



MOVE
BEYOND

MULTI

a new era of urban mobility

URBANISM NEXT EUROPE
2021

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2021

9-10-11 JUNE, 2021
ONLINE CONFERENCE





MOVE BEYOND

with TK Elevator

At TK Elevator, we

- provide innovative product solutions
- and offer a comprehensive product portfolio.

With 50.000 people we serve about 1,4bn units worldwide and achieved sales of around €8 billion (FY19/20).



2bn more urban
residents

of world population
will live in cities
by 2050

68%

70 cities
with a population >6mn

size of Manhattan
being built every day

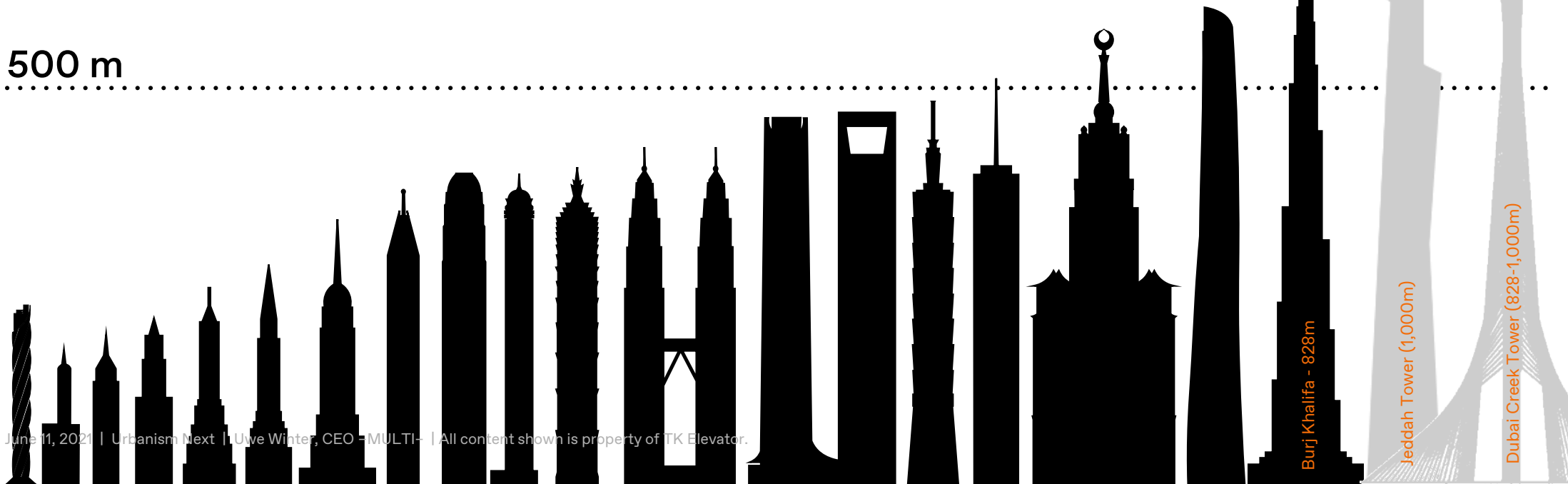
88km²

1600 m

1000 m

Since 2000 the number of supertall buildings has tripled

500 m



Potential future One Mile Tower (1,600m)

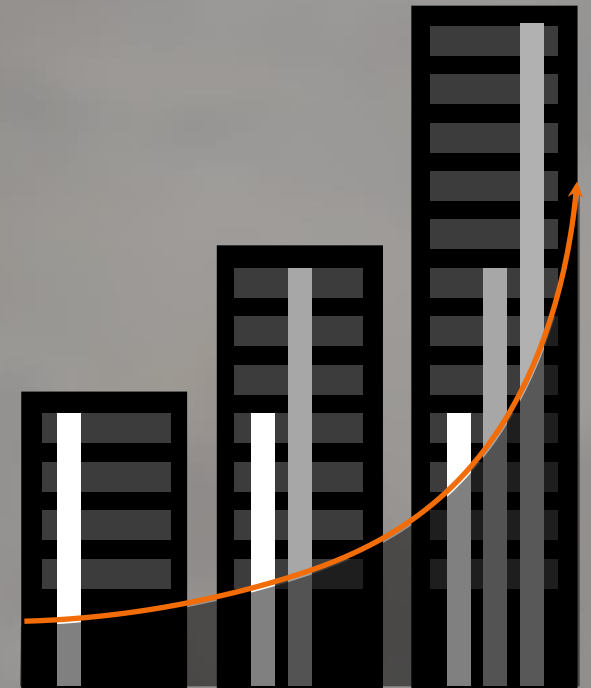
Burj Khalifa - 828m

Jeddah Tower (1,000m)

Dubai Creek Tower (828-1,000m)



40%
of space is blocked
by elevator shafts





OUR EXPERIENCE

Engineering competence

- Paternoster | the first idea
- TWIN | our innovation of 2 cabs in 1 shaft
- Linear motor technology | know-how


MULTI ENABLES
A NEW ERA OF
URBAN MOBILITY

7 | June 11, 2021 | Urbanism Next | Uwe Winter, CEO - MULTI | All content shown in property of TK Elevator.

TKE

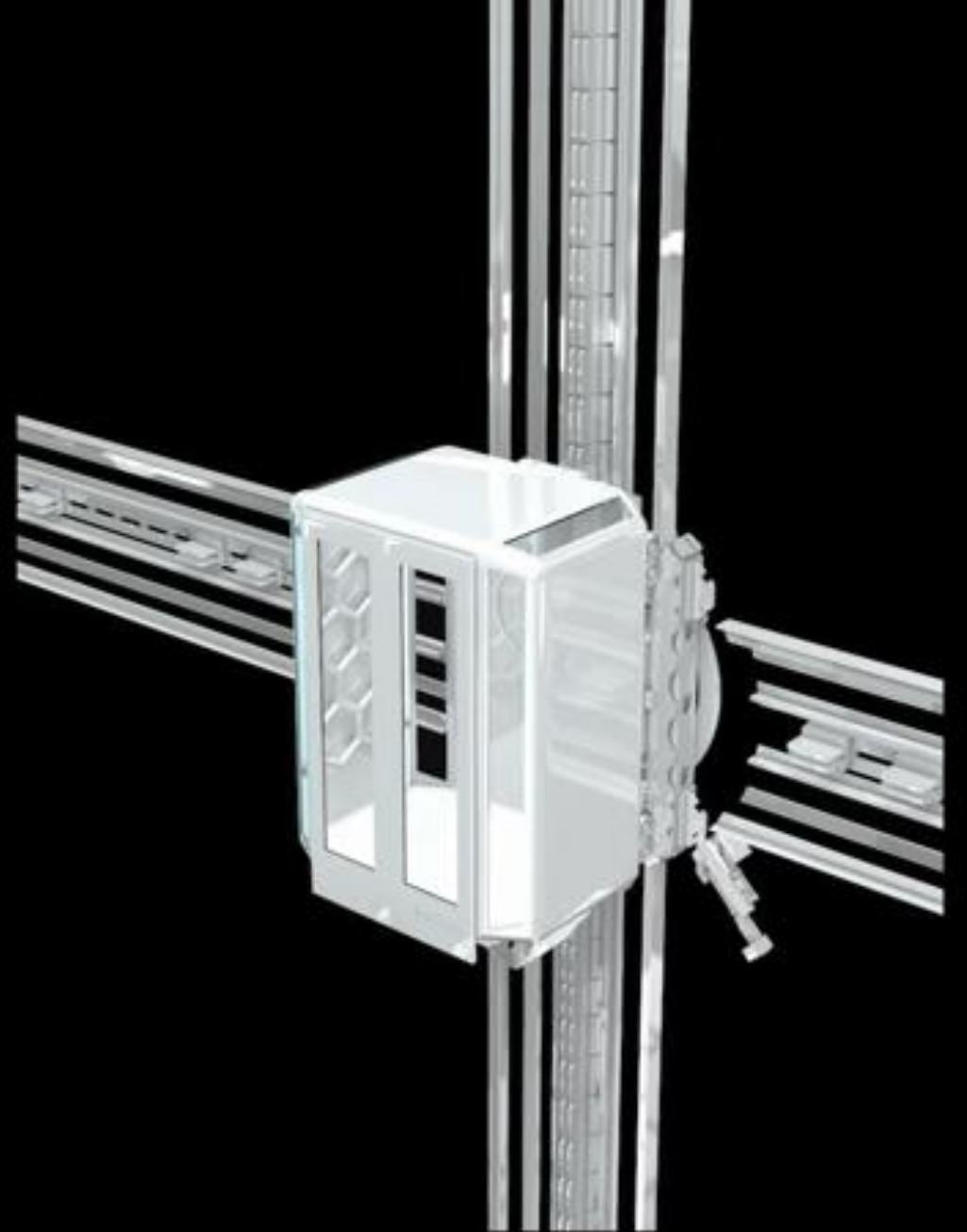
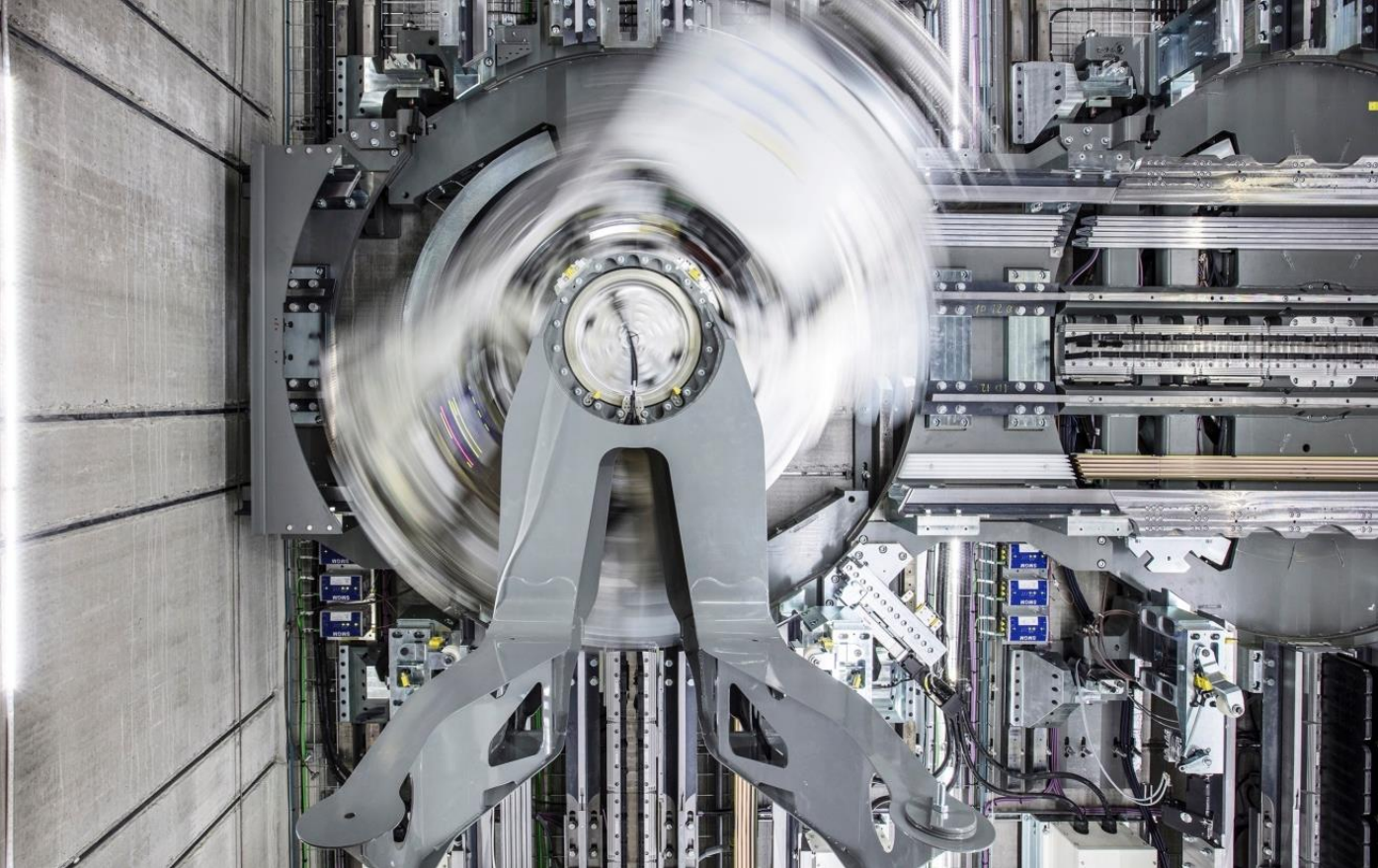
THE LINEAR DRIVE OVERCOMES THE LIMITATIONS IN HIGH RISE BUILDING OF TODAY



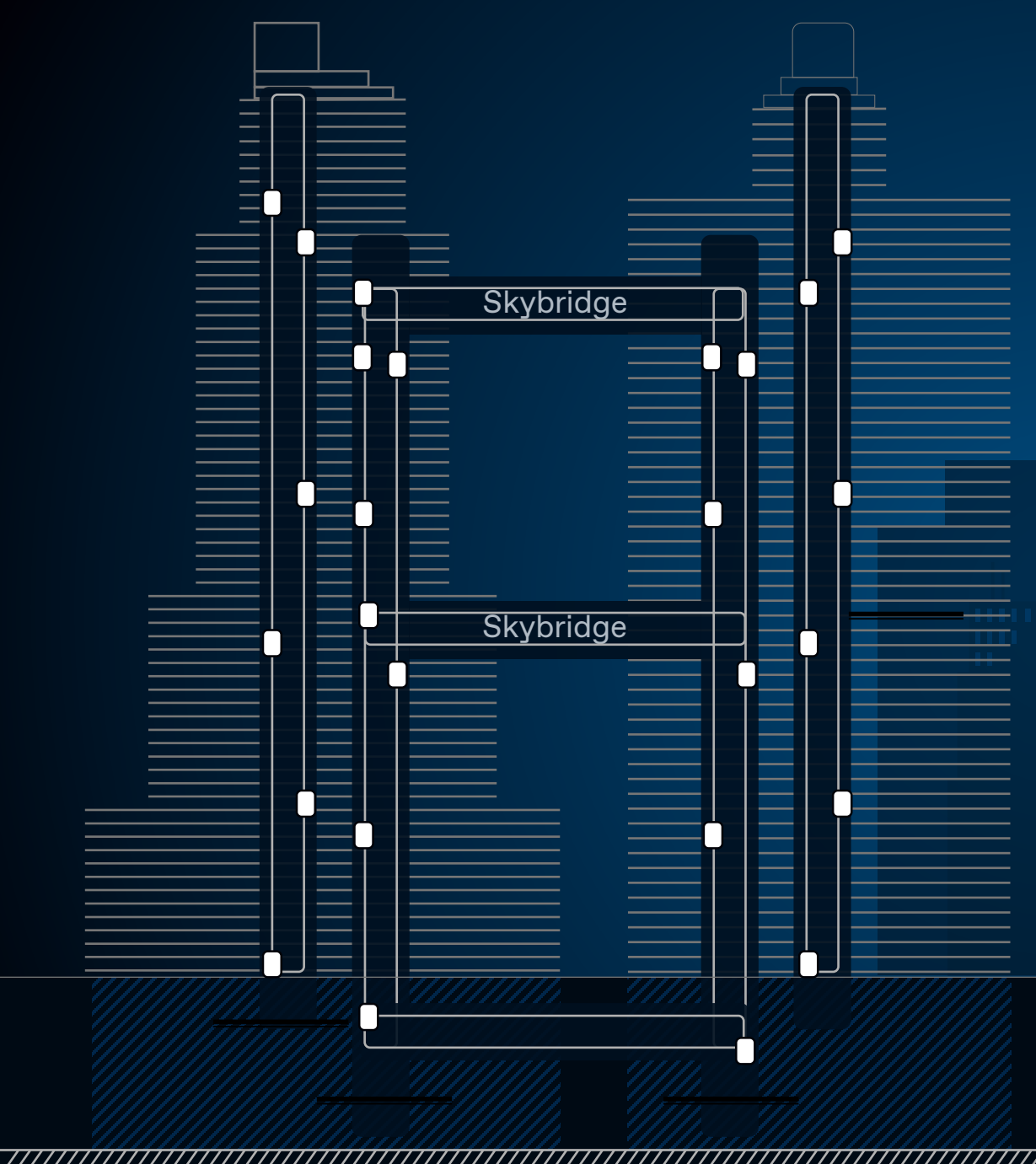


MULTI USES
MULTIPLE CARS
IN ONE SHAFT

MULTI

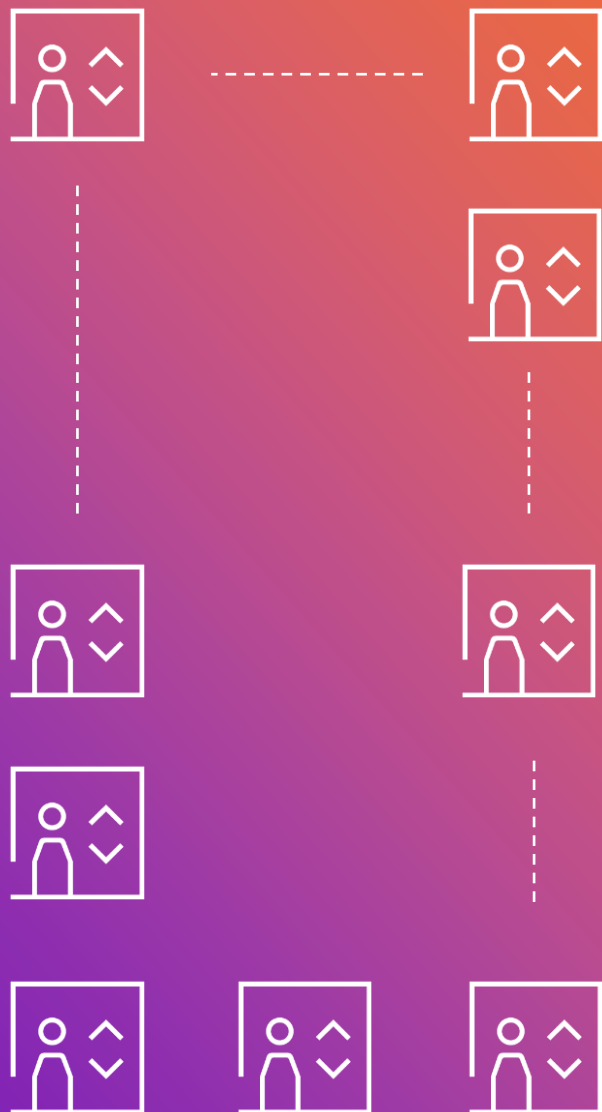


X-CHANGER ALLOWS HORIZONTAL RIDES

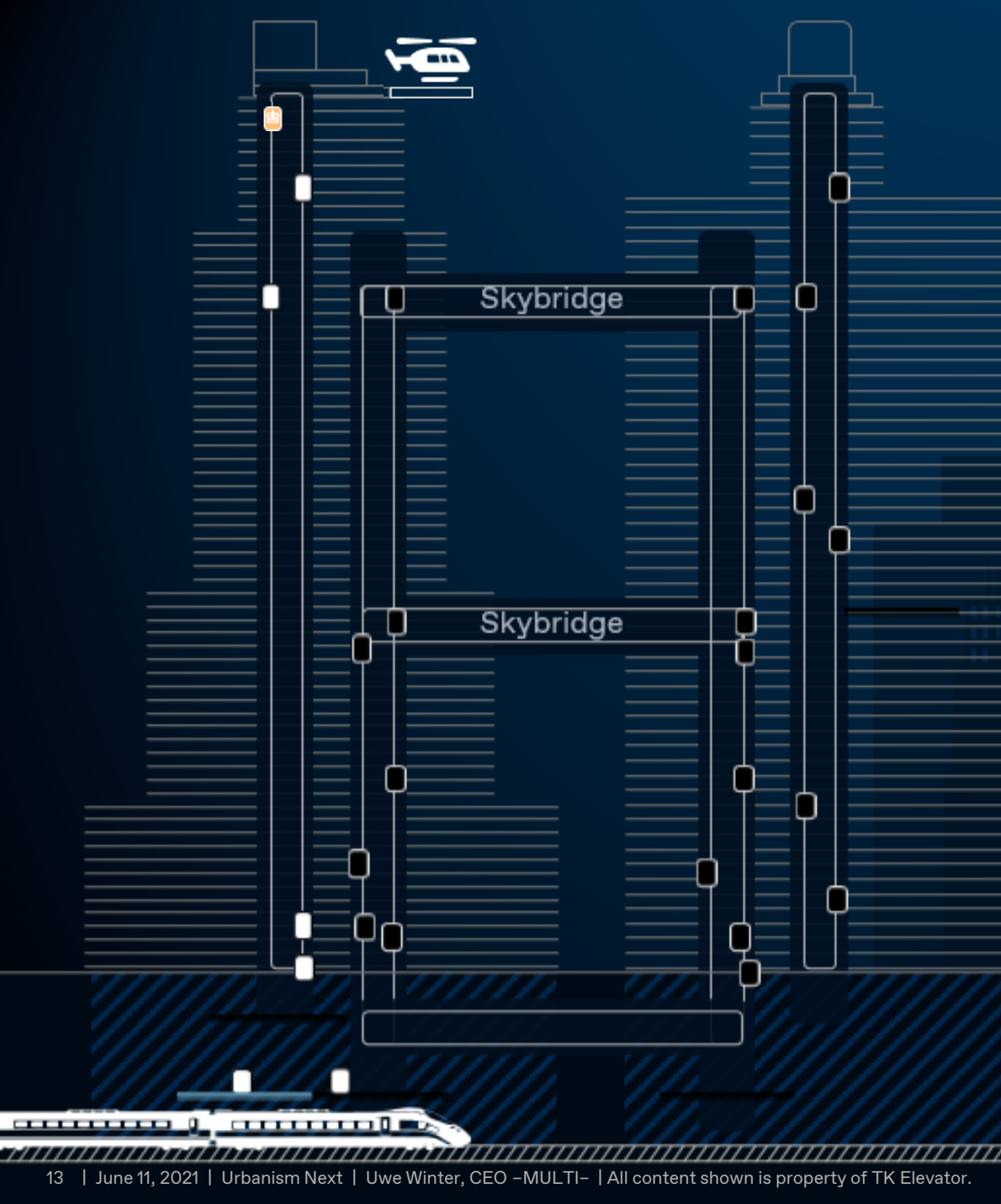


MULTI OPERATES IN A LOOP

and orchestrates the whole people flow



...ALLOWS SOCIAL DISTANCING
thanks to multiple cars



....CONNECTS BUILDINGS
with public transport,
from underground to air taxis



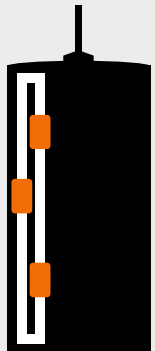
LAST MILE CONNECTIVITY

- MULTI could be the backbone of a smart building
- Smart connection with delivery robots thinkable

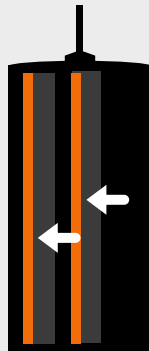


「ARCHITECTS GET CREATIVE FREEDOM IN BUILDING DESIGN

RIGHTSIZING OF BUILDING THANKS TO MULTI



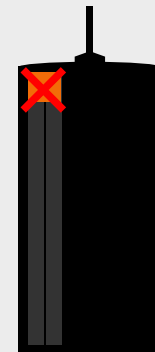
Multiple cars
per shaft



Smaller shafts



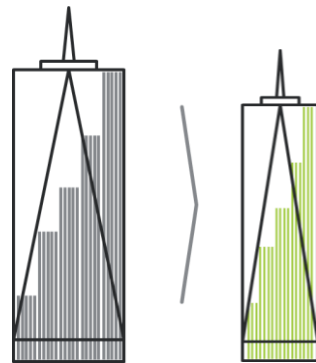
Less number of shafts



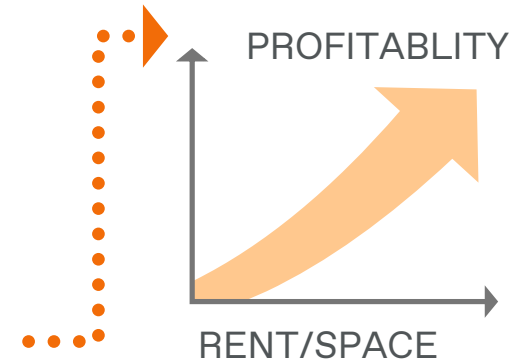
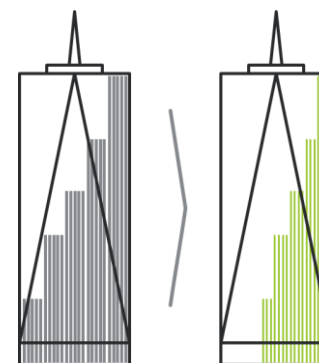
No machine room
on top of shaft

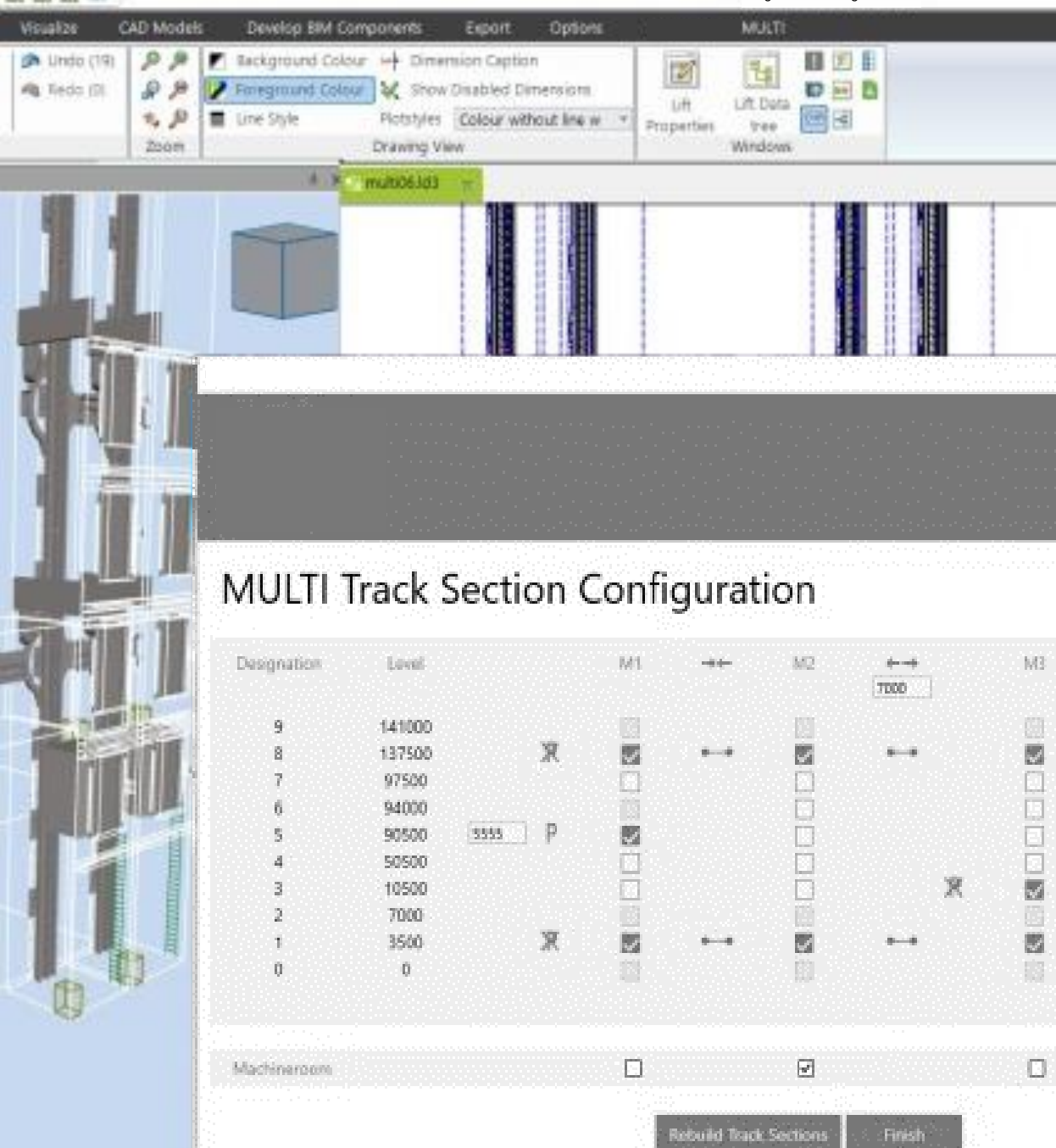
BETTER ELEVATOR SPACE RATIO FOR PROFITABILITY

REDUCTION OF
CONSTRUCTION
COST BY
SMALLER
BUILDING



ADDITIONAL
INCOME
BY
ENLARGING
RENTABLE
SPACE





BREAKTHROUGH FOR BUILDING DESIGN

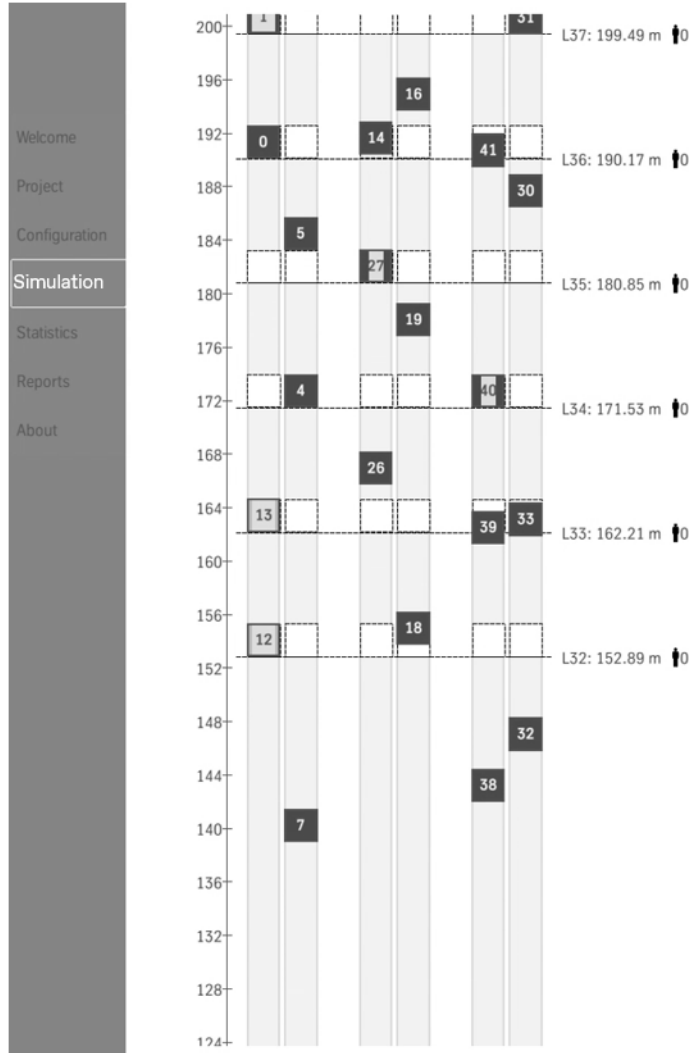
**AUTOMATIC BIM*-CREATION ENABLES EARLY
INTEGRATION OF ROPELESS MULTI**

***Building information modeling**

- New software enables 3D model configuration with only a few clicks
- The DigiPara lift designer designs and plans complete MULTI-installations
- Architect's requests for BIM models answered by just one push of a button

BEST OF CLASS TRAFFIC CALCULATIONS

FOR ALL TK ELEVATOR PRODUCTS INCLUDING MULTI



Running

Requested Speed: - 5 +
Actual Speed: 5.0
Simulation Time: 00:15:03

Passengers Transported	1645
Last Passenger Arrival Time	01:59:59
Multi Car Count	42
Max./Avg. Waiting Time	2.0 s
Max./Avg. Transit Time	80.9 s
Max./Avg. Time To Destination	82.9 s
Last/Max./Avg. MCCT First Loop	39.2 s
Max./Avg. Load On Departure	
L1	789.1 kg
L2	784.4 kg
Max./Avg. Load On Arrival	
L1	77.1 kg
L2	97.2 kg
Max./Avg. Queue Length	
L1	0.9
L2	1.8

Simulation Objects

Car 12	
Motion Status	STATIONARY
Velocity	0 m/s
Acceleration	0 m/s ²
Jerk	0 m/s ³
Light Curtain State	INTERRUPTED
Load	1050 kg
Passengers: 13	
Additional Information	
Car 13	
Motion Status	STATIONARY
Velocity	0 m/s
Acceleration	0 m/s ²
Jerk	0 m/s ³
Light Curtain State	INTERRUPTED

An aerial photograph of a dense urban skyline, likely New York City, featuring numerous skyscrapers. Overlaid on the image are vibrant, glowing purple lines that represent energy or data flow, swirling and connecting various points across the city. A black rectangular box is positioned on the left side of the image, containing white text.

MULTI@TKELEVATOR.COM

Contact us for your future building!
We help you realise your high-rise vision
with unparalleled consulting and planning
support right from the start, even before
the first outline of a building is drawn.