About us
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Helping to improve people’s quality of life has been the mission of Rotoplas for more than three decades.

Therefore, day-to-day, we focus on creating solutions that facilitate in getting more and better water.
02
Water situation
Over 3/4 of the planet is water.
1,100 Million people AROUND THE WORLD have no access to potable water

2,600 Million people around the world HAVE NO ACCESS to sanitation services
Factors that influence the accessibility of water:

- 1,100 Million people have no access to potable water
- 2,600 Million people around the world have no access to sanitation services
- Climate changes
- Pollution
- Population growth
- Lack of infrastructure
- Water use
Factors that influence the accessibility of water. It is essential to make significant investments to ensure the future supply of a growing world population.

- Climate change
- Pollution
- Population growth
- Lack of infrastructure
- Water use
Water

A problem with a solution

Water is the single indispensable element necessary to the well-being of all mankind and the preservation of the environment. Water is our future. It is our past. Water is essential. It ties us all together.

Water is a symbol of the importance of contributing to and improving the lifestyle of those who have no access to water and how relevant it is in the lives of those who have the privilege of having clean water available at any given time.
Brazil Without Misery
Brazil Without Misery is the government’s plan which coordinates the Social Action Ministry and fights hunger. Seeking to augment Agricola’s production, they started the Program Water for Everyone, benefiting 1 million families by installing Cistern Tanks and Rainwater Harvesting Systems giving access to water for daily drinking water and sanitation.
40 Million People in Latin America have no access to CLEAN DRINKING WATER.

120 Million lack access to sufficient water for sanitary purposes, i.e. toilets, showers, and sinks.
Rotoplas has installed more than 400,000 Rainwater Harvesting Systems and Storage Cisterns over the course of 3 Years.
1. Storage Tank
2. Gutter
3. Basic Filter

Helping those in:
• Extreme poverty
• Extreme drought
“The people here at home only have three buckets and they cannot get much water at all. Every day they have to walk and carry water home. The difficulty to get water is very great anywhere you go here.”

“Water is a serious challenge here. It is endless sorrow. We have to buy some water every week to drink. That's IF you have money. To bathe and do things at home, you have to go down the mountainside for water from the river. Only those who live here can understand our suffering”
“We now have a cistern of our own, where we can keep water and feel at peace, even though every year that passes the drought worsens. Before, everyone had to go out there with a can of water on their heads and now things are changing and for the better, thank God. “

“I used to capture water each day in a bottle of soda. (When it rained) I could see that world of water falling and I could not hold any of it. Now, thank God, the suffering is over."
When you have had to struggle for water, it is a **LIFE-CHANGING** experience to have access.

**This project required coordination between manufacturer, installer, contractor, and of course the government.**

The government fills a critical function -- making sure the proper people receive the help they need.
Government partnerships
The Challenge in America
Water Abundancy in the United States
BUT Not everyone Has Access to Water

63 million people — nearly a fifth of the United States — were exposed to potentially unsafe water more than once during the past decade.

* Industrial dumping
* Water plant and Pipe deterioration
* Farming pollution
Water is not as affordable as it used to be:

For 14 Million US households with income of $32,000 or less, or 12% of homes, water bills are too expensive. (EPA recommends less than 4.5% of income)

Water prices will have to increase by 41 percent in the next five years to cover the costs of replacing aging water infrastructure.

Due to rising costs, water will soon be too expensive for 41M families, or any family with an income of $42,500 or less.
101 Gallons Per Person: Average Daily Consumption

45 Gallons Per Day – Clothes + Toilets

2.58 People/Family

116 Daily Gallons/Family – Clothes + Toilets

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Consumption Data on Various Household Appliances in Gallons

- **Bath Tub**: 36 gallons
- **Toilet**: 24 gallons
- **Washing Machine**: 21 gallons
- **Shower**: 20 gallons
- **Dishwasher**: 10 gallons
- **Hygiene**: 5 gallons
- **Drinking Water**: 1 gallon

* Average number used
1/3 Of Americans are At Risk of Being Unable to Pay their Water Bill by 2021

- 41 Million Homes
- 60% Single Family Detached Dwelling
- 70% Own a Washing Machine

- 17.2M Homes w/washer
- 6-10M Homes w/Regular Precip.
- 1500 Sq. Ft. Roof Avg
Atlanta, GA:

• Rains 10 Days/Month
• 3.9 Inches Average
• Average Roof of 1500 Sq. Ft
• Collection = 115 Gal/Day

• Annual Water Savings of 45%
Rainwater Harvesting Opportunities By City

Washington, D.C.:

- Rains 9 Days/Month
- 3.4 Inches Average
- Average Roof of 1500 Sq. Ft
- Collection = 102 Gal/Day

- Annual Water Savings of 39.6%
Rainwater Harvesting Opportunities By City

Tampa, FL:

• Summer Rains = 7 Inches Avg
• Collection = 210 Gal/Day
  45% Savings

• 8 Months = 2.25 Inches Avg
• Collection = 67.5 Gal/Day
  26% Savings

• Annual Water Savings of 33%
Community Savings:

- Lower Pressure on Municipal Facilities to Deliver Water
- Lower Energy Costs to Pump and Clean Water
- More Families With Plentiful Water
Rainwater Harvesting

• Reduces Reliance on Municipal Infrastructure

• Of 6M Potential Customers in the Southeast, which would be interested in a long term solution? And how do you find them?

• People in this income bracket are generally concerned about water TODAY, not water prices 5 years from TODAY.

• It is the lowest class, least likely to purchase this system, and most dependent on the government, who needs it most.
Rainwater Harvesting

• Government support is the only real solution.

• Installed cost (delivery and all) - should aim for below $2k/system
  • $12Bn project

• $1 Trillion (1,000 Billion) the government expects to expend in infrastructure upgrades in the next decade

• The Challenge to ARCSA – Design Basic System to Integrate with Washer and Toilets and Find Government Support
We foresee Rotoplas Group’s future with optimism. We look forward to working with ARCSA to develop the next generation of solution available to the American Family.

Thank you...

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