

PET TRACKER

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Summary of presentation

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- State of the Art
- Product
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- Conclusions

Introduction

Problem

- There are no devices on the European market that offer both tracking and activity monitoring systems for animals

Objective

- To design and develop a pet tracking and activity monitoring system

Motivation

- We are pet owners
- We want to use our engineering skills to create something useful

State of the Art

Technologies:

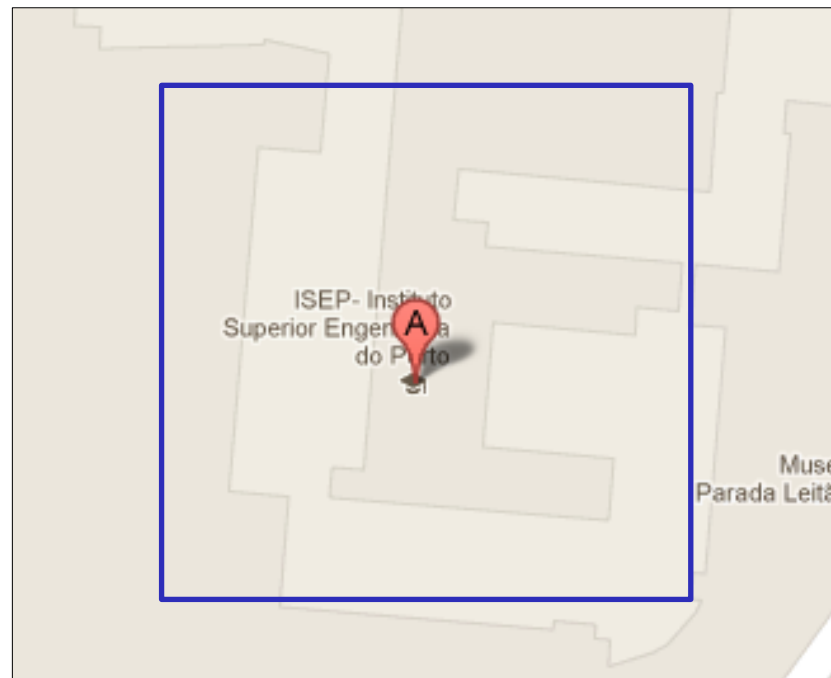
1. Microcontroller
 - Arduino pro mini
2. Wireless communication
 - GSM/GPRS modules
3. Location system
 - GNSS
 - GSM
4. Battery
 - Li-ion

Device

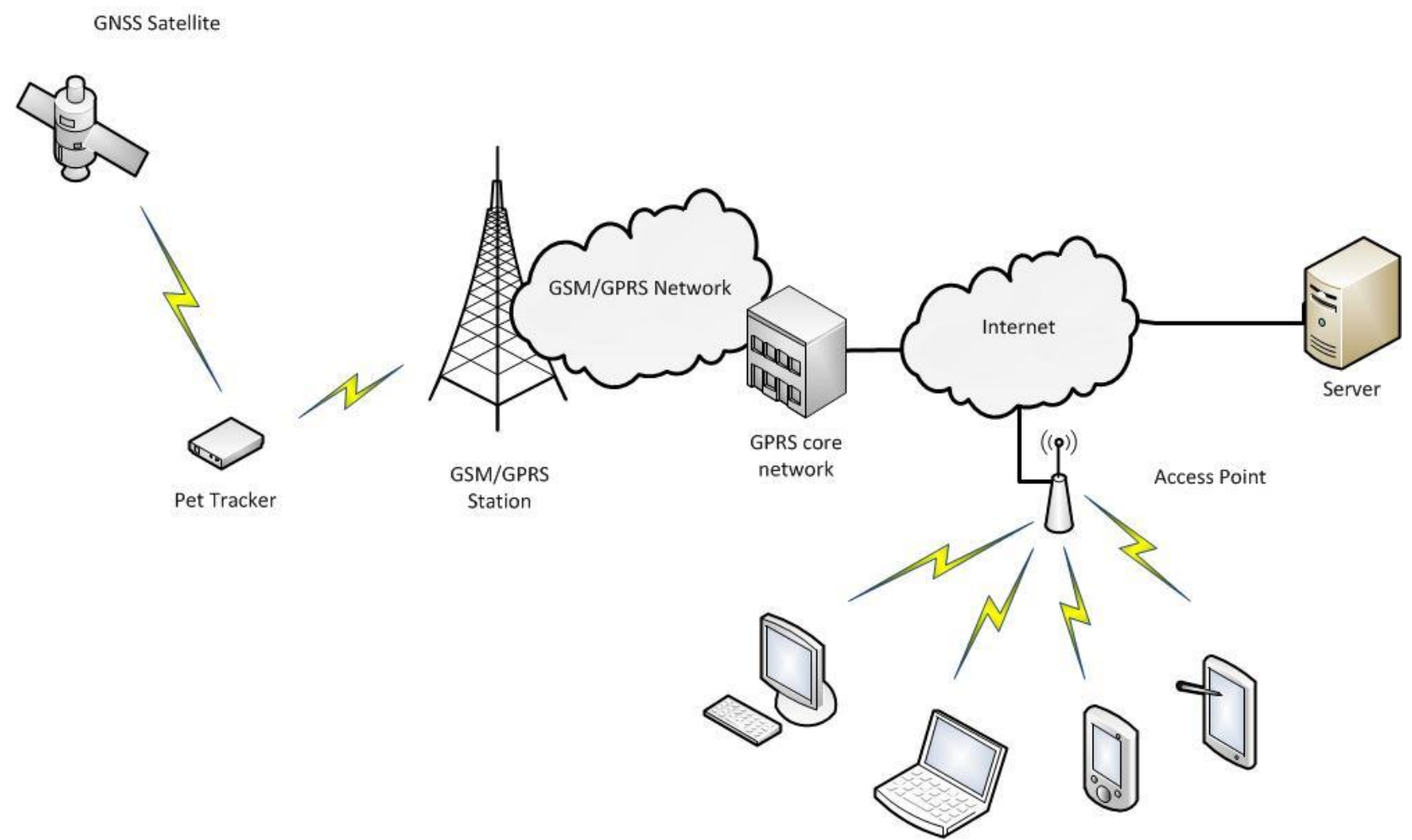


Operating modes

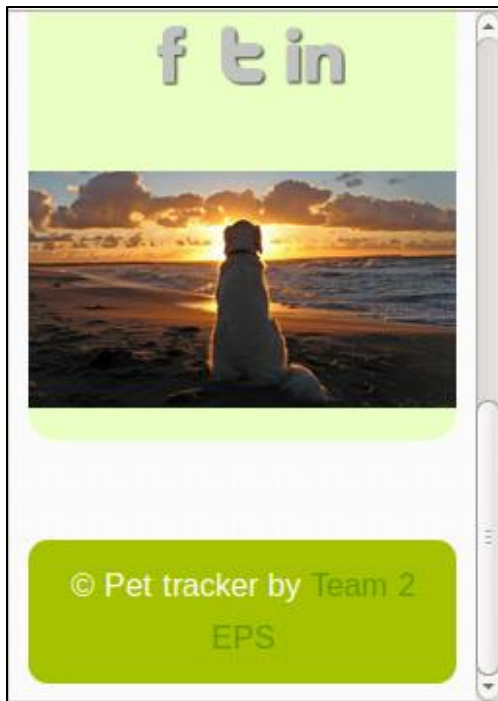
- Regular mode
- Tracking mode



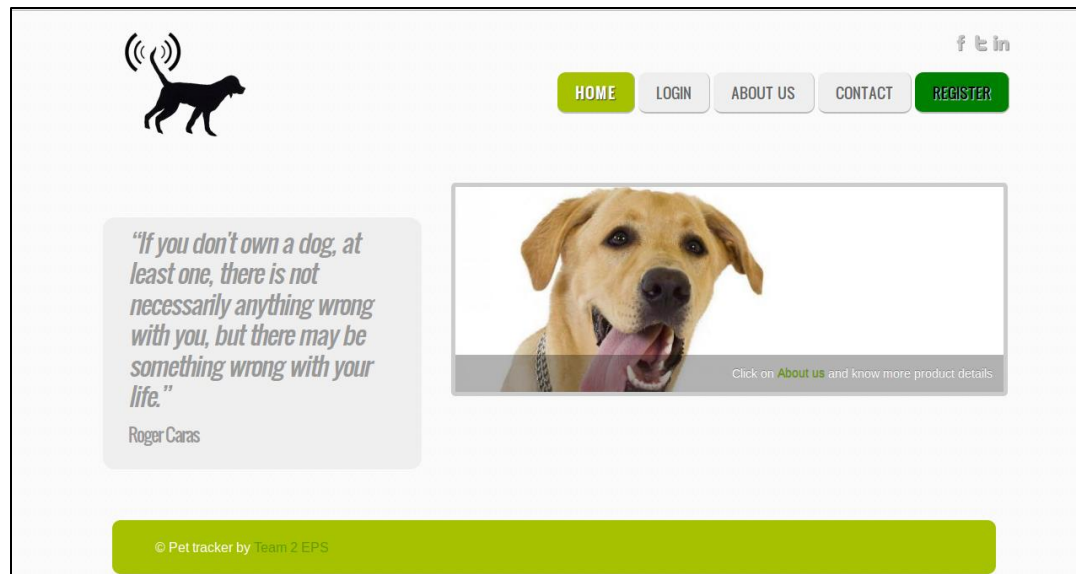
Process



Web Interface



- Open source technology
- Show location of pet using Google Maps/Google Earth
- Monitor pets activity using the accelerometer
- RWD



Services

User: Ola [Exit](#)

HOME MAIN LOGIN ABOUT US CONTACT REGISTER

Edit personal info

General Info Activity Info

Velocity	17 Km/h
Km (last 24h)	6 Km
Km (last week)	54 Km

© Pet tracker by Team 2 EPS

- Show the pet's location with Google maps

- Monitor the pet's activity

Results

- An assembled product
 - All modules running correctly (except from the GSM)
 - Reusage of already existed component for the outer shell
- Operative website
 - Reading data from database and showing pets information
- Developed a product specific marketing plan
- Obtained knowledge and new skills

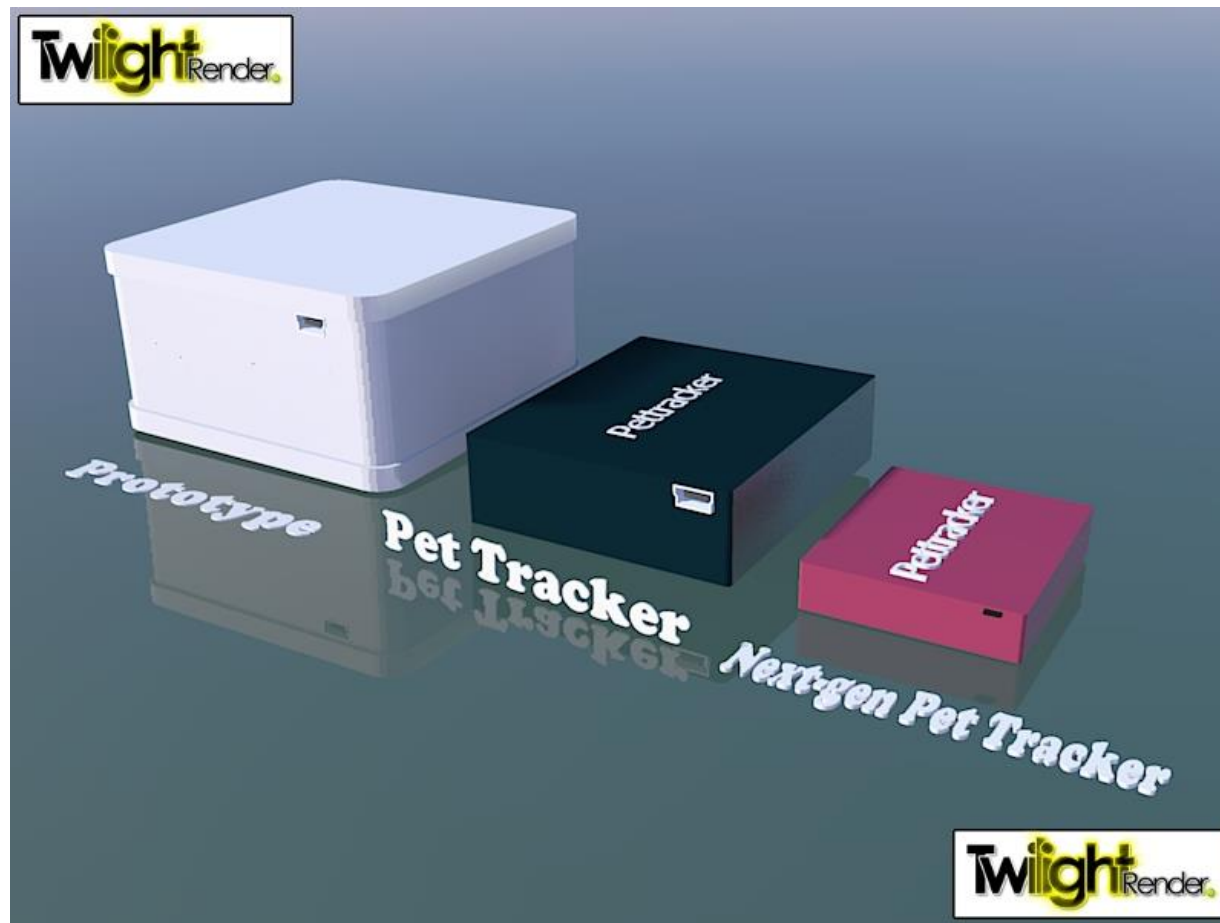
Marketing

- Price: 230€
 - Includes:
 - The Pet Tracker device
 - 3 month of service
- Service can be bought in packages:
 - 3 month package 19,99€
 - Half year package 34,99 €
 - Full year package 64,99 €



Future development

- Lighter, smaller device
- More features on the website
- Better collar attachment
- Cheaper



Conclusions

- Majority of the tasks were fulfilled
- The requirements of our client were kept in mind
- Working in the international team was an exciting experience
- Suggestions for the future development of the prototype were given

Thank you for your attention!



... any questions?