E₂O.GREEN

by 3D EXECUTIVE MANAGEMENT SYSTEMS
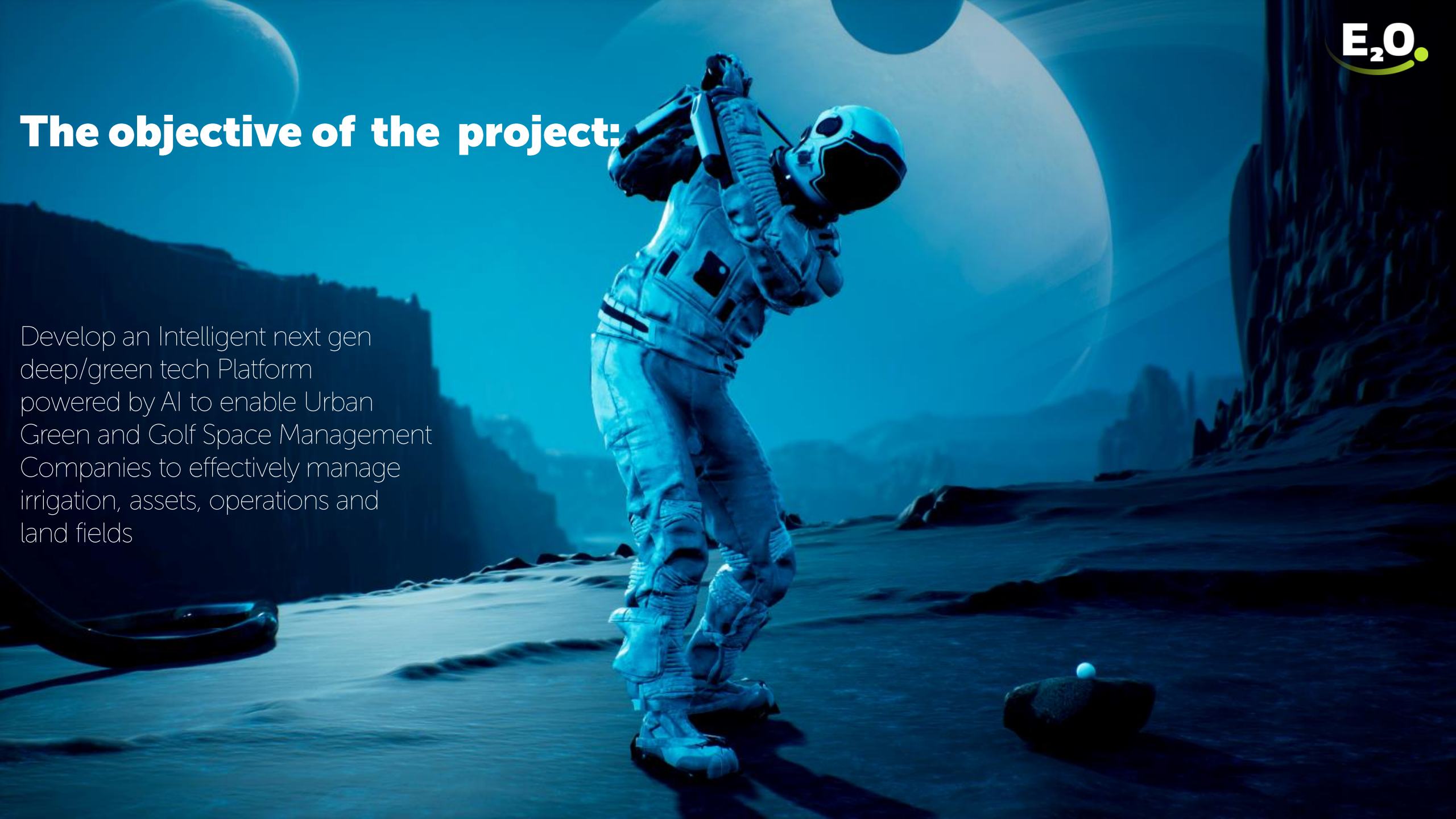
Project Title (Request ID: 211974)

The Earth Observation 2 Golf and Urban Energy and Irrigation AI Optimization

Project acheivements

+ E2O GREEN

+ IoT | AI

The objective of the project:

Develop an Intelligent next gen deep/green tech Platform powered by AI to enable Urban Green and Golf Space Management Companies to effectively manage irrigation, assets, operations and land fields

NoR tools and data goals used to acheive our goals

Pleiades

Bi-weekly coverage 168 ha of data

VHR golf course monitoring:

Disease state detection connected YOLO based

Areas:

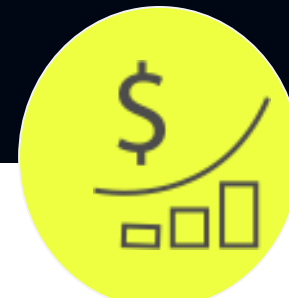- Zagreb Riverside Golf Club

EDC Sentinel HUB

Subscription data Sentinel – S1, S2, S3

Areas:

- Zagreb Riverside Golf Club
- Zapresic Golf Club
- Maksimir public park

Cloud intergration ETL connceted to XGBoost model

- generation of interactive maps presenting model predictions variables related to irrigation (LAI, NDMI, soil moisture, evapotranspiration)

Planet Scope

Bi-weekly coverage 168 ha

VHR golf course monitoring:

- Grass state classification and detection FR-CNN connected to AR mangement App

Areas:

- Zagreb Riverside Golf Club

Golf Space and AI data at your fingertips
Overview of NoR sponsored data used in E$_2$O.App

Sociatal benefites
For smart cities and municipalities

E₂O.GREEN

- Mitagtion of urban overhetaing through efficientmowing based on VHR imagery

- Promotion and implementaion of EE irrigation for golf and urban green areas operators