

An aerial view of a city skyline, likely New York City, featuring prominent skyscrapers like the Empire State Building. The image is overlaid with a digital network of glowing blue lines and nodes, suggesting smart infrastructure and data connectivity. The sky is filled with soft, white clouds.

SIEMENS

Ingenuity for life

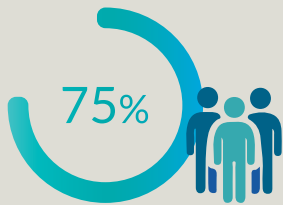
Smart for the new normal

Smart Buildings – delivering
operational excellence and
enhanced occupant experience

www.usa.siemens.com

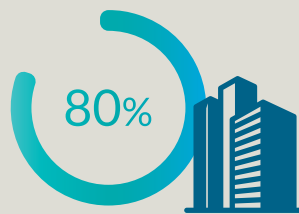
Smart buildings provide a perfect place, create a competitive edge and care for the people in them.

By 2030, millennials will make up



of the workforce, driving new work models and flexible work spaces¹

Operating costs can add up to



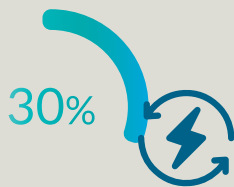
of a building's life cycle costs⁴

High performance buildings create up to a



increase in employee productivity⁷

On average



of energy is used inefficiently or unnecessarily²

Due to competition for talent



of companies have difficulties in retaining employees⁵

Occupant productivity, retention and wellness benefits may deliver an annual profit of



per square foot⁸

Up to



of commercial real estate space is unused or underutilized³

Facilities staff spend



of every day troubleshooting problems and managing repairs⁶

¹US Bureau of Labor Statistics

²US EPA

³IMB Institute for Business Value

⁴Greenspace, NCR Inc

⁵go.globoforce.com/rs/862-JIQ-698/images/Globoforce_SHRM_2015.pdf

⁶Raising the Bar: From Operational Excellence to Strategic Impact in FM Occupiers Journal / IFMA March 2017

⁷Stok: The financial case for high-performance buildings

⁸Stok: The financial case for high-performance buildings

Smart for the New Normal

Smart “Connected” Buildings capture data, generate insights, optimize performance and contribute to your organization's goals... delivering the ideal occupant experience.

1 From your home

- Check the availability of office/desk space using the Comfy app
- Book your preferred workspace
- Check transit schedule with the Comfy app before leaving home

2 Arriving at work

- Use the Comfy app to locate the entrance and securely enter the building
- Enter the office building with the safety of others in mind via temperature monitoring
- An elevator is automatically called to take you to your office floor
- Adjust your workspace to your personalized temperature and lighting preferences

3 Find colleagues and book meeting rooms

- Find your co-worker before booking a meeting
- Locate equipment needed for meeting
- Find a meeting room and book instantly (integrated to the calendar system)
- Use the Comfy app to find the best route to the meeting room
- Join your colleague and enter a healthy, decontaminated meeting room

4 After the meeting

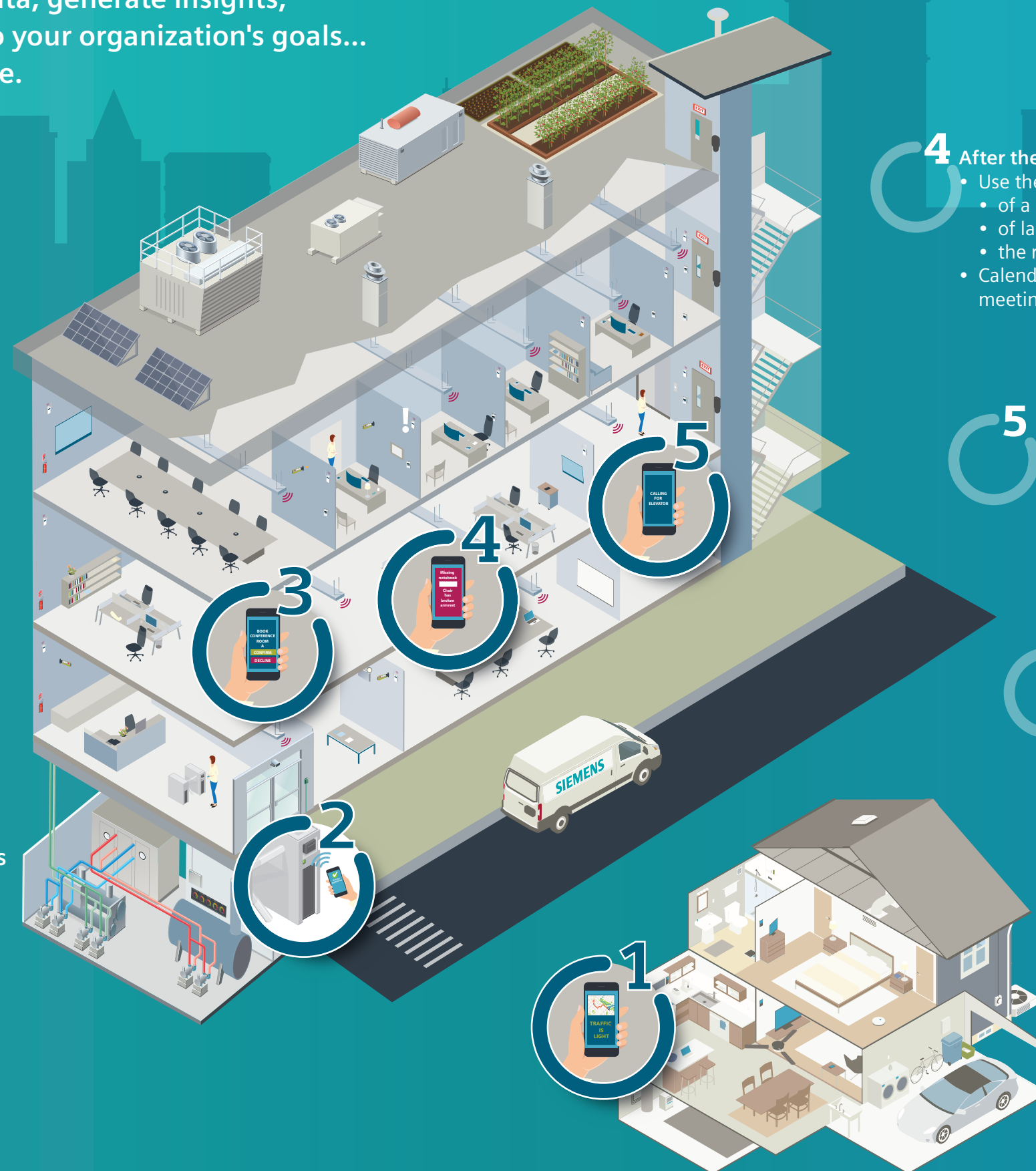
- Use the Comfy app to notify Facilities
 - of a lost item left in the meeting room
 - of lamps that are out, desk chairs that are broken, etc.
 - the room needs cleaning. Valuable in COVID conditions
- Calendar system ensures there is time between meetings to properly decontaminate the room

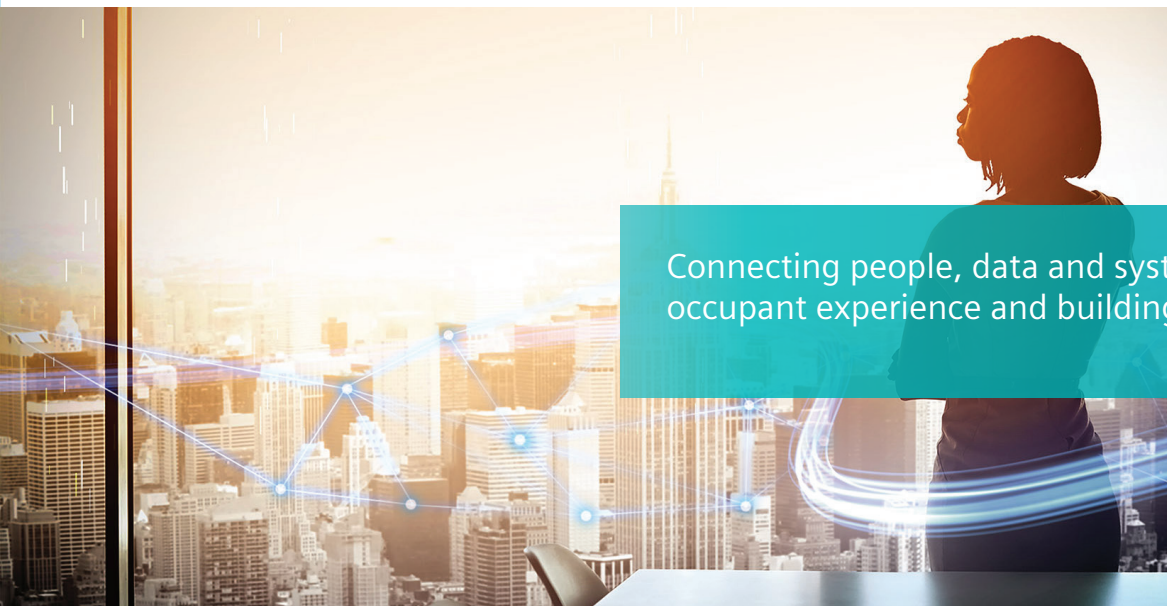
5 Leaving for the day

- Plan after-hours activity using the Comfy app
- 3rd-party integration for info on restaurants, gym classes, etc.
- Exit office and arrive at a waiting elevator
- Use the Comfy app to check transit schedules

! In the event of an emergency...

- *If the power goes out*
 - The building's microgrid seamlessly takes control of the building's power
 - And, your power stays on
- *If there's a fire*
 - The fire department is automatically notified
 - Dampers are activated
 - Mass notification leads people safely out of the building
 - IoT sensors locate people still in the building
 - Suppression system extinguishes the fire
 - After the incident, detailed information on building systems and response can be accessed
- *In the event of a pandemic*
 - Sensing functionality performs contact tracing to identify areas within the office that had higher traffic and require deeper cleaning





Connecting people, data and systems to optimize occupant experience and building operations

Healthy Environments

- Check building occupants' skin temperature
- Decontaminate office space with ionization technology
- Supports efforts to protect employees via contact tracing
- Leverage IoT to manage the level of building occupancy and density
- Maintain air quality and ventilation

Sustainability

- Power your building with resilient and sustainable onsite power, with battery storage and microgrid control
- Pursue Industry Certifications (LEED, Energy Star, Well Buildings)
- Save water with high efficiency irrigation
- Monitor CO2 emissions via environmental monitoring
- Integrate into renewable energy sources
- Charge cars with EV charging that is tied directly into the building automation system
- Get the energy metering data you need for energy reduction programs

Employee Experience

- Set worker's ideal environment conditions using the Comfy app
- Provide safe and secure buildings with fire and security systems
- Reserve preferred office / workspace
- Obtain emergency warnings & corporate notifications
- Charge cars with EV charging that is tied directly into the building management system

Reliable and Efficient Power

- Safeguard uninterrupted, secure, critical power with microgrids and complete systems for onsite power generation including emergency or standby power, peak shaving/load curtailment, utility paralleling, cogeneration, and prime power
- Remotely and safely configure, control and monitor the electrical infrastructure
- Fully integrate monitoring to ensure full operability even with limited staff
- Ensure electrical safety with reliable low- and medium-voltage power distribution
- Improve power quality with fault notifications that alert the building system within milliseconds.
- Expert service engineers on call 24/7

Lower Operating Costs

- Reduce maintenance with preventative, predictive and digital services
- Utilize intelligent lighting and temperature control
- Use the energy you need, when you need it – with advanced meters and controls
- Measure, monitor and analyze power quality and efficiency to drive reliability and reduce energy costs
- Realize savings through energy procurement services
- Access real-time/historical energy data to identify potential ways to reduce costs
- Integrate disparate building systems to obtain system interoperability
- Maximize office space utilization

Reduced Construction Costs

- Leverage Pre-Construction planning and services
- Save using factory preconfigured solutions and Design Assist
- Create a technology master plan
- Lower construction costs using a converged network

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