

A public-private partnership implementing corporate water stewardship in Colombia, Peru, Chile, Brasil and Mexico

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Advance in corporate water stewardship

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ASSESS corporate Water Footprint and Risks Identify hot-spots along the value chain

> **ENGAGE** with value chain stakeholders

ACT inside and outside the fence (collective watershed actions)

Integrate water in core **BUSINESS STRATEGY**

RESPONSIBLE CONSUMPTION AND PRODUCTION

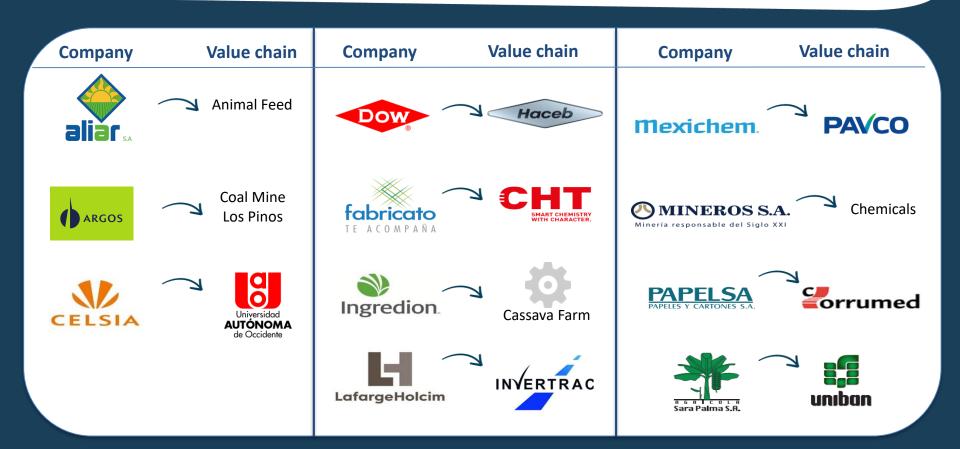
CLEAN WATER

AND SANITATION



Engage along the value chain

15+ companies work together with their suppliers and/or costumers on water actions



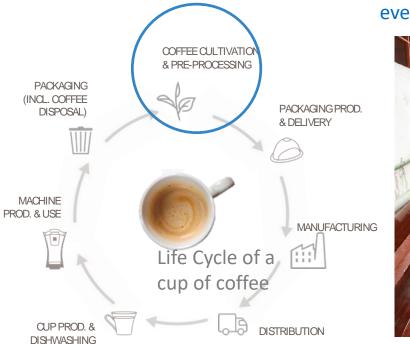


+ **Beyond water:** Assess also other environmental aspects (climate, etc.)

Engage with value chain: Colcafe and De Los Andes Cooperative joint efforts to invest in a centrilized De-pulping facitility, to enhance the sustainability in the value chain

Value chain actions – focus

HOT SPOT (among others) water withdrawal and pollution Based on water footprinting (ISO 14046) and water risk assessment



Pulp is a solid waste that requires a proper composting process in every farm. Often is left in the field.



- •Coffee growing generates more than 800.000 jobs in Colombia (typically small-holders)
- •Coffee plantations are generally not irrigated.
- Most smallholders have their own depulping plant (mainly wet process), which is typically not very efficient and water is not treated (40 m3/ton dpc and High organic matter in the wastewater)

Value chain actions – propose change



Roast ,Ground, Soluble and Extract Coffee Producer 23.000 Ton/year

PROPOSITION

CENTRALIZED DE-PULPING



DRIVERS

- Engage with Farmers
- Enhance sustainability in value chain hot spot.
- Increase income and cash flow for farmers
- Less investment in small farm de-pulping upgrading
- Increase coffee quality
- Increase productivity, less rejects

Value chain actions - implement

Actions

ESTABLISH ASSOCIATION

delos Andes Cooperativa

3500 ASSOCIATES wich 1080 are women and 233 are head of family

- Coffee Grower Average age:55 yr
- Average farm: 2,7 Ha
- De los Andes and Colcafe pays an extra fee 14USD/ 125 Kg cherry coffee.
- Before: **45 days to get income** of harvest
- Now: 1 day to get paid after harvest

BUILD FACILITY

- Attends 612 families
- Capacity 750 Ton dpc
- Coffee Cisco for drying
- 4 rotative dryers +1 static dryer using coffee chaft as biofuel.

INTERMEDIATE RESULTS (water related)

- ✓ 79% reduction on de-pulping water use
 from 30 m3/t to 6,3 m3/t dpc
- ✓ Treatment of 37.680 m³ wastewater /year
- ✓ Expected reduction of at least 11,500 mg/L in the COD.
- \checkmark Coal for drying was elimiminated
- ✓ Farmers cost reduced at 80USD/t dpc
- Farmers have more time because they don't have to de-pulp and wash the coffee.
- ✓ Colcafe expect to achieve savings equivalent to USD 147,138.56 in 2017 and USD 166,666.67 in 2018 in income taxes.

Value chain actions – share it with the community

