SUSTAINABLE SOLUTIONS IN BUILDING SMART CITIES

INTERFACE
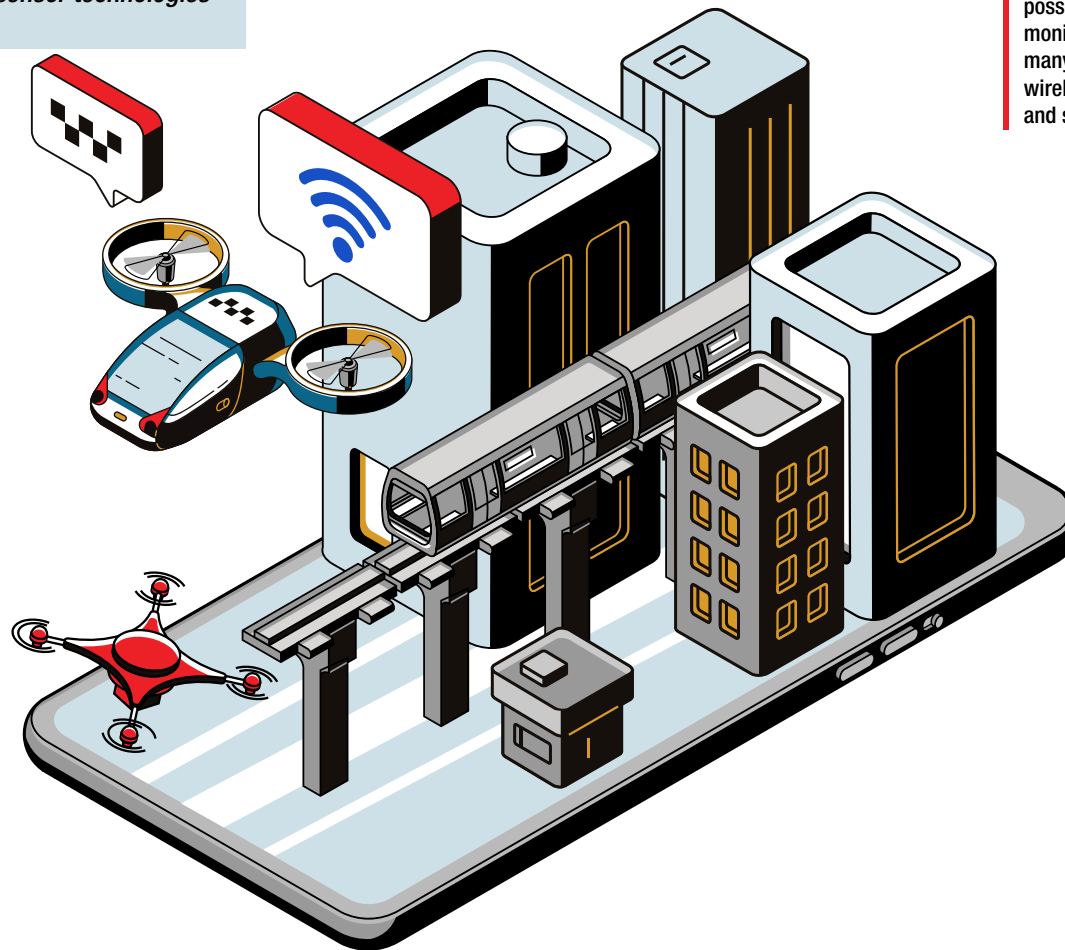FORCE MEASUREMENT SOLUTIONS.

Smart infrastructure is on the rise as advanced technologies are integrating into traditional systems in order to create more efficient, sustainable, and connected environments. The power of data and sensors transforms smart infrastructure sectors such as transportation, water, waste management, and energy for everyday life. Not only does it enable the optimization of resource allocation, it also leads to reduced costs and an enhanced quality of life. Smart cities and communities can create a more sustainable and cleaner future when using sensor technologies for advancements in infrastructure.

The smart infrastructure segment is projected to be the largest segment over the **next five years**. The revenue from smart city infrastructure is forecast to grow to more than **100 billion U.S. dollars by 2024**, a share of more than **40%** of the total smart city revenue worldwide.

The Internet of Things (IoT) technologies solutions from Interface help to lay the foundation architecture of smart cities. By deploying a vast network of smart devices that work together to collect and analyze data and perform, making smart cities possible. From ground-up to monitoring transports, there are many uses for Interface load cells, wireless and digital insturmentation and specialized sensors.

The integration of Interface load cells into environmental monitoring systems empowers scientists, engineers, and environmentalists to collect precise data on a wide range of environmental factors. This data facilitates enhanced comprehension, analysis, and effective management of natural resources, ecosystems, and the influence of human activities on the environment in smart communities.

Nothing goes to waste in smart cities. Interface's force sensor technologies can be placed in city waste containers to determine when they are full or implement dynamic traffic light sequences, among thousands of other possibilities.

Interface load cells are essential in sustainable transportation for smart cities and smart communities, including vehicle weight monitoring, fuel efficiency optimizatino, electric vehicle charging, and public transit load management.

Interface Solutions for Smart Cities

Sources:
Bergur Thormundson. Smart Cities- statistics & facts. Statista. April 27, 2023.

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