

Repensando los vínculos urbano-rurales para las personas y la biodiversidad

Waste, Added Value

Tilarán, Costa Rica

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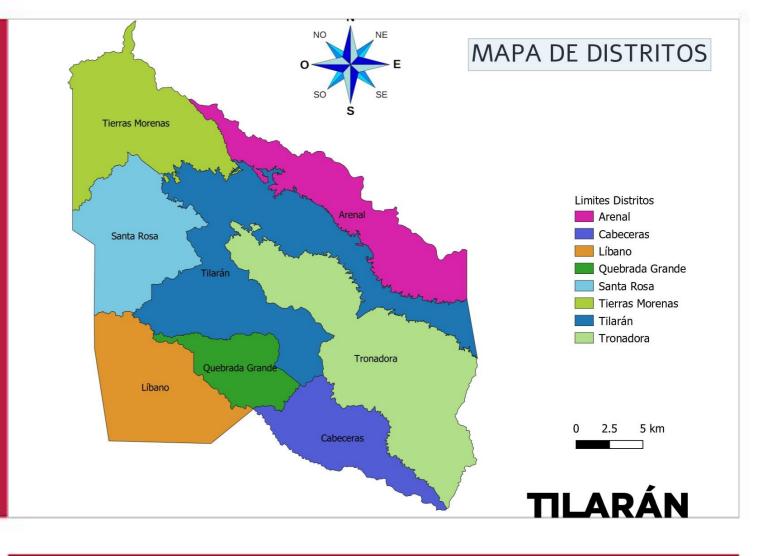


Background

- Tilarán is a very environmentally friendly city and the transportation costs for the final disposal of waste were very high
- Raising awareness among municipal authorities and citizens for separation at the source has been a major challenge.
- Inter-institutional support made it possible to bring together professionals in different areas to make the initiative a reality.

CITY PROFILE

- 26,000 inhabitants / 638km2
- Costa Rica, Guanacaste Province
- 579mts above sea level



Approach



What is being done?

- We add value to organic waste by turning it into compost.
- The waste of urban dwellers contributes to rural production.
- Natural decomposition processes with microorganisms give added value to the garbage of many

What was your starting point?

 The project started in 2020 and materialized in 2023. A pilot plan started in 2020 completely manually, laboratory tests were developed to determine the composition of the compost and it was first marketed in 2021.

Methodology



- Compost piles are used by turning, using drying material (wood chips from tree pruning), with efficient microorganisms (through an inoculation process). The process takes a month and a half and the plant is designed for nine tons per month.
- The project is led by the environmental management department of the Municipality of Tilarán, with support from the Ministry of Health, ICE Group, CIDECAT, FUNDACA, SINAC, and INDER.
- The infrastructure and equipment was financed by INDER and the Municipality of Tilarán.

Outcomes



What has been achieved?

 Environmental education has had an impact on the inhabitants of the canton of Tilarán.
Decrease of 9 tons of waste going to the treatment plant. Decrease in the rate paid by the inhabitants of the canton for waste collection.
Automated processes.

Next steps

- Collection routes free of organic waste in rural areas. Train other municipalities. Plastic pole plant.
- Professionals from other institutions that contributed to the initiative and a population with a culture of separating from the source.

Lessons learned

- Although economic resources are limited, inter-institutional support maximizes the money.
- That citizens are aware of environmental processes, but need education and support.
- That the added value of waste is great, but the communities take advantage of it very little.
- It is essential to involve the education sector more in order to maximize environmental education processes.
- The production of organic composting allows to generate an environmental impact and an impact on taxpayers' pockets.
- That the use of mechanical equipment facilitates and speeds up the processes, maximizing time and achieving institutional economy.
- That urban sectors can contribute with their waste, with the production generated in rural areas. Achieving important results in circular economies.
- That these processes contribute enormously to the fulfillment of the objectives of sustainable development.













