

FIELD WORK AND SMART SENSOR NETWORKS

The power of IoT extends beyond facilities, lending itself well to many outdoor applications such as in the fields of energy production, agriculture and vehicle tracking. Long-lasting sensors can monitor soil conditions in agricultural fields and provide early warning against infestation; they can also enable us to regularly share information and take the right actions in energy production from areas with low accessibility.

Using the **evolved.city** infrastructure you can:

- Control the field remotely at any time using mobile and web applications
- Manage field operations in real-time
- Combine sensor data with user defined workflows to increase the efficiency and safety of your operations
- Use your own sensors or use custom **evolved.city** hardware
- Full data access, reporting and analysis capabilities

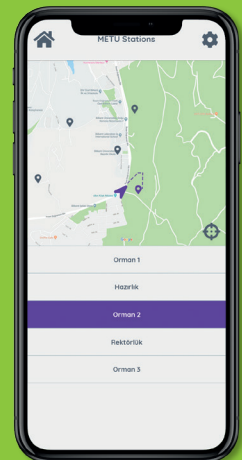
*"Fertile lands with
evolved.city"*

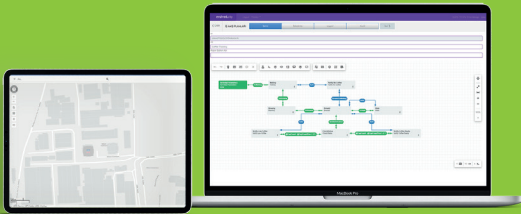


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Partner Network
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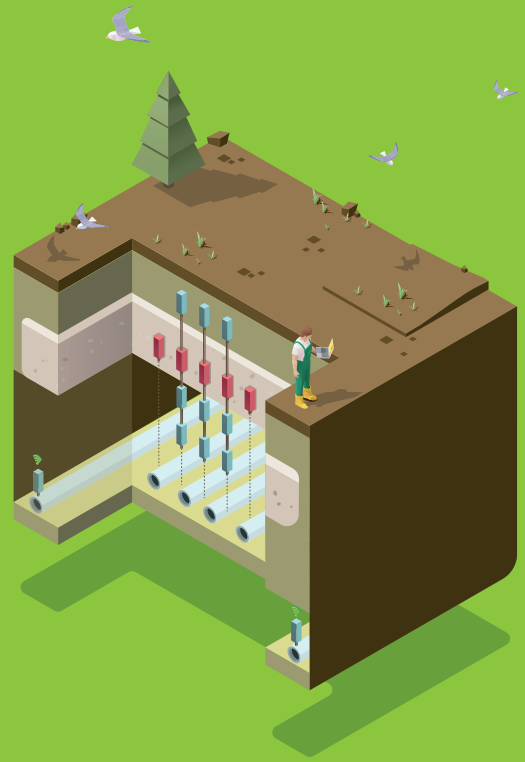
*evolved.city can further be enhanced
with Esri's solutions,
the world's market leader in GIS software.*





METU Biology Department AquaCosm Project

The primary requirements for the AquaCosm Project, an international research on lake biodiversity, was the control of water conditions and long range wireless data transfer using IoT. The requirements were met through a custom electronic design, data over GPRS (mobile machine communication) and a rule-based warning system. Throughout the project lifecycle, site conditions were monitored remotely via mobile and web applications.



Afyon Bioenergy Application

This project required the installation of an underground sensor network to optimize the bioenergy produced in the Afyon municipality landfill. In addition to the sensor data, daily field measurements were automated with the **evolved.city** mobile application, accelerated via Bluetooth and QR support. The project results were a hefty **18% increase** in energy production and moreover, some additional designs were completed to increase this efficiency towards a 40% peak value

