



Supporting rural communities in the design, development
and construction of water systems since 1987



APLV en Nicaragua



- APLV is a **Nicaraguan NGO** with a local board and leadership.
- APLV works in partnership with local NGOs, municipalities and non-profit organizations in the US and France.
- The APLV team has **30 years of experience** in designing and developing potable water and sanitation projects and has completed **89 projects** serving over **35,000 individuals**.

Our Vision

A Nicaragua where all people have access to safe drinking water and sanitation



Our Mission



To improve the quality of life of rural communities in Nicaragua by developing sustainable access to safe water and sanitation

Our Values

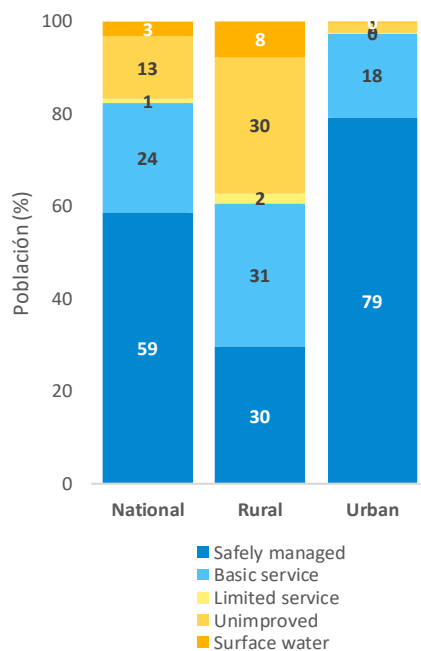
- Respect
- Commitment
- Quality
- Teamwork
- Transparency
- Equality



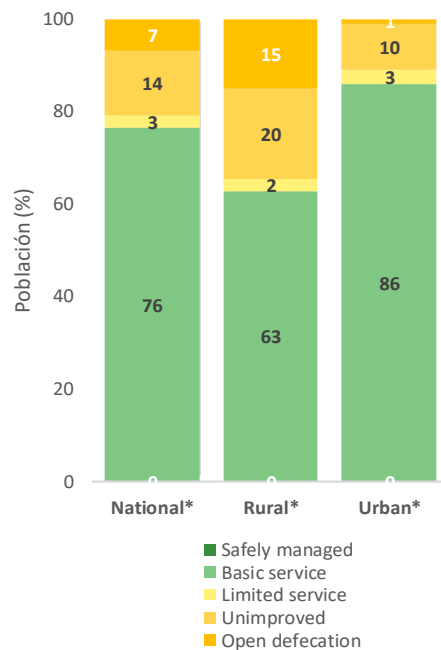
The Context

- Approximately 40% of the rural population in Nicaragua lacks access to safe water and sanitation

Agua Potable



Saneamiento



*No safely managed estimate available

Source: WHO/Unicef JMP (2017)

- A country vulnerable to climate change

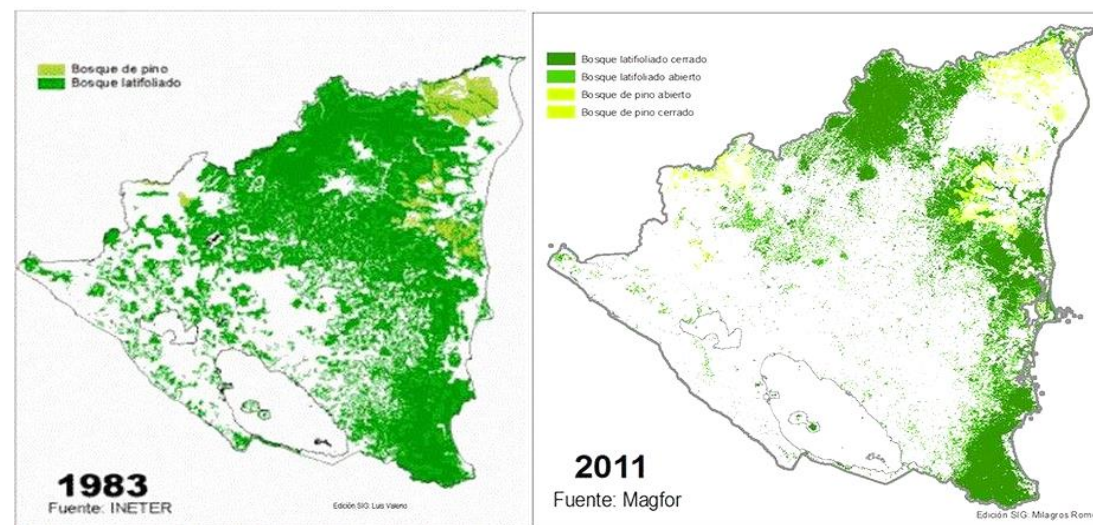
ÍNDICE DE RIESGO CLIMÁTICO GLOBAL (IRC) A LARGO PLAZO: LOS 5 PAÍSES MÁS AFECTADOS (1994-2013)

Ranking 1994-2013 (1993-2012)	País	Valor del IRC	Muertos por 100.000 habitantes	Pérdidas en millones de dólares (PPA2)	Pérdidas por unidad PBI en%	Número de eventos (1994-2013, en total)
1 (1)	Honduras	10.33	309.70	4.60	813.56	3.30
2 (2)	Myanmar	14.00	7,137.40	14.80	1,256.20	0.87
3 (3)	Haití	16.17	307.80	3.41	261.41	1.86
4 (4)	Nicaragua	16.67	160.15	2.98	301.75	1.71
5 (7)	Filipinas	19.50	933.85	1.13	2,786.28	0.74

FUENTE: Germanwatch y Munich Re NatCatSERVICE

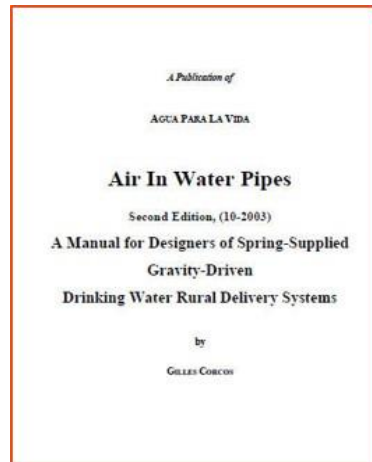
Gráfico: Juan García / END

- A country suffering from deforestation



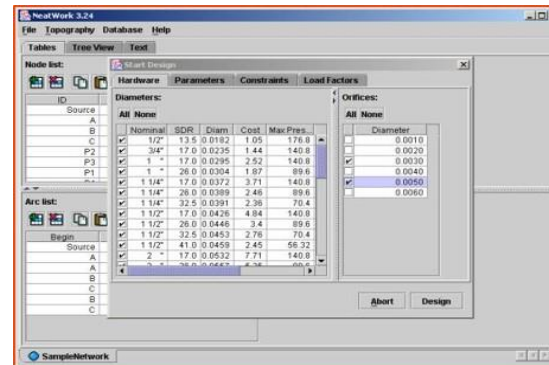
Our Technical Abilities

➔ **Three advanced programs** for the design of water distribution networks developed by APLV



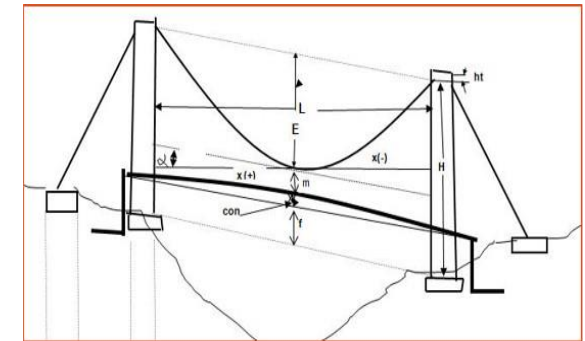
Air in Pipes

For design of the conduction line between the water source and the tank



NeatWork

For design of gravity-fed distribution system from the tank to faucets

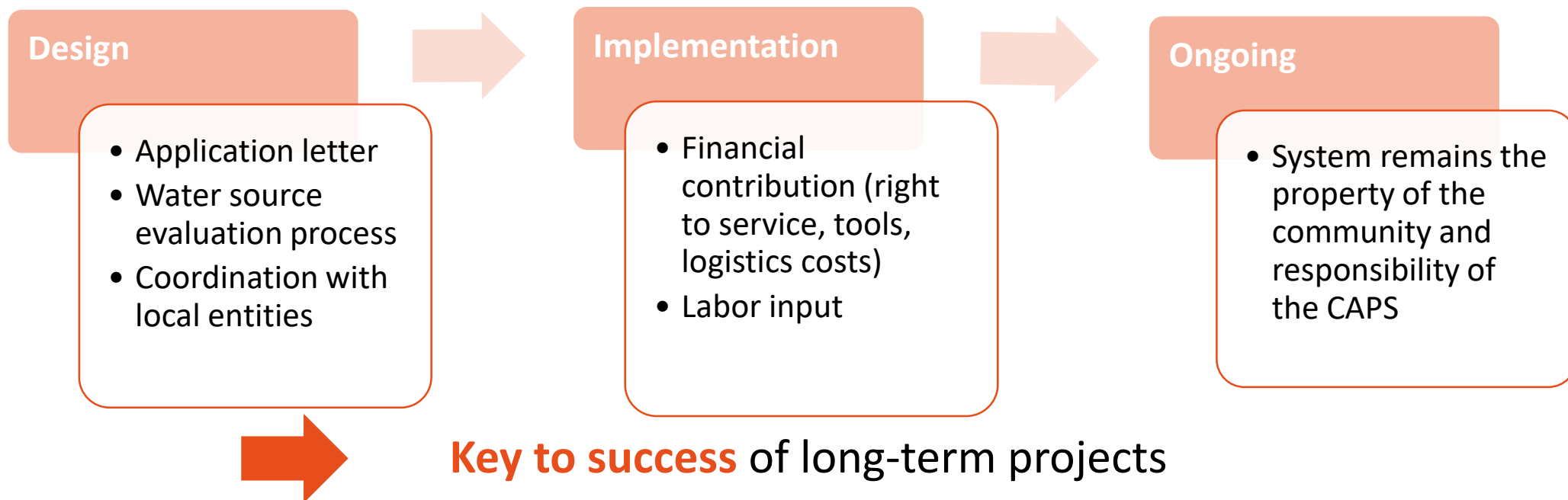


ABridge

For design of aerial crossings (up to 150m)

Our Methodology in working with Communities

1. Community participation in all stages of the project:



2. Presence of the APLVN team in the community throughout the project

Components of our Work



**Access to
Potable Water**



**Integrated Water
Resources Management**



**Access to Sanitation
and Hygiene**



Technical Education



**Empowerment of
local leaders and
communities**



Volunteering

Component: Access to Potable Water



- APLVN present in each phase of the project:

Study

- Identification of water sources
- Evaluation of water source
- Topography
- Design of the water system

Execution

- Capturing the surface water source
- Water storage and treatment
- Distribution to homes

Follow up

- Follow-up visits at 6 months and 12 months
- Technical assistance when requested by the CAPS in the long term

- **Expertise in gravity-fed water systems** (*experience with building conduction lines up to 15 km and networks of more than 40 km!*)
- Projects designed to have a **useful life of 15-20 years**.
- **Community actively participating** in each stage of the construction of the system **for greater ownership** of the project.

Component: Access to Sanitation

- Installation of high quality **ventilated double pit latrine** systems, which have a **useful life of 10 to 15 years**.
- Families build the latrines themselves with APLVN technical assistance.
- Other sanitation solutions: washing areas, drains, ecological toilets, etc.



Component: Local Empowerment



Develop and strengthen local resources to **raise awareness** and ensure the **sustainability** of projects

Strengthening CAPS

(Administration, Operation and Maintenance)

Health education

(Hygienic practices, diseases related to water and sanitation, etc.)

Environmental education

(Cleaning days, supporting young environmentalists, community nurseries, etc.)



Component: Integrated Water Resources Management

- **Protection, restoration and conservation** of the source area for **greater sustainability** of projects
- Development of **trainings** on **Integrated Water Resources Management** and the **development of water resources management plans**



Component: Technical Education



- **Escuela Técnica de Agua Potable (ETAP)** created in 1996

For young Nicaraguans from rural communities

Students provided with 100% scholarship for tuition, room and board

The course runs for 2 ½ years in Río Blanco and is accredited by INATEC

Graduates awarded Diploma in **Design and Management of Water Systems and Rural Sanitation**

- **Training of partners** in water, sanitation and environmental issues

Component: Volunteering

Promoting **volunteer opportunities** to promote the values of **practical learning**

- **Local Volunteers:** Community Volunteers for CAPS, Young Environmentalist Commissions and Health and Hygiene Commissions
- **National Volunteering:** University or Professional Practitioners
- **International Volunteering:** *Youth, Entrepreneurs and Sanitation Project* in partnership with

 **Raleigh**
International



Our influence at the local level

Formation of the CAPS Municipal Network in Río Blanco



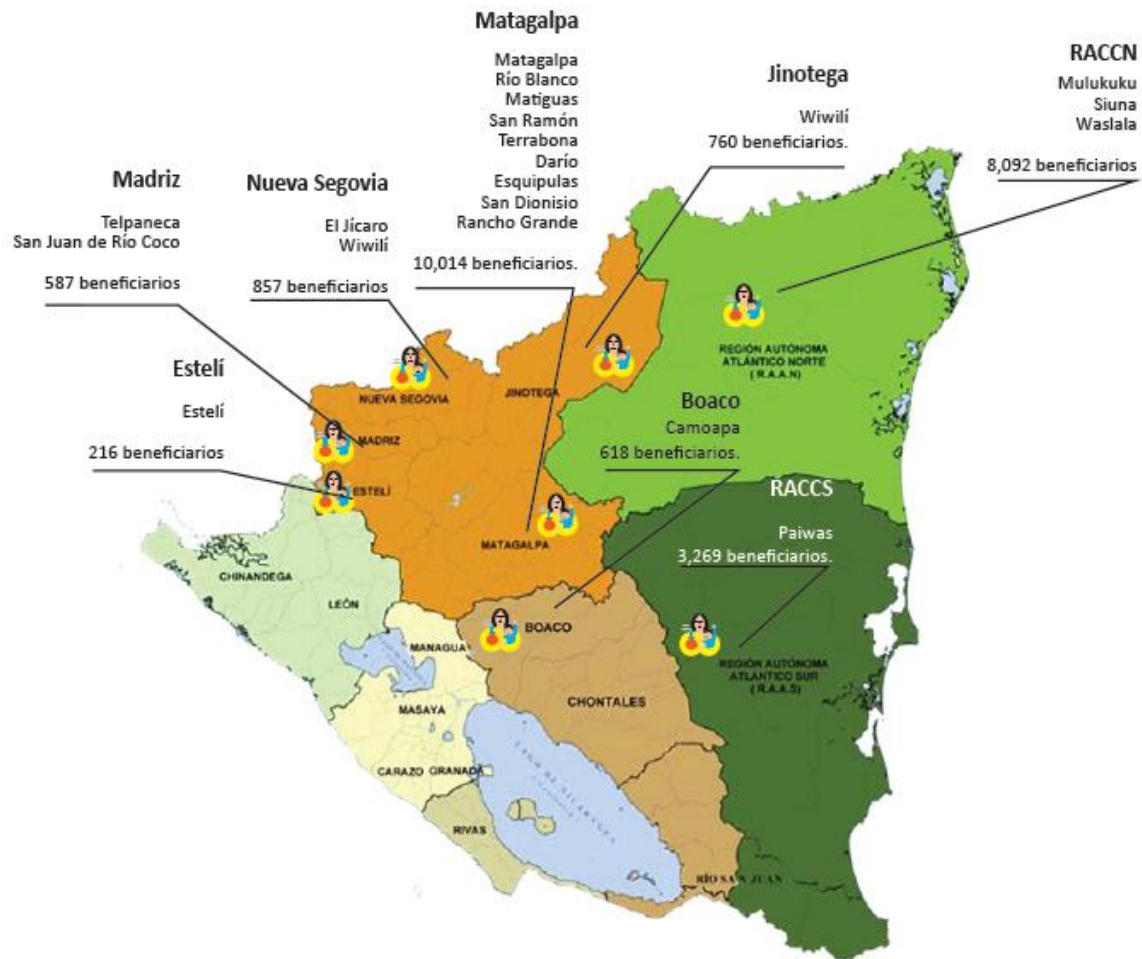
Our Achievements

35,117 people

89 completed projects in

20 municipalities

**Winner of the VII Edition of the
Water and Sanitation Prize**
sponsored by the IDB (2015)

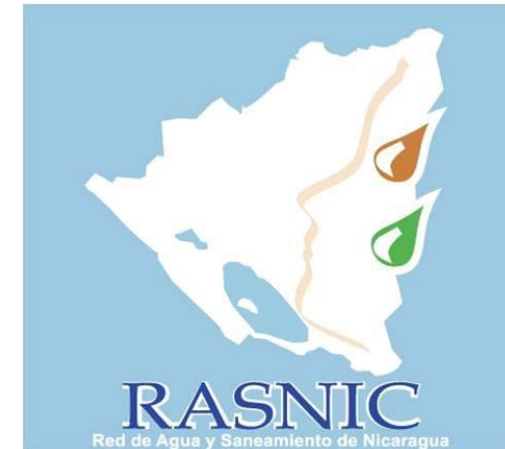


Cobertura geográfica de APLV de 1987 a 2016

Our networks and alliances in Nicaragua



Alianza Nicaragüense de Cooperación para el Aprovechamiento
y la Protección de los Recursos Hídricos
(GWP-Nicaragua)



ALIANZA
POR
EL AGUA



Our Funding Sources



- Foundations in France and the United States
- International NGOs
- Individual Donors
- **Co-investment strategy** with the municipalities *(15 to 25% of the total amount of the projects)*



THANK YOU FOR YOUR
ATTENTION!