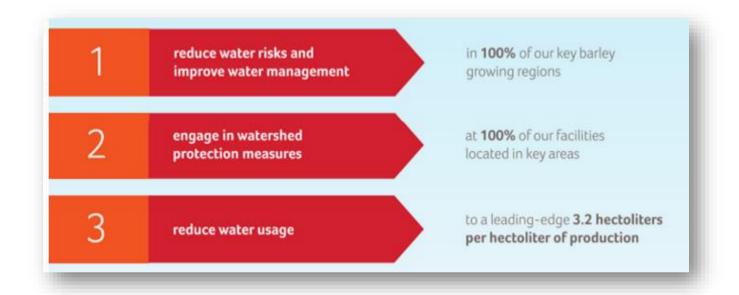


Context-Based Approaches and the Jag Bacias Project

2017 Environmental Goals

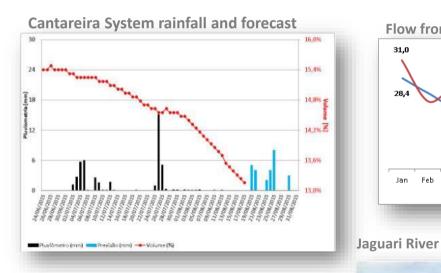


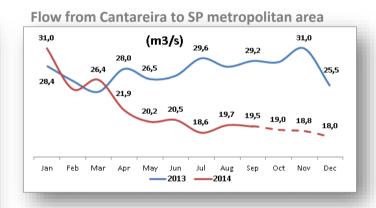


São Paulo Water Crisis

Sediment-filled pools in the Cantareira System (which accounts for 45% of SP water supply and provides water to 9million people in the Sao Paulo metropolitan area) is nearing dead volume limit

- State-run water utility is reviewing water allocations
- Cannot ask for additional water permit if production needs go up and rely on improved efficiency to manage capacity needs.











Bacias (Basin) Project methodology and approach

2014 - Development Phase

2015 - Implementation Phase

Local Partners

Socio-env. **Mapping**

Assessments

Business Plan

Legal framework

PES Model: Encourage environmentally

responsible land management and the

Implementation plan

- Stakeholders mapping
- Local

Management Unit (partners

- Surveys (population, farmers)

- Degraded areas
- Water Balance
- WASH
- coalition) creation Forest fire risks
 - Sedimentation and erosion rate
 - Waste disposal
 - Land and soil use

- Priority actions and pilot area selection
- Hydrological monitoring plan
- Local synergies
- Funding and leverage resources opportunities
- Expected outcomes

conservation of natural resources in order to prevent erosion and sediments Context-based approach

driven by PES model

Partners: TNC, WWF, Mayor's office, the Jaguariúna Bureau of the Environment, the Brazilian Agricultural Research Corporation, the Brazilian National Water Agency and

various watershed committees.



Jaguariúna Bacias Project





PHASE 2: Implementation

- Implementation of field actions
- Land owners selection and signon
- Rural properties executive Projects
- PES contracts signed
- Recovery and conservation initiatives
- Tracking impact and monitoring interventions



Objectives

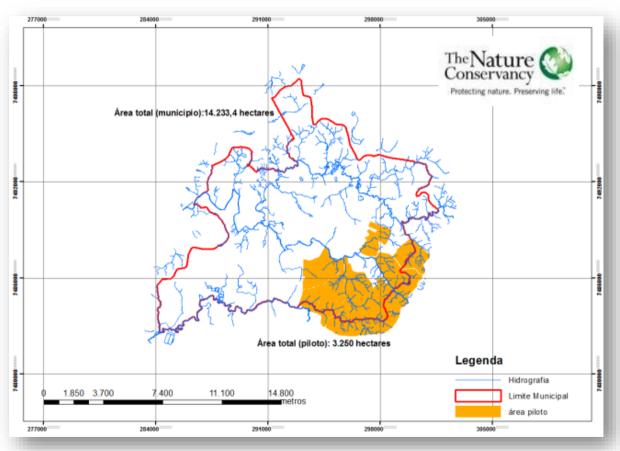
- Reduce the amount of sediments in the water catchment area
- Restore priority areas for water production
- Conserving forest fragments
- Improving soil conservation practices and roads
- Develop and implement a watershed management model based on the generation of environmental services



Jaguariúna Bacias Project



2015/2016 - PHASE 2 - IMPLEMENTATION



- Priority conservation area for pilot: 3.25ha
- 38 farms mapped
- 28 potential participants (land owners)
- Signed contracts with 5 farmers representing 1,000ha area
- 100ha of riparian forest to be recovered
- 120ha of forest to be preserved



Jaguariúna Bacias Project

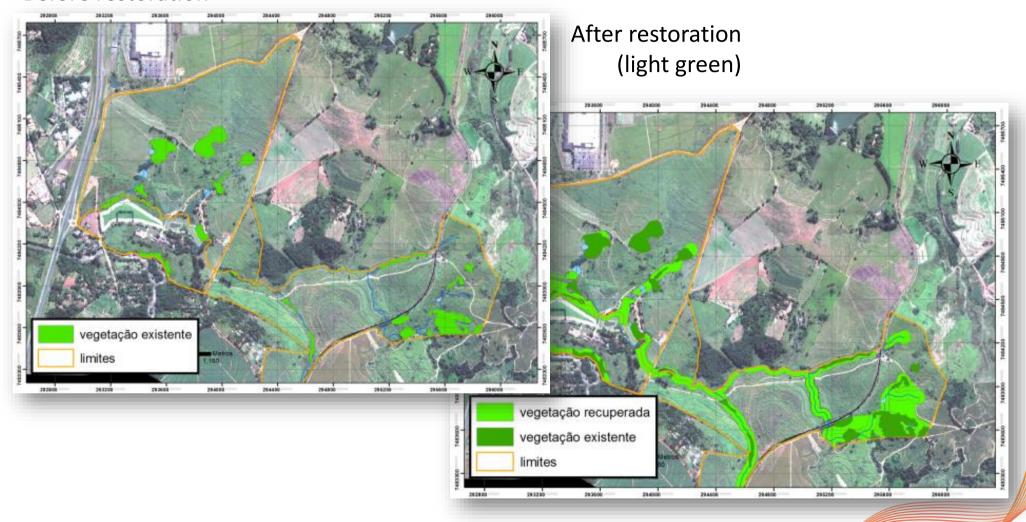


- Ecological restoration
 - Reforestation
 - Soil enrichment
 - Fencing
- Soil conservation practices:
 - Contour farming and terracing
 - Dams
 - Road and channel maintenance (abaulamento, canaletas, etc.)



Sample restoration simulation

Before restoration





Final thoughts on context-based target setting and SDG planning



- Great watershed work
- Technology/science is getting better
- SDGs can provide a common framework

- Crowded space but still fragmented
- SDG national plans still developing
- Alignment of these efforts with the SDGs to inform policy
- Rarely a clear endpoint
- Must remain pragmatic

Opportunities

- Bring the context-based approach to water access and ag management
- Guidance is evolving but important to identify where gaps exist and where you can make a difference and how you can mitigate risk
- Ultimate goal is to influence governance

