Raise the value of your buildings to new heights



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# DEAR CUSTOMER,

It is my great pleasure to introduce you with KONE high-rise info package, a selection of the best people flow solutions and technologies available.

Our global team of experts at KONE Major Projects is ready to help you anywhere in the world with your most challenging and complex projects!

The ultimate goal is to design the right people flow for your unique needs.

Many of you have already trusted us as a partner, sharing your visions, challenges, and expectations for the future. Such co-creation dialogues are of paramount importance to offer you distinctive solutions.

This collaboration has helped us identify the core drivers to rethink and reimagine ways of working, living and playing in high-rise buildings.

We were proud and excited to introduce you with the latest solutions for high-rise buildings last November 2020 and since then the journey continues towards helping you raise the value of your buildings with:

- · seamlessly connected solutions now and in the future
- elevated user experience to a higher level
- smart and most sustainable ways to plan, build, operate & upgrade your building

Our aim is to share KONE's latest thinking and insights around the high-rise with our customers. We truly hope this will lead you to realise your vision as well as solve challenges in ways previously unimaginable.

We look forward to collaborating and succeeding in your future project!

Samu Salmelin Head of Technology and Offering Development KONE Major Projects







# **RETHINKING HIGH-RISE**

The high-rise game is changing and needs to be rethought. We are telling the story of the next era of high-rise buildings.

Whether it was built this year or during the golden age of skyscrapers, a high-rise building will undergo a variety of transformations, as it adapts to the needs of the people using it.

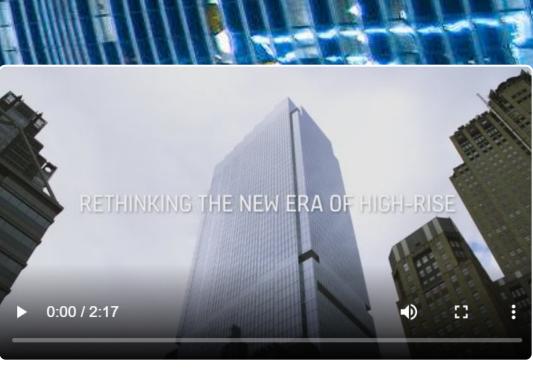
An array of smart, sustainable solutions is making a series of transformations ever-more possible, allowing developers to future-proof new buildings, and breathe new life into older ones. Innovation in fields as diverse as connectivity, people flow, access solutions, and even entertainment mean that no building needs to be left behind.

The importance of high-rise buildings in being able to cope with changing user demands has never been more significant. The Covid-19 crisis, the advent of 5G, artificial intelligence, the use of data and sensors, combined with bolder ambitions for urban sustainability, all point to a need for greater flexibility for high-rise buildings.

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Reimagining the office vision paper  $\rightarrow$ 



Rethinking the new era of high-rise 🚽



Rethinking high-rise living

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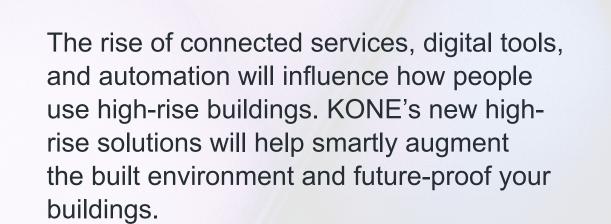


Rethinking high-rise working



#### $\square$

# RAISE THE VALUE OF YOUR BUILDING TO NEW HEIGHTS



### **SEAMLESSLY CONNECTED** SOLUTIONS NOW AND IN THE FUTURE

floor

KONE Office Flow	$\rightarrow$
Advanced Destination Control System (ADCS)	$\rightarrow$
KONE Digital platform	$\rightarrow$





## SMARTER AND MOST SUSTAINABLE WAYS TO PLAN, BUILD, OPERATE & UPGRADE

KONE People Flow Planning and Consulting	-
KONE ReGenerate™ 800 DX and	
ReSolve™ 800 DX	-
KONE Modernization Overlay	
KONE UltraRope®	-
KONE JumpLift	-
KONE 24/7 Connected Services	

## ELEVATING **USER EXPERIENCE TO A HIGHER LEVEL**

KONE Digital Experience Car	-
Health & Well-being solutions	-
Automated Adjustment Tool (AAT)	-

# ☆ ⊡ 広 ≔ ☆ ⊡ ク タ KONE OFFICE FLOW

KONE Office Flow is a modular, connected solution that adapts with the needs of your building and its users, providing smooth people flow with touch-free access and personalized user experiences that make office environments more attractive and efficient.

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KONE Office Flow video	$\rightarrow$
Office Flow - Introduction	$\rightarrow$
Office Flow - Tenant	$\rightarrow$
Office Flow - Visitor	$\rightarrow$
Office Flow - Design	$\rightarrow$
Office Flow - Adaptability	$\rightarrow$



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KONE Lane animation



KONE Office Flow one-pager



An innovative and compact turnstile solution for smart office environments.

integration to elevators, various access options, and clear guidance Enhances tobbies in smart office buildings with innovative design, compact footprint, digitally programmable lighting, and a variety of color options

<image>

KONE Lane two-pager

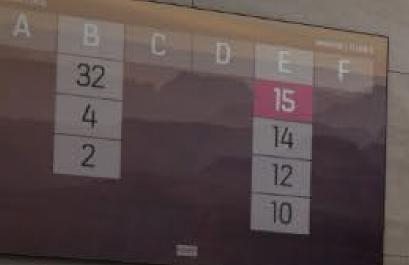
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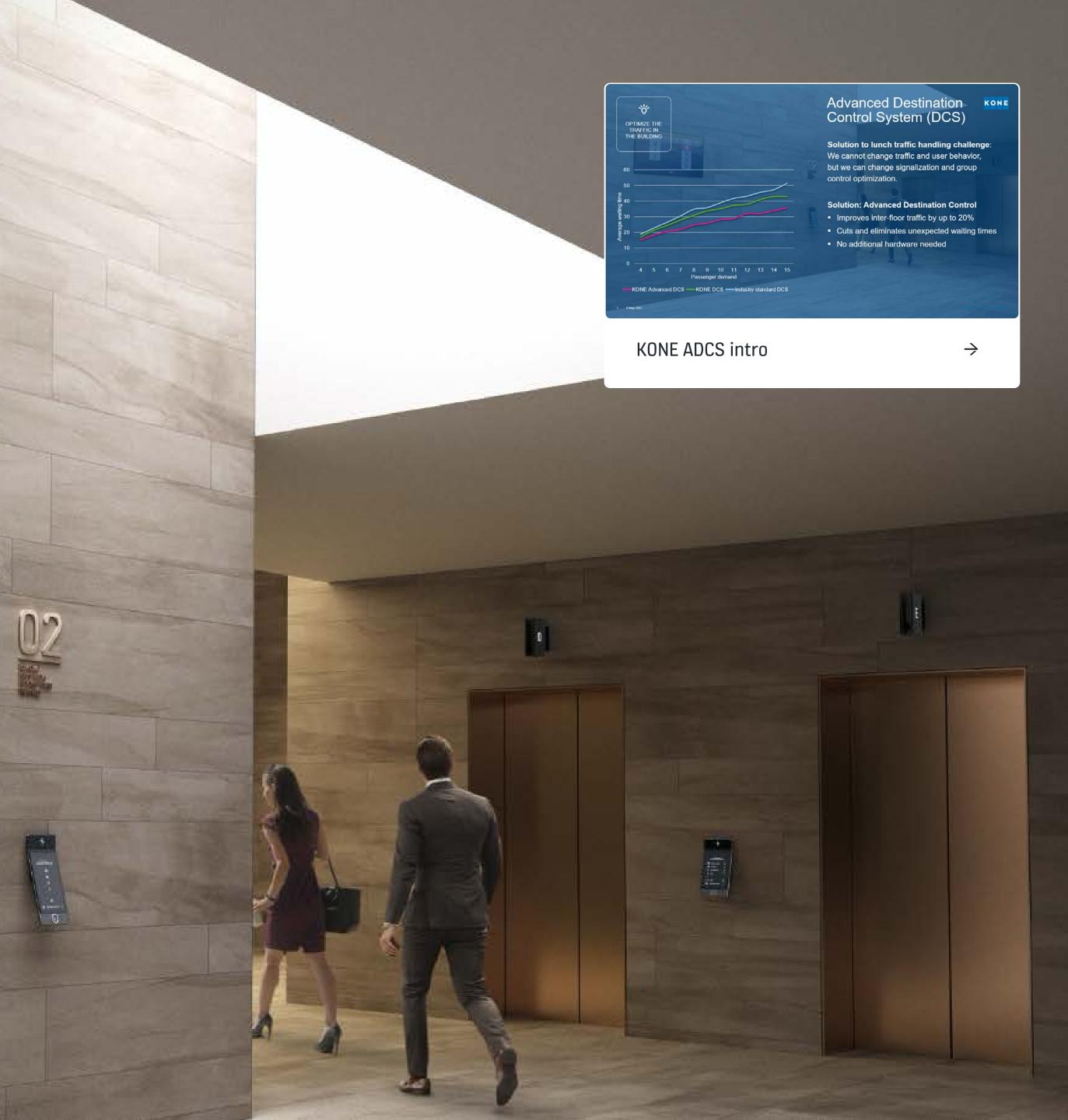


The Advanced Destination Control System solution is great to boost busy morning uppeak traffic in office buildings, the ADCS can gather passengers traveling to the same destinations in the same elevators, which reduces elevator stops and increases uppeak handling capacity. Challenge comes at lunch time with mixed traffic when others are leaving for lunch and others returning. ADCS do not yet perform optimally during mixed lunch traffic and waiting times are getting longer.

> "Now with the Advanced DCS, we don't have to sacrifice lunch time traffic anymore when having DCS system in the building."



– WSP Global (KONE customer)

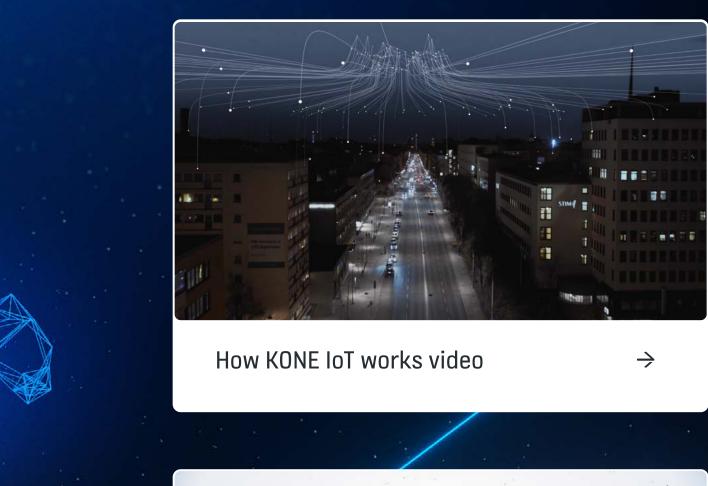


# KONE DX CLASS ELEVATORS

In an increasingly digitalized world, everything is connected. KONE DX Class elevators redefine the elevator experience with built-in connectivity for improved people flow – helping to create an experience that connects on every level.

### API DEVELOPMENT PORTAL

A smart elevator experience makes your building a more attractive prospect for tenants and visitors alike. Future-proof your building with market-leading elevator technology enhanced with connectivity.

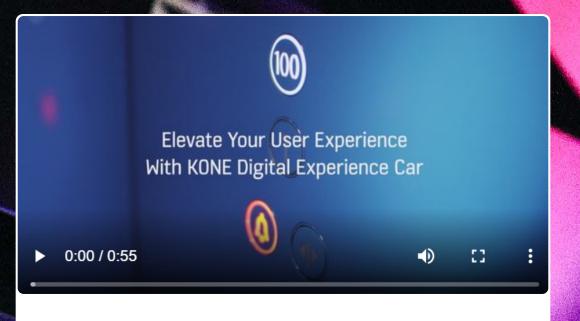






# **KONE DIGITAL EXPERIENCE CAR**

Enter a whole new world of multi-sensory experiences. From dynamic sound, to vivid colors, and engrossing themes – the KONE Digital Experience Car can be tailored to enthrall the senses. Enable a journey unlike any other for your building users.



KONE Digital Experience Car hero video  $\rightarrow$ 

Floor



KONE Digital Experience Car LED feature video

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KONE Digital Experience Car mirror feature video

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Elevate Your User Experience th KONE Digital Experience Car

KONE Digital Experience Car sound feature video



Näsinneula Observation Tower (Finland) customer testimonial  $\rightarrow$ 





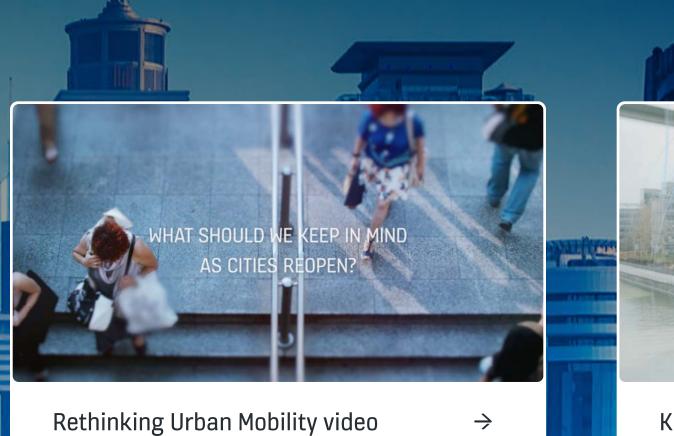


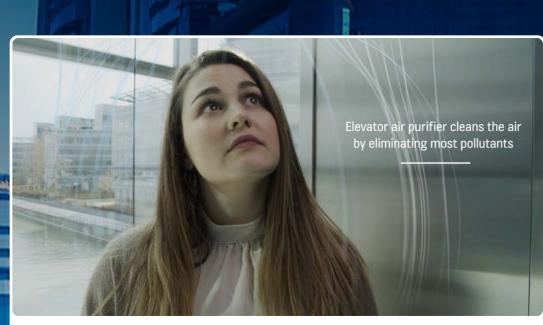
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# HEALTH AND WELL-BEING SOLUTIONS

We are living in unprecedented times. Everyone is wondering if this is the new normal. If it is, how will it affect our lives and influence mobility both in the short and long-term and what can we do about it?

How people interact with everyday environments is set to change. KONE's people flow expertise, together with a range of health and well-being solutions, will help recreate safer user journeys and healthy spaces in your buildings.





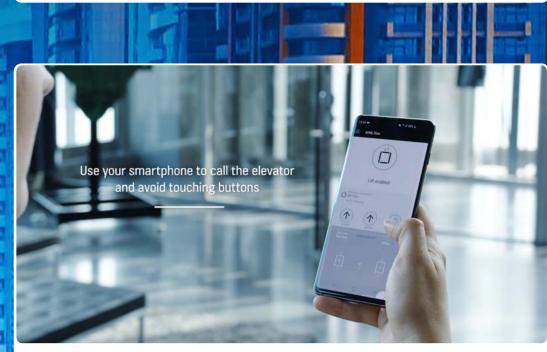
**KONE AirPurifier video** 

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RE-OPEN – Best practices guideline

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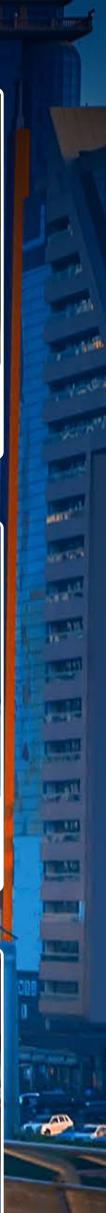
KONE Elevator Call video

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KONE Handrail Sanitizer Premium video  $\rightarrow$ 

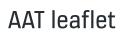


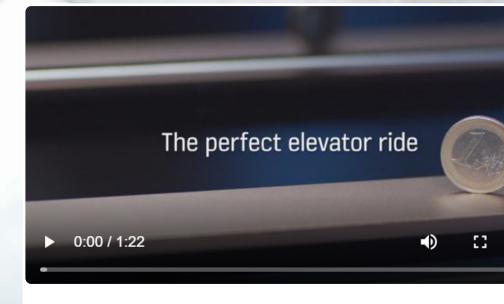
# KONE AUTOMATIC ADJUSTMENT TOOL (AAT)

Automatic Adjustment Tool adjusts the car guide rail brackets to correct position with unprecedented accuracy. This allows us to deliver excellent ride comfort quality for the customers.









The perfect elevator ride video

KONE

-1 0 1

2 3 -3 -2

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Introducing KONE Automated Adjustment Tool (AAT) video







# KONE PEOPLE FLOW PLANNING AND CONSULTING

KONE People Flow Planning and Consulting helps you to create buildings with seamless people flow. We gather and analyze data and simulate reality to get insights into what works and what doesn't – and why.

Decisions based on accurate data mean a better user experience for everyone. We work closely with you to analyze how your building handles the flow of people and help it achieve its full potential.

**16:03** 

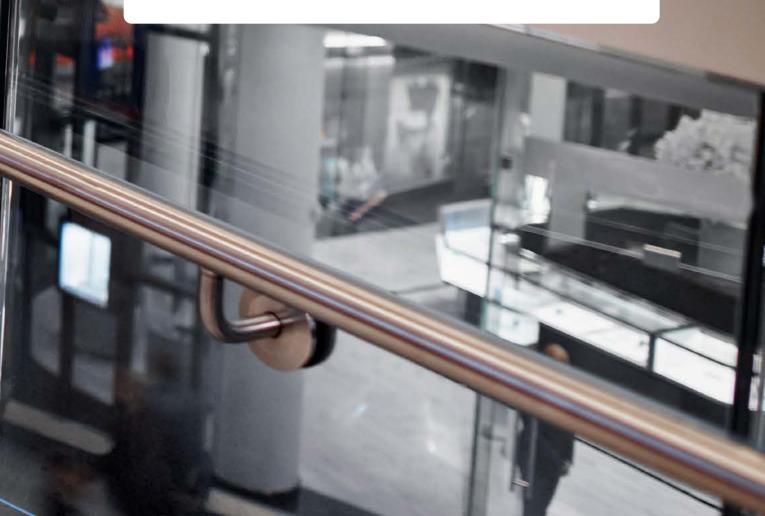
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RE-OPEN – Best practices guideline –



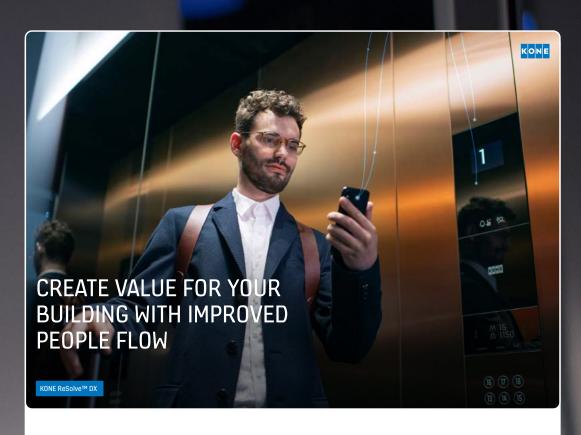
KONE People Flow Planning and Consulting video





# KONE REGENERATE™ 800 DX AND RESOLVE™ 800 DX

KONE provides tailored modernization solutions for high-rise buildings, based on our most advanced technologies. Starting from a detailed assessment of the current people flow using real-time data from digital sensors combined with accurate 3d simulations. Using KONE Modernization Overlay to provide smooth & effective people flow during the modernization project. Solutions like KONE ReGenerate<sup>™</sup> 800 DX and ReSolve<sup>™</sup> 800 DX allow us to provide a unique, efficient, and sustainable modernization solution for future-proofing the vertical transportation of any existing high-rise building.



### KONE ReSolve 800 DX brochure

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### KONE ReGenerate 800 DX brochure



# KONE MODERNIZATION OVERLAY

The KONE Modernization Overlay is compatible with both old and new elevator systems which makes it quick to install with little down-time. The overlay minimizes the disturbances modernization would cause for building's people flow and elevator operations. Together with KONE Destination the elevator handling capacity can be boosted even further with an intelligent and attractive call allocation system.

### **KONE MODERNIZATION OVERLAY**

Call allocation system for smooth people flow during modernization

During elevator modernization, you might expect handling capacity to decrease when some elevators are out of service and there are both old and new elevator groups operating in the same lobby area. With the KONE Modernization Overlay, you can minimize handling capacity decrease during modernization.

The KONE Modernization Overlay is compatible with both old and new elevator systems which makes it quick to install with little down-time. The overlay minimizes the disturbances modernization would cause for building's people flow and elevator operations. Together with KONE Destination the elevator handling capacity can be boosted even further with an intelligent and attractive call allocation system. Optimized and efficient people flow brings value to the building as well as ensures tenant satisfaction



#### FEATURES

#### Improved traffic capacity

 Increases handling capacity during mod with benefits of destination

KONE

 Improves call allocation be veen old and nev elevator groups

#### Minimized disturbance

- KONE Modernization Overlay is modular, resulting in short installation times
- Minimized out-of-service time when setting up overlay system

#### Usability • Consistent user interface at landing

- Common landing stations or destination operati panels for old and new elevators
- Smooth trans destination control

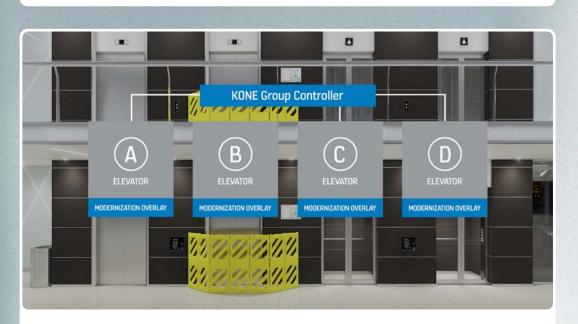
#### Compatibility

- Can interface with most types of existing elevat controls
- Compatible with destination control and full collective systems
- For different group sizes (three or more elevators)
- less elevators

KONE Modernization Overlay factsheet  $\rightarrow$ 

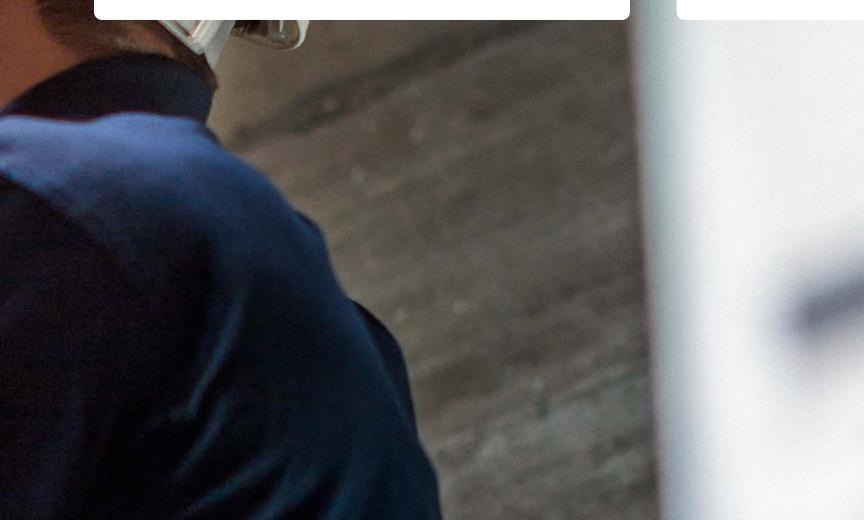


### KONE Modernization Overlay video (traditonal)



### KONE Modernization Overlay video (hybrid)

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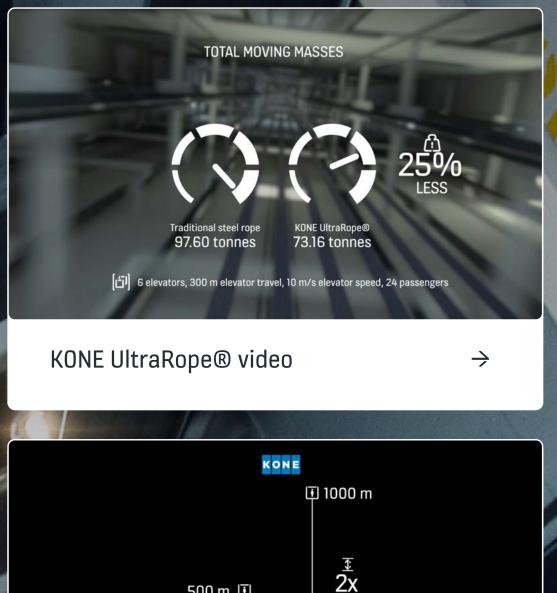
# KONE ULTRAROPE® HOISTING TECHNOLOGY

The super-light KONE UltraRope technology provides unrivalled elevator eco-efficiency, reliability and durability, while also improving elevator performance. It eliminates the disadvantages of existing steel ropes – high energy consumption, rope stretch, large moving masses, and downtime caused by building sway. KONE UltraRope can enable future elevator travel heights up to 1,000 meters.

### **REFERENCE CASES**

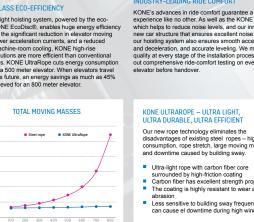
Näsinneula observation tower, Finland 110 North Wacker, USA CITIC Tower, China

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### KONE UltraRope® leaflet



₹ 2x HIGHER 500 m 🗓

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KONE UltraRope® fraditional steel rope

### KONE UltraRope® projection

KONE ULTRAROPE® TAKES SUSTAINABILITY TO A NEW LEVEL AT WORLD-CLASS CHICAGO TOWER

110 North Wacker KONE Energy Study  $\rightarrow$ 

#### KONE

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# KONE JUMPLIFT

KONE JumpLift is a construction time elevator with a temporary machine room that can be moved upwards as construction progresses. KONE JumpLift advantages: enables a faster, safer construction process, earlier closing of the facade, reduced down-time, and safer transportation in all weather conditions.

FREER

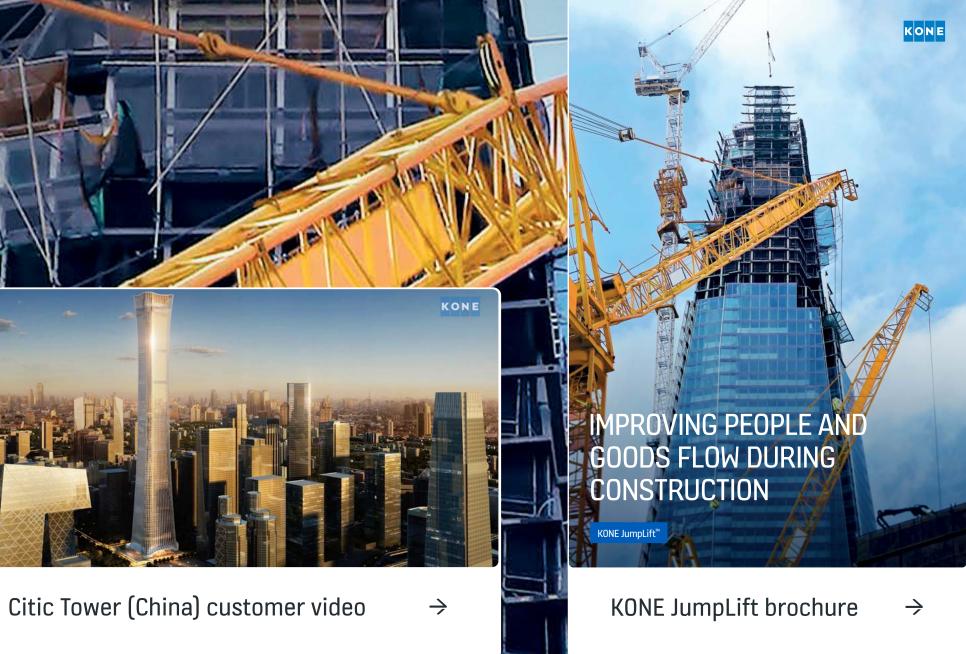
KONE JumpLift video

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KONE

# KONE



#### KONE JumpLift BUILDER'S REQUIREMENTS

The list below details the requirements for the installation of a KONE JumpLift. These are the builder's responsibility unless otherwise specified.

- Removable Deflection Deck or flat Retaining Deck as specified in site specific KONE jump plan and contract Double Protection Deck is provided by KONE. The deck will be relocated and sealed watertight according to agreement. The upper deck must be watertight and the lower deck must have fixing points for installation equipment
- Block-outs in the shaft walls for the Double Protection Deck, double protection deck, lifting beams, and mobile machin room as specified in KONE drawings and in accordance wi code requirements
- Finished floor level mark inside elevator shaft at each landing (normally the builder puts these marks outside and the instal transfers them from the landing)
- Adequate power supply for the mobile r power tools, and lighting, as specified in the KONE jump plan Support for transporting elevator construction materials to predefined floors; KONE will verify floors and staging loadings with the builder in advance
- Adequate protection for landing-door
- A dry and wind-free area below the Double Protection Deck incorporating full-height, imperforate entrance protection to open landing entrances
- A closed, lockable area adjacent to the pit area or lowest floo for the rope reels (where applicable), power cable, and main isolator/mains disconnect
- Fixed, debris-free stair access to, and continuous lighting for, a floors served by the JumpLift up to the Double Protection Decl Flat, step-free access or temporary ramps to the JumpLift car
- Intercom and telephone connection inside the car in accordance with elevator code requirements If possible, appoint a dedicated elevator attendant
- All necessary climate control devices in the mobile machin room and rope reel room according to the purchasing agreement

Full details can be obtained from your local KONE cor

Keeping lobby area accessible and tidy

KONE JumpLift builder requirements



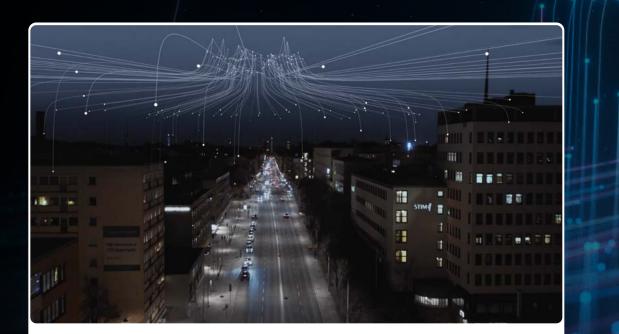




# KONE 24/7 CONNECTED SERVICES

KONE 24/7 Connected Services brings uninterrupted people flow to a whole new level. It is a service that enhances user experience, keeps you in the know and it's an investment in your building's future.

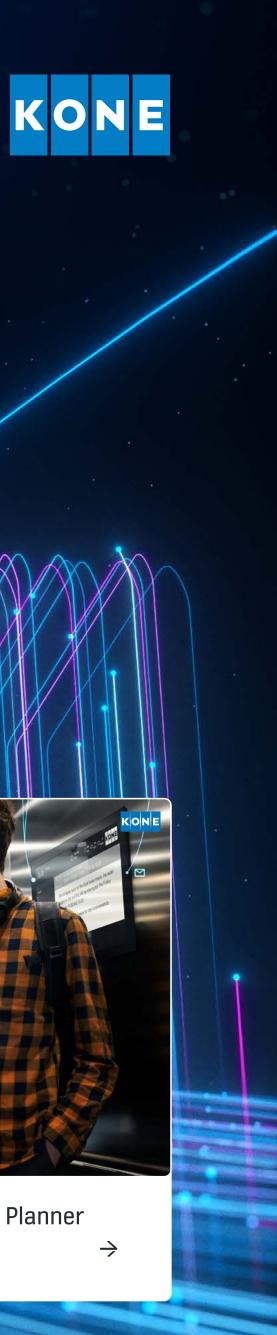
We connect your elevators, escalators, and automated building doors to our cloud-based service and use AI-based assessment of the data to provide valuable information on upcoming maintenance needs and any potential issues before they even occur.



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How KONE IoT works video





# JNINTERRUPTED PEOPLE FLOW<sup>®</sup> FROM DOOR TO DESTINATION

KONE 24/7 Connected Services for Building doors brochure

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KON

UNINTERRUPTED INSIGHT, OVER THE FULL EQUIPMENT LIFECYCLE

> KONE 24/7 Connected Services Planner brochure

# CUSTOMER CASES & TESTIMONIALS: WINNING WITH CUSTOMERS

### NÄSINNEULA OBSERVATION TOWER, FINLAND



When the elevators of Finland's tallest building needed to be modernized, KONE was called in. Learn more about the makeover that took place at the Näsinneula Observation Tower.

Special solutions in use: KONE Digital Experience Car KONE UltraRope®

### 110 NORTH WACKER, USA



110 North Wacker is the newest high-rise office building to tower above Chicago's central business district. Learn how 110 North Wacker is reshaping downtown Chicago.

Special solutions in use: KONE Office Flow KONE Destination Control System KONE Access Solutions KONE Turnstiles KONE Turnstiles KONE InfoScreens KONE E-link™ Monitoring KONE UltraRope® KONE 24/7 Connected Services



### CITIC TOWER, CHINA



Discover how Beijing tallest building speeds up construction and saves money with KONE JumpLift construction time elevator.

Special solutions in use: KONE JumpLift KONE UltraRope®

### SKY TOWER, NEW ZEALAND



Find out how the iconic Sky Tower in New Zealand upgrades to KONE UltraRope technology for better and smoother enduser experience.

Special solutions in use: KONE Polaris™ Destination Control System KONE UltraRope® technology Modernization packages

- KONE ReGenerate<sup>™</sup> 800
- KONE ReNova™
- KONE ReVive™







# WHY WORK WITH KONE MAJOR PROJECTS?

### **BESPOKE SOLUTIONS FOR ONE-OF-A-KIND PROJECTS**

When you are attempting something never done before, you turn to the leaders to design the people flow solutions you need.

## **WORLD EXPERTS FOR** SPECIAL PROJECTS

Either in size or in complexity, your project is not ordinary and needs careful planning and top-notch project management skills.

# A GLOBAL TEAM OF EXPERTS SERVING YOU WHEREVER YOU ARE LOCATED



Fanny Lalau Asia Pacific fanny.lalau@kone.com



Tarek Elnaggar South Europe, Middle East, and Africa tarek.elnaggar@kone.com







## **ONE TRULY GLOBAL PARTNER** YOU CAN COUNT ON

When you work with KONE Major Projects, you work with a team of experts ready to serve you anywhere in the world.

Reijo Päivärinta

Central and Northern Europe reijo.paivarinta@kone.com



**Steve Gonzales** Americas steve.gonzales@kone.com



Jacky Tan Jun China jacky.tan@kone.com

### KONE Major Projects

