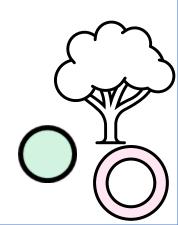
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Fighting the Lack of Wildlife-Friendly Architecture: Implementation of Automatic Bird Fountains on Facultad Regional Parana's Rooftops

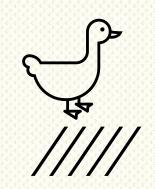
Universidad Tecnológica Nacional Facultad Regional Paraná Electromechanical Engineering Departament, Inglés I

2023

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General Contextualization

- ✓ Paraná River, one of the most important rivers in South America
- ✓A great water source for the animals
- ✓ City development that alters the ecosystem of birds



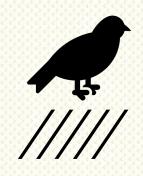
The Presentation Purpose

To address the lack of access to water for indigenous bird species within the urban environment



Map of the Presentation

- Description of the Context
- ✤Problem Statement
- Description of Scenes that Help Picture the Problematic Situation
- Identification and Analysis of the Causes that Give Rise to the Problem
- Identification and Description of the Consequences
- ✤Problem Approach
- Strengths and Weaknesses of the Proposal

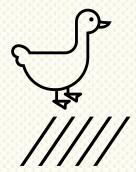


Work Impact

- ✓ Raising awareness about the importance of reducing bird abandonment in the city
- Decreasing bird extinction in the area
- ✓Inspiring citizens to take care of birds
- Encouraging the application of sustainable measures in other areas of the city

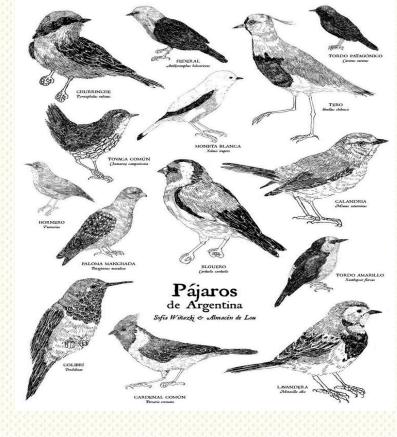






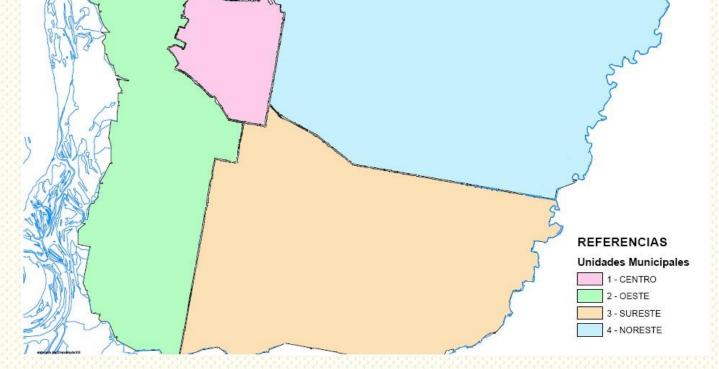
Description of the Context

- More than 300 species of birds that inhabit the surroundings of the Paraná River
- Bird habitat use



Some of the main birds in Paraná area

Description of the Context: Problem Location



We will focus on the southeast area of Paraná city.

Paraná city map

Problem Definition and Analysis Description of the Context: Important Landmarks in the Southeast Area of Paraná



UTN Facultad Regional Paraná



Problem Statement

➤The lack of water sources for birds in the city of Paraná, particularly within the UTN FRP campus and nearby areas



Description of Scenes that Help Picture the Problematic Situation

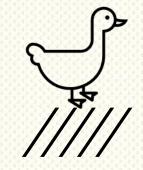


Trees in the weiger bity parking lot

Bird drinking Water from a dirty street puddle.

 Identification and Analysis of Causes or Factors that Give Rise to the Problem

- ✓ Urbanization
- ✓ Lack of awareness
- Lack of sustainable solutions
- ✓ Pollution



Identification and Description of the Consequences

✤Bird illness or death

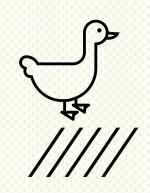
➤ Migration

✤Too many species in danger of extinction





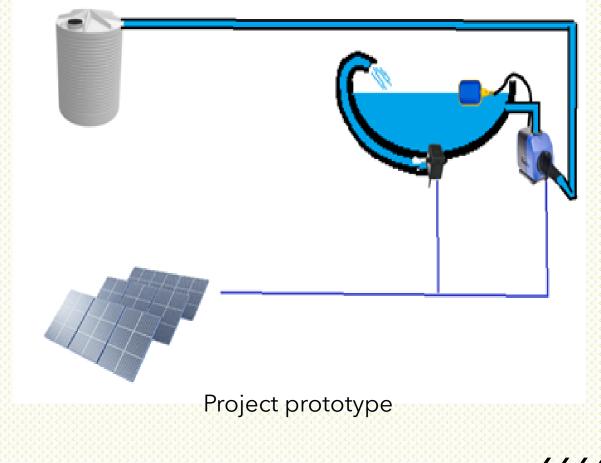




- A sustainable solution is to install an automatic water fountain for birds at UTN FRP.
- This can contribute to the well-being of a large number of birds in the area.

Elements for the Automatic Bird Fountain Installation

Fountain
Two water pumps
One electrolevel
Hose
Solar panels



Strengths of the Proposal

- Self-sufficiency of the project
- University financial benefits through personnel expense elimination and solar panel green energy reliance
- * Renewable energy solution

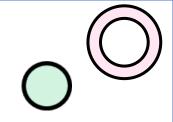


Weaknesses of the Proposal

High cost associated with acquiring devices and materialsThe need for monthly maintenance



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