ACOUSTIC BUOY

European Project Semester 2013
The team & The company

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Table of content

- Project description
- Potential buyers
- Goal and objectives
- Corangino
  - Inside Corangino
- Overview - Data flow
  - Smart programming
  - Java programming
  - HTML Page
- Demonstration
- Conclusion
Project description
Project description
Potential buyers

- Offshore wind turbines
- Coast Guard
- Touristic companies
- Drilling companies
- Wildlife protection organizations
Goal and objectives

- **Goal:**
  To develop a communication system to transfer data from a collecting buoy to the end user.

- **Objectives:**
  - Design, construct and program an overall system capable of transmitting data from a collecting buoy to the end user.
  - Program a user interface able to display alarms on a map which is also capable of tracking the buoys position.
Corangino
Inside Corangino

ANTENNA + XBEE MODULE + XBEE ADAPTER + ARDUINO MEGA

DISPLAY

CONNECTORS

HOUSING

BOARDUINO
Overview - Data flow
Smart programming:

BUOY SYSTEM

MAIN

REPEATER

RECEIVER

MONITORING SYSTEM

GPS

PERSONAL COMPUTER
Java programming:

- Receiver mode
- Java programming
- Displaying incoming data
  - Alarm type
  - Location (GPS)
  - Verifications
HTML Page:

Programming languages:

- HTML
- CSS
- JavaScript
Demonstration
Conclusion

- Communication device, named Corangino.
- User-interface
- Goal and objectives achieved
Thank you for your attention!