

ENVIRONMENT

According to a recent community assessment, the problems reported by the Pingtung Forest Management Office and the Rotary Club of Pingtung are as follows:

Leucaena is a powerful invasive species. 5,491 hectares of Leucaena pure forest has spread in the Pingtung area of southern Taiwan, which isolates the shallow mountain corridors and coastline corridors of the Hengchun Peninsula, causing serious effects on the local biodiversity. A legume originally introduced as fodder for livestock and fuelwood, the economic value of the plant disappeared when the Taiwanese economy changed. Because of the sunny and open environment in much of southern Taiwan, it grows quickly. Plants can grow up to 10 meters. Other plants below it are blocked from the sun.

The mimosin secreted by the invasive plant's roots prevents the surrounding grass from growing, leaving no space for local native plants. It also obstructs wildlife activities. The original tree species needs to be fostered to restore the original ecological web. The government budget alone only has capacity to remove about 40 hectares for rehabilitation each year.

In order to solve this problem, this project will start the consumption cycle of Leucaena through the removal of 10 hectares of Leucaena in Hengchun area on a demonstration area for removal and the restoration of native species. According to the current restoration plans for the Hengchun Peninsula, 25,000 native trees will be planted over three years to restore part of the connection between the shallow mountain corridor and the coastline corridor. The results of this project will be used to inform an improved plan for future activity. Through the power of Rotary, a digital market-based platform will be developed to encourage pre-ordering of Leucaena products derived from removal of the plant.



ENVIRONMENT LOGFRAME ANSWER KEY

INPUT The resources invested in a project	OUTPUT The immediate results of a project	OUTCOME The short-term or intermediate results of a project	IMPACT The positive, long-term changes resulting from our actions
Environmental education materials Environmental educators Forested area Native tree/shrub seedlings Shovels and field equipment Vehicles for transport of debris	The public is educated on the dangers of invasive species to the environment Indicator: Number of people receiving environmental education Demonstration area created to aid education and awareness program 20,000 seedlings planted and tended to Indicator: Number of native seedlings planted Invasive species (<i>Leucaena spp.</i>) removed in 10 ha area Indicator: Number of hectares with <i>Leucaena spp.</i> removed.	Increased public awareness and knowledge of the negative environmental impacts of <i>Leucaena spp.</i> on plant biodiversity Indicator: Increased number of public volunteers assisting in restoration activities of native tree species. Restored native trees in Kenting National Forest Indicator: Hectares/acres of restored native trees	Terrestrial ecosystem recovery with reduced habitat fragmentation along the Hengchun Peninsula corridor.
Restoration plan	Restoration plan improved by environmental authority for the Hengchun Peninsula corridor.	Sustained and government-led removal of <i>Leucaena spp.</i> from project area in Kenting National Forest	



Strategic planning of where to plant	Indicator: Presence of an improved restoration plan.	Indicator: Indicator: Amount of financing to support continuation or expansion by local government	
Rotarian business skills and experience	Digital commerce platform for invasive <i>Leucaena spp.</i> wood and craft products created	Viable market developed for wood products made of <i>Leucaena spp.</i> Indicator: Number of units sold	
App developer	Indicator: Presence of live digital platform to buy/sell product		
Materials for product	<i>Leucaena spp.</i> products designed and produced by local artisans		
Support staff for digital market platform and product	Indicator: Number of people employed to support design and production of product		
	Well-coordinated transport of removed <i>Leucaena spp.</i>		