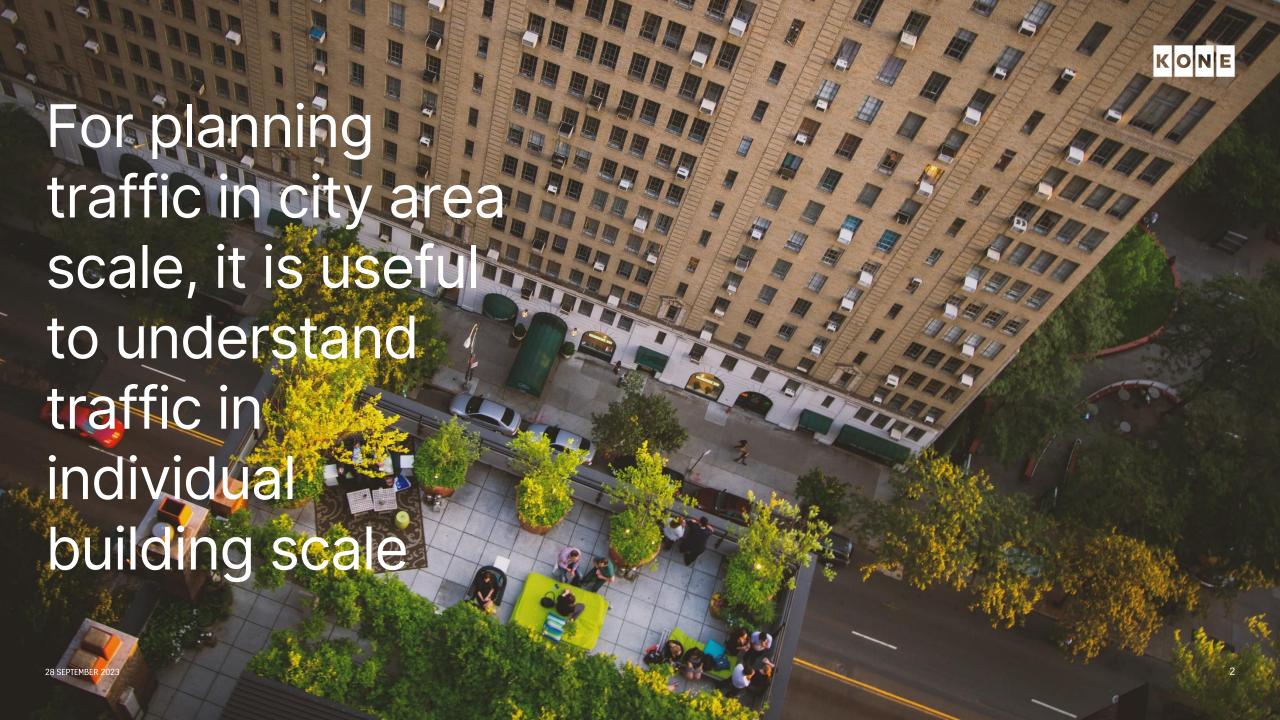






People flow at building scale

Tomi Sipilä, Offering Manager, KONE Corporation



С Traffic planning in office block A building



Concept Stack

Stage 2 Development

Throughout stage 2 the design team has refined the building stack in coordination with technical advice and client engagement but it stays true to the concept presented at Bid stage and now aligns well with Citi aspirations and user experience.

3 Destination Amenity locations support a diverse and future focused workplace.

Further optimisation of the BOH strategies in stage 3 will deliver an efficient and responsible scheme that maintains the building and all functions within.

The overview of the stack can be viewed on this page

Client Suite (including serviced meeting rooms + boardroom)
Brasserie
Reception
Citi Business Lounge (with Citi
Gold presence)
Events Spaces
Winter gardens

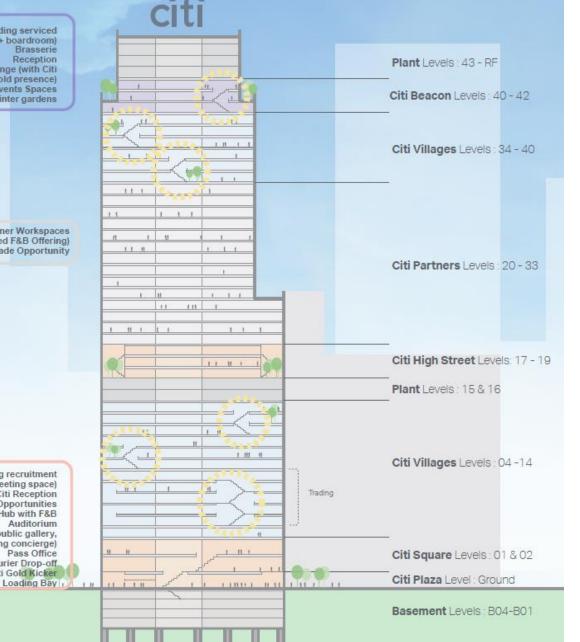
Primary Workspaces Citi Villages Internal Winter gardens Wellness and on floor amenities

Citi Partner Workspaces Tenant Sky Lobby (with dedicated F&B Offering) CAT A Upgrade Opportunity

Citi Lounge (with supporting F&B)
Health + Well-being Suite (including
Wellness Suite, Medical Centre +
Fitness Centre)
Get-Go
Citi Works for Enterprise
Citi Ante Space + Flexi Space



Knowledge Centre (including recruitment suite + serviced meeting space)
Citi Reception
Events Opportunities
Social Hub with F&B
Auditorium
Citi Plaza (including public gallery, grab&go + roaming concierge)
Pass Office
Courier Drop-off
Citi Gold Kicker





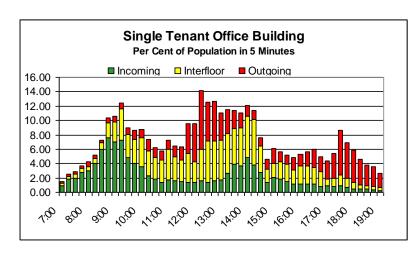
Office buildings

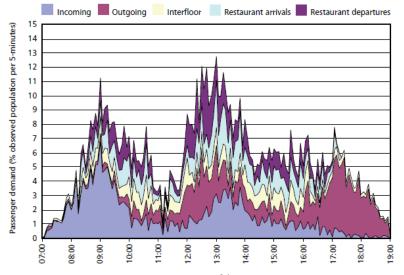
What to take into consideration?

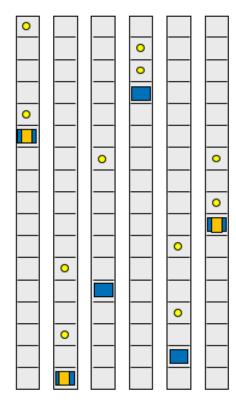
- Net lettable area
- Building Population / floor
- Functions in the building
- Single / Multiple Tenant
- Fixed or Flexible working hours

Future proofness?

- Changes in population and office density
- Flexible working hours or remote work
- Several functions in one building
- Public functions add new population to the building







Group with Destination Control

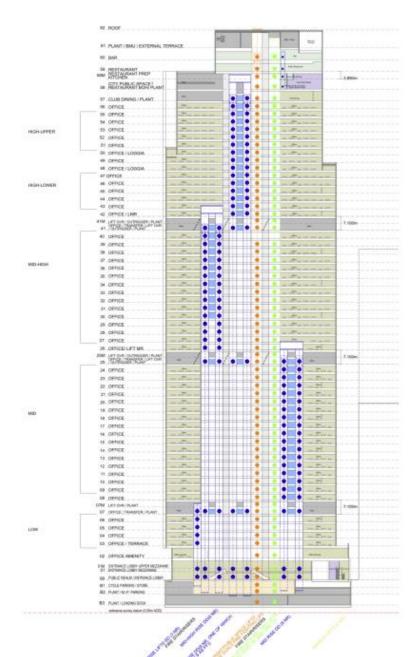
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5



Designed for Life

- Vertical village
- Transportation takes up significant share or building net area
- Shuttle and local transportation in compact form
- Population per area and internal mobility drive traffic
- Service, In-house logistics, emergency situations considered
- Simulation during design phase as basic dimensioning
- Adaptability for Repurposing buildings as sustainability factor
- Building's traffic profile contributing in city planning





Sport ion

Culture

Lifestyle

More ~

ig Money Markets Project Syndicate B2B Retail

'It has lost its appeal': Canary Wharf faces an uncertain future

London's docklands financial district is facing the loss of major firms such as HSBC and its owners are having to innovate to stem the exodus



Canary Wharf has been a victim of home working as companies move to smaller, more central premises. Photograph: Dan Kitwood/Getty Images

t's not happening." This is the blunt assessment of the success of efforts to turn Canary Wharf into a shopping and leisure destination. "Mondays and Fridays are dead," says the frank shop worker. "This shop used to take a fair bit before Covid but now everything's changed."

HSBC to move out of Canary Wharf headquarters due to hybrid working

The bank, which aims to move to the former head office of BT, says it wants to reduce its global office space by 40%



ASBC's current location at Canary Wharf in Docklands, east London. Photograph: Ian West/PA HSBC is to move out of its global headquarters in Canary Wharf after more than two decades to considerably smaller offices in the City of London, in response to post-pandemic hybrid working arrangements and a cost-cutting drive.

The financial services giant, which had up to 8,000 staff at the 45-floor tower

Modern commercial buildings

Mixed use buildings instead of single purpose

Combining public and private functions

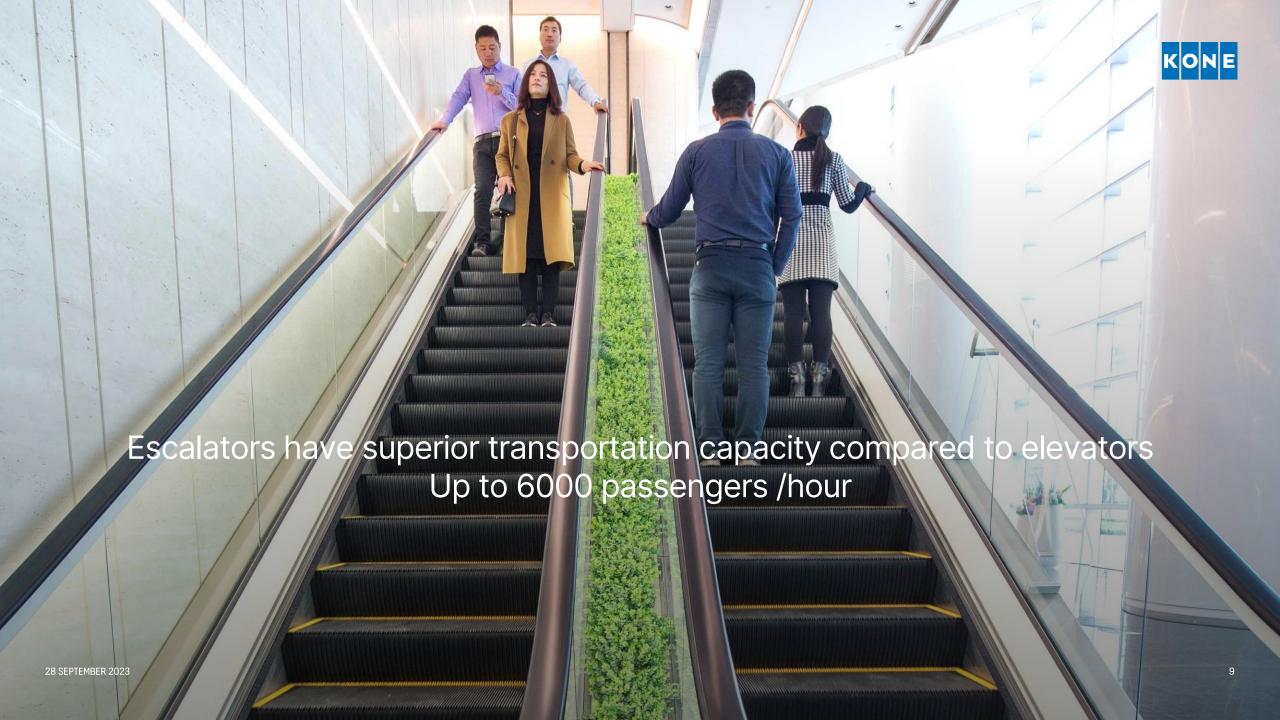
Floors at top open to public to contribute to community

Flexible use of the office space during the day

Wellness driving active life in buildings

Smart systems to adapt to changes





Transit hubs and stations of the future

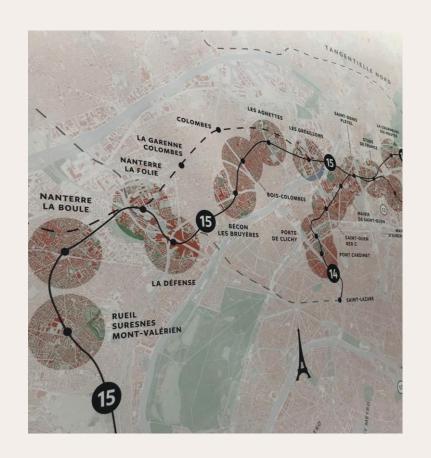
Urban environments are evolving fast. Transit hubs and stations need to cater to a growing number of passengers, their changing needs and lifestyle trends.

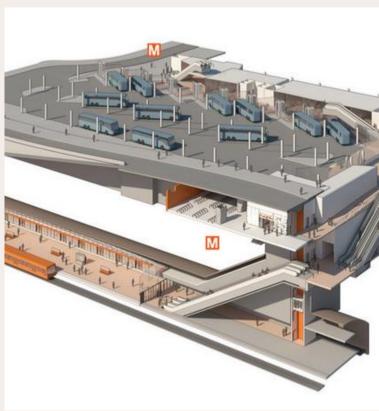
It is necessary to ensure that stations are designed and developed to meet modernday standards of sustainability, efficiency, and accessibility for all.



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Neighborhood or City context





- Population at the station's capture area
- Traffic profile of that area
- Station design can affect how easily accessible the station is and how it integrates to it's surrounding
- Escalators can increase the capture area

28 SEPTEMBER 2023 11

KONE

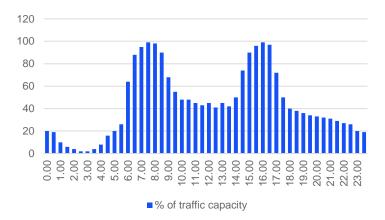
Infrastructure buildings

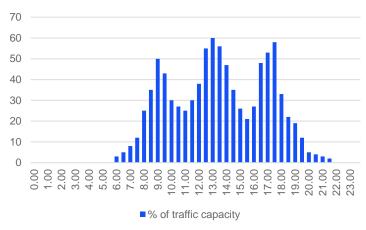
What to take into consideration?

Infrastructure buildings are distinct in regards of their usage purpose, peak times, and the number of passengers they need to accommodate.

Considering the following questions can help navigate towards the right solutions for your infrastructure complex:

- How many people use the building and how?
- What are the connected routes and potential bottlenecks within my building?
- What is the operating environment of my equipment is it indoors, outdoors, or both?
- What do my passenger circulation area, safety zones, access levels and intended travel times look like?
- What load and speed, step width, inclination and vertical rise of my escalators is best?
- What safety, sustainability and wellbeing aspects (sanitization, comfort level) are important to consider?





A typical **24-hour metro station** experiences two peaks, one for each rush hour.

Both peaks are preceded and followed by a build-up period, which stretches longer into the evening when people travel for dinner, social gatherings, service appointments, etc.

Metro station equipment is designed for maximum efficiency via direct routes for transporting passengers.

Shopping centers experience three peaks - at the beginning of the day, during lunch, and after work.

After the third peak the number of visitors quickly decreases. Many centers close for the night.

Equipment in shopping centers are designed to expose passengers to the various available offers. Routes are indirect and intended to circulate passengers through the building.

28 SEPTEMBER 2023

Future Stations

EXPLORING THE IDEAS OF THE FUTURE TRANSIT HUBS









et-Les Halles hub and Forum des Halles commercial mall

28 SEPTEMBER 2023 13





Reference for customer needs

- UITP (L'Union Internationale des Transports Publics) is the International Association of Public Transport
- Improving Passenger Flow and Crowd Management is a recent study on needs and technologies for passenger flow information.

- Some key objectives for improving passenger flow
 - Optimise the resources and adapt the supply of transport
 - Provide passengers with reliable information
 - Maximising the value of the passenger dwelling time and improving potential new revenue streams



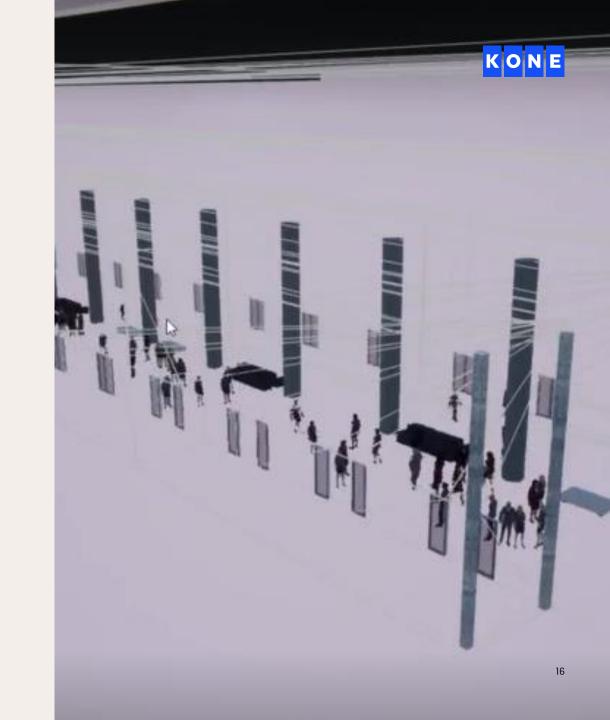


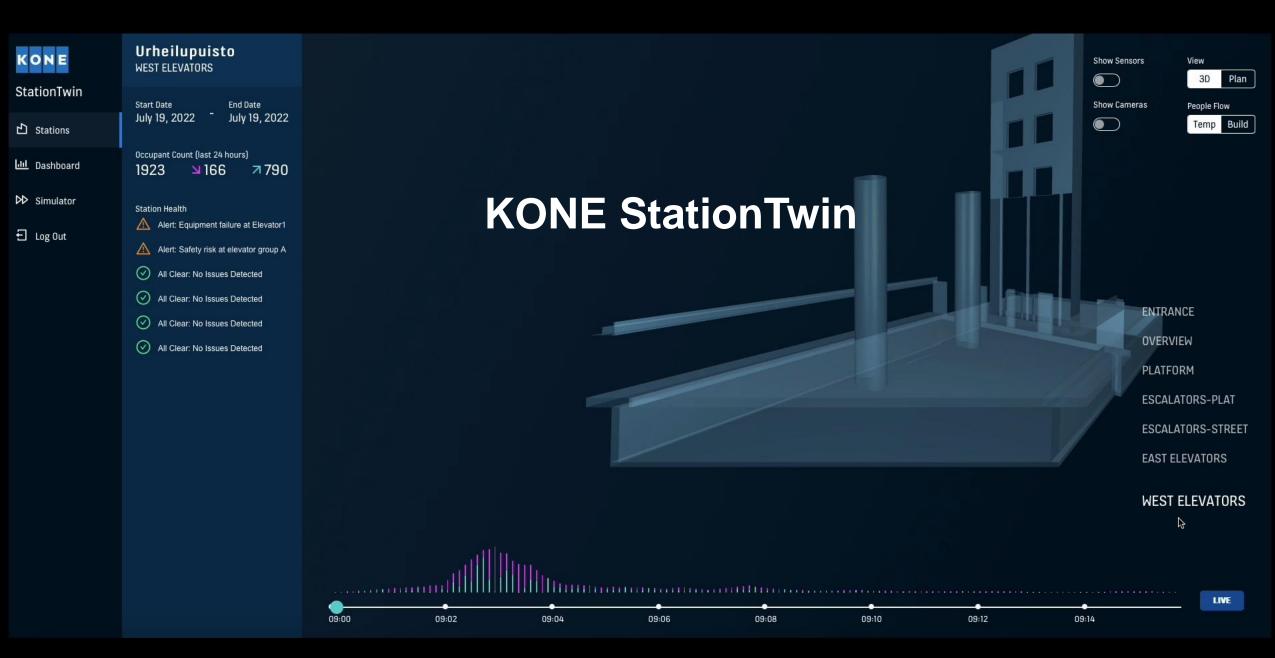
Building digital twins with AWS

KONE is working with AWS on creating and testing digital twins to simulate the people flow in buildings. Especially for stations it is crucial to understand the movement of people and goods, and adjust technical operations to avoid congestions and holdups.

Digital twins allow for comprehensive information gathering, testing, and the development of new products and services. All this is to improve the efficiency of stations and the user experience within.

Digital twins are the virtual replication of processes, service, or devices that are capable of simulating natural behaviors, usage and work processes in real life.





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KONE's role in urban infrastructure developments

Elevators, escalators, and autowalks are generally acknowledged for being the most effective means of transporting large numbers of people with different needs between floor levels.

How they are arranged within a building has a huge impact on the flow of people, the passenger's wellbeing and the overall operations, safety, efficiency, and design of the building.

For decades KONE has been providing industry-leading elevators, escalators, and autowalks globally. Together with our partners and industry leaders we are at the forefront of future innovations in the infrastructure industry.

Read more here →





Passenger flow

KONE solutions

PEOPLE FLOW PLANNING AND CONSULTING 7

KONE EXPERIENCE CAR 7

KONE INFORMATION 7

KONE HEALTH & WELLBEING SOLUTIONS 7

KONE DX ELEVATORS & DX UPGRADES 7

KONE ECOMOD™ UPGRADES DX 7

KONE ECOMOD™ SAFETY UPGRADES 7

KONE ECOMOD™ MODULAR 7

KONE ELEVATOR CALL 7

SERVICE DELIVERY API 7

KONE ELEVATOR CALL API 7

KONE PARTNER SOLUTIONS 7

KONE EBULI (PROSPACE, MONOSPACE) 7

MATERIALS + WOODEN SHAFT 7

KONE AUTOMATIC BUILDING DOORS 7

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KONE global reference projects

Americas

- New York
- Toronto
- Seattle
- San Diego
- Boston
- Atlanta
- Chicago
- Salt Lake City
- Las Vegas McCarran
- Miami Dade
- Phoenix
- · San Diego

Europe

- London Underground
- Crossrail
- ProRail
- StorStockholms Lokaltrafik
- SZDC, Czech Rep.
- Deutsche Bahn
- Berlin Central Station
- Helsinki Metro
- Dworzec Łódź Fabryczna

Europe

- Westbahnhof
- Metro Københavns
- Paris
- Toulouse
- Lyon
- Nice
- Marseille
- Schiphol
- Heathrow
- Gatwick
- Oslo
- Stockholm
- Helsinki
- Vienna
- Munich

Middle East

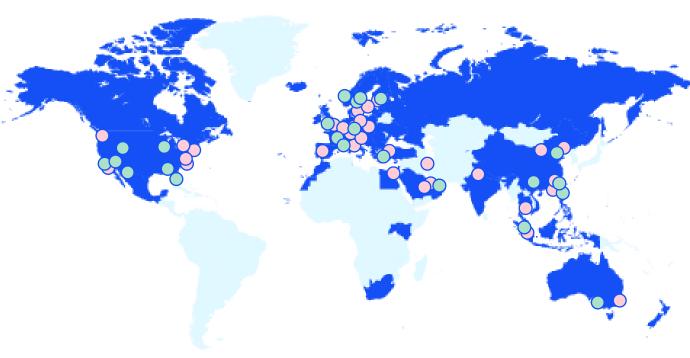
- Dubai Metro
- Doha Metro
- Riyadh Metro
- Cairo Metro
- Tehran Metro
- Tel Aviv Metro
- Bodrum
- Muscat

Asia & Pacific

- Delhi Metro
- Sydney Trains
- Singapore
- Bangkok Mass Transit
- Adelaide
- Sepang

China

- Beijing
- Shanghai
- Chongqing
- Nanjing
- Nanning
- Shenzhen
- Wuhan
- Wuxi
- Suzhou
- Harbin
- Hong Kong
- Taipei
- Kaohsiung
- Beijing
- Shanghai
- Taipei
- Kunming
- Shenzhen



28 SEPTEMBER 2023 20

Public transportation

Airports









Thank you!