



***Turf Europe Srl***

[www.turfeurope.eu](http://www.turfeurope.eu)

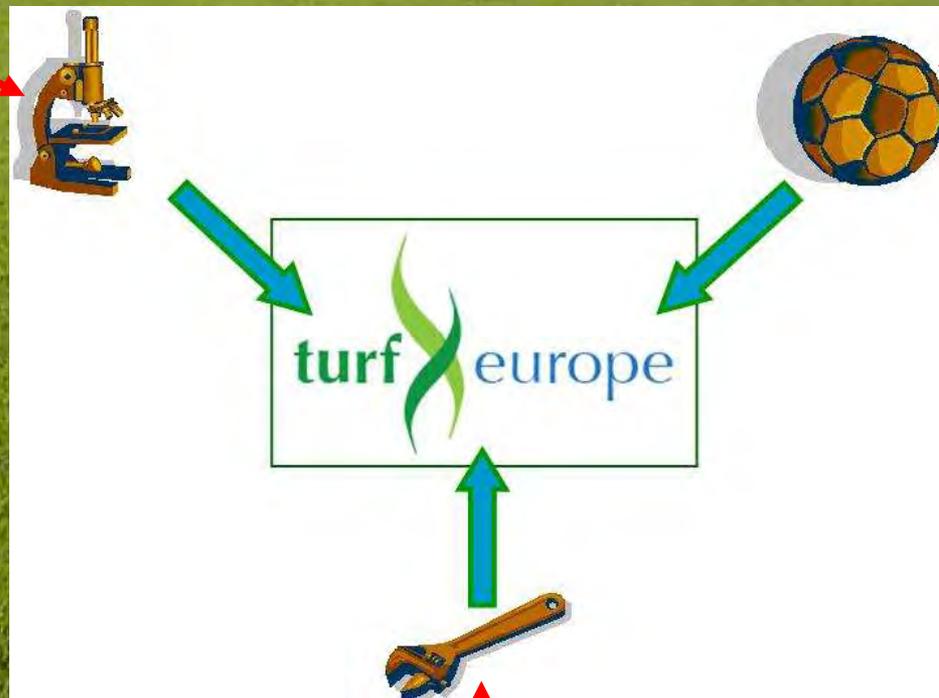


DIPARTIMENTO DI SCIENZE AGRARIE, ALIMENTARI E AGRO-AMBIENTALI



R & D

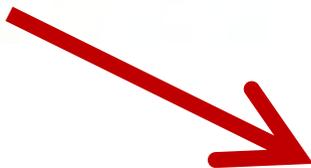
Consulenza e Formazione



Mercato



**KNOW-HOW**



**MERCATO**

## Specie

- per il Mediterraneo
- a propagazione vegetativa
- inerbimenti ambientali

## Materiali

- concimi a rilascio controllato
- macchinari avanzati
- substrati tecnologici

## Tecniche

- stolonizzazione
- idrosemina
- manti ibridi
- plantule per trapianto
- gestione integrata



**Turf Europe S.r.l.**  
**AGRONOMIA**









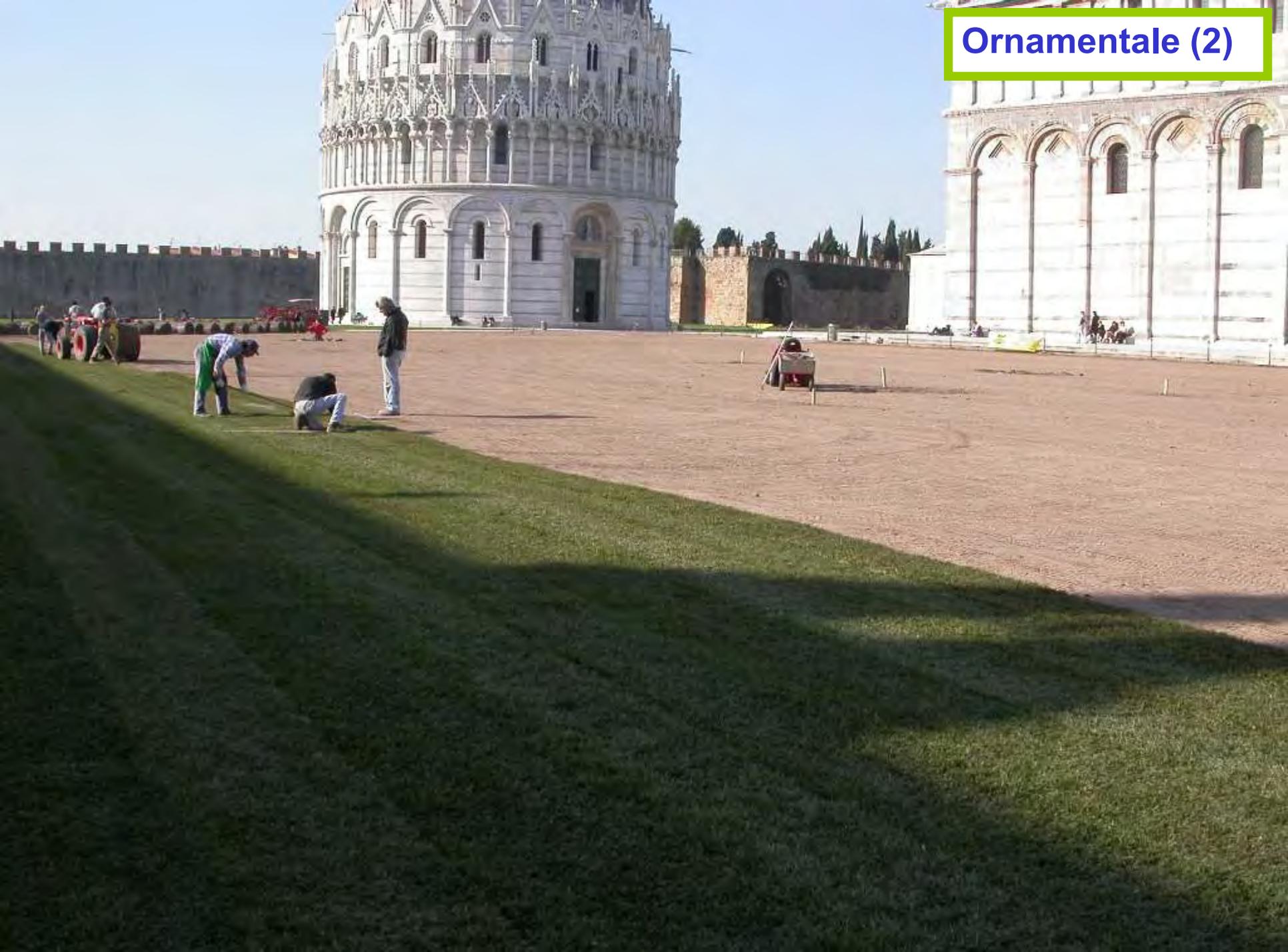




# Ornamentale (1)



## Ornamentale (2)



**Agricoltura (1)**













## 2009-2014

- Corsi di formazione professionale: **32**
- Totale partecipanti ai corsi: **oltre 600**
- Target dei partecipanti: **giardinieri, tecnici ed operatori del settore, impiegati aziende**

## Settembre 2013

- Organizzazione del **3° Field Days** della Società Europea dei Tappeti Erbosi a Monte Carlo
- “Integrated turfgrass management: towards the limitation of the use of agrochemicals”
- **98** partecipanti da **18** Paesi diversi

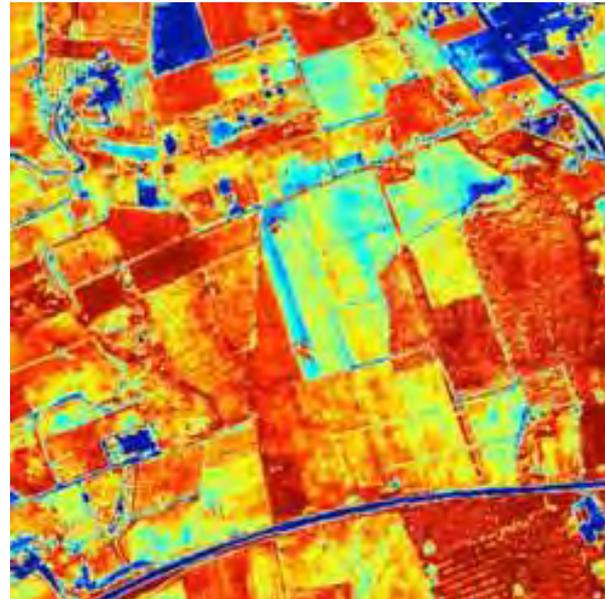


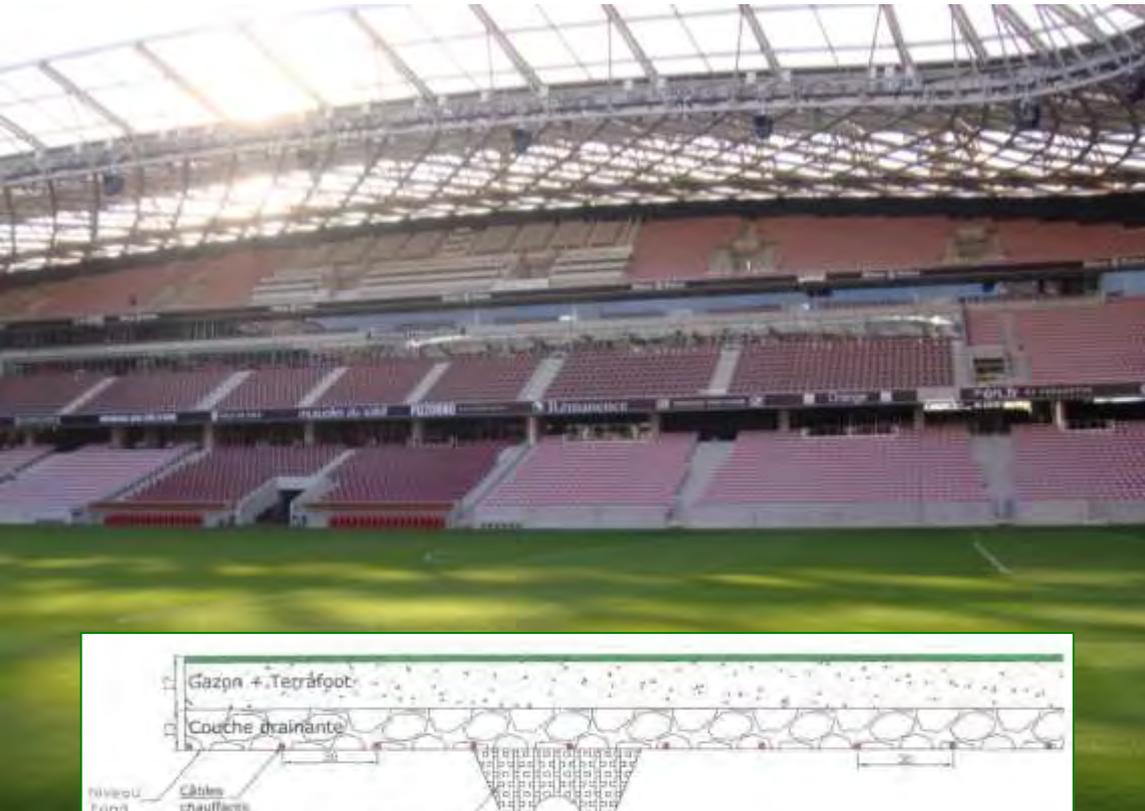
Dalla metà del 2012, per aumentare l'innovatività dei servizi proposti, l'Azienda ha iniziato ad operare in un settore altamente tecnologico dell'agronomia:

## “PRECISION FARMING”

“...information and technology based farm management system to identify, analyze and manage variability within fields, for optimum profitability, sustainability and protection of the land resource”.

- sensori
- immagini satellitari
- automatizzazione
- GPS, GIS, ecc.
- condizionamento artificiale

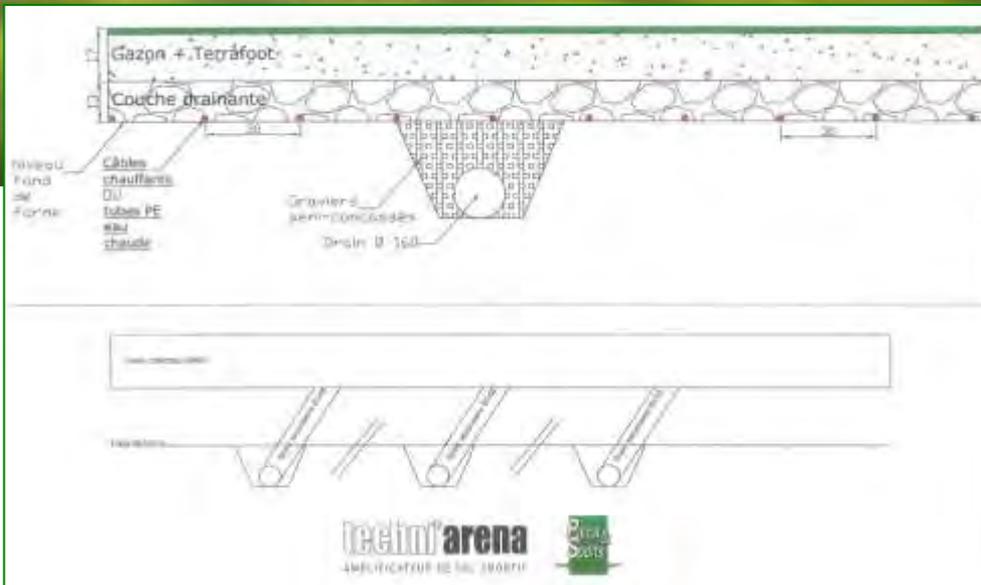


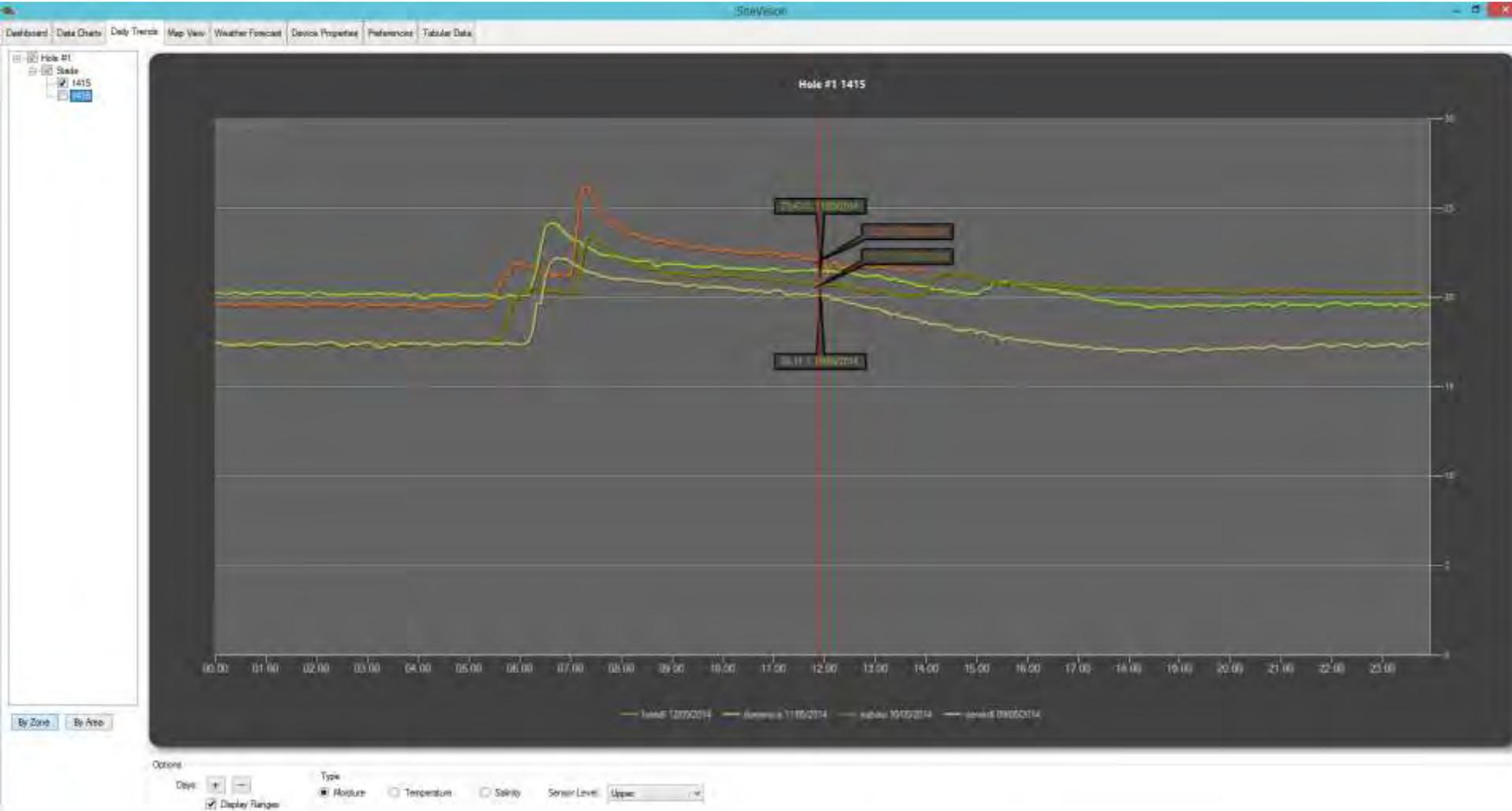


## Stadio "Allianz Riviera" di Nizza

Monitoraggio e messa a punto del sistema di ventilazione sotterraneo.

Sonde per monitoraggio in remoto (web) di T° e umidità del substrato.





**Monitoraggio in remoto di T° e umidità substrato: sonde wireless "Toro Turf Guard"**



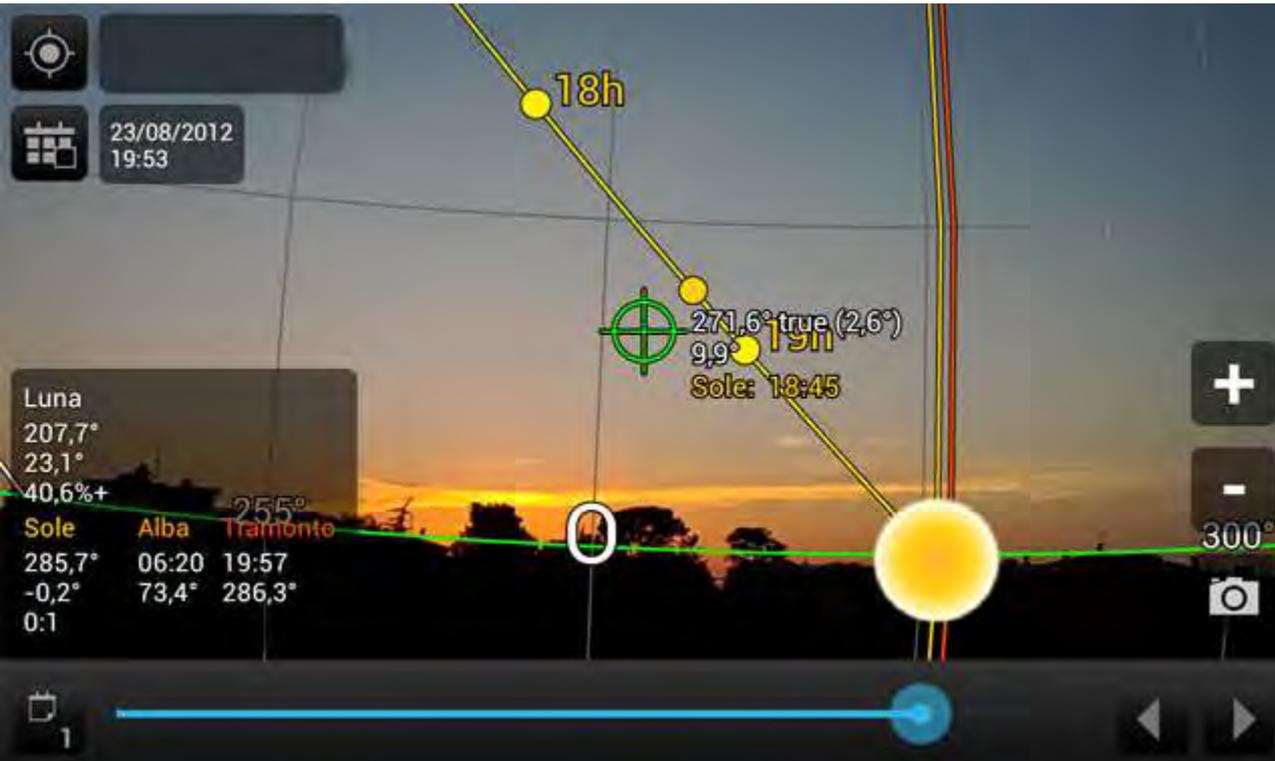
## Stadio "Vélodrome" di Marsiglia

Monitoraggio e messa a punto del sistema di illuminazione artificiale (sodio + LED).

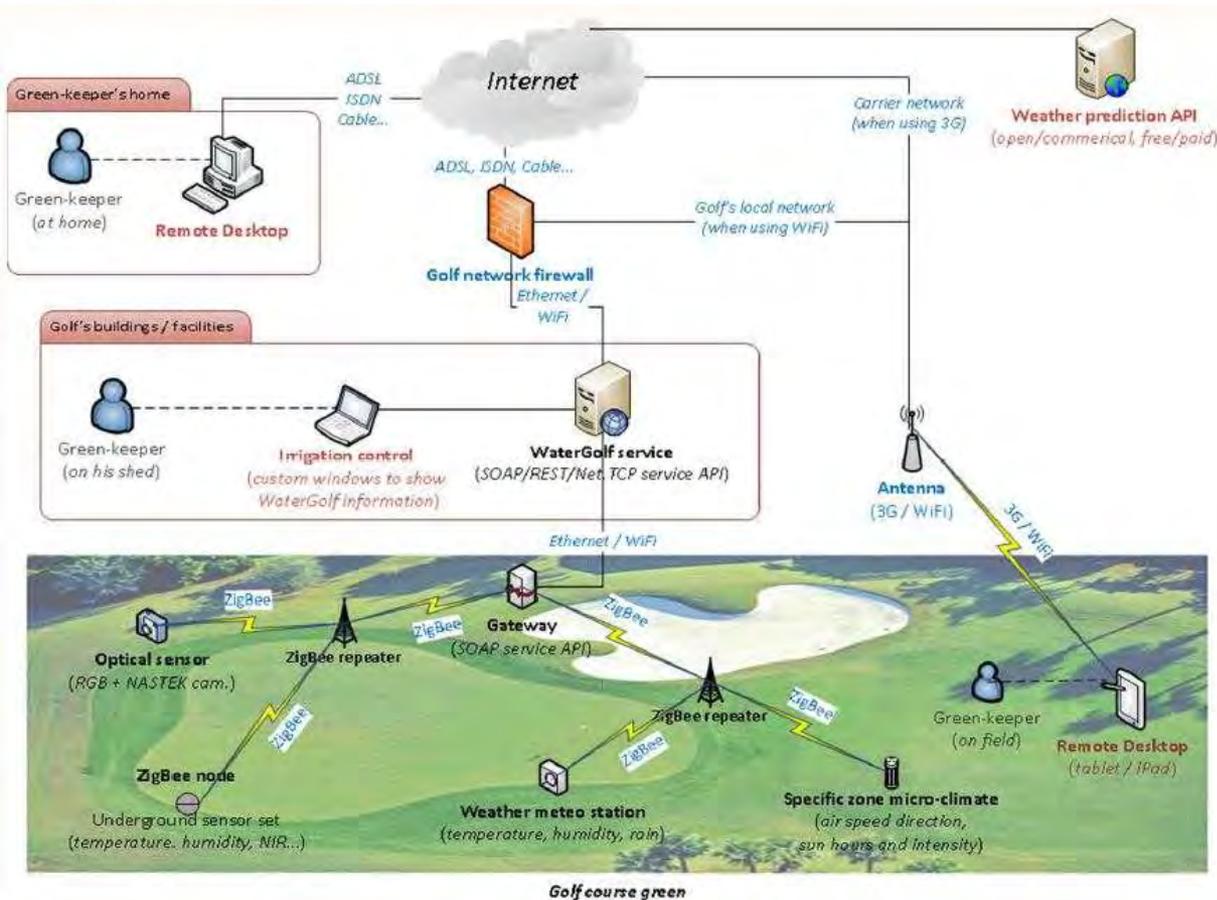
Fotometri e programma di valutazione dell'esposizione al sole...



Misura delle ore di radiazione solare: "SunSeeker" per Android



Misura dell'intensità della PAR ( $\mu\text{mol}/\text{m}^2/\text{s}$ ): "Apogee"



## Sistema "WaterGolf"

Sviluppo e messa a punto di un sistema di monitoraggio delle condizioni del campo di golf.

- Clusters di sensori nel terreno
- Centralina climatica
- Comunicazione Zigbee e wireless
- Artificial intelligence

## CONTRATTO CON CONSORZIO DI PMI EUROPEE



[www.watergolf-project.com](http://www.watergolf-project.com)

Bailoy

AteKnea  
solutions

edma

turf europe  
professionisti del manto erboso

ArtHaus  
The electronic turf maintenance

Cornet Water  
Technics S.A.

Electronic & Technical  
Services Limited

PROJECT CO-ORDINATOR:

ATEKNEA SOLUTIONS MALTA  
A MEMBER OF THE ATEKNEA SOLUTIONS ALLIANCE  
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for more information  
visit our website

[WWW.WATERGOLF-PROJECT.COM](http://WWW.WATERGOLF-PROJECT.COM)



The research leading to these results has received funding  
from the European Union Seventh Framework Programme  
(FP7 / 2007 - 2013) under grant agreement no.



# WaterGolf

Wireless distributed intelligent system for  
irrigation optimisation and early turf  
disease prevention and treatment  
on golf courses



# SODSAT

Sviluppo e messa a punto di un sistema di monitoraggio della produzione di prato in rotoli ("sod farm").

Riflettanza satellite WorldView 2  
 Clusters di sensori nel terreno  
 Comunicazione Zigbee e wireless  
 Artificial intelligence

CONTRATTO CON CONSORZIO DI



Satellite multi-spectral imaging



Server with Artificial Intelligence and Artificial Vision



On-field wireless sensing

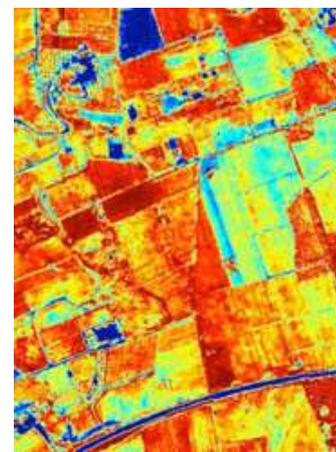


Turf Experts

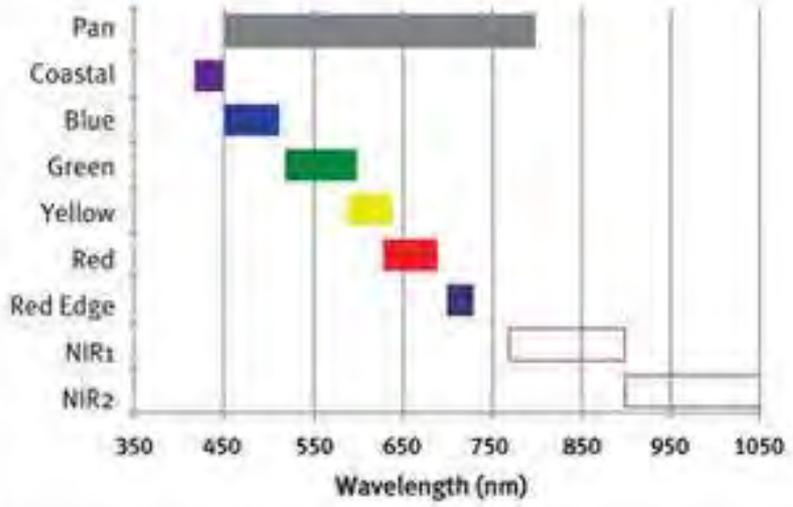
Turf Industry managers



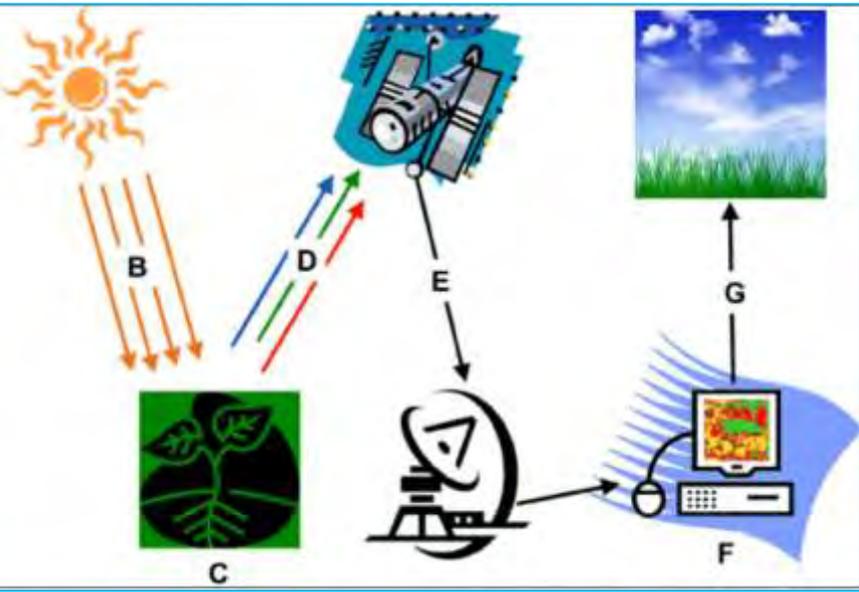
Internet



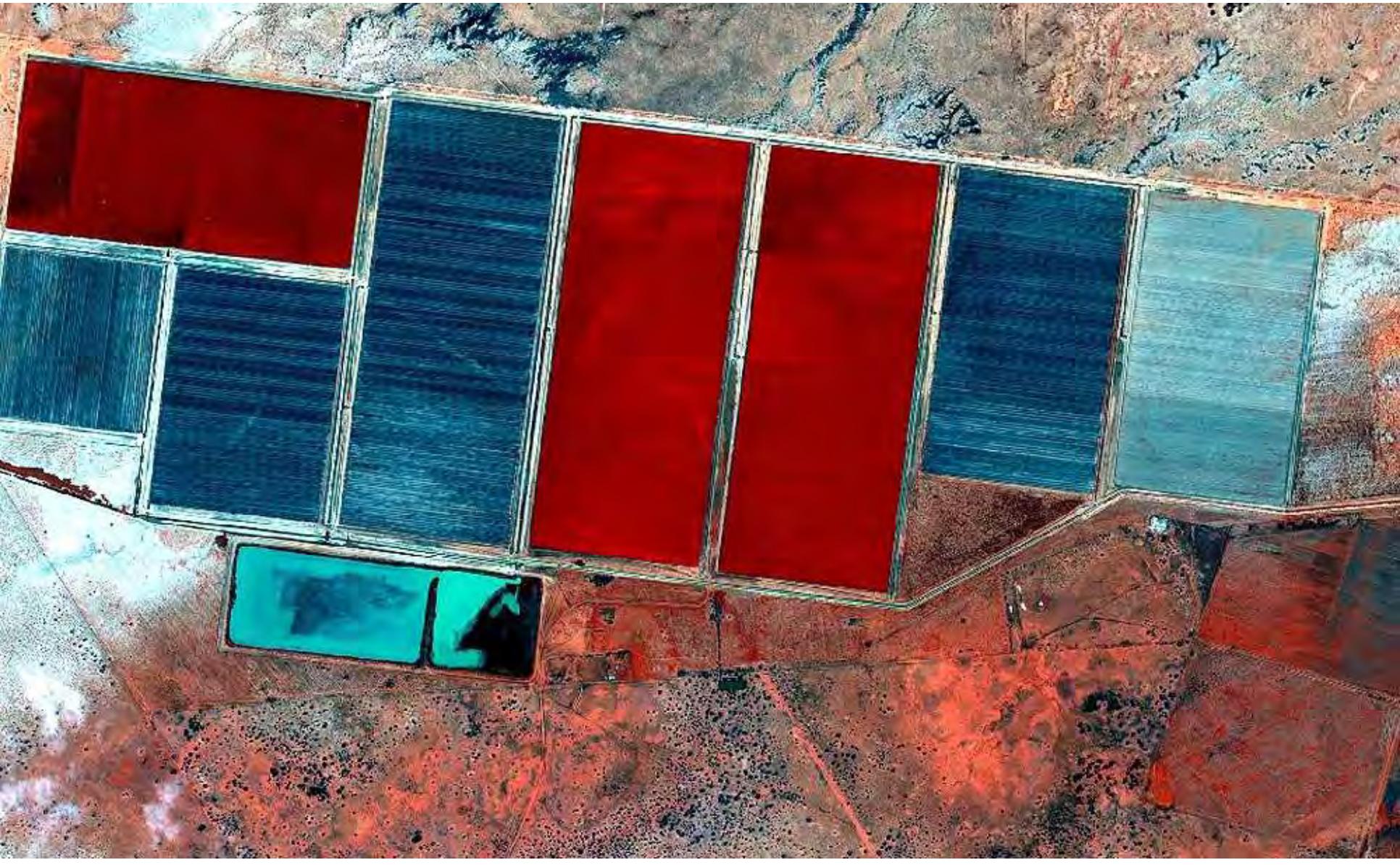
The 8 spectral bands of WorldView-2

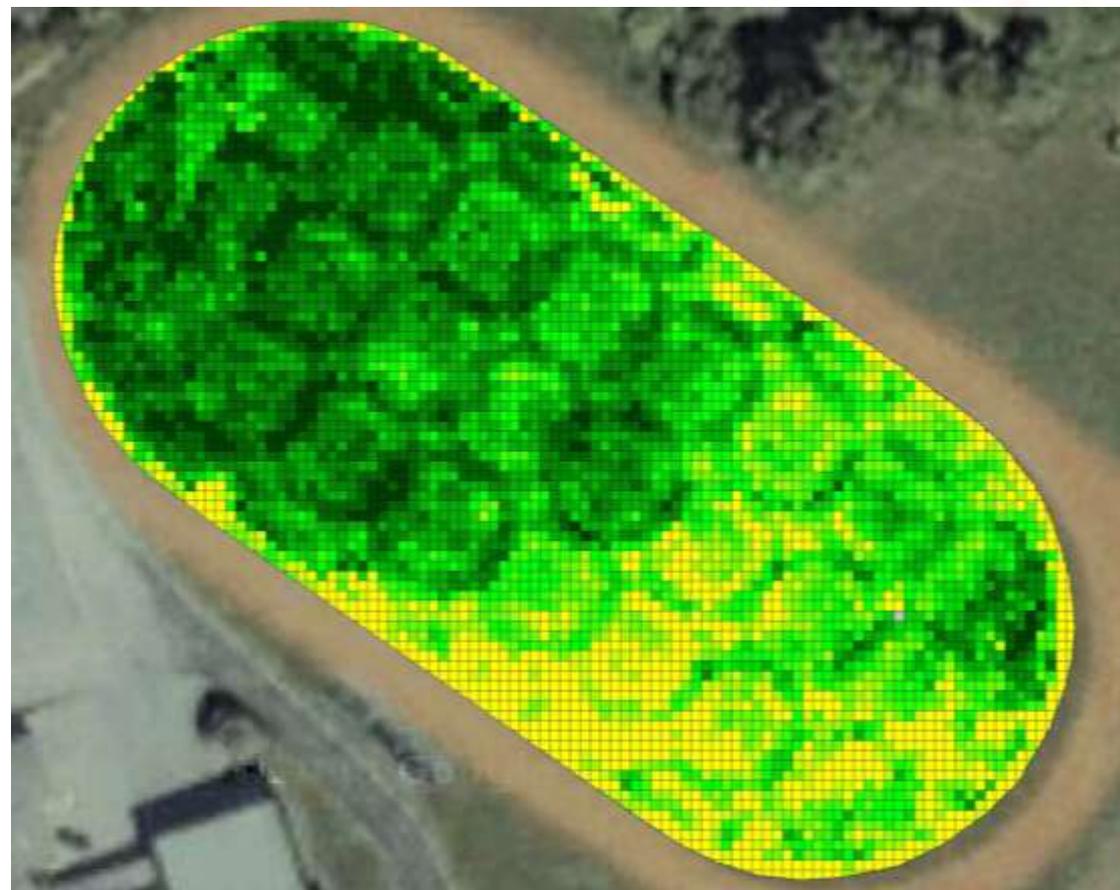
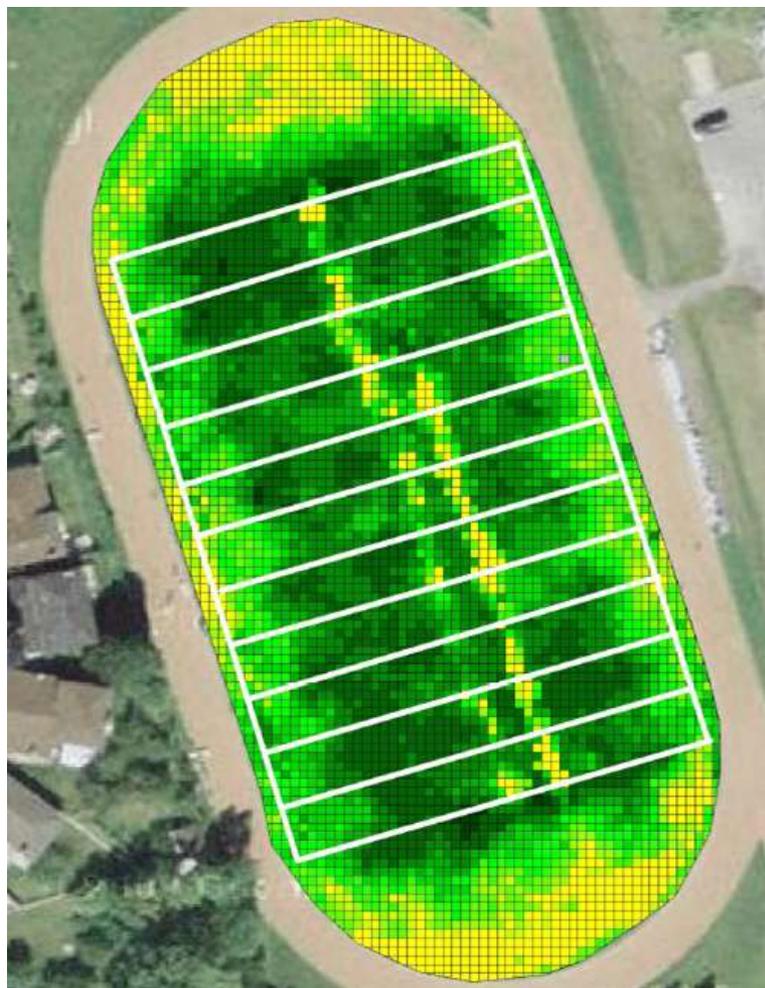


Vegetational Indexes (VI)

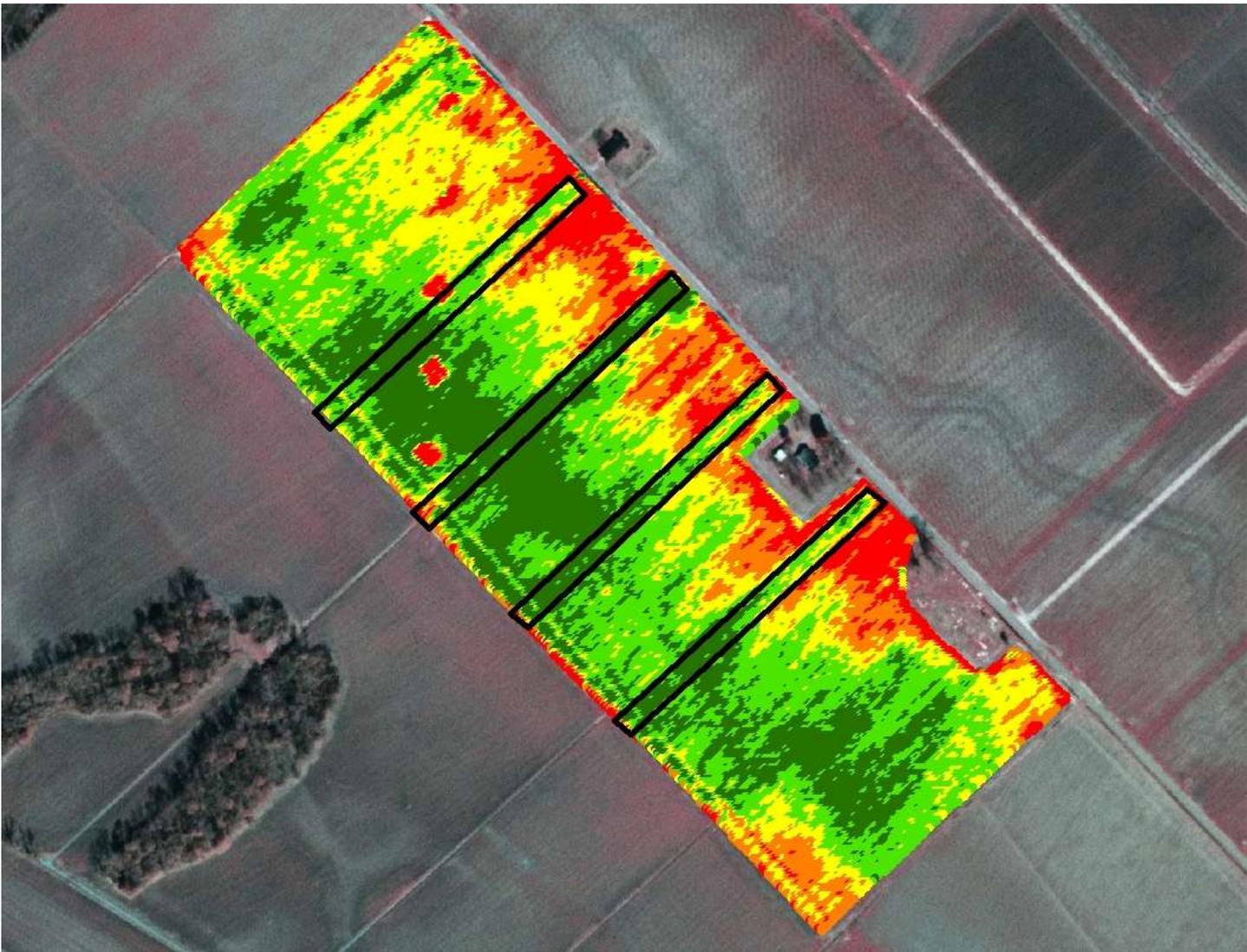


# SODSAT



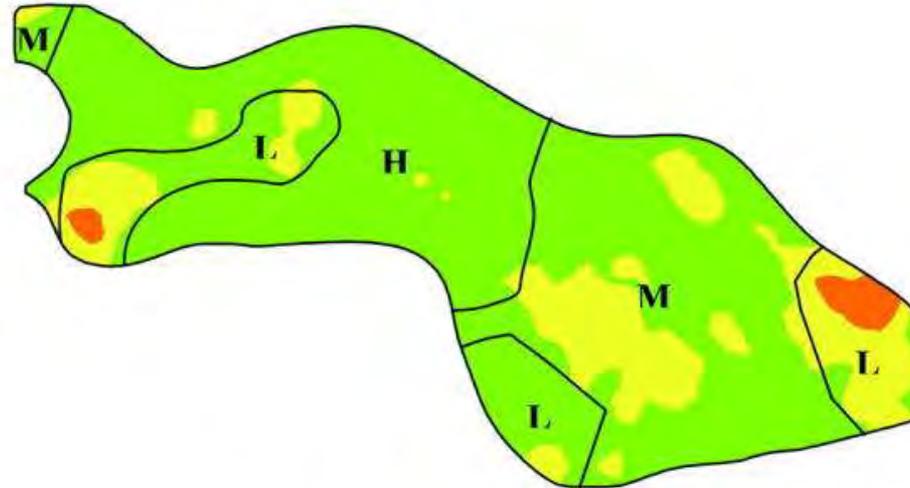
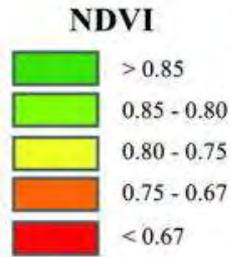


**Football field (N and water)**

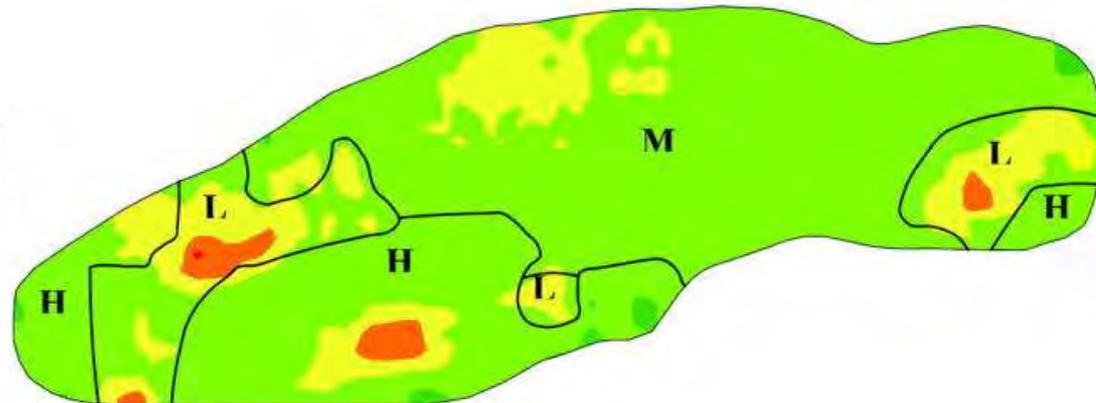
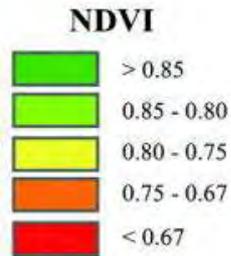


**Agriculture (ground cover, yield)**

a.



b.



**Golf (quality, colour)**

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## SODSAT

- The aim of the SODSAT project is to increase the competitiveness of turf grass producers by providing a novel remote intelligent turf management system by means of Artificial Intelligence and satellite technology.

[www.sodsat-project.com](http://www.sodsat-project.com)



The research undertaken in this project has received funding from the European Community's Seventh Framework Programme under grant agreement number 605729.

### Project coordinator:



ATEKNEA Solutions Malta  
[www.ateknea.com](http://www.ateknea.com)

### Project partners:



Bottos SRL  
[www.bottos1848.com](http://www.bottos1848.com)

Arthaus

Production Trade and  
Service Company Arthaus  
Doo import-export Skopje  
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PLANTEC

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Richter-Rasen Slovakia  
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[www.richter-rasen.eu](http://www.richter-rasen.eu)



Ostfold Gress AS  
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edma

Edma Innova SL  
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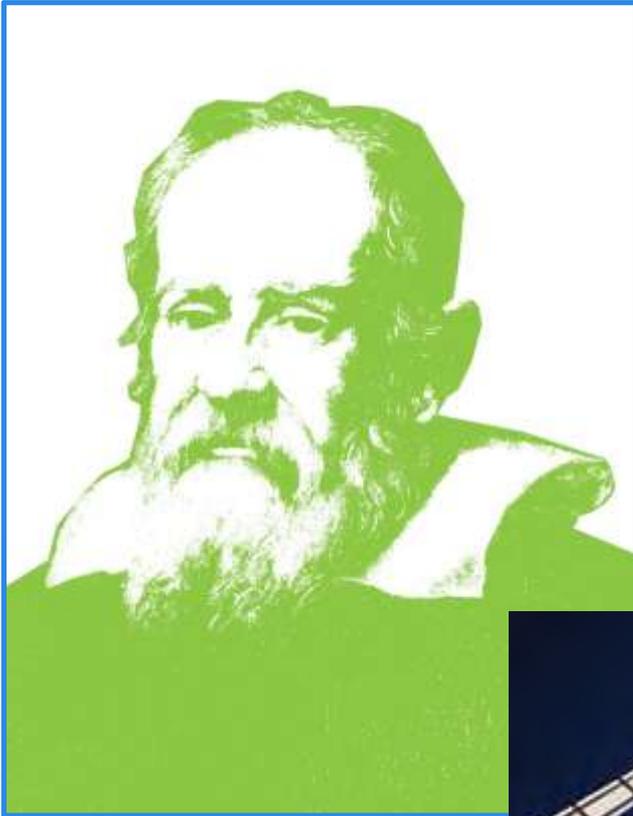


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# SODSAT

A novel remote intelligent turfgrass sod  
production system

[www.sodsat-project.com](http://www.sodsat-project.com)



## **GaliGREEN**

Sviluppo e messa a punto di una app sperimentale (API + emulatore Galileo + software) basata su sistema Android (tablet o smartphone) per l'utilizzo del sistema EGNSS Galileo. Precisione = 1 cm...!

### Applicazioni:

- Agricoltura di pieno campo
- Verde urbano
- Ecologia





[www.turfeurope.eu](http://www.turfeurope.eu)

