

Water stewardship in the cement sector

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Simonette, Haiti

Agenda

Why water stewardship?

Case of study

What's next?

Who we are?

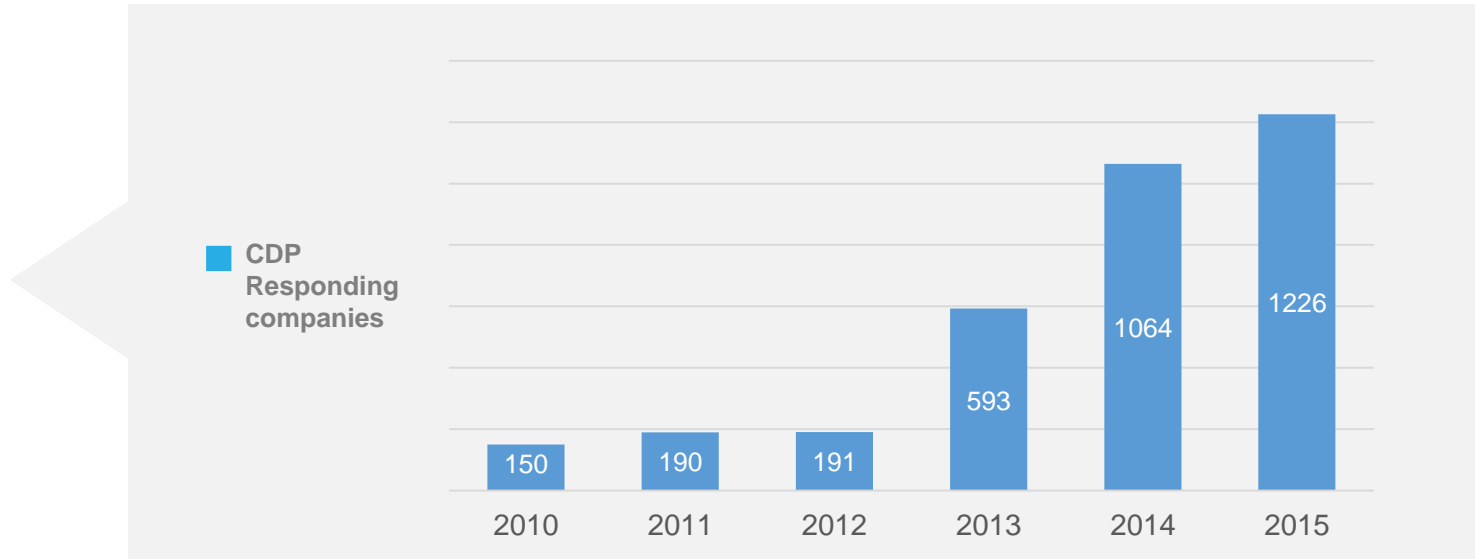
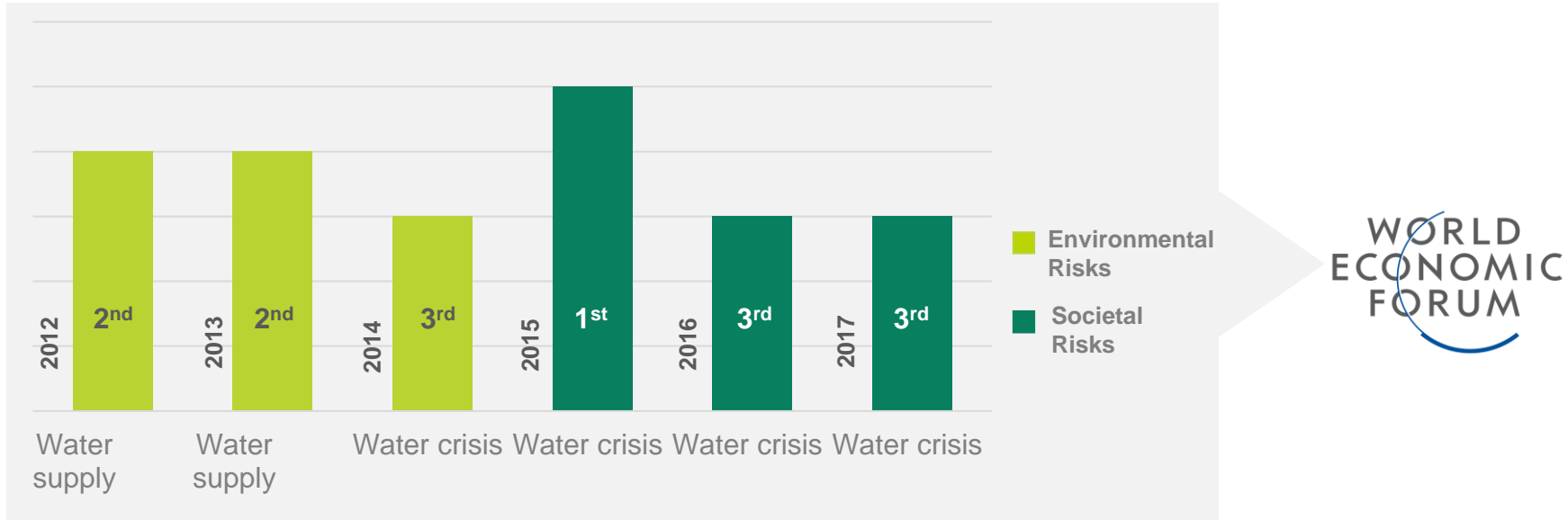


Argos is a cement, concrete and aggregates producer headquartered in Colombia and with operations across the country, Central America, the Caribbean region and United States

Why water stewardship?



Top 3 water risks in terms of impact



Why water stewardship?

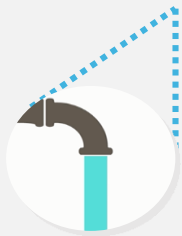
Proper water stewardship means taking care of a resource that does not belong to us and is needed for the daily life of neighboring communities and our operations. By carefully taking care of this resource, **we ensure long-term business viability and availability for stakeholders near our operations.**

Our goals:

Water (L/t cement)



Water (L/m³ concrete)

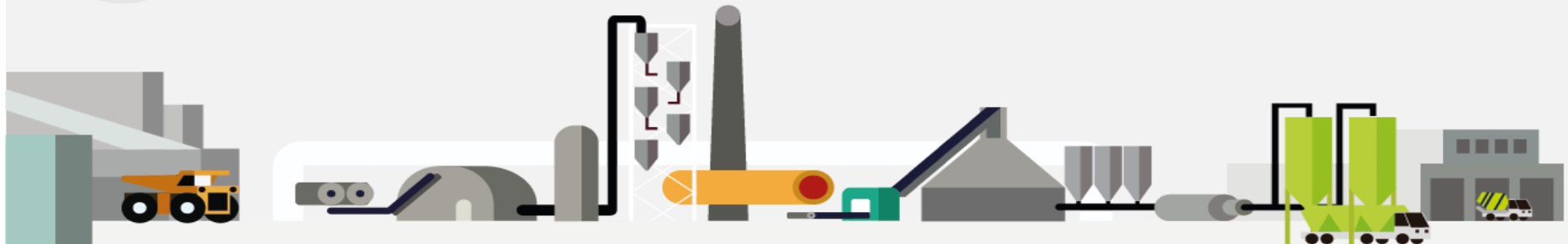


Consumption reduction:

- Measurements
- Reduction plans

Water risk management

- Through the identification, evaluation and management of such risks.



Case of study



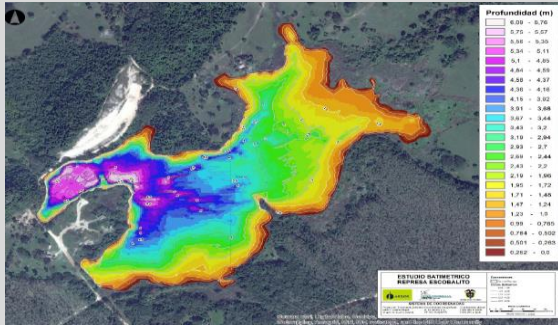
Suizagua Tolviejo, Colombia



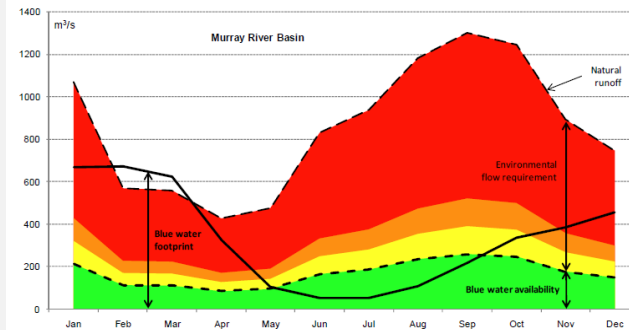
Objectives:

- Measure and reduce the water footprint
- Promote the responsible use of water in surrounding communities
- Support the dissemination of the concept of water footprint

Case of study - Do we really are expose to water risks?



Dam capacity
1,000,000 m³



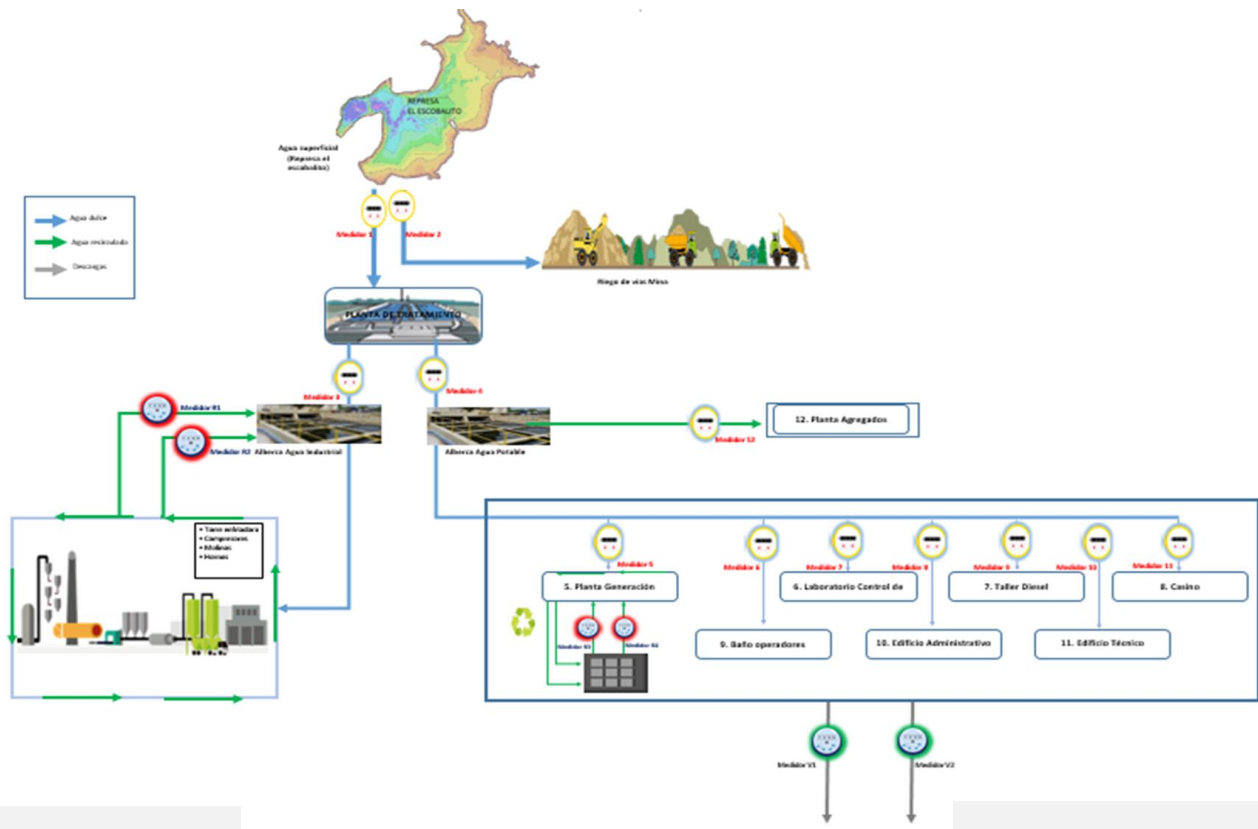
Water availability
224,000 m³



Average water withdrawal
300,000 m³



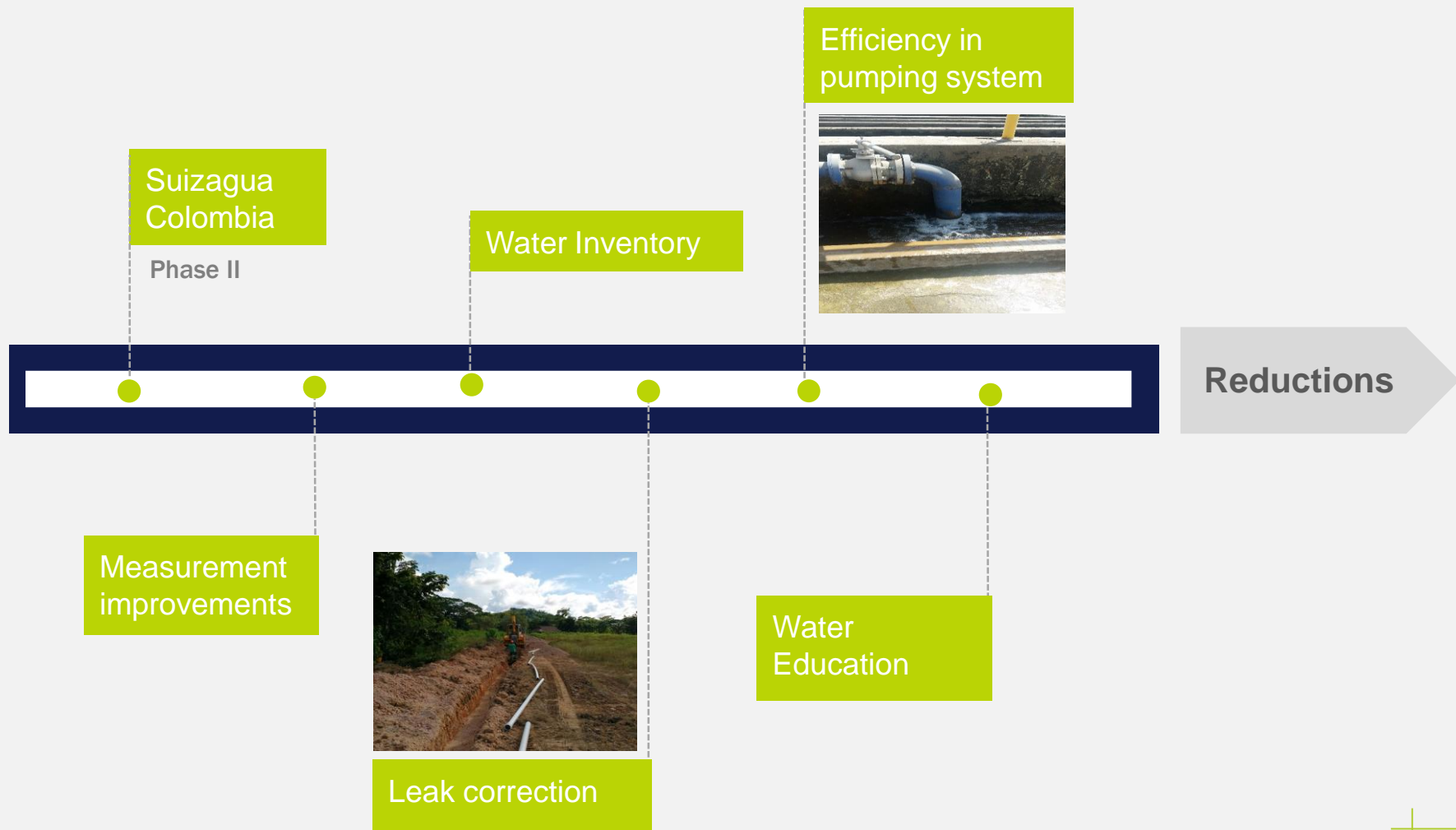
Case of study - Cleaning out the house



¿Measurements?



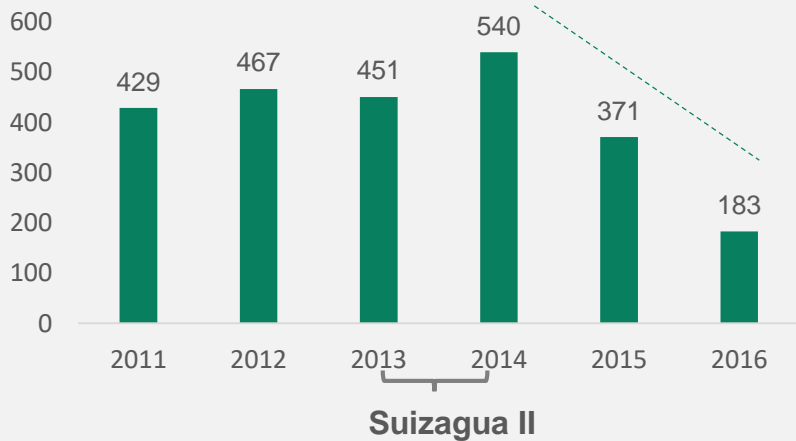
Case of study – Evolution timeline



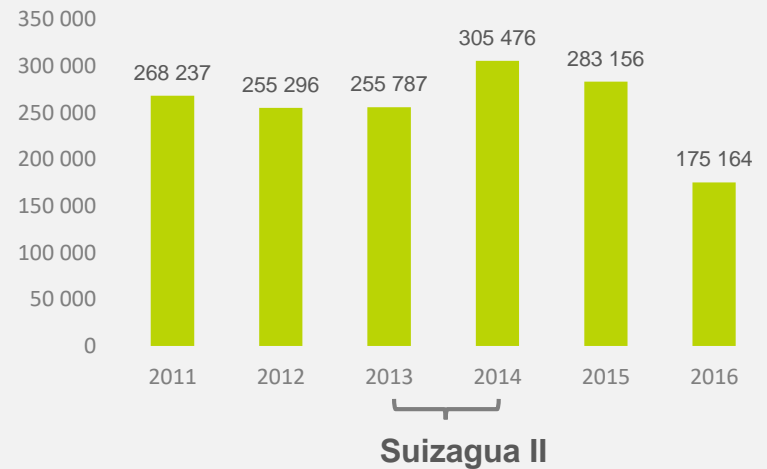
Case of study - Reductions



Specific water consumption l/t cement (Blue water footprint)



Water Withdrawal m³



How to make water risks visible?

How to go beyond an environmental issue?

Water issues should be monetized

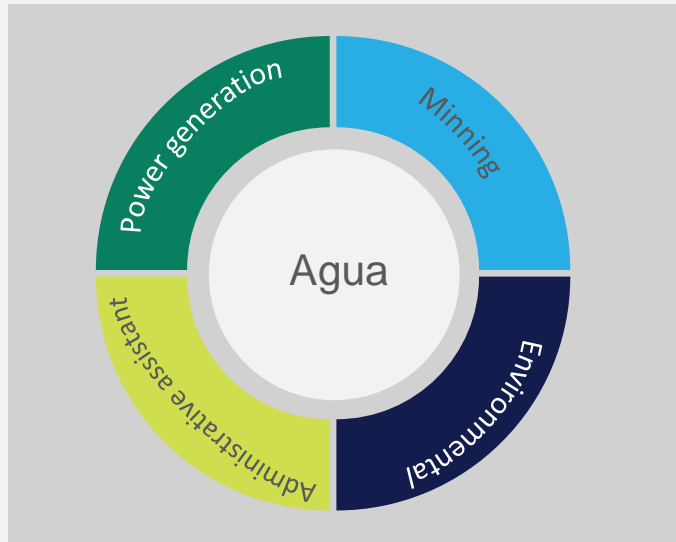
Water must be recognized as an economic good. Otherwise it has led us to misuse this resource.

Water management as an economic good is a way to achieve efficient use and promote its conservation.



United Nations 1992 principle No.4

Case of study – Water Economic Valuation

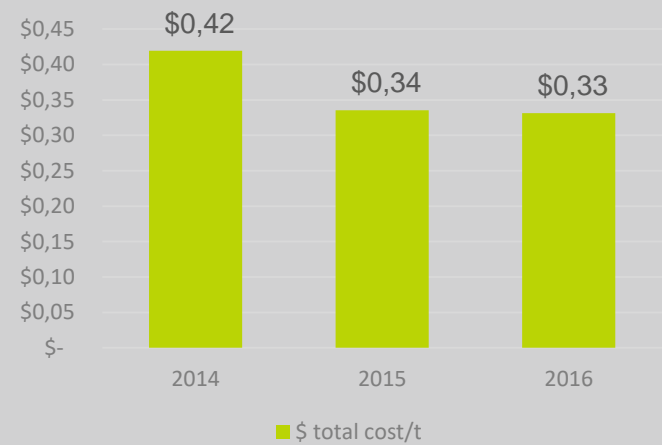
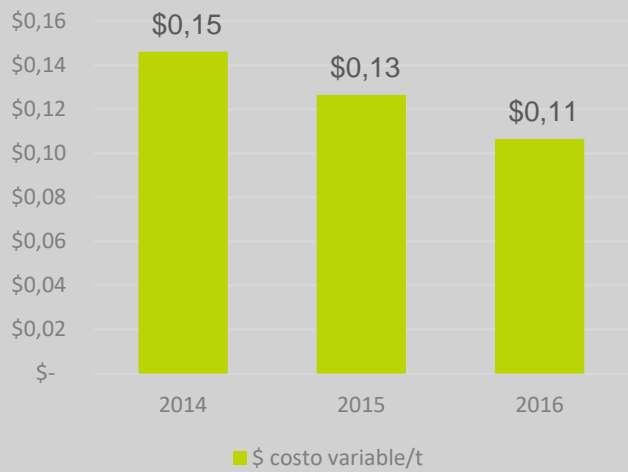


| | |
|------|------------|
| 2014 | USD \$0,23 |
| 2015 | USD \$0,30 |
| 2016 | USD \$0,35 |

In 2016 the withdrawn water was 108,138 m³ less than the previous year which means savings of USD \$32,000

Almost 3 times the original investment

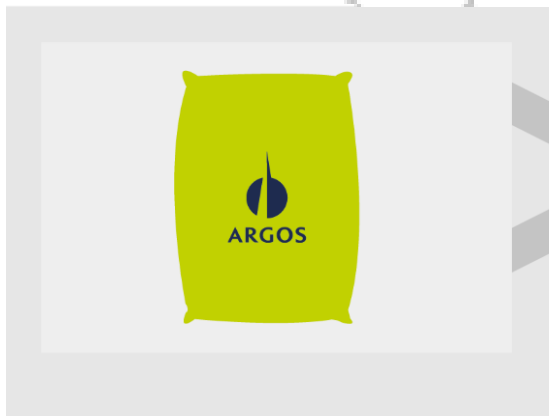
Case of study - True cost of water



What is next?



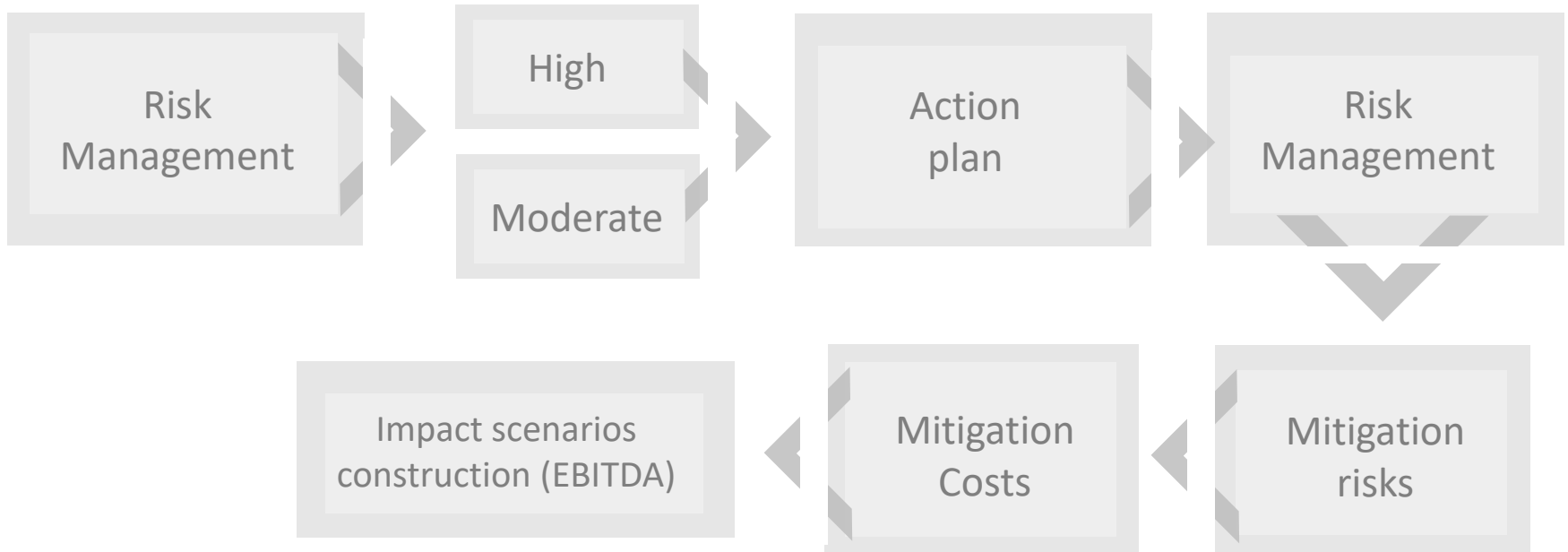
Suizagua III Colombia




Quantis



What is next?



The background of the image is a lush green forest with a river flowing through it. The water is a vibrant green color, reflecting the surrounding foliage. The trees are dense and their leaves are in various shades of green. A semi-transparent dark grey rectangular box is overlaid on the center of the image, containing white text. The text is centered and reads: "Through our water management strategy, we contribute to preserve the quantity, quality, and availability of this valuable resource for the ecosystem as well as neighboring communities." The text is in a clean, white, sans-serif font.

Through our water management strategy, we contribute to preserve the quantity, quality, and availability of this valuable resource for the ecosystem as well as neighboring communities.