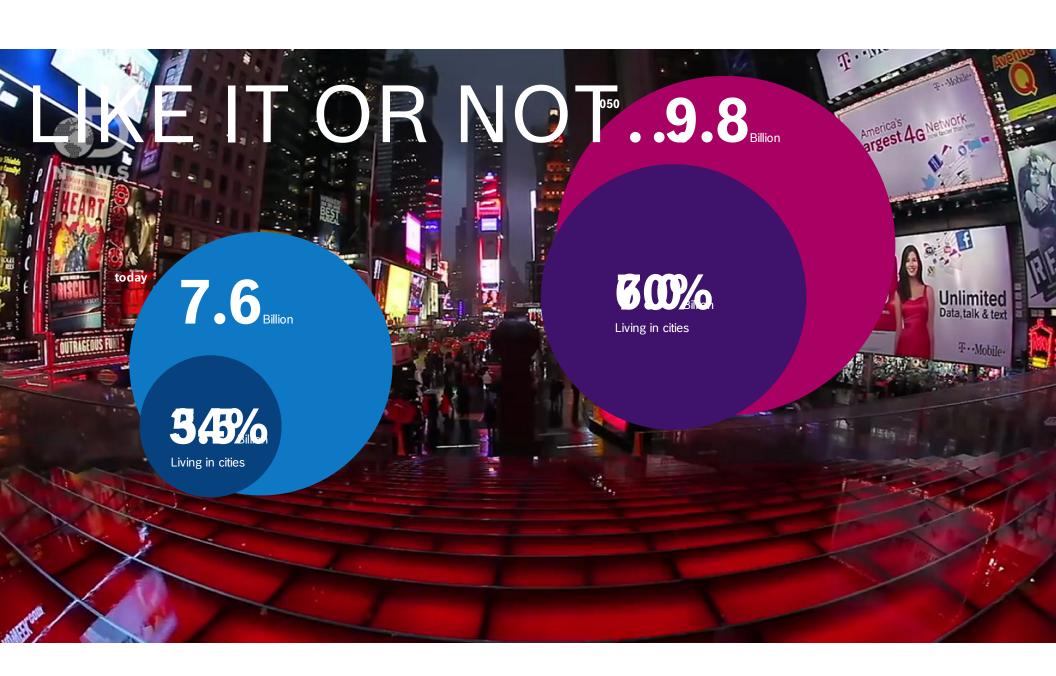
SMART CITIES OF THE FUTURE & TECHNOLOGY SOLUTIONS

Guru Mallikarjuna

Managing Director of Bosch Vietnam

22 October 2020





BUT HOW DOES THIS CHANGE YOUR **EVERYDAY LIFE?**













GOOD NEWS: YOU DON'T HAVE TO LIKE THAT PART ABOUT URBANIZATION!



















BOSCH = (**) +



















Virtual power plants

Energy-efficient heating, hot water & cooling systems



Connected home appliances



Smart homes



Connected building

Bosch solutions

Energy



Buildings



E-Mobility



Connected parking



Mobility





Fleet management



Environmental monitoring



E-Scooter



E-governance



Community app



Safety & security solutions



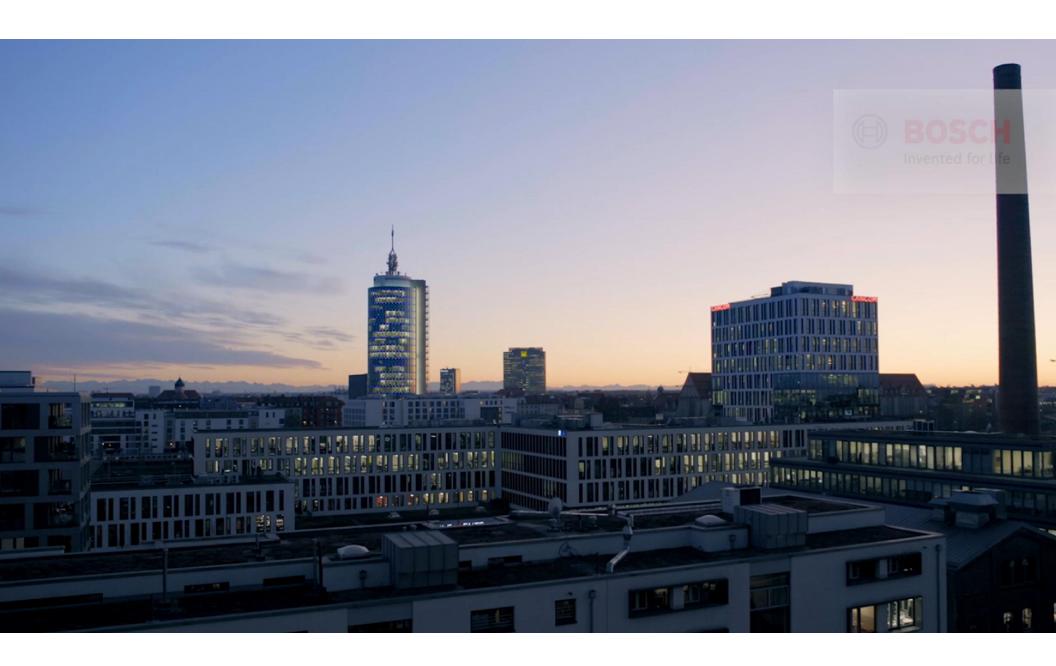
security

Flood recognition





SMART BUILDINGS: LANDSCAPE OVERVIEW AND BOSCH OFFERING



Trends in the Building Industry

Challenges from digitalization, urbanization, and climate change

Current trends and challenges

Construction boom due to demographic change and urbanization ('megacities')

Energy efficient and sustainable property utilization due to policy requirements, consumer demand, and cost savings over the entire life cycle

Workplace transformation by increasing co-working, freelancing, non-stationary work, and creating optimal working conditions

Digitalization of the building and construction industry (building information modeling – BIM)

Leveraging efficiency potential in buildings¹



10-15%

more productivity could be achieved by improving indoor air quality



20-30%

of maintenance and energy costs can be reduced using intelligent services



50-60%

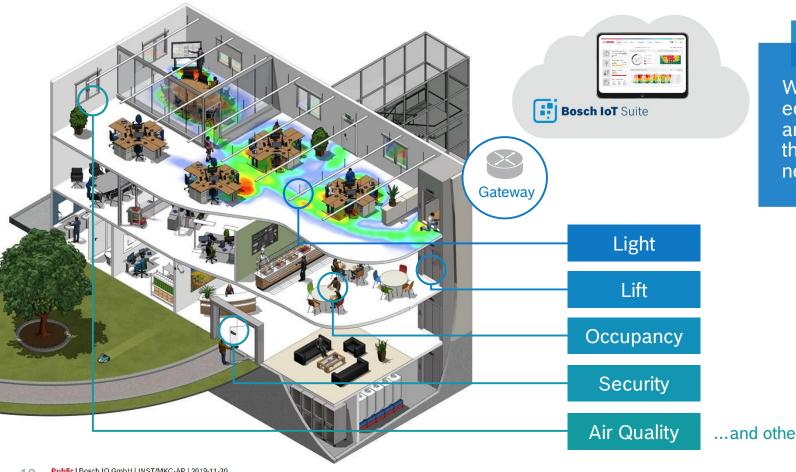
of desks in office buildings go unused for a significant period of time

1) Data provided by customer surveys and Machina Research

Public | Bosch.IO GmbH | INST/MKC-AP | 2019-11-20



Bosch Connected Building Solution



We make buildings smart by equipping them with sensors and connecting the sensors through state-of-the-art networks and software

...and other use cases



Bosch Connected Building Solution

We connect a large variety of devices and sensors







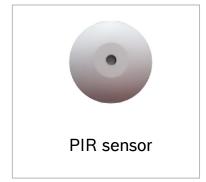














Bosch Connected Building Solution

Features and benefits







Open APIs for easy integration with BIM, BMS and 3rd party solutions



Bosch solutions for commercial buildings Reference projects across the globe



Suzhou Center: Future-oriented security for cutting-edge multi-purpose complex in China



Messe Frankfurt: Best-in-class security technology for visitors and exhibitors



smart office with digital data services



Adana Integrated Health Campus, Turkey: integrated security system to protect the entire campus

LifeCycle Tower ONE in Dornbirn: advanced lighting solution with highest standards of sustainability and user comfort







