 87 current members, 73 organizations have made specific contributions (detailed below). The remaining contributions are still being determined. Organizations are listed in alphabetical order.

Africare:

- Provides the U.S. Water Partnerships knowledge management portal with access to information and data related to Africare projects. Africare is evaluating a variety of approaches and technologies being field tested through its projects. Africare will share this information with the U.S. Water Partnership and expects this data to contribute significantly to the global knowledge base on how to increase the use of specific WASH technologies and practices and how to sustain those practices over the long term.
- Makes event space available for meetings and/or other events hosted by the Partnership, dependent on availability.
- Utilizes the U.S. Water Partnership platform to leverage proposed WASH Projects and their impact, with a first pilot occurring in Southern Africa.

Alliance for Water Stewardship (AWS):

- Works with other members of the Partnership to understand the relative roles of water stewardship and multi-use services in Africa within the scope of a field testing program on the second draft AWS Standard.
- Works with other members of the U.S. Water Partnership to understand the role of water stewardship in increasing water security in South Asia through the field testing of the AWS standard.
- Contributes to the development of governance for the Partnership, in particular passing on learning gained in the development of multi-stakeholder governance for AWS.

Alliance for Water Efficiency (AWE)

- Provides the Partnership access to AWE's advisory programmatic support, technical training, and assistance with publicity, as appropriate for specific projects.
- Contributes lessons learned, best practices and research findings on water efficiency to the U.S. Water Partnership Web Portal.
- Offers opportunity for AWE to work with disadvantaged and water-short communities through the use of AWE's Water Conservation Tracking Tool, a model designed to help communities identify the most cost-effective water efficiency program options.
- Offers support to assist with policy developments to increase water efficiency, including codes and standards, sustainable development ordinances, and more.

American Academy of Environmental Engineers:

- Brings the Partnership access to its extensive network of specialist environmental engineers and environmental scientists in the United States and abroad who are board certified in one or more areas of expertise through education, experience, written and oral examinations and continuing education.

- Makes engineering and science project resources available to the Partnership from its excellence in environmental engineering and science awards competition, workshops and seminars, peer-reviewed journals of applied research and practice and Selection and Career Guide.

American Water Resources Association (AWRA): (Estimated value of support - \$250,000)

- Offers access to the membership of this premier multidisciplinary water resources professional society, whose 2,000+ members represent a broad spectrum of both experience (government, academia, consultancies, NGOs) and disciplines (engineering, biology, ecology, hydrology, geology, economics, political science, sociology, planning, geography, atmospheric science, etc.).
- Provides Partnership members with access to our network of state and student chapters.
- Develops conferences on a variety of topics that are proposed and organized by water resources practitioners. (Examples: September 2013 “Water and Mega-Cities,” Beijing, co-sponsored with a Chinese professional society; Summer 2013 joint specialty conference on Ecological Flows and Healthy Forests – Healthy Waters. USWP partners will be able to approach AWRA with conference ideas).
- Offers USWP members the opportunity to be active participants in AWRA Annual Conferences proposing special sessions, symposia and making presentations, enabling them to reach a broad group of water resources professionals.
- Offers opportunity to participate in and help AWRA craft the world’s first online community devoted to groundwater and Integrated Water Resources Management (IWRM), designed to link the world’s largest liquid freshwater resource with the popular water resources management paradigm.
- AWRA is a member of the Board of Governors of the World Water Council (WWC) and on the planning committee for the last four World Water Fora in Kyoto, Mexico City, Istanbul and Marseille. AWRA will work with the USWP in the development of the next WWF to be held in Korea in 2015.

ASCE Environmental & Water Resources Institute:

- Offers access to its network of technical expertise to aid the Partnership as it responds to projects requiring the planning, design, construction and operation of environmentally sound and sustainable infrastructure impacting air, land and water resources
- Offers outreach mechanisms for the Partnership to interface with a community of 25,000+ water and environmental professionals through conferences, journals and publications to promote and support the activities of the Partnership access to a community.

Association of the United States Army (AUSA) (Estimated value of support - \$20,000):

- Provides the Partnership with opportunities to engage key U.S. Army leaders and others to help identify opportunities with the U.S. Department of Defense, U.S. Army Headquarters and regional military commands in creating environments that promote water cooperation.
- Through the "Water Security and Conflict Prevention" initiative, AUSA is working with the U.S. Army Reserve (USAR), U.S. Army Corps of Engineers (USACE), and the U.S. Africa Command (AFRICOM) on issues specific to Africa as well as issues specific to Pakistan.

Association of Public Health Laboratories (APHL):

- Provides the Partnership with access to its member public health and environmental laboratories in all 50 states and territories. APHL can leverage its member network of public health and environmental laboratories to provide guidance and information on laboratory needs, such as methodology, validation, uncertainty, training, standardization and interpretation of results.
- APHL will also assist developing countries in establishing and maintaining laboratory systems for public health protection and response. APHL and its members can provide expertise in both

environmental laboratory sciences and global health laboratory practices.

Blue Planet Network:

- Offers the Partnership access to the global BPN network of expert water organizations, technology platform, tools and knowledge management portal of WASH data and insights.
- Enables the Partnership to leverage a proven social enterprise model for rapid and cost-efficient WASH program expansion.

Center for Leadership in Global Sustainability (CLiGS) at Virginia Tech (Estimated value of support - \$30,000)

- Provides the Partnership with access to research, training, and facilitation services through Virginia Tech's Center for Leadership in Global Sustainability. CLiGS will integrate educational, research, and engagement activities to respond readily to new opportunities or requests in regions where urbanization and globalization is placing significant pressures on the sustainability of socio-ecological systems and their ability to provide ecosystem services. CLiGS is also developing a portfolio of global programs that integrate research and education missions in several regions around the world including Brazil, South Africa, India, Indonesia, Turkey, and China.
- In the near-term, CLiGS will contribute communication services and access to staff and graduate students. In the longer-term, we would like to be able to serve as an educational and research service provider for the Partnership and a conduit between the Partnership and our growing global network.

Center for Research in Water Resources (CRWR), University of Texas at Austin (Estimated value of support - \$10,000):

- Provides the Partnership with access to staff and graduate student research.
- Through a partnership with Environmental Systems Research Institute, Inc. (ESRI) the Center for Research in Water Resources developed a consortium for developing and implementing new Geographic Information Systems (GIS) capabilities and will explore opportunities to create opportunities to integrate these efforts with the Partnership's Web Portal.

Center for Strategic and International Studies (CSIS) Project on Global Water Policy:

- Coordinates, convenes and moderates meetings;
- Publishes occasional analytical work;
- Evaluates and assesses the Partnership's progress in meeting its goals; and
- Helps to organize and lead overseas delegations to study and assess U.S. investments in water resource management and WASH projects.

Centers for Disease Control and Prevention:

- Provides the Partnership with expertise for implementation, monitoring and evaluation of:
 - Household water treatment interventions;
 - Water Safety Plans and community environmental health practice; and
 - Hygiene and handwashing interventions
- Provides the Partnership with expertise in responding to complex international emergencies and outbreaks
- Offers the Partnership epidemiologic, laboratory and environmental expertise in water, sanitation and hygiene (WASH) related aspects of:
 - Control or elimination of Neglected Tropical Diseases;
 - Identifying and characterizing WASH-related diseases, such as diarrhea; and
 - Providing education and training for public health staff and community health promotion

- Provides the Partnership members with the latest applied research to most effectively prevent cholera transmission, particularly for water borne diseases and lessen the health impact of recurring epidemics and endemic transmission in Haiti
- Offers Partnership members access to technical assistance to improve WASH delivery in Haiti, including:
 - Increasing WASH access/providing the evidence base to identify effective WASH interventions;
 - Expanding point of use water treatment and hygiene promotion in homes, clinics and schools;
 - Expanding community WASH interventions;
 - Assessing WASH vulnerabilities and recommending strategies to counter them;
 - Strengthening environmental monitoring and information management in Port-au-Prince;
 - Identifying vulnerabilities by assessing and mapping water sources and sanitation coverage;
 - Improving WASH assessments in health care facilities, including cholera treatment facilities;
 - Understanding and overcoming obstacles to improving access to sanitation;
 - Building capacity within partner organizations in Haiti; and
 - Training the WASH workforce and strengthening water quality monitoring outside of Port-au-Prince, especially in rural areas.

CH2M HILL (Estimated value of support - \$200,000):

- Provides the Partnership with access to its expertise in managing large and complex water, infrastructure, and environmental programs for government clients around the world, as well as its global experience in advising clients on developing best practices for utility governance and performance.
- In particular, CH2M Hill is prepared to provide technical assistance and support for the activities associated with the Utility Strengthening Signature Initiative, such as:
 - Water policy and regulatory reform, supporting effective delivery water and wastewater services;
 - Application of sustainability principles in implementing programs and projects;
 - Participation in public-private partnerships to offer technical assistance or program management;
 - Application of program management framework and evaluation tools; and
 - Consulting on governance and best management practices.

The Coca-Cola Company:

(Estimated value of support - \$3.5 million)

- Brings the Partnership a \$3 million portfolio of clean water access programs in five African countries where, according to the *Joint Monitoring Program 2012 Update*, less than half of the population has improved access to clean water. (i.e., Democratic Republic of the Congo, Ethiopia, Madagascar, Mozambique and Somaliland.) The Partnership will leverage additional investment and support for these programs.
- Pledges \$500,000 of operational support to the Partnership to expand sustainable Water, Sanitation and Hygiene (WASH) programs in African countries characterized as high-need for clean water and sanitation.

Colorado State University:

- Provides the Partnership access to its 160 water faculty and research scientists across 22 departments and eight colleges at Colorado State University who apply their disciplines and their interdisciplinary perspectives to water issues and problems.
- Offers the Partnership access to the results of its \$30 million portfolio of water related research

projects.

- Can provide research and implementation expertise to the U.S. Water Partnership as it responds to projects related to: irrigation and agricultural water management; water data and decision support; ecology, climate and hydrology; water policy and socioeconomics; groundwater modeling and management; water quality; energy and water; water technology and business.
- Brings its work on water replenishment and sustainability in partnership with The Coca-Cola Company. Included in this is access to the CSU-Coca-Cola China Scholars program.
- Provides its connections with the U.S. academic community to assist the Partnership in identifying candidates for experts and consultants.
- Offers reviews and help in identifying high quality water-related science, engineering and agriculture programs.
- Provides stakeholders the opportunity to develop research and professional skills through advanced graduate degree programs.
- Offers access to the NSF's IGERT-funded I-WATER (Integrated Water, Atmosphere, Ecosystems, Education and Research Program) PhD. program at CSU.

The Columbia Water Center (CWC):

- Provides the Partnership with access to its knowledge, expertise and research at the intersection of water issues with climate, food, energy, and ecosystems in an urbanizing world. The Center combines multidisciplinary academic research with solutions-based fieldwork to develop and test creative responses to water challenges around the world in the following areas:
 - Groundwater depletion and contamination
 - Floods and droughts
 - Climate risks
 - Water allocation and conflict
 - Ecosystem restoration
- The Columbia Global Flood Initiative is one of the Center's focus research themes. CWC is taking a comprehensive approach to predict flood risks and impacts by integrating short- to long-term climate forecasting, reservoir and operations design and land use considerations. To mitigate the effects of extreme floods, researchers are identifying supply-chain vulnerabilities, examining disaster preparedness and response and creating new insurance and other financial instruments. Truly multidisciplinary, the initiative integrates the expertise of leading environmental and industrial engineers, in partnership with private companies from manufacturing and insurance industries, government agencies, and international organizations. As a member of the Partnership, the CWC will expand its network of collaborators to collectively reduce the impact of floods and better predict and understand flood risk.

Conservation International (CI) (Estimated value of in-kind support - \$35 MM over 5 years)

- Conservation International commits the following contributions to the Partnership (USWP), its members and its partners:
 - Brings the Alliance for Global Adaptation (AGWA), co-chaired by CI and the World Bank and represented on the USWP Steering Committee by the U.S. Army Corps of Engineers. Through AGWA, we are developing an integrated decision-support system (DSS) that involves many existing members and tools from within the USWP as well as other national and global water management thought leaders. The DSS will represent a new standard for best practices in resilient, sustainable water management that takes account of emerging climate shifts at both local resource management and national/sectoral planning scales;

- Access to and participation in the Watershed Health Index (WHI) as a collaboration of partners, such as the Secretariat and Science and Technical Review Panel (STRP) of the Ramsar Convention, the Group on Earth Observations Biodiversity Observation Network (GEO-BON), the Global Water System project, and several NGOs. WHI scores the health of freshwater ecosystems at the scales of individual watersheds, multiple catchments and globally to guide policy makers, educators, water managers and the general public;
- Collaboration with other USWP members through the Human Health Partnership (HHP) program, which is focused on integrating WASH and freshwater conservation projects. Our efforts are aimed at both the local and global levels to promote integrated programming. CI is excited to be a prominent contributor to this effort, but we recognize this type of large-scale change cannot be done alone. Accordingly, we have formed an informal coalition with NGOs from both the development and environmental conservation communities who share our vision;

Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) (Estimated value of support - \$10,000):

- Provides the Partnership with access to various sources of water data to perform research on fundamental challenges in Hydrology and Earth System Science through the Water Data Center. The resources made available will leverage the software development investments made by CUAHSI worth over \$7,000,000 to date.
- CUAHSI also supports sharing and access through a virtual hydrologic measurement facility, hosting hands on training and instrumentation development workshops, and partnering with government agencies to offer instrumentation loan and lab sample services to our member universities.

Desert Research Institute:

- Provides the Partnership with access to its network of faculty and developing world partners to help the Partnership launch its activities and leverage the USWP's efforts in the area of capacity building and applied environmental research in developing countries. Given the wide expertise in natural resources management, DRI can provide advice to the USWP in a wide range of issues. Specifically, DRI can advise on Integrated Water Resources Management, Climate Change, desertification; the use of modern technology in siting and monitoring well; water quality issues; database management and GIS.

Electric Power Research Institute:

- Offers the Partnership organized access to its extensive research results on topics related to the energy/water nexus, such as:
 - Water/Energy sustainability: technical guidance on managing water resource requirements for growing electric generation demands
 - Technologies for reducing water withdrawal and consumption
 - Technical guidance on managing water quality and effluents

Environmental Law Institute:

- Provides the Partnership stakeholders with technical assistance and support for water governance issues.

Environmental Technology Solutions, LLC (ETS Partners):

- Provides the Partnership with access to technical and advisory service to help support efforts to address

water resource needs globally. These services could include advice and council on water quality monitoring, water related impacts to food safety, and open channel slope stability measures.

- ETS Partners is an engineering, research and services company that develops and commercializes innovative technologies to benefit society and the environment. The company combines unique perspectives from the fields of chemical engineering, environmental engineering, military engineering, and environmental sciences with business insight and expertise in order to produce solutions for the world's leading problems.

Export-Import Bank of the United States:

- Offers financing solutions to the Partnership, such as loans, loan guarantees and insurance. These solutions help mitigate risk for U.S. exporters and provide competitive terms to international buyers for the purchase of U.S. made, water related goods and services. Ex-Im offers a variety of financing products that allow them to fit the needs of buyers and exporters for the full spectrum of water-related export scenarios, whether it involve a small sale of specialized equipment to existing users or the design and construction of an integrated municipal water treatment and supply scheme. Further, Ex-Im Bank offers enhanced terms for direct loans and loan guarantees for eligible projects related to the supply of water for human consumption or wastewater treatment facilities.
- Provides enhanced terms for eligible water transactions include:
 - A maximum repayment term of up to 18 years;
 - Flexible repayment terms; and
 - Local cost coverage of up to 30% of the U.S. costs.

Ford Motor Company:

(Estimated value of support - \$100,000)

- Provides \$50,000 toward WASH projects and \$50,000 in-kind to USWP operations.

The Foundation Center – WASHfund.org (Estimated value of support - \$1,000):

- Provides the Partnership with access to advisory support, publicity, and data and information to support the US Water Partnerships efforts.
- WASHfund.org plays a knowledge management role to enable funders, nonprofits, policymakers, and other stakeholders have the research and data they need in order to make WASH investments more impactful.

Global Environment and Technology Foundation:

(Estimated value of support - \$500,000)

- Provides incubation cash and in-kind resources for the establishment of the Partnership. The Global Environment and Technology Foundation is supporting the important work of the U.S. Water Partnership through in-kind secretariat management, key coordination support and contributing resources to the development of the USWP Structure and design.

Global Water Challenge:

(Estimated value of support - \$500,000)

- Provides the Partnership with in-kind assistance in the management and turn-key support for the secretariat. GWC and its members support universal access to water and sanitation around the world. In addition to support for the USWP secretariat, GWC is also making available information on water, sanitation and hygiene best practices, particularly focused on sustainability and WASH in Schools.

iDE:

- Provides the Partnership with expertise and advisory support in the following:
 - Smallholder irrigation
 - Low cost technology development and commercialization (Drip Irrigation, Water Storage, Renewable Energy Pumping)
 - Private sector extension models
 - Smallholder farmer water productivity enhancement
 - Assistance in procurement of appropriate irrigation technologies
 - Business models focused on the rural poor that sustainably provide access to water for productive purposes:
 - Private sector last-mile supply chain development
 - Smallholder Irrigation Micro Finance models
 - Social enterprises that serve the rural poor. iDE has two social enterprises: Hydrologic sells water filters in Cambodia and iDEal Technologias sells irrigation equipment in Latin America.
 - Water Supply
 - Household water treatment, including ceramic water filters
 - Rainwater harvesting
 - Hand pump design and dissemination
 - Sanitation
 - Sanitation Marketing – currently covering 6 countries across Africa and Asia
 - Human Centered Design
 - Multiple Use Water Systems
 - Sharing data related to rural markets for irrigation, water supply, and sanitation
 - Ability to host meetings in Denver, CO at the Posner Center for International Development, the first shared space for international development practitioners, bringing together more than 30 different organizations working overseas.
 - Access to smallholder farmers and technical specialists in select countries in Africa, Asia, and Latin America.

Imagine H2O (IH2O):

- Provides the Partnership with access to an international network of water entrepreneurs, innovators, industry leaders, and educators. Imagine H2O’s proven path-to-market opportunity advances emerging businesses that offer promising solutions to many of the challenges identified by USWP. Imagine H2O supports the Partnership by nominating water technology businesses from its competition and accelerator programs to participate in activities facilitated by the Partnership.

The International Association of Plumbing and Mechanical Officials (IAPMO):

(Estimated value of support - \$7.5MM over 5 years)

- Provides the Partnership with in-kind contributions of education and training in emerging nations related to water safety, health, sanitation, research, best installation practices, sustainable conservation and training and installation practices as follows:
 - Integrate training programs at multiple levels utilizing proven plumbing, rainwater harvesting, alternate water source & solar codes and standards and efficient technologies;
 - Focus on water availability issues on a location by location basis, providing practical and efficient plumbing solutions;

- Mitigate the outbreak of water-related diseases through safe water delivery and installation;
- Share plumbing industry expertise through volunteer teams of contractors, engineers, plumbers, solar installers, code and health officials and water efficiency experts for on-site or off-site evaluations; and
- Conduct an international symposium of plumbing, rainwater harvesting, alternate water source use and solar industry experts to address overall industry response to the water crisis, first-year evaluation and emerging technologies/ideas.

International Boundary and Water Commission (U.S. Section):

(Estimated value of support - \$50,000 annually)

- Makes available to the Partnership a number of in-kind services, access to materials and studies and provides examples of best practices in water management activities. This will include:
 - Free access to the wide variety of IBWC online materials and data, including the U.S. Section's (1) GIS program (2) management of the Texas Clean Rivers Program for the Rio Grande Basin (3) water quantity and quality data for binational watersheds along the US-Mexico border from the Pacific Ocean to the Gulf of Mexico (4) dam safety program (5) environmental assessment work and (6) other scientific and technical reports;
 - Consultation with USIBWC engineers and other experts related to the use of the various programs and data identified above;
 - USIBWC support and assistance related to USWP training and visitor programs; and
 - USIBWC technical support to the USWP related to international water issues.

Millennium Challenge Corporation (MCC):

- Recognizing the importance of water security to economic growth, the Millennium Challenge Corporation joined the Partnership as a Lead Partner, and is contributing in-kind resources to the USWP Secretariat through the detail of a staff member who is providing support for partnership development.
- MCC offers the USWP its expertise, knowledge and lessons learned in addressing challenges to improving access to safe drinking water, sanitation, irrigation, infrastructure development, water resources management, and water sector policy reform. Since 2004, MCC has invested \$2.1 billion in water projects around the world, based on its country partners' priorities. Through the Partnership, MCC seeks to leverage its water portfolio – which comprises a combination of investments that support efficiencies in food productivity; water use for home, agriculture and industrial consumption; and power generation, transmission and distribution – and to deepen its development impact.

Millennium Water Alliance (MWA)

- Millennium Water Alliance commits the following contributions to the Partnership, its members and its partners:
 - Brings its commitment to raising standards and developing best practices in the WASH field through MWA's 13 member NGOs (12 US-based implementing organizations working in Africa, Asia, the Middle East and Latin America, and one international research organization based in Europe). MWA serves its members as a convener and as an information-sharing platform for practical issues in implementation and for joint action on public policy and promoting the visibility of WASH. Some MWA members will participate directly in USWP;

all will benefit from MWA's role to ensure that USWP goals and programs are fully communicated among MWA members.

- Leverages its leading role in advocacy in U.S. public policy on WASH to help further the goals and mission of the Partnership. Through its close association with InterAction, MWA helps to convene not only WASH implementers but other organizations in related sectors – such as health, education, food security, child development, and environment – to help develop greater integration with WASH in their programs and in our shared advocacy.
- MWA directly manages three major consortium programs that emphasize sustainability: in Ethiopia, \$13.9 million (2011-2014) through five member NGOs; in Kenya, \$9.8 million (2013-2014) through four members; and in five countries in Latin America, \$12.3 million (2013-2015) through five members. These consortium platforms not only improve the opportunities for real-time knowledge sharing and longer-term evaluation among the members, but will also help to inform MWA's input to USWP. MWA is committed to improving monitoring and evaluation, and recognizes the need for improved data from the field and for greater emphasis on local and country ownership.

National Aeronautics & Space Administration (NASA):

(Estimated value of support - \$21MM)

- Offers the Partnership access to its portfolio of research over the next 5 years. NASA is actively pursuing over 40 research activities that contribute to the understanding of global water issues, including:
 - Continued support of a free and open exchange of its earth science and satellite data;
 - Developing and producing satellite remotely sensed and model generated basic and applied research products that improves:
 - Description of the movement and stores of water globally;
 - Management of current water resources and estimates of impacts of climate and environmental change;
 - Assessment, adaptation and mitigation of risks associated with floods and droughts;
 - Assessment of water issues coupled with food, energy and ecology; and
 - Assessment of transboundary water (surface and groundwater) issues.
- NASA will also provide training and capacity building of current and future decision-makers to use remote sensing observations and models to make improved water-related decisions.

National Council on Science and the Environment:

(Estimated value of support - \$200,000)

- Offers the Partnership the following in-kind support:
 - Brokering engagement of the U.S. academic community and drawing upon their expertise to assist with the partnership, including identifying candidates for the Partnership experts database/consultants roster;
 - Communicating with the academic community about the Partnership and opportunities for engagement;
 - Identifying high quality water-related science, law, engineering and agriculture programs at U.S. universities – including water programs interdisciplinary and discipline based (science, law, engineering and agriculture) that designate their degree as water-related (Watershed Management, Water Resources, etc.) or with water emphases (except for civil engineering/general water treatment/delivery infrastructure);
 - Identification of opportunities for additional partnerships.
 - Engaging USWP leaders and participants in the annual National Conference on Science, Policy

and the Environment and other events facilitated by NCSE.

National Ground Water Association:

- Provides the Partnership with access to a global network of 12,000 members engaged in providing, protecting, managing, and remediating groundwater through consulting, contracting, teaching, manufacturing, distributing, and other services.
- Makes groundwater science/engineering and water well systems technology information available through its peer reviewed periodicals, through an extensive bibliographically source archive of its own publications and through its retention and maintenance of the USAID funded WASH Decade bibliographic database of literature.
- Provides skill and competency development and enhancement through continuing education delivered by multiple platforms and venues, including world touring lecture series in groundwater science and water well technology.
- Encourages groundwater supply, protection, and management practices growth through annual recognition program.
- Leverages its collaborative agreements with 14 foreign counterpart associations.
- Provides charitable assistance to village-level groundwater supply projects in developing nations.
- Provides connection to members who share an interest in groundwater development in developing nations, including those willing to volunteer their professional skills and competencies.
- Provides an NGO connection to the International Hydrological Programme of UNESCO.
- Provides standards and best practices for water well construction, groundwater treatment, and low temperature geothermal heat pump systems.

National Institutes for Water Resources (NIWR):

- Provides the Partnership with advisory services and assistance in information gathering and knowledge sharing/transfer through its 54 institutes across the US and its territories.
- The research and information transfer activities of the water resources research institutes have broad applicability to the Partnership, providing a national network with direct connections to the universities and land-grant institutions across the US.
- The educational activities across the water resources research centers provides the USWP with a direct connection to undergraduates and graduate students trained in water resources management.
- The Partnership will have access to the NIWR membership and its board of directors, which will help engage specific institutes to meet the emerging needs of the Partnership.

National Oceanic and Atmospheric Administration (NOAA):

- Provides the Partnership and its members, in-kind support for the Partnership's knowledge management goals by contributing appropriate NOAA environmental data and existing data products and web services to the Partnership Web Portal.

National Water Research Institute (NWRI) (Estimated value of support – Less than \$10,000):

- Provides the Partnership with advisory services, as well as assistance in identifying experts from the water industry and research community, such as universities and national labs, to find solutions to key water challenges. Additionally, NWRI is experienced in organizing, planning, and facilitating meetings, workshops, and conferences.
- NWRI will also provide both long- and short-term in-kind contributions toward the Partnership initiatives, as well as engage its member agencies and other organizations in the U.S. to support these initiatives, as needed.

The Nature Conservancy

(Estimated value of support - \$30 million over five years)

- Advances the Partnership's objective of integrated water resource management through the following initiatives:
 - Securing Water for People and Nature: Conserving watersheds for cities through innovative payment for ecosystem services programs, such as Water Funds, in which water users invest in improved land management by water producers, and through the Alliance for Water Stewardship, the first global system for providing businesses and utilities with practical guidelines and the opportunity to be recognized as responsible stewards;
 - Great Rivers Partnership: Bringing all stakeholders together - government, industry, communities and NGOs - to develop balanced, equitable and sustainable ways to use the world's largest and most essential rivers. NC will do this through the Great Rivers Partnership, a global network of partners working together to develop and apply science-based approaches to integrated river basin management on eight of the world's great rivers.

OOSKA News:

- Provides the Partnership with an aggregated source for up-to-date news stories on water-related issues and developments.
- OOSKA News has also worked with the U.S. Water Partnership to develop aquaNow, "the World's Water Data Engine". As a result of this collaboration and as a part of OOSKA News' contribution, U.S. Water Partnership members receive a reduced rate when using the engine.

Overseas Private Investment Corporation:

(Estimated value of support expected to reach at least \$150 million within 2 years)

- Offers solutions to the Partnership such as structured finance, small and medium enterprise lending, political risk insurance and support for private equity investment funds, including the following high priority areas:
 - **Desalination** – Insurance and financing for small mixed-use and municipal-use water desalination projects in Asia, North Africa, Sub-Saharan Africa and Latin America and the Caribbean.
 - **Distribution Infrastructure** – Expropriation and inconvertibility coverage to insure up to \$150 million in financing to rehabilitate 38 of 82 existing municipal water purification systems throughout Ghana as part of the Ghana National Water Infrastructure Modernization Project.
 - **Investment Funds** – Support for a Board-approved, privately-managed private equity investment fund that will focus on sustainable and low-carbon projects, including water supply projects, in Vietnam, Laos and Cambodia.

Patel College of Global Sustainability, University of South Florida (Estimated value of support - \$100,000):

- Provides the Partnership with support in the form of consulting roles, training, and technical assistance. In the long term, the Patel College of Global Sustainability plans to lead an initiative on Urban Form and Integrated Water Management.

Procter & Gamble:

(Estimated value of support expected to reach \$1 million)

- Provides the Partnership access to its partnership development expertise, including its recent provision of a \$1MM grant to CARE to provide 100 million liters of clean drinking water and hand washing stations in schools, for people living with HIV/AIDS and during emergencies, focused in Ethiopia and

Kenya.

Relief International

- Provides the Partnership with in-kind contributions, including advisory and training support. Relief International will also offer technical advising to the Partnership, specifically as it relates to increased efficiency and productivity of the agricultural sector, manual well drilling, rainwater harvesting, integrated WASH practices, watershed management, and integrating ‘for-profit’ models and Public-Private Partnerships in to initiatives that will achieve development goals.

Robert B. Daugherty Water for Food Institute at the University of Nebraska:

- Provides the Partnership with long-term support through both scientific and policy research and the development of advanced decision-making tools and knowledge delivery systems.
- The Robert B. Daugherty Water for Food Institute also offers short-term support in the form of the Global Yield Gap Atlas, which is used to estimate the difference between current average farm yields and yield potential, along with estimates of water productivity.
- Along with Valmont and World Vision, the Institute is also a partner in a pilot project to test out the viability of community-based multiple-user center-pivot irrigation in Tanzania and Rwanda, in order to learn lessons needed to take the concept to scale elsewhere; this pilot project is expected to be one of the key initial activities to be carried out under the Partnership Signature Initiative on “Multiple User Center Pivots” (MUCP).

The Rockefeller Foundation:

(Estimated value of support - \$100,000)

- Provides the Partnership with a \$100,000 investment over one year to support the Partnership operations and to advance community-based water service delivery that meets agricultural, health and environmental needs.

Skoll Global Threats Fund:

(Estimated value of support - \$100,000)

- Provides the Partnership with \$100,000 investment in the Partnership’s operations and the implementation of a U.S. Water Partnership Signature Initiative to advance their initiative on water security in South Asia.

Tufts University Institute of the Environment:

(Estimated value of support - \$20,000)

- Provides the Partnership and its partners multiple layers of support and access to Tufts University’s graduate students and faculty focused on interdisciplinary environmental education, research and outreach toward a sustainable future.
- Offers access to the Water: Systems, Science, and Society (WSSS) program, which brings together interdisciplinary expertise on a variety of water issues from across Tufts schools in six focus areas:
 1. Water, Climate and Environmental Change
 2. Water and Public Health
 3. Water Pollution and Remediation Science
 4. Watershed Management
 5. Water, Food and Livelihood Security
 6. Water and National and International Security
- Brings the Partnership’s stakeholders the opportunity to foster research and professional skills for advanced graduate students through the WSSS certificate program, fellowships, the local and

international Practicum, internships and annual Symposium.

- Offers access to the NSF's IGERT-funded Water Diplomacy PhD. program at Tufts.

U.S. Agency for International Development (USAID):

- Provides Partnership's members with elements of its knowledge management tools, which will be made available to the knowledge management platform of the Partnership in order to share best practices and lessons learned from USAID.

U.S. Army Corps of Engineers:

- Offers the following by leveraging services and expertise to the Partnership, to include:
 - Loan of a senior USACE water resources expert to advise and assist the USWP staff in areas such as operational, thematic and content strategies;
 - Free access to the **USACE Institute for Water Resources (IWR) Hydrologic Engineering Center (HEC)** tools and models;
 - Collaboration with the **USACE International Center for Integrated Water Resources Management (ICIWaRM)**, a network of USG agencies, academic institutions and NGOs under the auspices of UNESCO and Access to the ICIWaRM network of centers and hosted by our Institute for Water Resources (IWR);
 - Support and assistance related to the Partnership training and visitor programs, including IWR, research laboratories and division and district offices; and,
 - Access to the USACE-led **Federal Support Toolbox for Integrated Water Resources Management (FSTB for IWRM)**, a new information sharing initiative scheduled to be operational this calendar year. The FSTB is an innovative business model for one-stop-shopping of water resources information - offering data, tools, models, programs, initiatives, policies, regulation, best practices and lessons learned. The FSTB for IWRM will host information from 24 U.S. federal agencies, River Basin Commissions, Tribal Governments, 50 states, academia and private industry. It will also offer capability building to support water resources needs across the nation, provide a platform to leverage resources and avoid redundancies among agencies and build partnerships and collaborations.

U.S. Army Reserve (USAR):

- The USAR possesses broad capabilities to support the implementation and execution of projects that enable the accessibility of water, sanitation and hygiene in a sustainable manner. The US Army Reserve's capabilities, including but not limited to civil affairs, engineering, logistics, medical, and technology development, are well suited to provide on-site assistance, based on its expeditionary nature and its trained and ready Soldiers. The U.S. Army Reserve is able to tailor its assets assigned to provide the needed mix of expertise to support project implementation on-location, as well as assist during the project planning and development phases. Commitments to the Partnership are contingent upon their availability, compliance with applicable laws and regulations, and the approval of the Department of the Army and the Department of Defense.

U.S. Department of Agriculture (USDA):

- Provides the Partnership with access to the USDA's expertise, research and science-based knowledge, tools and resources for addressing water issues. These resources include:
 - Developing comprehensive, integrated information needed to make sound decisions, implement solutions and educate the public.
 - Providing access to their unique capabilities in developing policies, tools and technologies to protect and conserve water, while meeting the growing demand for agricultural goods and

- services.
 - Integrating the USDA Data Commons with the USWP web portal, among other U.S data and information platforms.
 - Focusing on USDA domestic priorities to address and foster solutions for farmers on drought prediction, preparedness and resilience.
- The USDA will also provide the U.S. Water Partnership with access to its best practices and management approaches for water conservation, improving water quality, and for promoting the health of water ecosystems.
- Working with other Federal Agencies, the USDA can also provide access to their knowledge and expertise in supporting public drinking and waste water systems for urban, suburban and rural communities to help ensure clean and abundant drinking water.
- The USDA will also make technical personnel and facilities available for technical exchanges and study tours and conferences.

U.S. Department of the Interior:

(Estimated value of support - \$1 million)

- Provides the Partnership with access to a variety of in-kind services and materials, including:
 - Free access to **U. S. Geological Survey** online materials, including (1) training classes on stream gaging (2) hydrologic databases for U.S. surface water, groundwater, water quantity and quality (3) hydrologic simulation model codes and documentation and (4) scientific and technical reports;
 - Consultation with **U.S. Geological Survey** scientists related to the use of the various models and data identified above;
 - **Bureau of Reclamation** and **U.S. Geological Survey** support and assistance related to USWP training and visitor programs;
 - **Bureau of Reclamation** and **U.S. Geological Survey** scientific and technical support to the USWP related to international water issues;
 - **National Park Service** will provide consultation with data monitoring, data storage and interpretive staff for best methods of collecting and presenting protected watershed information;
 - **National Park Service** technical expert assistance with water resource site characterization and management tools; and
 - **National Park Service** bilateral agreements for water resource collaboration and methods for establishing partnerships.

U.S. Department of State:

(Estimated value of support - \$300,000)

- Provides the Partnership an investment towards the development of a readily-accessible knowledge management tool that will synthesize and connect a wealth of U.S. water information to users around the world.
- Provides in-kind staff time and communications products to help support the launch and work of the Partnership.

U.S. Environmental Protection Agency (EPA):

- Provides the Partnership access to its watershed management tools, its water quality standards and regulatory and policy support.
- Provides EPA's environmental information and decision-support tools including:
 - Guidelines on watershed characterization and assessment – total pollution loading models, health

- and environmental impacts;
- Governance frameworks promoting Integrated Water Resources Management (IWRM) and urban systems;
- GIS maps & Models;
- Habitat Assessment Tools & Monitoring;
- Economic Decision Support Tools; and,
- Consultations with technical experts related to trade missions, etc.

U.S. Trade and Development Agency (USTDA):

- Provides the Partnership with access to technologies and solutions for host country water and wastewater needs, including top priority areas within the sector such as specialized wastewater treatment, water reuse and desalination and water quality.
- Offers the Partnership support through the following:
 - **Feasibility studies, technical assistance and pilot projects**, USTDA’s **Project Development Program** helps foreign project sponsors to identify technological solutions and leverage sources of international financing for priority infrastructure projects; and
 - **Reverse trade missions (RTMs)** are the mainstay of USTDA’s **International Business Partnership Program (IBPP)**, USTDA’s signature program for linking the U.S. private sector to infrastructure development needs in emerging economies. These visits are carefully planned to enable foreign partners to observe the manufacture, demonstration and operation of U.S. goods and services that can help them achieve their development goals. These RTMs also include meetings with U.S.-based financial institutions that can help partner countries finance their infrastructure requirements and build their technical capacity.

U.S. Water Alliance:

(Estimated value of support - \$38,000)

- Offers the Partnership in-kind support over the next two years to connect the Partnership and those that seek its assistance to a broad and diverse group of thought leaders within and beyond the U.S. water sector. The U.S. Water Alliance will utilize the network of members and partnership organizations, coupled with its communication capabilities and high-profile events, to advance the mission and activities of the Partnership. The Alliance is uniquely positioned to connect policy and industry professionals around the world to U.S. water leaders.

University of Colorado: Denver and Boulder campuses

- Provides access to over 100 faculty, research scientists and graduate students with expertise in a wide variety of water issues and implementation strategies across 10 departments and two campuses, Denver and Boulder, at the University of Colorado.
 - Particular fields of expertise include:
 - Hydrology
 - Climate Change
 - Law and Policy
 - Paleoclimatology
 - Climate Modeling and Analysis
 - Colorado River Basin
- Provides access to current water programs and projects including:

- Climate Science including climate change, climate variability, paleo-climate
- NOAA-Funded RISA (Regional Integrated Sciences and Assessments) at CU
- DOI-Funded Climate Science Centers, Southwest and North Central Regions at CU and CSU
- CADSWES, Center for Advanced Decision Support Water and Environmental Systems at CU
- Reclamation Personnel at CADSWES and Denver Federal Center via CU
- NOAA Weather, Climate and Hydrology Researchers at Earth System Research Laboratory via CIRES at CU
- Cooperative Institute for Research in Environmental Sciences at CU
- Institute for Arctic and Alpine Research at CU
- National Snow and Ice Data Center at CU
- Works toward hosting visiting faculty from academic institutions in developing countries working with the Partnership.
- Works toward arranging faculty and graduate student exchanges with academic institutions in developing countries working with the Partnership.
- Develops new projects in collaboration with Partnership members.

The University of Maryland Energy Research Center (UMERC):

- Provides the Partnership with technical, advisory, research, education, and publicity services, particularly as it relates to the energy-water nexus. As an academic research and educational organization, UMEREC can provide technical expertise and testimony, and advice on appropriate technology advancements. Further, UMEREC is actively engaged in disseminating the importance of the energy-water nexus.
- UMEREC is actively developing low energy water purification technologies, including participation in the Gates Foundation "Reinvent the Toilet Challenge". Through UMEREC faculty involved in the Joint Global Change Research Institute (UMD and PNNL collaboration) and the Earth System Science Interdisciplinary Center (UMD, NASA and NOAA collaboration) we are actively engaged in climate change impacts on global and regional water availability.
- UMEREC is also actively engaged in the Chesapeake watershed including agricultural and energy impacts as well as numerous international regions.
- UMEREC also supports the University of Maryland Chapter of Engineers Without Borders (EWB). EWB is active with projects in Addis Alem, Ethiopia, Compo, Peru and Ilha Das Pecas, Brazil. Their activities have included stormwater management, irrigation channel development, water storage and treatment, and other priorities identified by the communities with which they work.

University of North Carolina Water Institute:

- Provides the Partnership with access to three WASH-related tools:
 - Developing a comprehensive assessment of the major U.S.-based water sector stakeholders, their capabilities and their geographic areas of interest/experience;
 - Country-level profiles of the institutional frameworks for the regulation and surveillance of drinking water quality; and
 - A software tool for monitoring and evaluation in WASH that is currently in development.

Valmont Industries, Inc. (Estimated value of support – Over \$300,000)

- Provides the Partnership access to Valmont's considerable experience in irrigation in the form of

advisory support and assistance for the development of technical and policy improvements globally. Valmont firmly believes that, to achieve water security, modern irrigation technology is needed globally. To that end, Valmont operates a global network of dealers and manufacturing plants which enable farmers to raise crop yields while using less water.

- Valmont also commits to support a new concept in Community Based Irrigation through the Sustainable Agriculture Signature Initiative. Valmont has already structured two projects to supply equipment and support services to bring the benefits of efficient irrigation to smallholders in Africa. These pilot projects are located in Ghana and Tanzania. The value of this commitment is in excess of \$300,000. The projects will be managed by the local participants, and assistance for installation, training and advisory services will be supplied by Valmont personnel from Nebraska and South Africa, Spain and Kenya.

WaterAid America

- WaterAid America commits the following contributions to the Partnership, its members and its partners:
 - Provide improved access to safe water, sanitation and hygiene in the world's poorest communities, remaining on track to meet our goals of bringing 1.4 million people safe water in 2012/13, and 2.5 million people with sanitation and hygiene. Additionally, our goals by 2015 are to reach 25 million directly with safe water and sanitation, and 100 million indirectly through influence and advocacy;
 - Contribute, through our influencing work and our programs, to meeting global goals for ending preventable child deaths from pneumonia and diarrhea; stopping the spread of Neglected Tropical Diseases that are perpetuated by poor quality water, sanitation and hygiene; preventing stunting; and increasing access to education and economic development, particularly for the world's poorest women and girls;
 - Provide support to enhance policy and advocacy coordination and activities to ensure water, sanitation and hygiene programs reach those most in need and do so in an effective, collaborative and sustainable manner; and targeted advocacy capacity building to USWP members who are interested in increasing their engagement with policy-makers for the advancement of the shared goals of the USWP;
 - Contribute technical expertise as relevant to USWP partners or clients on topics including water security, water point mapping and needs assessment, technologies, sustainability, inclusive approaches for people living with HIV/AIDS or a range of disabilities, as well as reports from specific countries or regions that would enhance the information base of the Partnership's clients so as to support their planning and partnerships.

Water For People (Estimated value of support - \$10,000):

- Provides the Partnership with opportunities to partner with local communities, governments and the private sector to help support and develop water and sanitation services in developing countries. Through the Everyone Forever Commitment, Water For People empowers people everywhere to:
 - Access improved water and sanitation services
 - Keep water flowing and latrines useful
 - Identify and maintain new, sustainable solutions
- Water For People is committed to a specific focus is 30 districts in 10 countries for full coverage of water by 2018.
- Water For People will also make its Sanitation as a Business Initiative available to the Partnership in order to leverage efforts and contributions to support actions to build an enabling environment for sustainable service delivery. This approach seeks to engage the private sector in sanitation service

delivery, link them with the needed financial and technical resources, and to build the capacity of local institutions to provide ongoing services and permanent solutions.

- Water For People is active in India, Uganda, Rwanda, Malawi, Peru, Bolivia, Ecuador, Guatemala, Honduras, and Nicaragua.

Water Transit Solutions (Estimated value of support - \$90,000):

- Provides the Partnership with both technical and training support as well as organizational support for Partnership committees. WTS is a technology-based company that provides water for just-in-time deployment on a global basis. Water is one of the most critical resources required for the improvement of global health, from industrialized countries to emerging markets and WTS is committed to providing water for the improvement of health around the world. WTS is uniquely poised to provide on-demand water solutions to those in need, particularly in conditions where water services don't exist or are damaged due to disasters.
- Additionally, through partnerships with AT&T, research universities, and Historically Black Colleges and Universities (HBCU's), WTS is poised to help provide innovative technology, training, consulting and R&D support for optimal market implementation.

Worcester Polytechnic Institute (WPI) – Water Resource Center:

- Provides the Partnership with access to their interdisciplinary research and expertise. Through the Water Resource Center, WPI can also provide advice, products for pilot use, and technical expertise and training. The Water Resource Center is also active in Advanced Treatment Research and Technology and their faculty can provide expertise and project support.
- Worcester Polytechnic Institute also has 38 Project Centers around the world in which they employ their project based curriculum. Through the Water Resource Center at WPI and their wide range of experts as well as students engaged on long-term projects, they can help provide resources to meet the needs of the state, nation and globe.

World Resources Institute:

- Provides the Partnership's stakeholders access to the **Aqueduct Program** and its global information platform and tool for helping the private and public sector decision-makers understand water-related risks. Aqueduct's water stress maps are being used by diverse interests, such as Citi, AXA, UNDP and the Office of the Director of National Intelligence in its "Global Water Security" report requested by the State Department.
- Offering Aqueduct's global maps and tool, which will be updated in December 2012 with the latest water data available, a broader set of water risk indicators and aggregated risk scores and an improved user interface. The updated tool will also provide easy functionality, such as a "drag-and-drop" feature to allow companies and other users to more easily plot facilities on the maps and assess relative risk scores.
- Provides highly granular information at a detailed sub-basin scale for selected river basins around the world, including maps currently posted for the Yellow (China) and Orange-Senqu (southern Africa) rivers, and forthcoming maps for the Colorado (USA), Murray-Darling (Australia), Mekong (SE Asia) and Yangtze (China) rivers, all available in 2012.
- Provides a series of white papers using the Aqueduct analysis and maps focused particularly on the growing demand for water in the energy and agricultural sectors and the potential impact for energy and food security across the globe, which will be available in 2013.

World Vision:

(Estimated value of support - \$400 million)

- Offers the Partnership program and staff support to include:
 - Committing to increase sustainable access to safe water, adequate sanitation and hygiene solutions for 6.5 million people in ten African countries, and more who need water, sanitation and hygiene – or WASH – solutions in Asia and Latin America over the next five years;
 - Providing access to the technical expertise regarding scaling-up clean water access at facilities in West Africa;
 - Leveraging and building on the current public-private partnerships in Haiti and the Dominican Republic – focused on eradicating cholera with clean water access and total WASH solution interventions;
 - Leveraging the “Support My Schools” initiative in India to replicate the approach in other regions in India or other priority countries; and,
 - Loaning a full-time staff member to provide support for Partnership membership services and partnership development.

World Wildlife Fund:

- Provides the Partnership with access to advisory services developed through their in-house expertise and programs in water stewardship and integrated river basin management. WWF also has experience in WASH/conservation programs.
- WWF also has significant experience to draw on from its scientific department, markets department, and others to support its engagement in USWP.
- The following basins will be a focus for future corporate partnership and policy engagement on IRBM, water-food-energy-ecosystems tradeoffs and conservation of flow, connectivity, water quality and freshwater habitats and species:
 - Amazon (predominantly Brazil, Peru, Bolivia, and Colombia)
 - Amur-Heilong (NE China; Russian engagement may be added in the future)
 - Koshi (Nepal and China; India to be incorporated in the future)
 - Northeastern South Africa Catchments
 - Mekong (China, Thailand, Vietnam, Cambodia, and Laos-Myanmar in development)
 - Mesoamerican Reef Catchments (Guatemala, Honduras, El Salvador, Belize and Mexico)
 - Rio Grande/Rio Bravo (US and Mexico)
 - Yangtze (China)
 - Zambezi (Zambia, Malawi, Mozambique, and Zimbabwe; less so for Angola and DRC)
- WWF has also developed a number of tools to improve water resource management including the Water Risk Filter, the Alliance for Water Stewardship Standard, and the Freshwater Eco regions of the World (FEOW).

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