



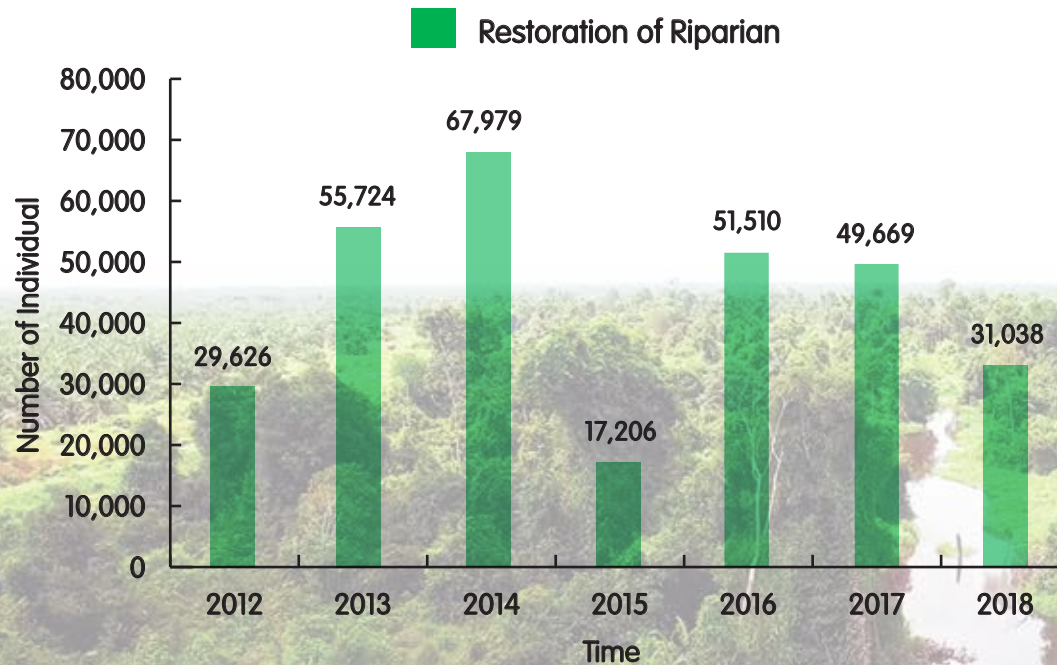
PT Astra Agro Lestari Tbk

Riparian Restoration Management



We focus our rehabilitation program on riparian ecosystem because it plays a key role for the continued survival of species by ensuring the availability of foods and habitats. We have initiated this program since many years ago.

Tree planting is the main activity in this program and the need of seeds for planting is determined by the size of planting area following replanting program.



Involvement of Student in the Planting Program

Until 2018, a total of **304,749** hard tree seedlings were planted in the essential ecosystem areas (among others: river banks and swamp)

The planting of beneficial plant species including shading trees, fruit trees, fire shielding plants so that rooted plants can efficiently prevent the erosion of the soil. The selection of these plants is based on various ecological aspects such as the plants native to the soil, local variety, and does not constitute an invasive species.

The implementation strategy of Astra Agro's rehabilitation activities is continuous and is conducted gradually throughout the year. We also conduct a review and update of data of past riparian rehabilitation efforts. The benefits of our rehabilitation efforts can be seen from our results on the measuring and documenting of the impact of the various bird species utilizing the sites following rehabilitation.

■ Restoration of riparian ecosystem in Astra Agro oil palm landscape (Indragiri Hulu Site)



25 June 2014



21 April 2016



3 November 2014



30 June 2015



25 June 2017

About 45.000 plant individuals have been planted for riparian restoration, including Gaharu (*Aquilaria malacensis*) appendix 2 CITES



24 April 2015



2 August 2018

Riparian Restoration Management



Riparian Restoration Result in Indragiri Hulu Site



Biodiversity Monitoring

The case study for the impact of river border rehabilitation was conducted at Indragiri Hulu, Riau, in collaboration with the Faculty of Mathematics and Natural Sciences at Riau State University. This study became the baseline data for observing the various species inhabiting the areas and the re-colonization process.

Riparian zones also provide food resources and nesting sites to support wildlife survival.



Bird's Nest



Lanius schach



Prinia familiaris



Amaurornis phoenicurus



Lonchura punctulata



Bird's Nest



Total bird species recorded during the monitoring were **28 species** from **19 families**. **(4 years after Planting)**



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