



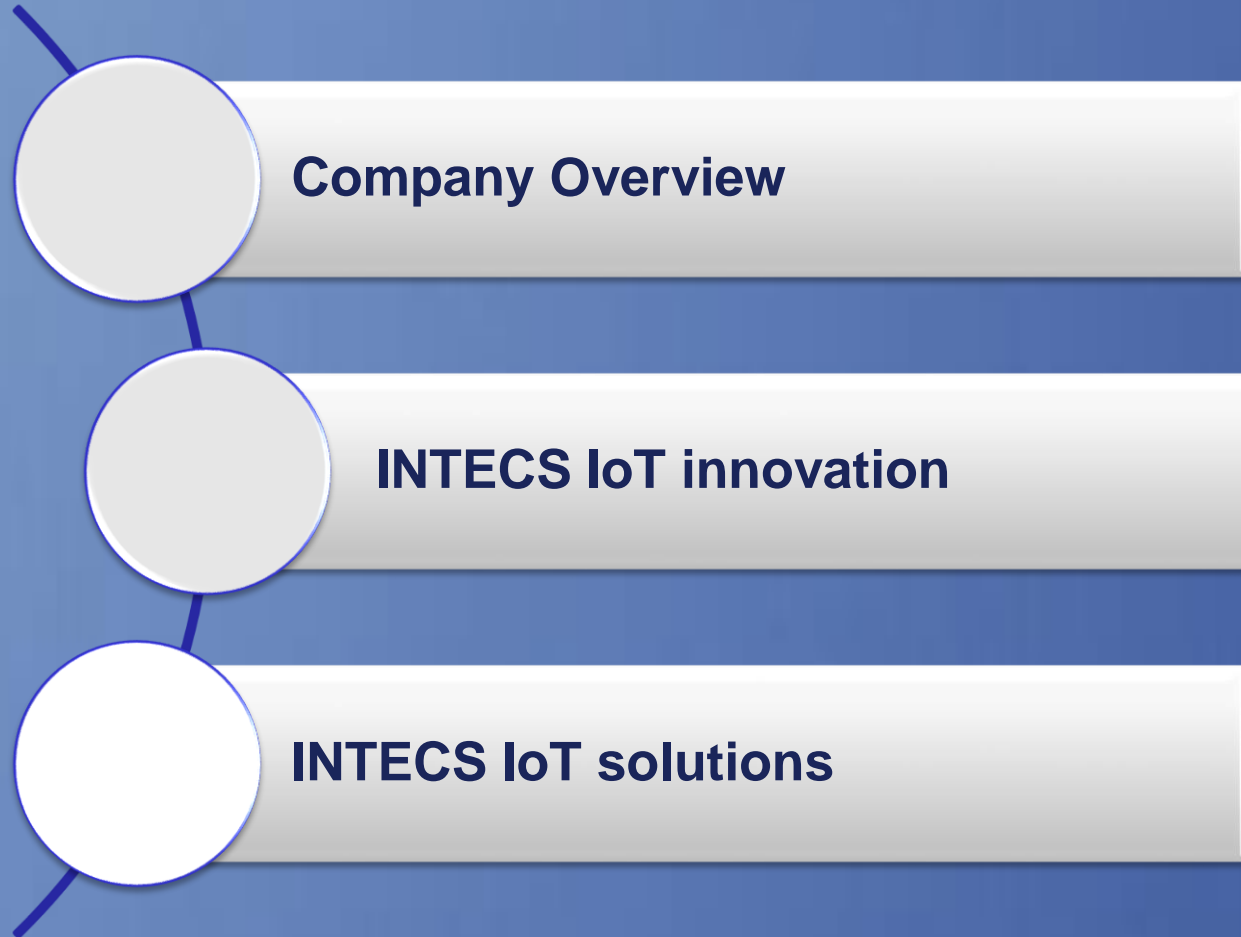
intecs solutions

SYSTEM ENGINEERING
SOFTWARE DEVELOPMENT
PROCESS & RAMS CONSULTING
VALIDATION & VERIFICATION
EMBEDDED SOFTWARE

IOT APPLICATIONS AND USE CASES IN REAL LIFE FROM INTECS PERSPECTIVE

IoT Day Italy, 10 Dicembre, Napoli

AGENDA



INTECS: HIGHLIGHTS



INTECS

Intecs was founded in 1974: more than 40 years working in the most technologically advanced fields



OFFER

Product and Services

STAFF

350+ skilled engineers

MARKETS

Railways, Aerospace, Automotive, Defence, Air Traffic Control, TLC service provider

CORE COMPETENCE

Design, Development of Hard Real Time Safety Critical System, Independent Verification and Validation, Electrical Test Equipments



HIGH-TECH ENGINEERS



SW Designers / Developers



System / Software Validators



Safety / RAMS experts

HW / Mec. Designers



Domain experts (Automotive, Space, Railway, TLC)



IOT – INTECS POSITIONING

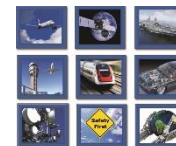
Today it's increasingly about **value** instead of potential, about the **combination of IoT, AI, Machine Learning**, and other related technologies to derive insights, decisions and revenues from sensor data and about IoT monetization.

Following this trend INTECS has developed an IoT business since IoT technologies nowadays has a crucial role in the digital transformation

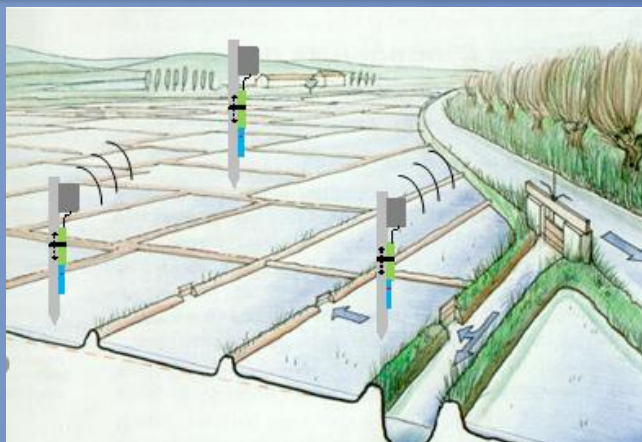
Precision Agriculture

Acoustic detection in Smart City domain

Automotive



Custom solution develop by INTECS SOLUTIONS to a Precision Agriculture



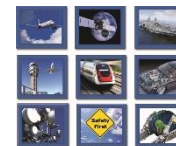
Develop a complete, and custom, solution to monitoring level and temperature in a rice field

Automatic and easy system setting

Easy Installation and long battery

Cloud system to storage data and management

Graphical User Interface for all devices



The detection and classification of critical events are of particular interest in those areas where *public safety or surveillance is strongly needed* such as Airports, Malls, Train Stations, Schools.

DIONISIO is an intelligent system of Audio Surveillance able to detect relevant audio events such as gun shots and people screams on real time.

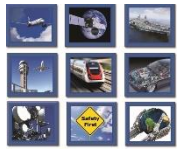
The system is composed by a single microphone, a central application server and a Human Machine Interface (HMI).

The alarm, generated from **DIONISIO**, is sent to the Application Server and presented on a **web-based HMI**.

Applications Fields

- Airports
- Surveillance
- Schools
- Malls
- Train Stations
- Stadium





AMOS is an **automatic system** for the generation of **acoustic maps** in both indoor and outdoor environment.

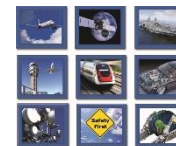
AMOS is able to return an **acoustic map overlaid to a video streaming** (Acoustic Camera).

AMOS is based on a 16 uniform rectangular microphone array and mount a 8,49 Megapixel camera



Application Fields:

- Streets
- Airports
- Malls
- School
- Train Stations

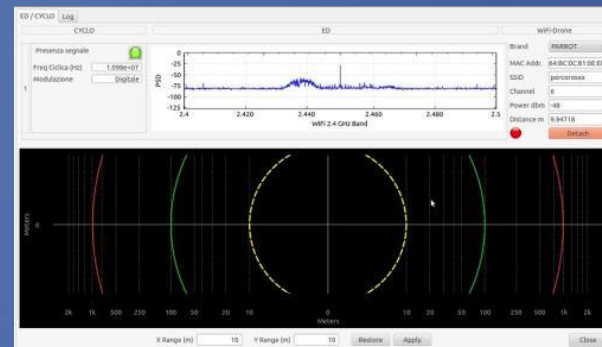


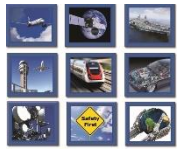
- DEDALO is a passive Drone Detection System which is able to recognize and localize e.m. (electromagnetic) emissions through a radio frequency (RF) sensing providing real time alert of Unknown Slow Movers / Unmanned Air Vehicles (UAV) enabling a rapid, informed and coordinated response
- a set of passive electromagnetic sensors (RF sensors) which identify and localize RF signals in 2,4 GHz band, processes the link between the Slow Movers/UAV and their ground stations, sending alert to remote Monitoring Center (MOC).



Application Fields:

- Defence
- Agriculture
- Telemetric and Telemonitoring
- Public & Video Surveillance
- Land & Traffic control
- Automotive
- Fleet Management

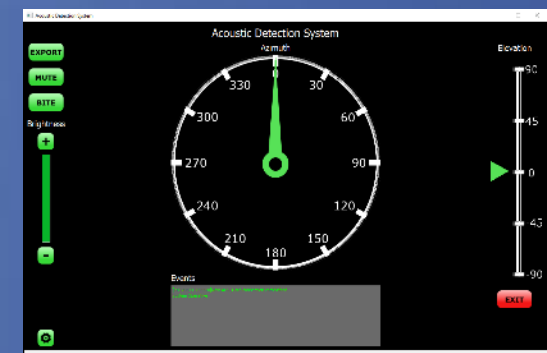


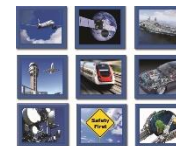


- ADRANO is a passive Acoustic System which is able to recognize and localize the sound or drone or sniper, providing real time alert of sniper attack or unauthorized drones.
- The system architecture is characterized by a set of microphones which acquires the sound sources and processes the signals sending the information (elevation and azimuth angles) to local Human Machine Interface (HMI).

Application Fields:

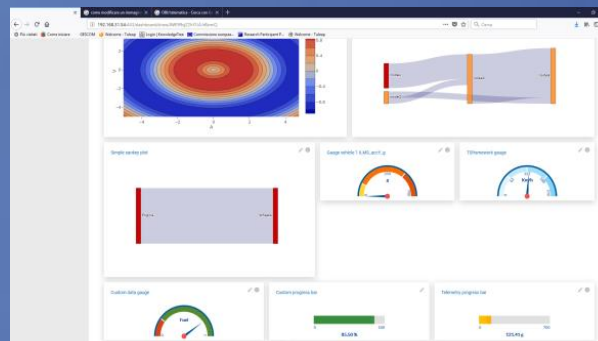
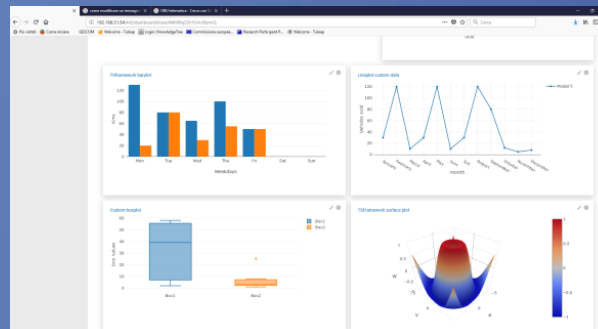
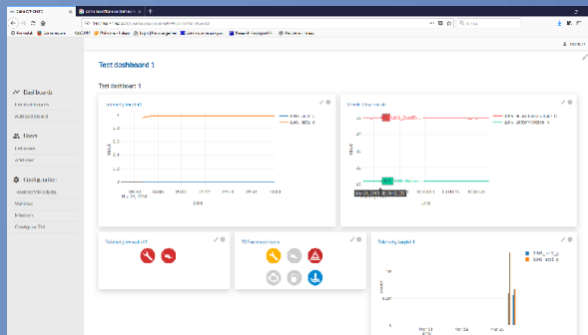
- Airport
- Military Bases
- Refining
- (Military infrastructures)





PIATTAFORMA TELEMATICA

Web Platform



3G/LTE connection



**Telematic device
onboard vehicle**





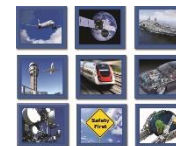
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THANK YOU !



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