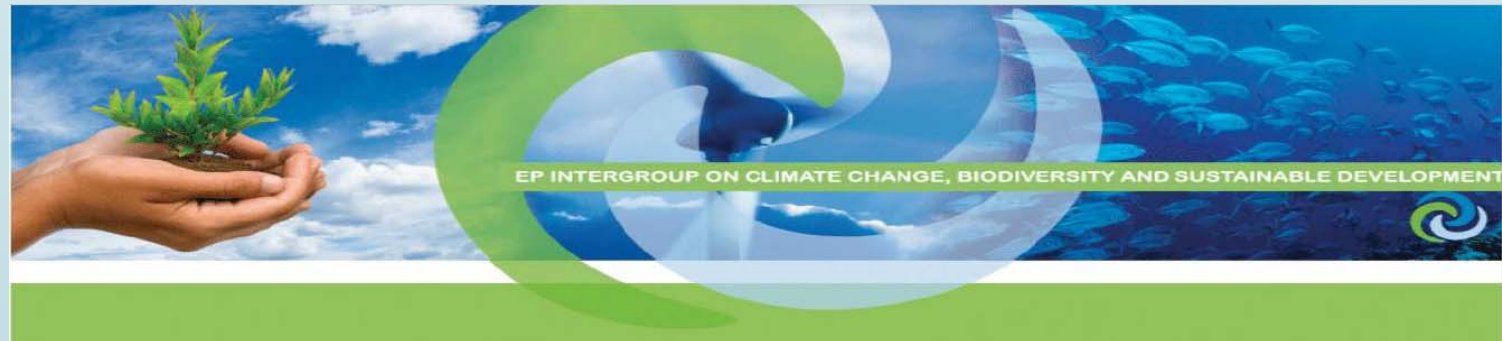


# COLLABORATION AGREEMENT AEAS - AECID

Achievement of SDG 6 in Latin America  
Ecuador Case Study





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# I. BACKGROUND



# COLLABORATION AGREEMENT AEAS-AECID



**OBJECTIVE:** support of water service providers in Latin America in the frame of the Water Fund for Latin America

- ✓ Diagnosis and identification of needs of public administrations for the implementation of improvement processes
- ✓ Support on design of Management Improvement Plans
- ✓ Technical assistance for operation and maintenance of water services
- ✓ Training and establishment of nets of exchange and transfer of knowledge
- ✓ Monitoring and evaluation of implementation of improvement measures



## II. MANAGEMENT OF WATER SERVICES IN ECUADOR

# ORGANIC LAW ON HYDRIC RESOURCES, USES AND EXPLOITATION OF WATER AND ITS REGULATION



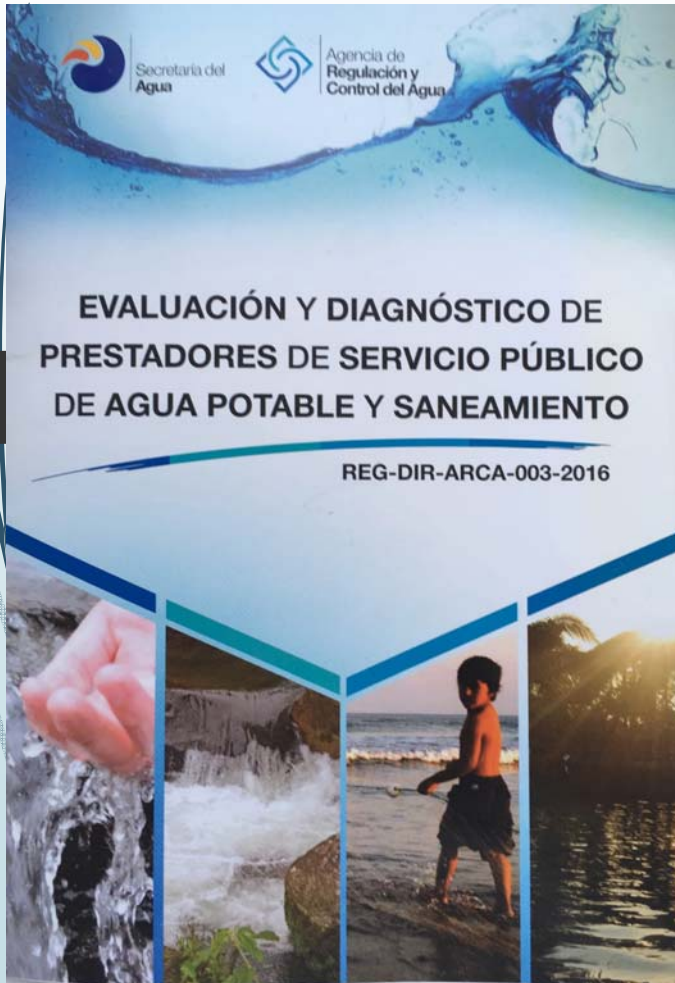
## 1. COMPETENT AUTHORITIES

- ✓ SENAGUA – Hydrological planning
- ✓ ARCA - Regulator
- ✓ EPA – Hydraulic infrastructure

## 2. MUNICIPAL COMPETENCY

- ✓ Municipalities – direct management or delegated on public company
- ✓ Urban parishes – community management
- ✓ Rural parishes and areas – community management

# EVALUATION AND DIAGNOSIS OF PUBLIC WATER SERVICE PROVIDERS



1. Regulatory framework of water services
2. Self-assessment indicators for service providers: service structure, operation, quality, support of community services, economic and financial
3. Reporting of indicators to ARCA: performance level
4. Management Improvement Plans

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## III. THE PROJECT



## Detect training needs of technicians of municipalities affected by earthquake 16 April 2016



# AFFECTED AREAS





# DEFINITION OF THE PROJECT



- ✓ Multidisciplinary team organized by AECID – urban planning, risk management, water supply and sanitation, resettlement, tourism development, structures
- ✓ Technicians of AME (Association of Ecuadorian Municipalities)
- ✓ Workshop in Quito
- ✓ Field visits to affected areas

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## IV. CONCLUSIONS



1. Systemic technical problems in all affected municipalities
  - ✓ NRW (70-80%)
  - ✓ Commercial management: % non-payments
  - ✓ Economic equilibrium of the system
  - ✓ Shortage
  - ✓ Insufficient sewerage system
2. Lack of coordination among administrations
3. The community management is not adequate
4. Different evolution of municipalities
  - ✓ Manta, Portoviejo, Rocafuerte, Chone
  - ✓ Pedernales, Atacame, Rioverde

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## V. PROPOSAL FOR NEEDED ACTIONS



# PROPOSAL FOR TRAINING PROGRAMMES



	WORKSHOP	PRIORITY	AREA
T.1	Hydraulic modelling of water supply net. EPANET	High	Water supply
T.2	Management of water supply net. Sectorization and control	High	
T.3	Control of non revenue water (NRW)	Low	
T.4	Hydraulic modelling of sewerage net. SWMM	Medium	Sanitation
T.5	Advanced management of sewerage and lagoons	Medium	
T.6	Economic sustainability of services. Analysis of costs of services and cost recovery principle	High	Economy and management models
T.7	Establishment of consortia, groups of communities and integral and centralized management of community management boards.	High	
T.8	Mutual understanding and cooperation plans for different administrations involved in the integral water cycle management	Medium	



# PROPOSAL FOR TRAINING PROGRAMMES



## SUITABILITY OF PROPOSAL FOR EACH MUNICIPALITY

	Manta	Pedernales	Rocafuerte	Portoviejo	Chone	Atacames	Rioverde
T.1	Low	Medium	High	High	High	N/A	N/A
T.2	Low	Medium	High	High	High	N/A	N/A
T.3	Low	Low	Medium	High	Medium	N/A	N/A
T.4	High	Low	High	High	High	High	N/A
T.5	High	Low	High	High	High	High	High
T.6	Low	Medium	High	High	High	High	High
T.7	High	High	High	High	High	High	High
T.8	High	Medium	High	High	Medium	High	High



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**Thank you for your attention!**

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