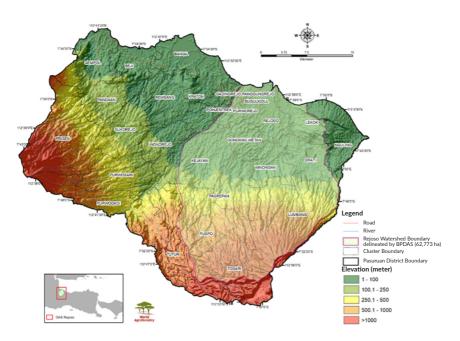


REJOSOKITA Save **Water**, Preserve Life

A multi-stakeholder collaboration for the preservation of the Rejoso Watershed in Pasuruan, East Java, Indonesia through research-based activities, such as land-conservation techniques, growing trees in agroforestry systems, sustainable-agricultural practices, efficient water use, community capacity building and institutional strengthening.

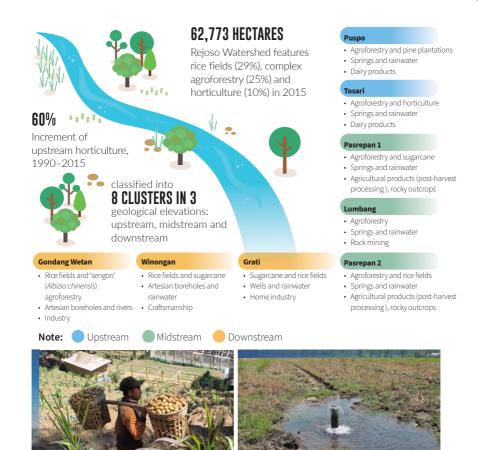
Rejoso Watershed



The Rejoso Watershed provides vital livelihoods for the communities in 16 subdistricts in the eastern part of Pasuruan District, East Java Province.

The watershed strategically functions as the source of clean water for Pasuruan City and its surrounding areas, such as Sidoarjo and Gresik districts, and Surabaya City; the latter the metropolitan capital of East Java and the second-largest such area in Indonesia.





Population growth and economic pressures are causing dramatic changes in the Rejoso Watershed. The most common environmental problems are floods, droughts, erosion and landslides.

Soil erosion occurs on sloping land on which farmers do not apply conservationagricultural techniques. Land-use changes are dominated by continuing conversion to horticulture and settlements. In the downstream, water availability for irrigation and domestic needs is threatened by excessive water boring, inefficient use of water, and lack of drilling regulation.

Research shows increasingly reduced underground water discharge, poorly maintained irrigation systems, pest attacks, and declining quality and quantity of agricultural yields.

Program

Piloting co-investment in ecosystem services' schemes



Conservation auctions for protecting water resources

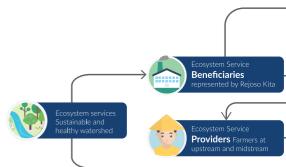
2016-2018

From 2016 to 2018, Gerakan Rejoso Kita conducted biophysical research to study the watershed in terms of its hydrological conditions, land-cover changes over time, and carbon-storage potential. A socioeconomic study was also carried out to learn about the communities in the watershed.

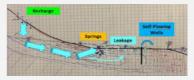
The results of the research served as guidelines to determine the programs to preserve Rejoso Watershed.

- Piloting payment for environmental services' schemes: upstream and midstream farmers are encouraged to grow more trees and to preserve existing trees on their land. For their efforts, farmers can receive financial rewards determined through a 'conservation auction'.
- 2. Facilitating the establishment of multistakeholder platforms and forums at appropriate jurisdiction levels to protect and preserve the watershed.

The payment for ecosystem serv



Research-based approach



The characteristics and conceptual models of the aquifer defined



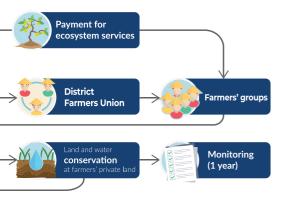
Negotiated changes in awareness, behaviour and co-investment in watershed protection



Carbon-stock baseline

5

vice scheme in Rejoso Watershed



Institutional strengthening



Establishment of multi-stakeholder platforms and forums



Institutional capacity strengthening



Behavioural changes, transformations and co-investment governance



106.6 HECTARE, 174 FARMERS, 12 groups, 7 villages

Sustainable agricultural practices in the mid- and up-streams

2019-2022

Gerakan Rejoso Kita will help downstream farmers to increase rice production through the application of climate-smart rice-cultivation technologies.

To address inefficient use of water, Rejoso Kita will introduce improved well-drilling techniques and increase community awareness of the importance of obtaining legal permits for drilling. The aim is to create more responsible use of water. Farming communities will be involved in supervising their members' use.

Rejoso Kita will help farming communities organize themselves to obtain the necessary capital to support their agricultural businesses.

Special efforts are also planned to improve the institutional capacity of multi-stakeholder platforms and forums at various jurisdiction levels, including through supporting planning and programs to better manage the watershed.

Impact

Upstream

An increase in the density of trees through agroforestry, leading to the reduction of sedimentation and improvement of infiltration of water into the soil

Midstream

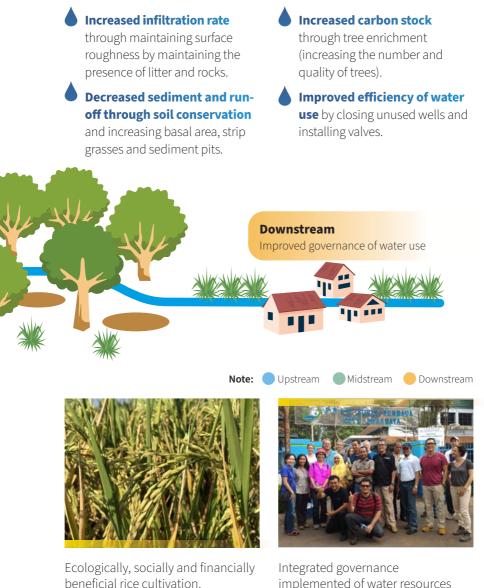
An increase in the density of trees through agroforestry, leading to the reduction of sedimentation and improvement of infiltration of water into the soil



Reduced gap in the water balance in Rejoso groundwater basin



Water as investment for catalysing behaviour-change towards water efficiency



implemented of water resources and watershed management.





www.worldagroforestry.org/project/rejosokita

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