



An innovative multi sector approach to water provision

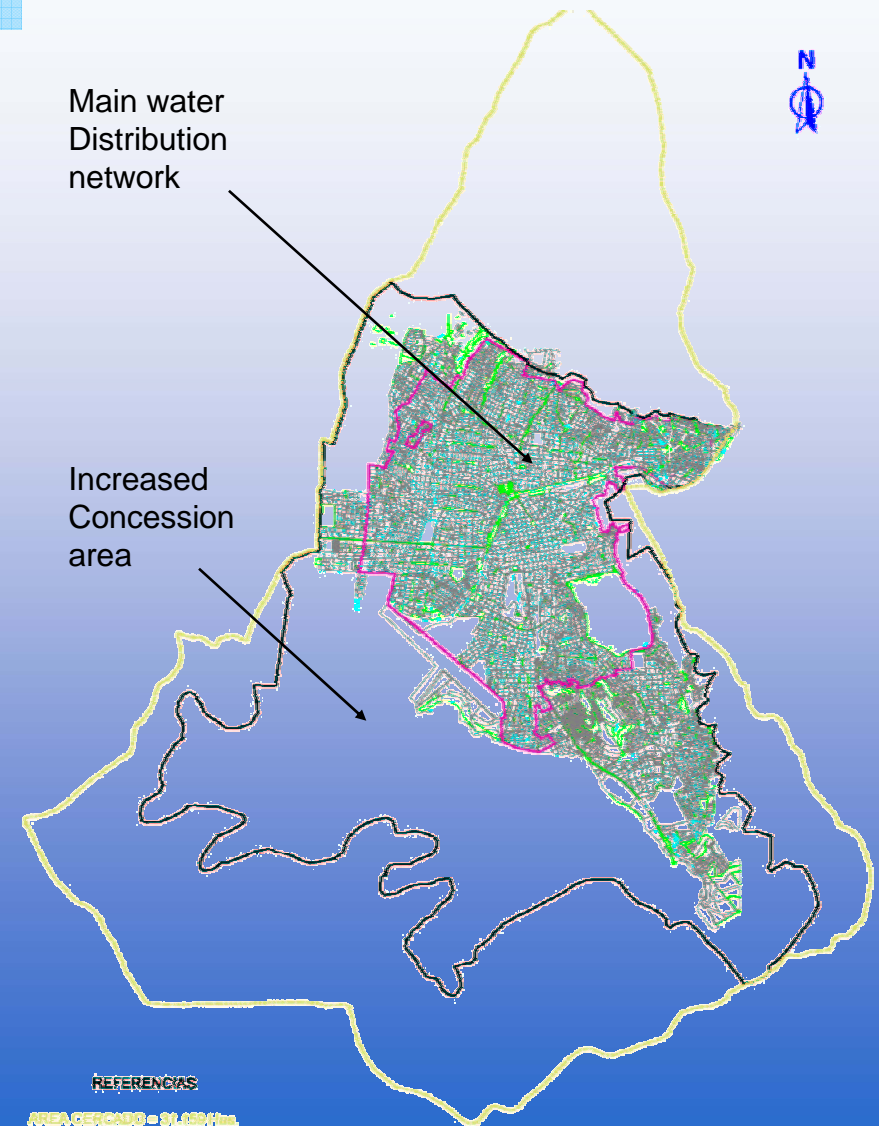
Water for all

For the suburban areas of Cochabamba - Bolivia

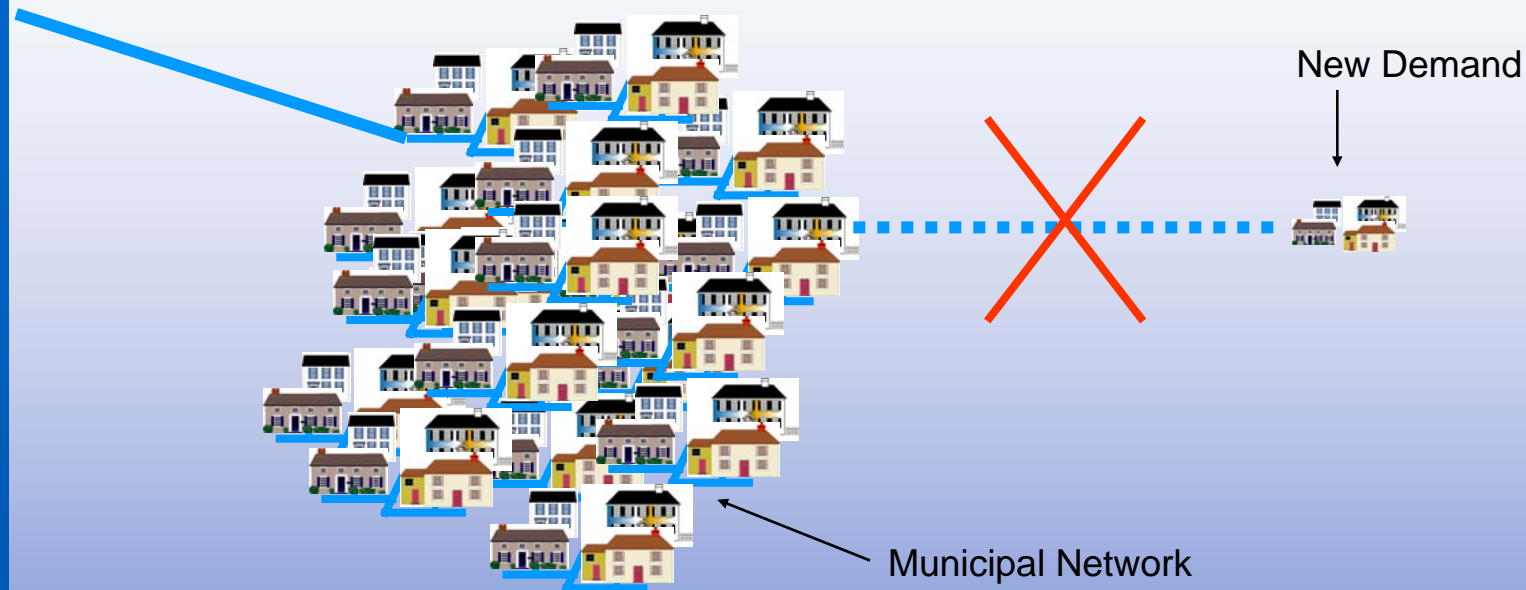
Project leader:
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<http://aquatuya.com>

Context information

- Cochabamba city (Bolivia)
- 600,000 inhabitants
- SEMAPA is the Municipal Utility
- Its concession area has been recently increased from 5,000 Has to 15,000 Has
- SEMAPA has very tough expansion goals to meet
- The expansion area is comprised of low income population that currently buy water from water trucks at very high prices (2.5 USD/cubic meter)



Centralized water system



- The city outskirts grow in a chaotic manner
- New neighborhoods in poor sub urban areas demand water
- It is not feasible for the Municipal System to expand its services in conventional ways due to:
 - Lack of investment capacity
 - Very low per-person water consumption in poor sub urban areas translates into impractical long times for investment pay off.

Organizing the demand



People in the neighborhoods get organized into water committees



Water committee #1



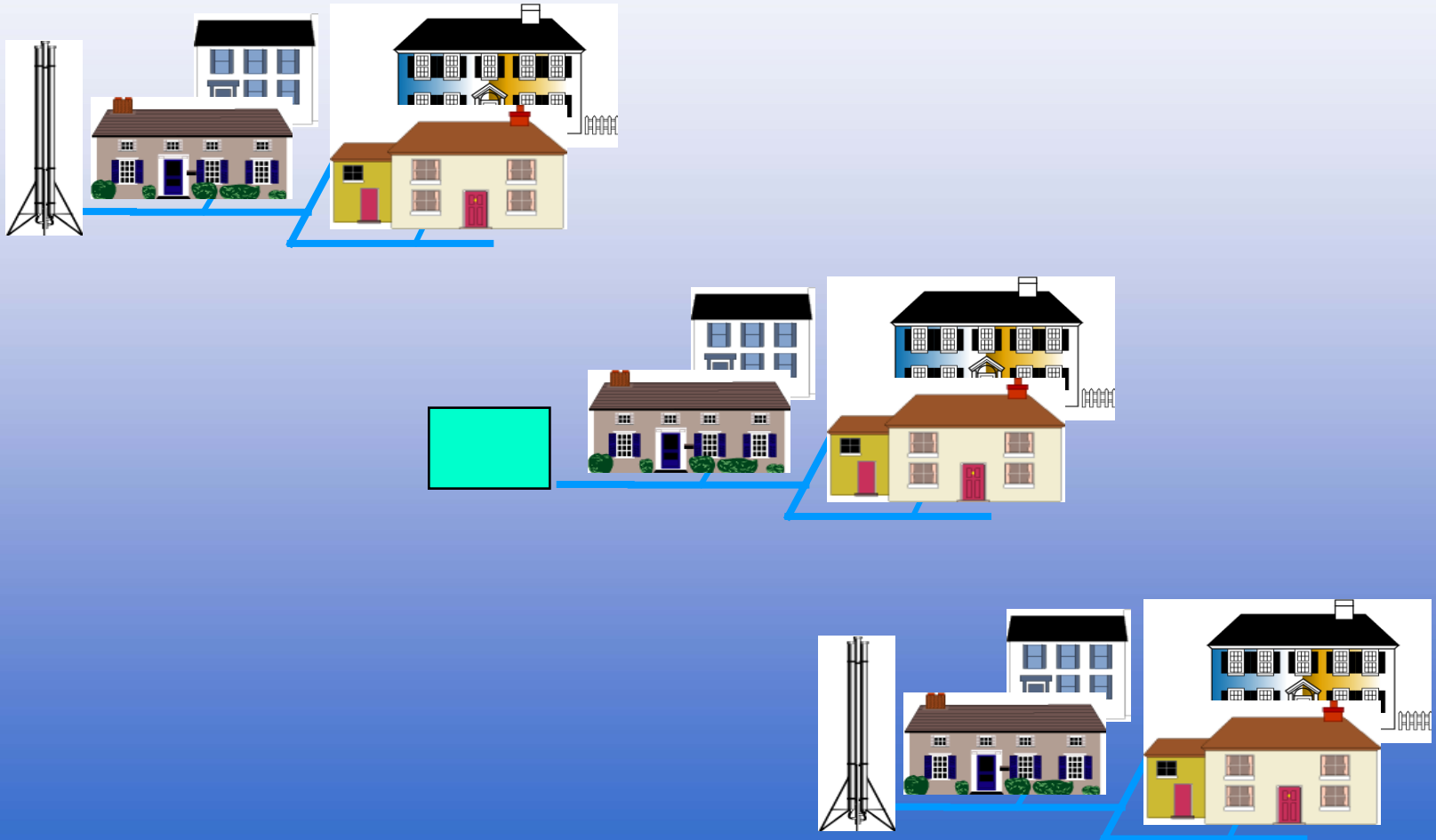
Water committee #2



Water committee #3

Organizing the demand

Independent decentralized systems are built for the water committees



Interconnection

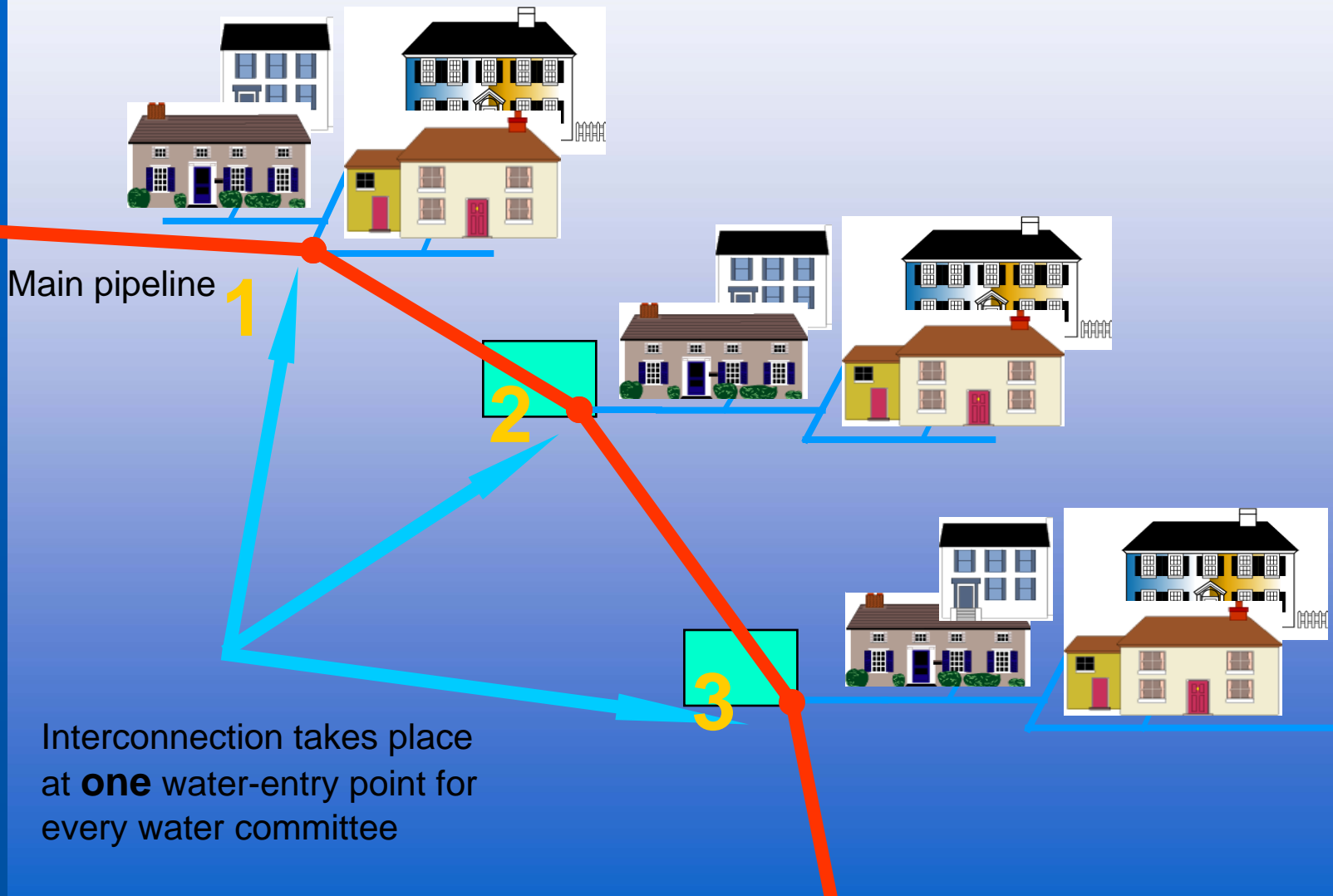


Now the interconnection between the centralized Municipal Systems and the water committees' sub-networks is feasible because:

- The demand is organized and ready to receive water from the Municipal System
- The Municipal Company knows where to direct its main pipelines
- The investment needed for sub-networks is already been made
- New neighborhoods in the sub urban areas demand water
- The Municipal company has to sign only one contract with each water committee

Interconnection

The municipal water system extends its main pipelines



Benefits for the users



Previous situation

- Users buy water from water trucks
- They store this water in metal barrels
- They do not have control on water quality
- Cost: 2.5 USD/cubic meter



Phase I of the project

- A water committee manages and distributes water
- Water is stored in a centralized tank
- Water can be treated (users have control on water quality)
- 24 hour service at home
- Cost: 1.25 USD/cubic meter

Phase II of the project

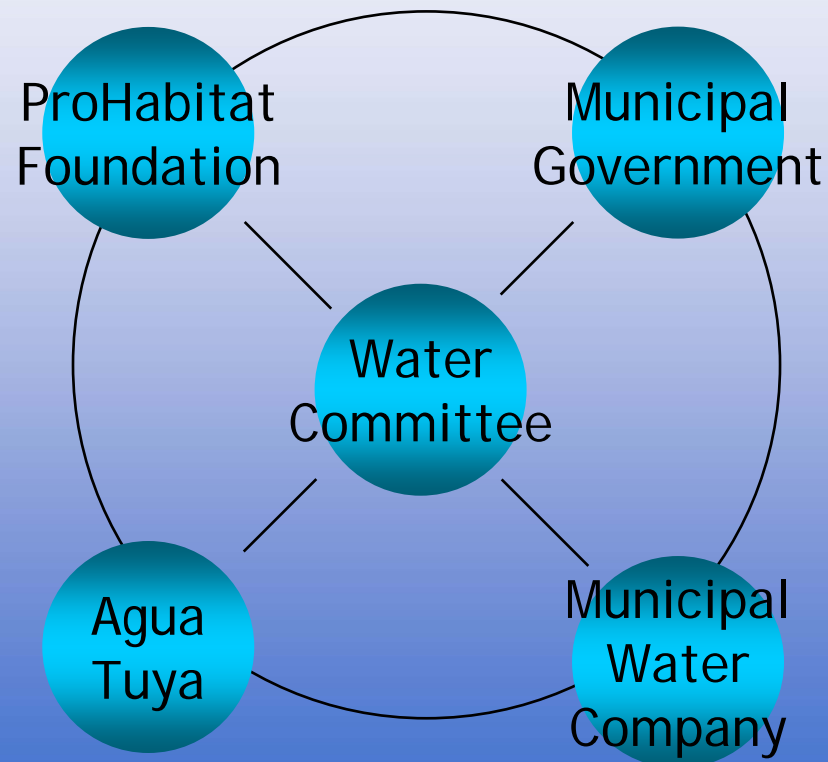
- Water committees are interconnected to the Municipal Utility.
- Water quality controlled controlled by the Municipal Utility
- Cost: 0.30 USD/cubic meters



The means



Multi sector approach (an innovative partnership)



The partnership



<u>Actor</u>	<u>Sector</u>	<u>Participation in partnership</u>
Water Committee	Community-based organization	Genuine demands. Investment capacity when credit available. Self organizing capacity.
Agua Tuya	Private water program	Technical expertise. Engineering design and civil construction. Technical and administrative training.
Pro Habitat	Not for profit foundation	Training. Educational programs. Organizational coaching. Micro credit.
SEMAPA	Municipal Water Utility	Technical supervision. Interconnection to main water system. Water provision.
HAM Cbba	Municipal Government	Government funds. Promotion of the model. Access to community.

Why a multi-sector approach (MSP)



- Innovative approaches to the challenges of sustainable development
- A range of mechanisms enabling each sector to share their own specific competencies and capacities in order to achieve both common and complementary goals more effectively, legitimately and sustainably than when each sector operates separately
- Access to more resources by drawing on the full range of technical, human, knowledge, physical and financial resources found within all sectors
- Dynamic new networks offering each sector better channels of engagement with the wider community and greater capacity to influence policy agenda
- Greater understanding of the value, values and attributes of each sector thereby building a more integrated and more stable society

Source:
The Partnering Toolkit
Written by Ross Tennyson

Pilot project: Barrios Unidos



Name:	"Barrios Unidos"
Total cost:	USD 19,000
Cost/household:	USD 175
Serves:	1000 People
Date:	12/20/2004

Pilot project: SPR

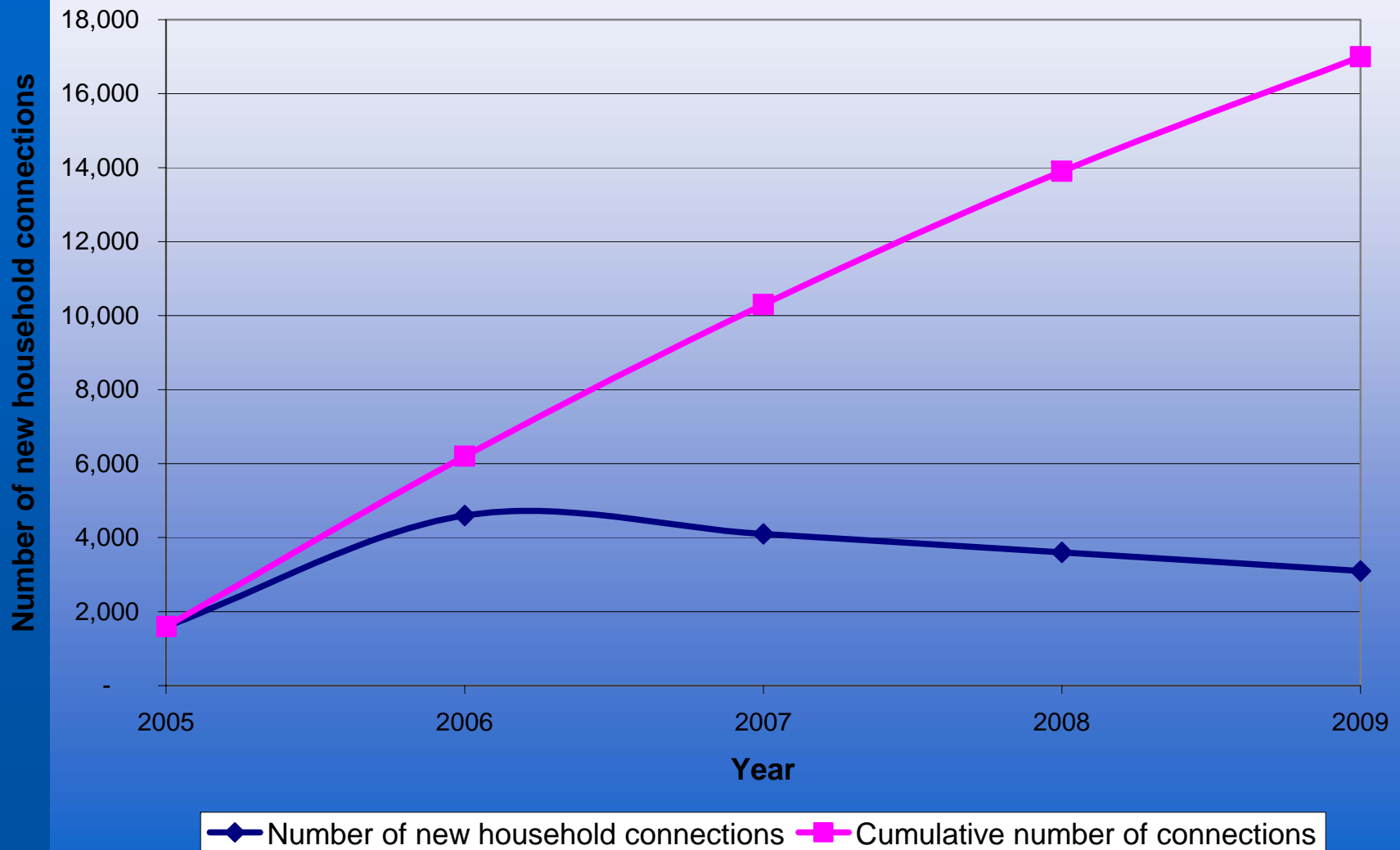


Name:	SPR
Total cost:	USD 18,000
Cost/household:	USD 180
Serves:	1500 people
Date :	2/10/2005

Projections



Projection 2005-2009



Investment plan



Year	2005	2006	2007	2008	2009	Totals	
Number of household connections	1,600	4,600	4,100	3,600	3,100	17,000	
Cumulative number of connections	1,600	6,200	10,300	13,900	17,000		
Investment details							
Total investment [USD]	304,000	874,000	779,000	684,000	589,000	3,230,000	(1)
Municipal investment [USD]	60,800	174,800	155,800	136,800	117,800	646,000	20%
Households investment in cash [USD]	76,000	218,500	194,750	171,000	147,250	807,500	25%
Pro Habitat credit to water committees [USD]	167,200	480,700	428,450	376,200	323,950	1,776,500	55%
Our financial requirements from the cooperation							
Required rotating fund [USD] (2)	167,200	313,500				480,700	15%
Training [USD] (3)	12,160	34,960	31,160	27,360	23,560	129,200	4%
Coordinating technical office [USD] (4)	60,000	12,000	12,000	12,000	12,000	108,000	3%

Notes

(1) Numbers in red represent the percentage of total investment

(2) To be returned to cooperation within six years

(3) Grant

(4) Grant

“Water for all” is a global winner!



The SEED initiative (PNUD, UNEP, others)

The Seed Initiative (Supporting Entrepreneurs in Environment and Development) aims to inspire, support and build the capacity of locally-driven entrepreneurial partnerships to contribute to the delivery of the Millennium Development Goals and the Johannesburg Plan of Implementation.

The SEED Awards

The Seed Awards are an international competition to find promising nascent entrepreneurial partnerships. The inaugural Seed finalists were selected from a pool of over 260 entries from 66 countries and represent 1,200 organizations. They were chosen for their potential to advance sustainable development in their communities and contribute to international development goals.

Please visit: <http://seedinit.org>





Thanks

*For more information, please visit: <http://aguatuya.com>
or write to: info@aguatuya.com*