

One Rotary. Working together toward clean drinking water in Bolivia

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presented to
Rotary Club of La Crosse, WI
September 7, 2017



We use water to

- Drink
- Wash and make food
- Wash our hands
- Flush our toilets
- Wash our clothes and cars and dogs
- Grow Gardens
- Sometimes we even swim in it!



But in the developing world

- Almost 800 million poor people do not have access to clean, dependable, or cheap water.

Bad water causes

- High death rate and poor nutrition among children
- High rate of diarrhea and other illnesses
- And still it is a large expense for the family



And toilets? (eg. improved sanitation facilities)

Its even worse...

2.5 billion people do not have access to what we would consider a normal toilet.

That's more than 8 x the population of the United States.



Without improved sanitation

- Use pits in the ground or worse yet...
- Open defecation – often at night
- Exposure to human excrement (poop) increases chances of disease... and it doesn't smell very good either.
- May not be safe for kids or women at night





Cochabamba Valley, Bolivia

- Bolivia is the 2nd poorest country in Western Hemisphere
- **Cochabamba** is Bolivia's third largest city and infrastructure cant keep up with the City's population boom due to migration from rural areas

1952:	80,000
1976:	200,000
2013:	1,000,000+
2020:	1,800,000 ?



Cochabamba, Bolivia

40 years ago, the valley was known for its lakes and streams and beauty. The city was a tourist destination.

But due to the closing of several mines in the 1970s the Bolivian economy crashed, and thousands of people started moving from rural areas to the city.

They built “squatter” villages outside the city on the dry and dusty outer ring.

No infrastructure was in place for water or sewers.

The growth of the “outer ring” populations continues to increase. Thousands of abandoned “street children”









Urban sanitation services vs. **Peri-urban** services

	# of homes	Population growth	Service level		Mortality rate
			Optimal/ acceptable	Deficient/ Inexistent	
Central districts 1,2,3,4,5,6,10,11 y 12	99,000	2.5%	88%	12%	53/1000
Peri urban districts 7,8,9,13 y 14	27,000	13%	22%	78%	95/1000

Fuente: CEDIB



Rotary International Areas of Focus:

 Peace and conflict prevention/resolution

 Disease prevention and treatment

 **Water and sanitation**

 Maternal and child health

 Basic education and literacy

 Economic and community development



Backtracking....how did folks from the Chippewa Valley get involved with the Cochabamba Valley in Bolivia?

- 1855, the Dorland's moved to Chippewa Falls.
- 1942 their great grandson Gordon Nicholas Fritz became a Maryknoll mission Catholic Priest and moved to Bolivia
- Another great grandson, and cousin – our Chippewa Falls Dentist David Crane worked on “Gordy” ‘s teeth when he’d come home to visit.
- 1984. Gordy talked David and Vicky in to visiting Bolivia. They visited the Maryknoll mission as well as several orphanages run by Sister Stephanie Murray, a tiny Catholic nun who had patched together Amenecer (Day break) to help thousands of children rescued from the streets.



How did we end up in Bolivia? continued

- **1986 - 1996** David and Vicky eventually set up 6 self-sustaining clinics with used equipment from the USA,
- **1996 – 2010** David continued to arrange annual missions from several other volunteer Dentists.
- David was also a member of the Chippewa Falls Rotary Club and invited members to visit Bolivia during his dental missions.
- In **2005**, during one of the visits, we learned that a Rotary Club from Alaska was sponsoring a “clean water project”. And we asked if the Chippewa Falls club could be involved. **We are now on our 4th Water Project!**



Chippewa Falls Rotary and the Rotary Tunari Club of Cochabamba have a 20+ year history together



Chippewa Valley Rotary Clubs recent involvement in Bolivia since 2005

- Every two years or so, some of our members take a trip to see how we can help. Cathy Statz and I have made 4 trips. Jim Barnier has made 3. David Crane 20+?
- 4 successful clean water projects
- Toilet demonstration project at a school
- Police on Bicycle program to reach street kids
- Playground equipment for a school
- Provided funding for a “wash your hands” program
- Bought a refrigerator for a burn unit.





Keys to Success: Community Work & Ownership



Our current water project

September 2012 – Mark Broses and Cathy Statz visited Cochabamba to identify the next project. Just prior, DG Rob Stroud told us to “go big.”

July 2013 mutual agreement between the:

- Rotary Club of Tunari Cochabamba -Bolivia,
- Rotary Club of Chippewa Falls,
- Agua Tuya, and the
- Community of **Tiquirani** in District 9

September 2013 - Agua Tuya visited Wisconsin (sponsored by Chippewa Falls Rotary Foundation). We stopped in LaCrosse too!

March 2016 - Chippewa Falls and Menomonie Clubs visit Bolivia

April 2017 – Inspector and Auditor from RI HQ in Evanston, IL visited the project and gave it a thumbs up! Project is complete...



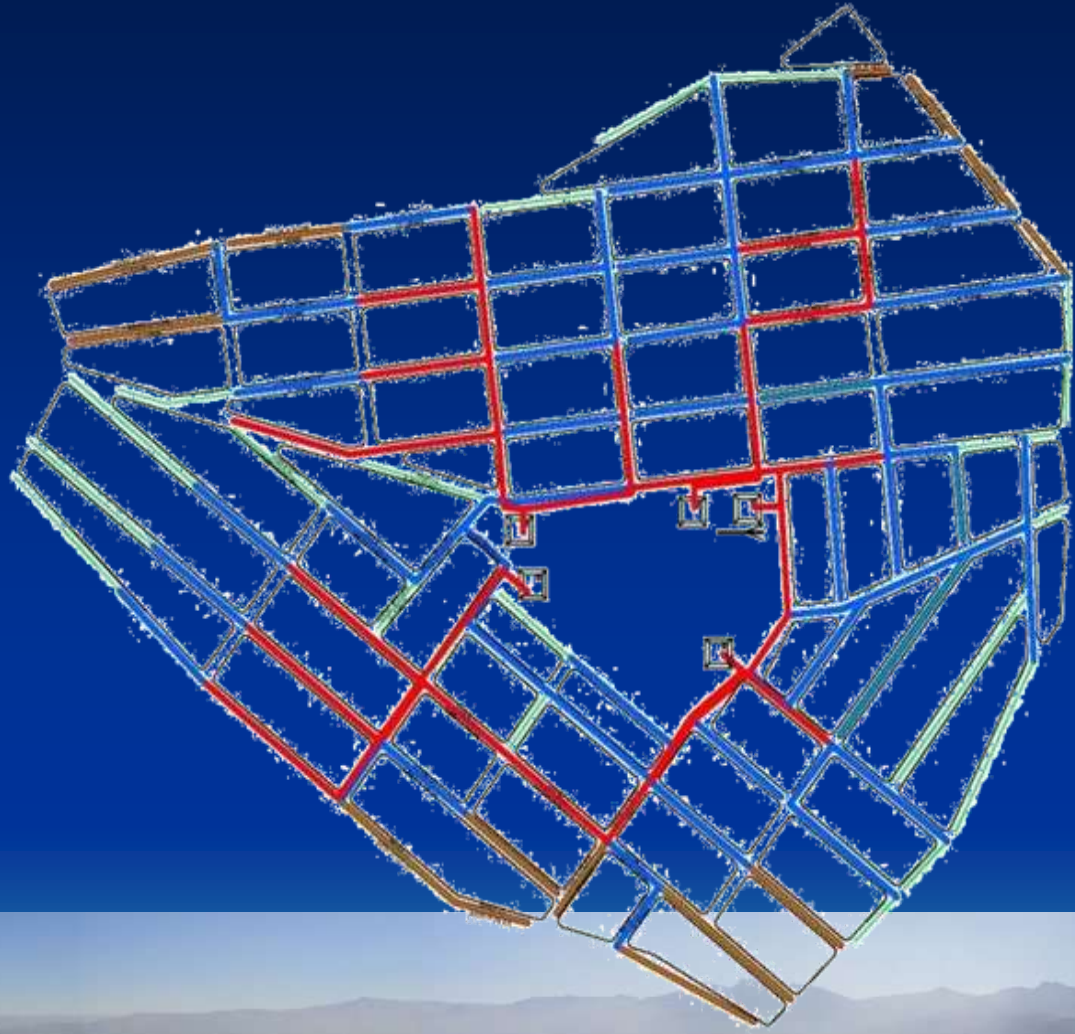


The project::

Phase 1 is Water Supply

- 5 Storage tanks (13,000 gal each)
- Pipe networks (about 8 miles)
- Taps in every home (900 taps initially)

- 5000+ people now. Up to 6500.

[illegible]

Project Name	Project Description	Project Status	Project Manager	Project Budget	Project Timeline
Project A	Project A Description	Project A Status	Project A Manager	Project A Budget	Project A Timeline
Project B	Project B Description	Project B Status	Project B Manager	Project B Budget	Project B Timeline
Project C	Project C Description	Project C Status	Project C Manager	Project C Budget	Project C Timeline
Project D	Project D Description	Project D Status	Project D Manager	Project D Budget	Project D Timeline
Project E	Project E Description	Project E Status	Project E Manager	Project E Budget	Project E Timeline
Project F	Project F Description	Project F Status	Project F Manager	Project F Budget	Project F Timeline
Project G	Project G Description	Project G Status	Project G Manager	Project G Budget	Project G Timeline
Project H	Project H Description	Project H Status	Project H Manager	Project H Budget	Project H Timeline
Project I	Project I Description	Project I Status	Project I Manager	Project I Budget	Project I Timeline
Project J	Project J Description	Project J Status	Project J Manager	Project J Budget	Project J Timeline
Project K	Project K Description	Project K Status	Project K Manager	Project K Budget	Project K Timeline
Project L	Project L Description	Project L Status	Project L Manager	Project L Budget	Project L Timeline
Project M	Project M Description	Project M Status	Project M Manager	Project M Budget	Project M Timeline
Project N	Project N Description	Project N Status	Project N Manager	Project N Budget	Project N Timeline
Project O	Project O Description	Project O Status	Project O Manager	Project O Budget	Project O Timeline
Project P	Project P Description	Project P Status	Project P Manager	Project P Budget	Project P Timeline
Project Q	Project Q Description	Project Q Status	Project Q Manager	Project Q Budget	Project Q Timeline
Project R	Project R Description	Project R Status	Project R Manager	Project R Budget	Project R Timeline
Project S	Project S Description	Project S Status	Project S Manager	Project S Budget	Project S Timeline
Project T	Project T Description	Project T Status	Project T Manager	Project T Budget	Project T Timeline
Project U	Project U Description	Project U Status	Project U Manager	Project U Budget	Project U Timeline
Project V	Project V Description	Project V Status	Project V Manager	Project V Budget	Project V Timeline
Project W	Project W Description	Project W Status	Project W Manager	Project W Budget	Project W Timeline
Project X	Project X Description	Project X Status	Project X Manager	Project X Budget	Project X Timeline
Project Y	Project Y Description	Project Y Status	Project Y Manager	Project Y Budget	Project Y Timeline
Project Z	Project Z Description	Project Z Status	Project Z Manager	Project Z Budget	Project Z Timeline



Image © 2013 DigitalGlobe

© 2013 Google

Google earth

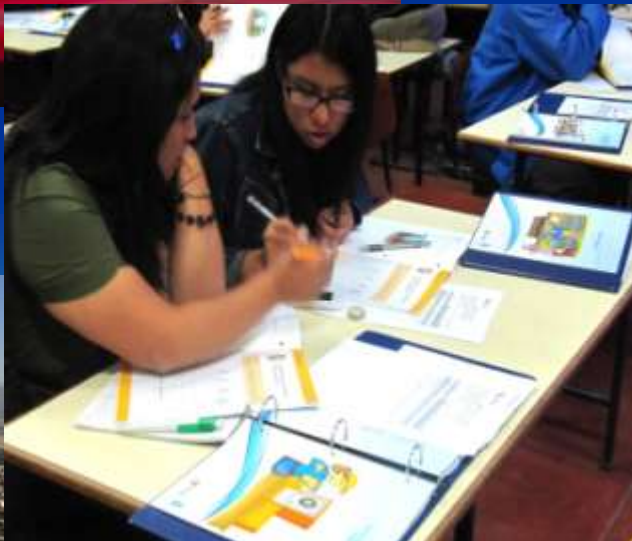
1970

Imagery Date: 3/11/2013 17°27'52.21" S 66°08'04.35" W elev 2643 m eye alt 4.43 km

Administration & Service provision for long term sustainability

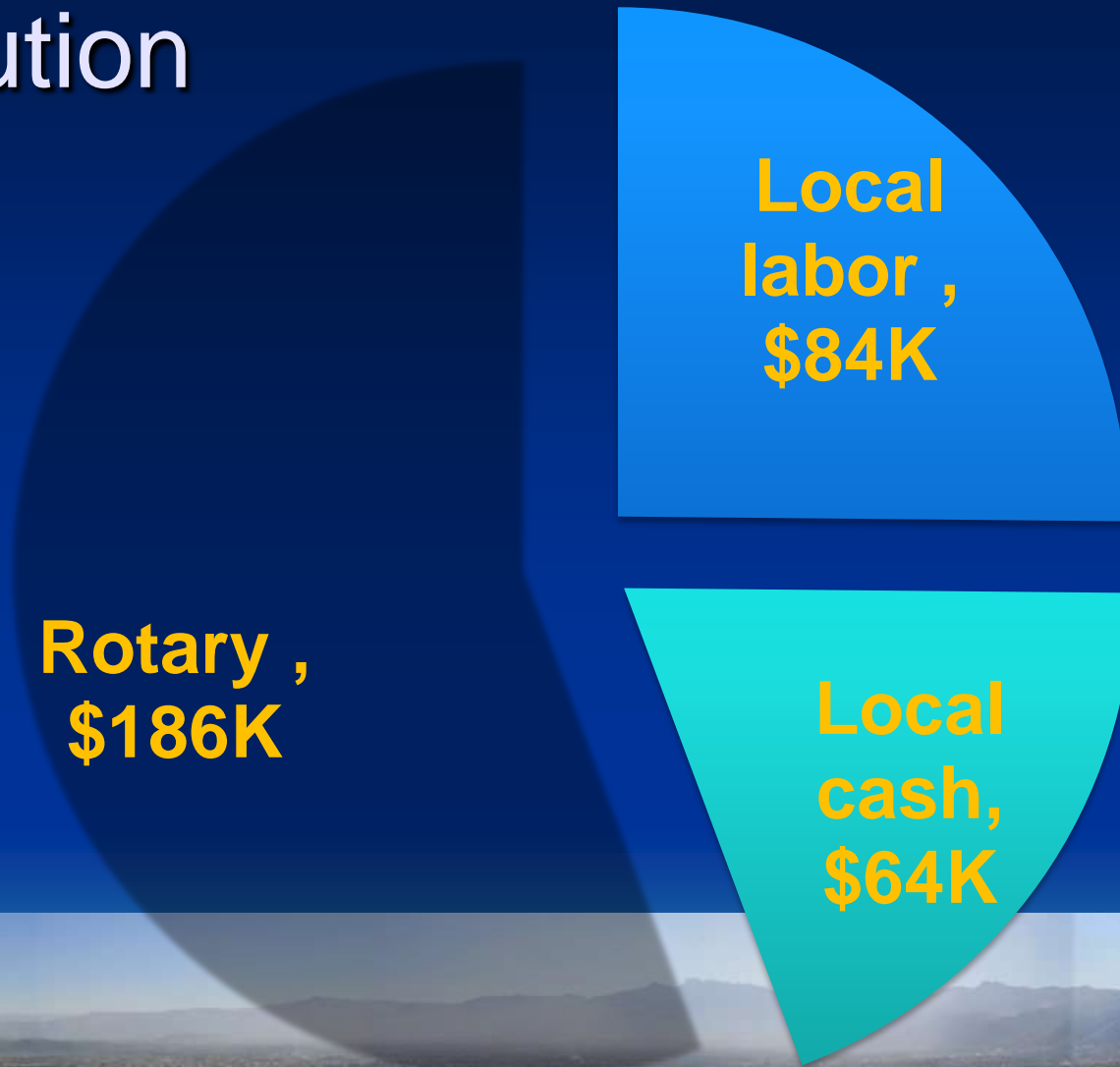


- Co-op
- Training
- Usage fees
- O&M
- Support



Water Project - Item description	Cost [thousands \$ USD]
Initial activities and project set up	7
Trench digging and covering	81
Piped network installation	57
Household hook-ups, meters and taps	120
Water storage tanks	26
Pumping station	7
Community development	7
Project monitoring, supervision, assistance and overhead	30
Total	335

Investment distribution



Tactics toward Fundraising

- Presented to other Rotary clubs, service groups, friends & employers.
- Direct appeals to individual Rotarians – local PH point match
- Publicity (newspaper, Facebook, websites)
- Tip Jars at SpringFest
- District and Global Grant matches
- We are now planning for Phase 2 – the Wastewater project (will likely be double the \$) ... or maybe another water project.



Local Fundraising Schedule

- Phase 1: Water Supply (Goal of \$53K local cash was met in April 2014). Thank you to the Menomonie & Eau Claire Wisconsin Rotary clubs who have also made large \$\$\$\$ commitments. and Rotary Ketchikan Alaska (who started us down this path 10+ years ago).
- In July 2014, we applied for 3.5X District and Global matches to get to \$186K.
- RI approved in July 2015.
- Complete April 2017 and passed RI Audit & Inspection







If I click on this, it should have more photos to show....

REPORTE FOTOGRÁFICO
ACTIVIDADES PRELIMINARES SAP TIQUIRANI
(del 10 al 21 de agosto 2015)

REPLANTEO



Con participación de Dirigentes y técnicos de AGUATUYA

March 2016 trip

















April 2017 RI Inspector and Auditor visit to site from RI HQ



What's Next?

- Confirming grant paperwork closed.
- Currently Raising \$ for next project
- Working with Rotary Tunari and Agua Tuya to pinpoint next Water project
- March 2018 visit - want to join us?





Thank you.



ENGAGE
ROTARY



CHANGE
LIVES

For more information please contact :
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