Siemens at Expo 2020 Dubai

Overview

- Siemens has participated in World Fairs since the very first in London, in 1851, where company founder Werner Von Siemens unveiled his pointer telegraph for the first time.

- As the Premier Partner for Infrastructure Digitalization at Expo 2020 Dubai, Siemens is turning the site itself into a showcase for smart applications and creating a blueprint for future smart cities.

- With millions of visits over a period of six months and hundreds of buildings, Expo 2020 Dubai is essentially a small city.

- Siemens is using digital building technologies to gather data from thousands of connected sensors across the Expo site and push the information to MindSphere, Siemens' cloud-based operating system for the Internet of Things.

- Site and building managers can analyze and visualize the data with a web-based app developed by Siemens, enabling them to make real-world decisions that will optimize operations and reduce emissions and waste.

- Siemens is helping deliver a connected and digitalized Expo 2020 Dubai, and the technology can be applied to other cities that are developing smart infrastructure.

What Siemens plans to achieve at Expo

- Cities are under pressure. More than two-thirds of the world's population will live in urban areas by 2050.
- This is creating a wide range of challenges, such as poor air quality in Los Angeles, inefficient water systems in Buenos Aires, and perennial gridlock on roads from London to Mumbai. The solution: data.
- All cities are creating data; they just aren't gathering and using the information effectively. Siemens, through the Expo project, will show how this data can make cities better for society and the environment.

History's Most Connected Expo, with a Legacy

- Siemens technology runs in the background, so most people won't see it – but every one of the millions of visitors will benefit from it.
- Digitalized infrastructure will improve energy and water efficiency, safety, security and visitor comfort.
- An app will collect, monitor, correlate and analyze data from the site, and visualize it to allow real-time monitoring and control of infrastructure.
- The app allows operators to define thresholds – for example, for water and energy consumption and noise levels, and then provides the insights and transparency needed to manage the entire site.
- After Expo winds down, 80% of its buildings and infrastructure will remain in place to form part of a sustainable new urban district of Dubai, known as District 2020. Our technology will live on across the site, and we will be an anchor tenant of District 2020.

The Technology

- MindSphere is Siemens' cloud-based operating system for the Internet of Things. Essentially it connects products, plants, systems and machines – anything that creates data and uses advanced analytics to generate real intelligence and insights into the data.
- Siemens works with customers across many industries, from energy to aviation, to build applications, connect assets and get full transparency over their data-generating infrastructure and optimize it to be faster, more efficient and more reliable.

- At Expo, Siemens is demonstrating how buildings, machines and facilities can be digitally connected to help conserve water and energy, and reduce emissions – all while enhancing visitors' safety and comfort.

For more information
Siemens Expo 2020 Website
Expo 2020 Dubai Website

Press releases on Siemens project at Expo2020 Dubai:
- Expo 2020 Dubai opens as a future city blueprint, digitalized with Siemens technology
- Siemens signs 10-year lease agreement at District 2020
- New Siemens smart city app connects Expo 2020 Dubai to the Internet of Things
- Siemens launches 'Expo Explorers' storybook for children two years before Expo 2020 Dubai