

The New Way of
GLOBAL BUSINESS



SC&P
Smart City and Partners



SC&P (Smart City & Partners)

About Us:

SCP Business Development and Software Inc. is a technology and software development company established in Ankara with 100% domestic capital in 2019. The company, which develops Smart City applications and software in particular, also carries out research and development activities in design, mechatronics and electronics. SCP company, which has realized the firsts in Turkey in the Internet of Things (IOT) technologies, is also the developer and implementer of 14 different new generation Smart City Management Modules that enable the field personnel to monitor and record their duties and jobs instantly.

Thanks to these modules, public and private sector organizations can follow live what hundreds of different teams are doing and will do in the field; assign instant tasks and monitor the performance of teams. All work done is recorded and can be reported instantly. Thus, organizations can optimize the performance of field work while increasing the speed and quality of service, and increase the performance and motivation of teams. Analysis and continuous improvements can be made with the data obtained over time.

In addition, as of 2021, it has received certifications and trainings to receive SAR, LIDAR, 13 Band Optical data from 17 different satellites to both ESA (European Space Agency) and NASA (American Space Agency) agencies and has gained many environment and change monitoring capabilities with Remote Sensing by processing application vision.

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What Is Smart Green Field Irrigation System (AYASS)?



Smart Green Field Irrigation System (AYASS) is an environmentally friendly and high-tech Smart City application.

In parks and green areas, by using Internet of Things technology, continuous soil moisture data is collected from the park, weather forecasts are analyzed, and irrigation works are carried out remotely and labor-free based on artificial intelligence and data.

As a result of the increasing drought in the world in recent years, the most efficient use of water has become vital for Green Areas Management Project and Landscape areas. The system saves %20-25'e water, %75 savings in Labor and Maintenance Costs. In addition, in cases such as water leakage and pipe damage that may occur, teams can intervene in the system within 3 minutes from anywhere.

Current Applications

The project, software and equipment implemented by SCP is up and running for 2 years in parks of Ankara, and Istanbul. We are currently working on other applications on lake and coastal monitoring and city waste disposal sites.

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System Setup and Operation



With the Smart Green Areas Irrigation System (AYASS), humidity sensors have been installed in the landscape areas, and in line with the incoming moisture data, the green areas are irrigated as much as necessary (neither more nor less), thus ensuring the ideal care of the existing vegetation. In addition, the control of water leakage and difficult to detect and costly to repair such as water leakages and pipe break down in the irrigation line are detected in a timely manner, and maintenance and repair services are carried out remotely, always one step

ahead, in accordance with the principle of proactive maintenance.

What makes AYASS unique is the LoRa communication protocol, which allows data transfer up to 5 km distance. Thanks to low power consumption up to 3 year of battery life requires low maintenance, it is the combination of all sensors in the field with cost-effective, fast installation possibilities with the Plug-Play principle without the need for any electrical infrastructure. With its expandable system architecture, it saves on labor and resource usage costs by making operations such as Irrigation and Lighting in Green Areas in different parts of the city 100% Personnel Independent.

Not only the irrigation system:

Island Web-Based Traceable and Controllable Infrastructure of Irrigation Systems has been architected to accommodate further IOT solutions such as various sensor reading, street light management, parking lot management and many more.

Moreover, our video/image processing capability can also be integrated to monitor areas and manage and analyze crowds and mass behaviors.

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Benefits of Smart Green Field Irrigation System

1. Watering as needed. Neither more nor less.
2. 20%-25% Water saving.
3. 70% Saves on labor costs
4. Constant monitoring of the health of green spaces.
5. Watering an area deeper than 2.5 cm in grass areas causes mineral loss in the soil. Mineral loss is prevented by irrigation as much as necessary.
6. Excessive watering causes rotting of plant roots.
7. It provides analysis and continuous development with reliable and continuous sensor data.
8. It enables proactive maintenance services and provides immediate intervention in case of loss and leakage.
9. It is a low power consumption and plug-and-play system.
10. With its expandable infrastructure, it makes it possible to collect and process all kinds of sensor data.
11. It provides the possibility of synchronized irrigation and data collection of green areas in different places.
12. Remote control and intervention capability with system software.
13. The system complies with outdoor conditions with IP 67 packaging.
14. LoRa communication technology is used.
15. With one sim card for each hub, the data is taken to the cloud.
16. There is no need for a separate sim card for each sensor or control unit. Therefore, the data transfer cost is very low.
17. It offers Web-based instant access and control of all Valves and Sensors.
18. With automatic irrigation planning, it automatically plans the daily irrigation amount and time according to the weather.
19. By reading the meter data, instant water consumption and annual water consumption data are monitored.
20. With the pressure sensor to be placed on the pipeline, line leaks and damaged sprinklers are monitored.
21. In green areas such as Parks and Gardens, the maintenance of the entire water line and the analysis of lost leaks are monitored instantly.

For Questions, Suggestions and Detailed Information Please Contact Us

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