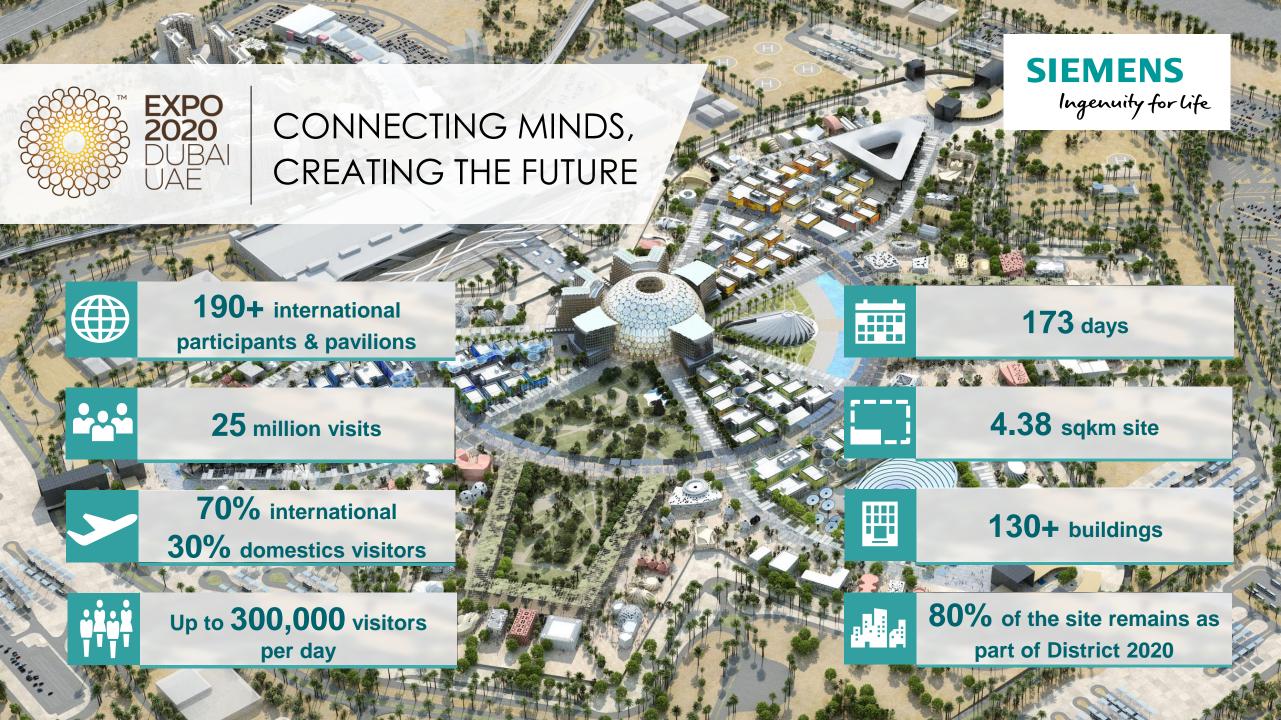**SIEMENS**
Ingenuity for life

CONNECTING AN ALL-ELECTRIC WORLD

Expo 2020 Dubai: an example for digitalized infrastructure as the foundation for future smart cities

Oliver Kraft I Executive Director, Expo 2020

siemens.ae

EXPO 2020 DUBAI UAE

CONNECTING MINDS, CREATING THE FUTURE

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190+ international participants & pavilions

25 million visits

70% international **30%** domestics visitors

Up to **300,000** visitors per day

173 days

4.38 sqkm site

130+ buildings

80% of the site remains as part of District 2020

What are the challenges for cities today?

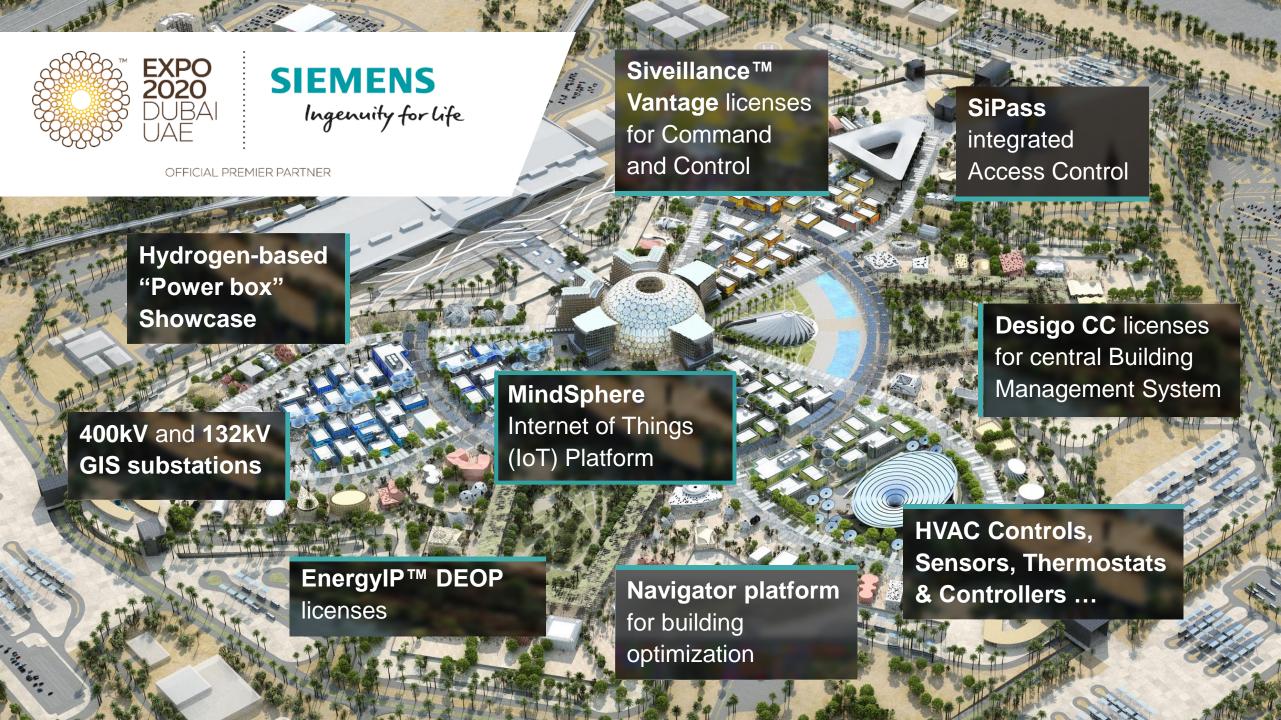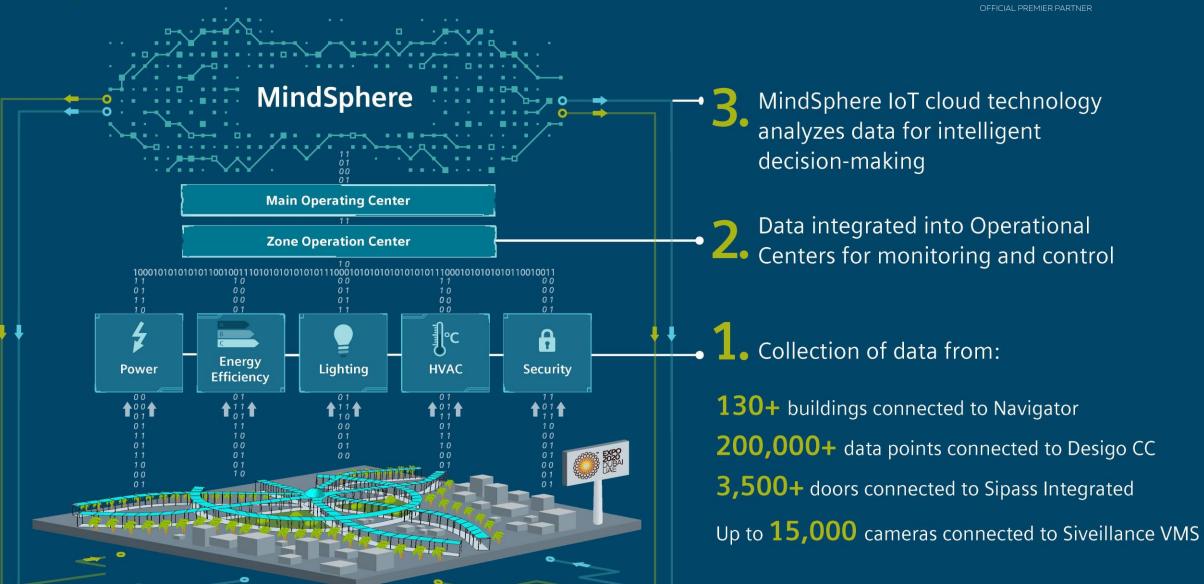|						
Air Quality	Water Quality	Public Transportation	Resource efficiency	Waste Management	Parking Management	Energy efficient buildings
Public safety	Reliable Energy	Energy Distribution	Sustainability	Cost-Efficiency	Healthcare	. . .

To successfully tackle those challenges, Smart Cities need a platform that can power IoT applications.

The right one will aggregate, process, analyze, visualize and interpret the data that smart devices generate

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OFFICIAL PREMIER PARTNER

Siveillance™ Vantage licenses for Command and Control

SiPass integrated Access Control

Hydrogen-based "Power box" Showcase

Desigo CC licenses for central Building Management System

400kV and **132kV** GIS substations

MindSphere Internet of Things (IoT) Platform

HVAC Controls, Sensors, Thermostats & Controllers …

EnergyIP™ DEOP licenses

Navigator platform for building optimization

Siemens works with Expo 2020 Dubai to create a blueprint for future cities

MindSphere

Main Operating Center

Zone Operation Center

Power

Energy Efficiency

Lighting

HVAC

Security

EXPO 2020 DUBAI UAE

3. MindSphere IoT cloud technology analyzes data for intelligent decision-making

2. Data integrated into Operational Centers for monitoring and control

1. Collection of data from:

130+ buildings connected to Navigator

200,000+ data points connected to Desigo CC

3,500+ doors connected to Sipass Integrated

Up to **15,000** cameras connected to Siveillance VMS

MindSphere – the IoT platform for infrastructure at Expo 2020, setting a benchmark for Smart Cities globally

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Navigator

Energy monitoring and analytics platform for buildings

EnergyIP DEOP

Monitoring energy flows on Expo site to provide sustainability indexes

Environmental Monitoring

Measure, track & control air quality, noise level, humidity, etc.

Smart Lighting

Utilize lighting data to ensure efficiency and conserve energy

Smart Irrigation

Utilize irrigation data to ensure efficiency and conserve water

The Siemens-Expo 2020 partnership will inspire governments, businesses and visitors to see cities through a new lens

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B2G
Inspire nations and local governments to **unlock their potential to transform their communities** by building the world's most connected, digitalized and intelligent cities

B2B
Encourage Expo Partners, SMEs and other companies to **harness the power of IoT** to achieve operational efficiency gains, increased productivity and more

B2C
Deliver technologies that **provide safety, comfort and convenience** to ensure a seamless experience for all visitors of Expo 2020 Dubai

**Comfort, safety and security for happy communities in smart cities
– Siemens digital tech makes it happen!**

Thank you for your attention

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