



# Top Range Group

## Better buildings for tomorrow

Trusted and Reliable





**Top Range high-rise expertise.  
Your vision, our passion.**

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**Our promise to you.**  
Anticipating the most challenging  
customer requirements.

**Your high-rise building**  
as a complete organism.

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## Experience

Your travel becomes pure pleasure.

## People

The human factor makes the difference.

### Reliability

A ride you can trust.

## Transit Management

The smart way through the building.

## Efficiency

Pioneering efficiency for every step you take.

## Customization

Tailored to your needs.

## Iconic Achievements

Over 20 years of knowledge, experience and accomplishments.

# About TRP Group

## Overview

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The TRP Group is a leading expert and provider of related services for elevators, escalators, and moving walkways. It was founded in Moscow and has been operating successfully for more than 20 years. Until September 2022 the company was known as Schindler Rus.

Our company is at the forefront of industry innovation, working on pushing the boundaries of technological engineering, while having a strong focus on safety, comfort, efficiency and reliability in Russia.

We're a leading employer in the industry, with hundreds engaged employees enabling mobility within the urban environment.

We have proven network in all regions of Russian Federation, as well as solid maintenance team and research and development center.

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# About TRP Group

## Overview

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Our installations can be found in many well-known buildings throughout Russia, including office and residential buildings, airports, shopping centers/retail establishments and specialty buildings.

The GTP Group installed with full service cycle of elevator equipment design, delivery, installation, modernization and maintenance for more than 8000 units in Moscow, St. Petersburg and other regions.

We have solid partnerships with largest actors of construction market in Russia. Own warehouse of spare parts and rigging equipment for scaffold less installation

We ensure adapted approach, for equipment of leading Chinese manufacturers and its warranty and post-warranty service via our Top Range Excellence process

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# About TRP Group

## Principal partners and customers



<https://www.mr-group.ru/>



<https://capitalgroup.ru/>



<https://donstroy.moscow/>

**AB Development**

<https://abdevelopment.com/>



<https://stonehedge.ru/>



<https://www.lsr.ru/>



<https://www.etalongroup.ru/>



<https://www.pik.ru/>



<https://pioneer.ru/>



<https://www.ingrad.ru/>



<https://www.msu.ru/>



<https://www.metrostroy.ru/>



<https://mosinzhproekt.ru/>



<https://www.granelle.ru/>



<https://fsk.ru/>



<https://www.gazprom.ru/>



<https://www.rosneft.ru/>

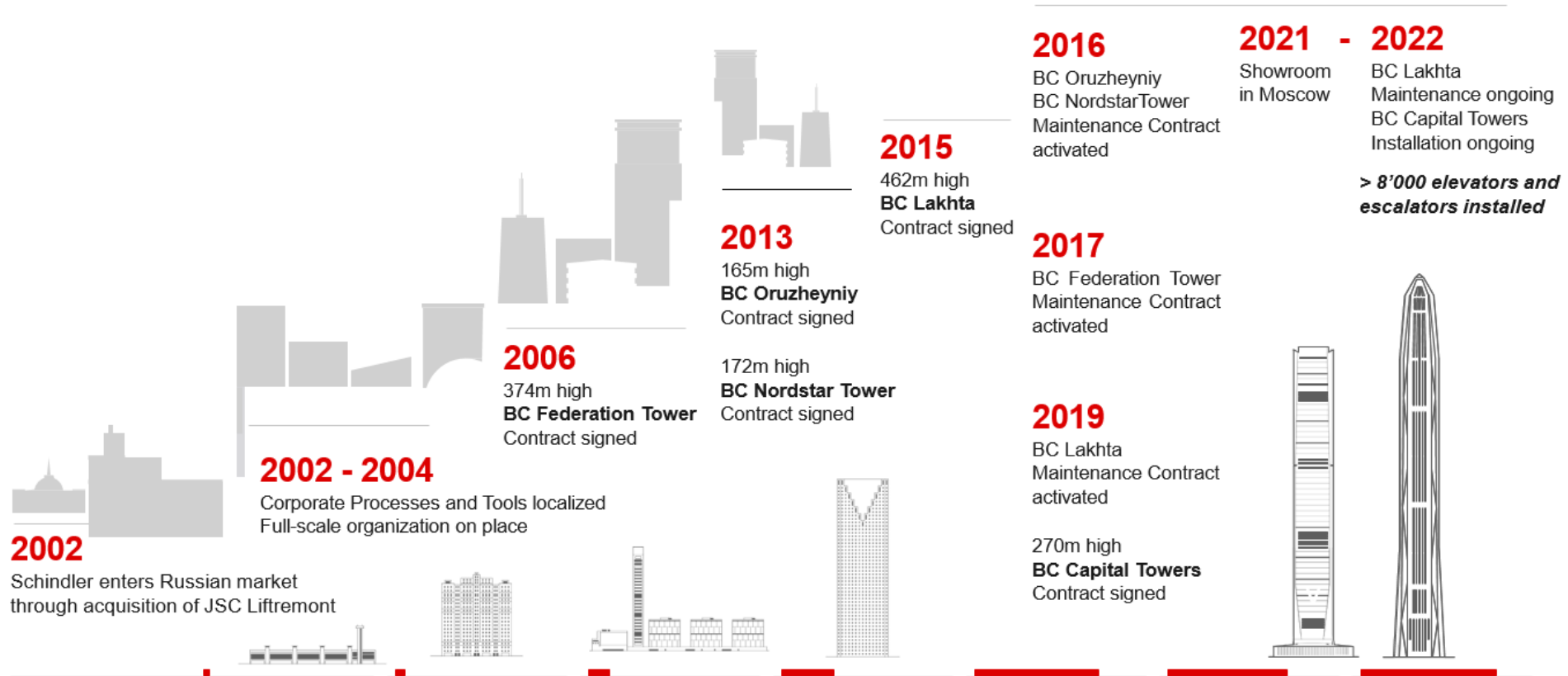


<http://www.sberbank.ru>

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# About TRP Group

## Main development milestones in Russia

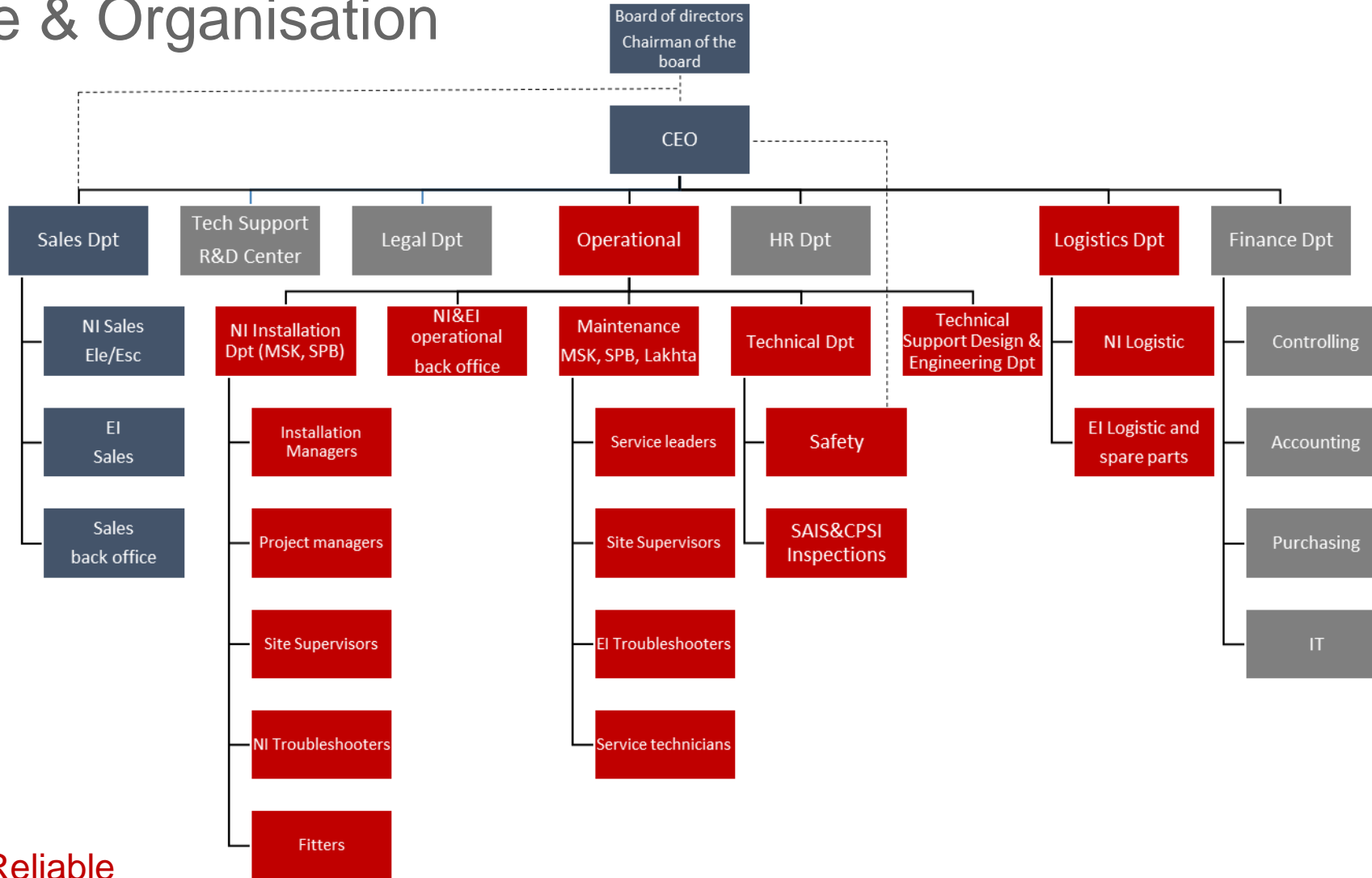


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# About TRP Group

## Structure & Organisation



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# Markets

## The Potential

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Russian market has potential of 35000 of Elevators and 1100 Escalators per year and is by far the largest market in Europe. To compare German market is 14000 and French 11000.

The TRP Group is proven leader of High Rise market in Russia and Europe. Two of Europe's tallest towers are located in Russia. Both projects were successfully completed by experienced TRP teams.

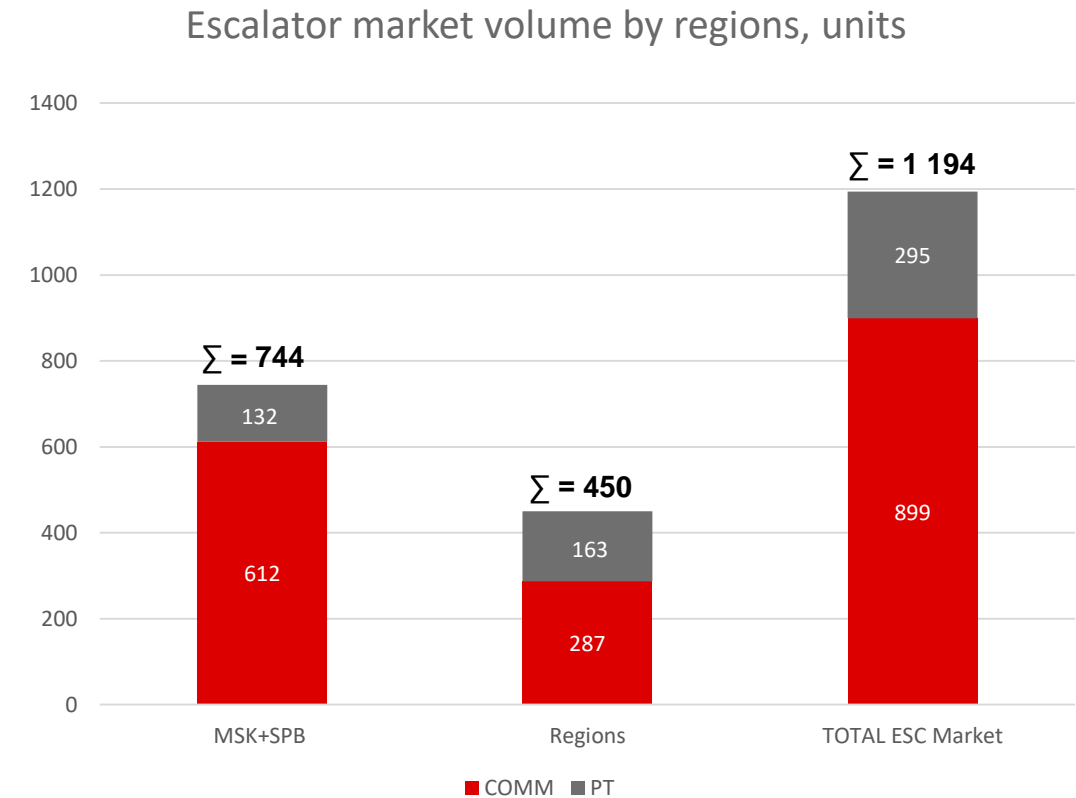
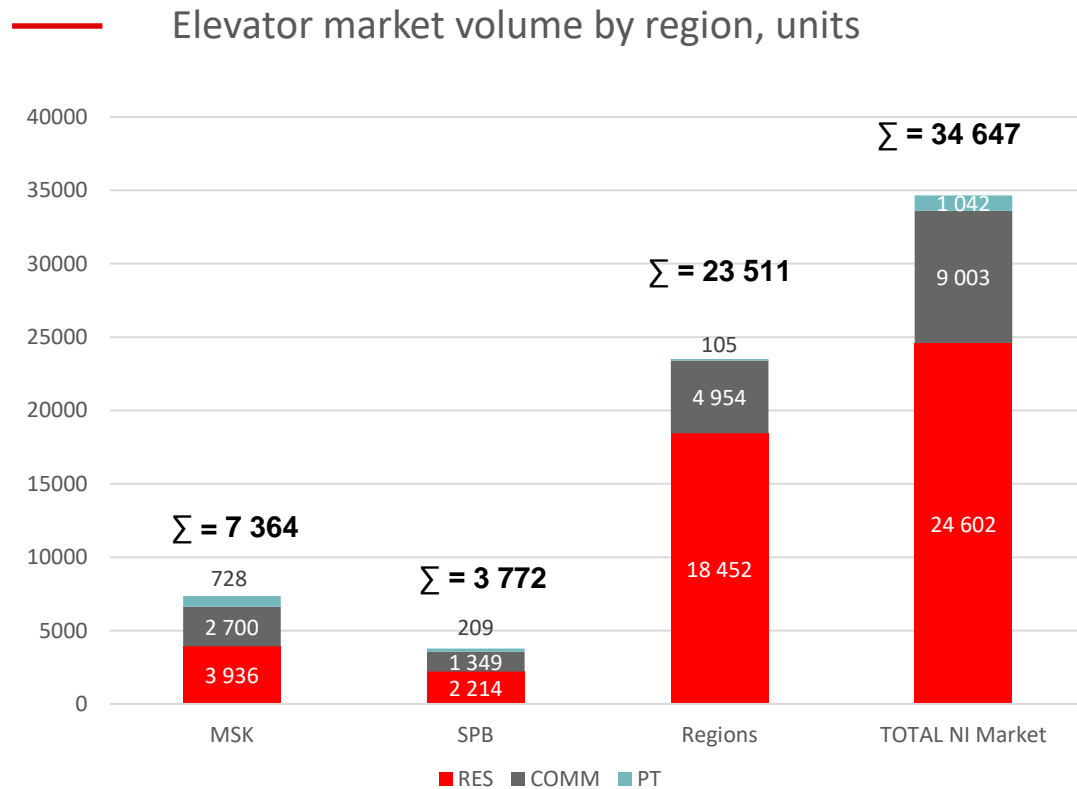
**Lakhta Center** in Saint Petersburg <https://lakhta.center/en/>  
Europe's tallest skyscraper and the world's northernmost high-rise. The multifunctional complex housing Gazprom's headquarters and public areas is based in St. Petersburg on the coast of the Gulf of Finland.

**Federation Tower** in Moscow <http://fedtower.ru/presentations/Federation%20Tower.pdf>  
The highest peak in Moscow. The second highest peak in Europe.

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# 2022 Target Market

## New Installation



❑ At the end of 2021 elevator market in Russia (new installation) is estimated about 35 000 units

source: European Lift Association

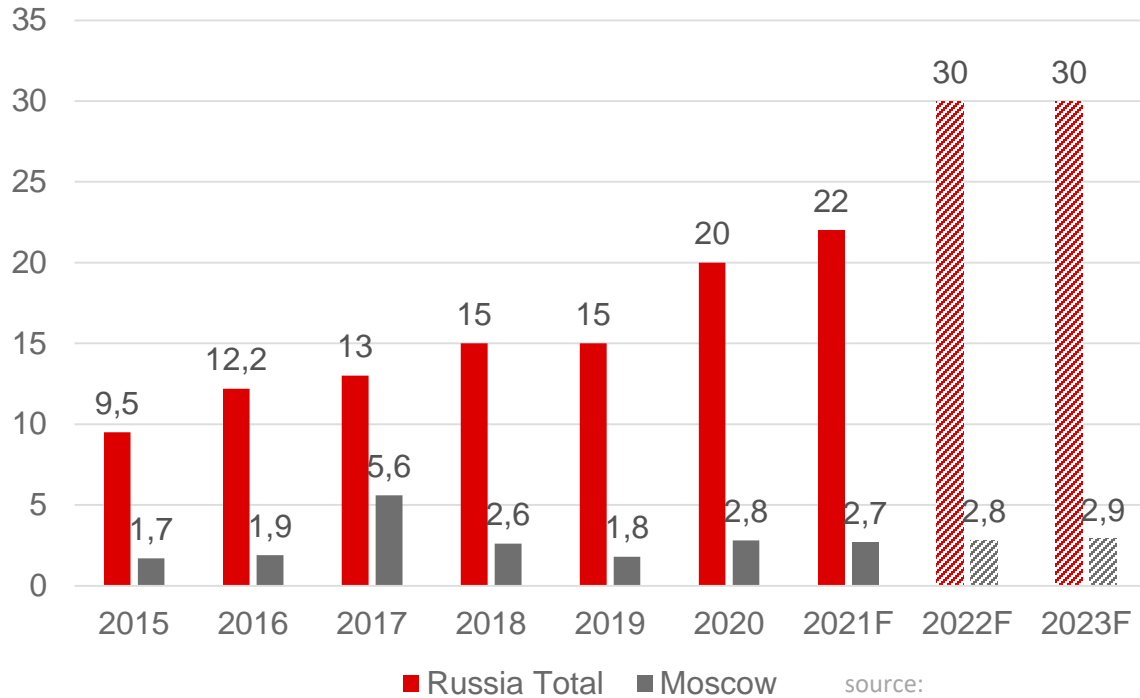
❑ Escalator market in Russian reached 1,194 units. The commercial segment is about of 75% of total escalator market.

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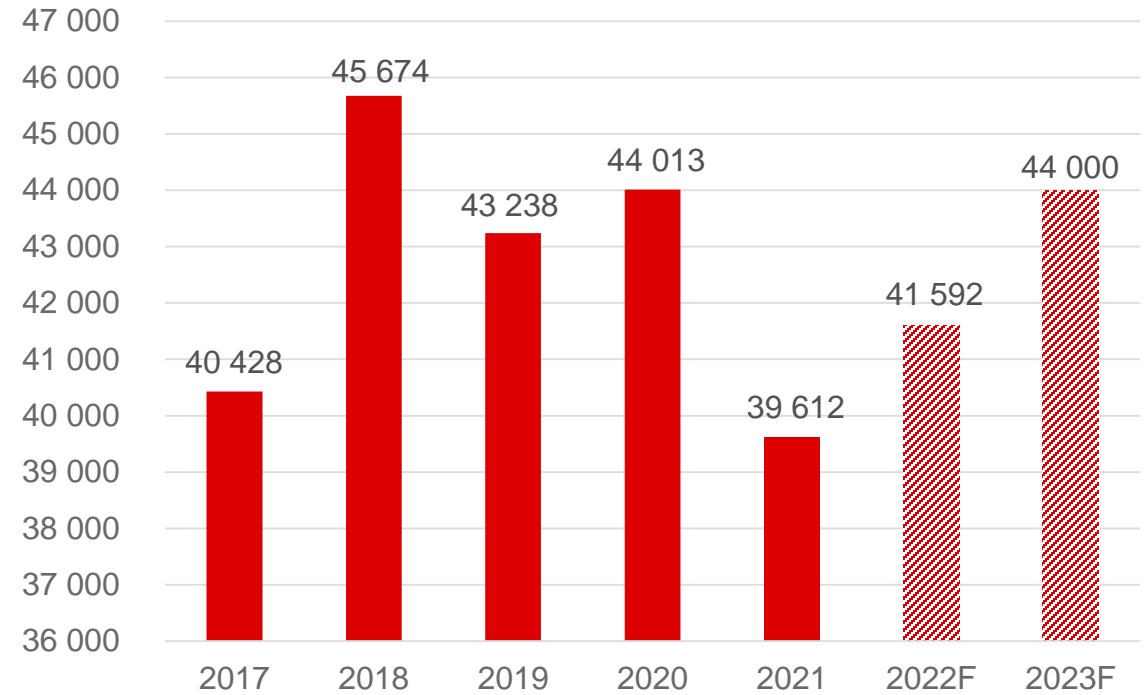
# Target Markets

## Replacement and modernization

Planned number of elevators for replacement and modernization, thousand units



Elevators put into operations by years , units

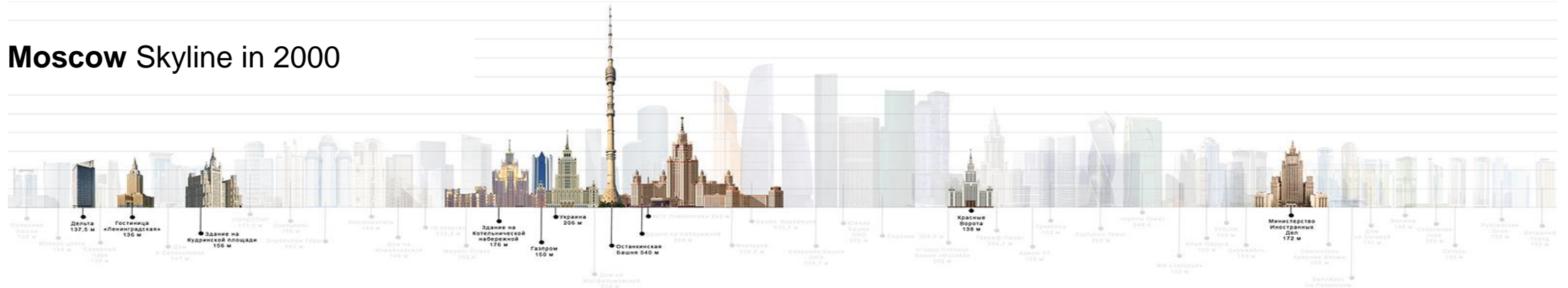


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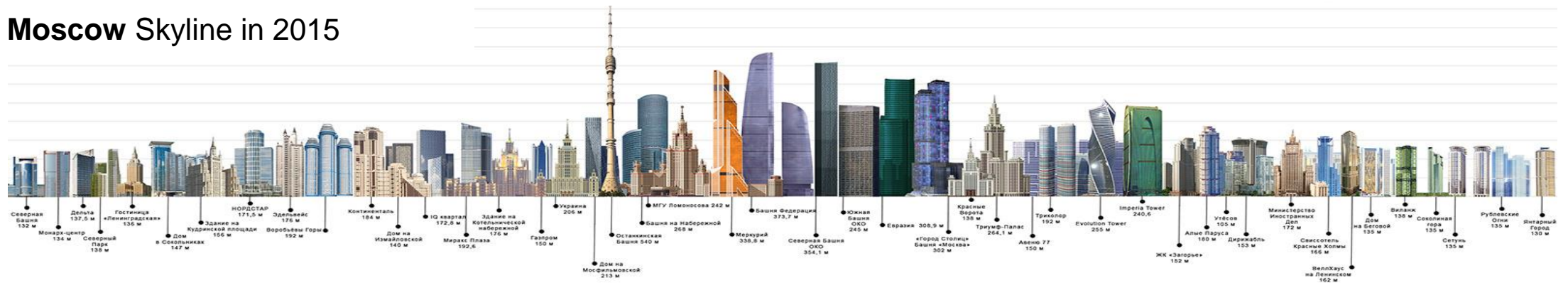
# High-Rise Market

## Development from 2000 to 2015

### Moscow Skyline in 2000



### Moscow Skyline in 2015

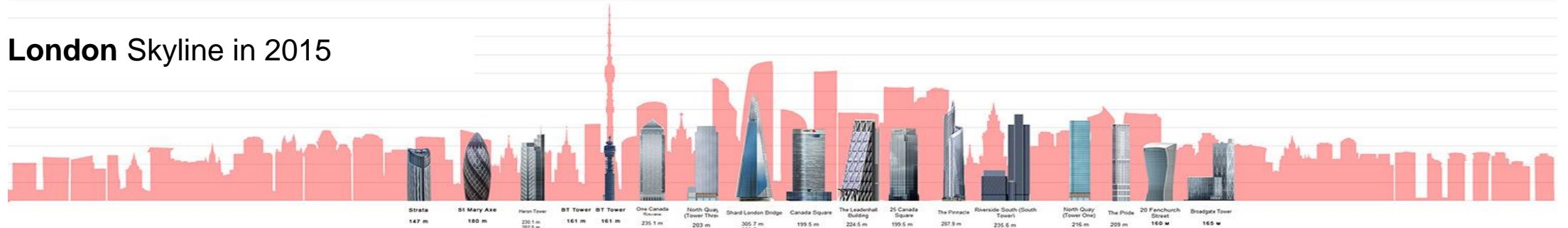


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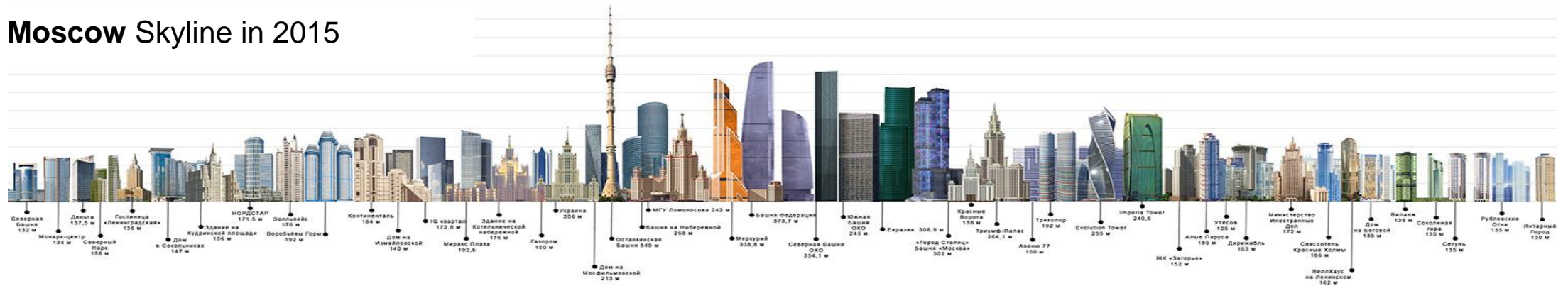
# High-Rise Market

## Competition between London and Moscow

### London Skyline in 2015



### Moscow Skyline in 2015



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# Our high-rise expertise. Your vision, our passion.

We start by listening to you, to understand your vision, your imagination and then marry this with our passion to provide you with the most effective solution for your future building

## Excellence

- Everything we do is to the highest quality and safety standards, honoring the long tradition of excellent Swiss craftsmanship.

## Environments

- Tomorrow's green buildings and efficient transportation systems are key to developing harmonious urban environments.

## Evolution

- We continuously invest in and develop new, innovative and smart solutions so as the cities and buildings develop, so do we.

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# Top Range Excellence Objective

Enable People & Organizations to manage Large projects according to best demonstrated practice in order to improve:



Safety



Financial Results



Quality



Customer Satisfaction



Successful management of large projects to strengthen TRP Group's market position in Large Project Business and increase profitability

Continuously improve TRP Group's capabilities to delight customers and grow TRP Group's Large Project business

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# Top Range Excellence






## Successful management of Large Project

### TRP Large Project Management Program

Business-process developed based on Best Demonstrated Practice from the Schindler mature large business markets in line with **ON17100** (Large Project Management ON)

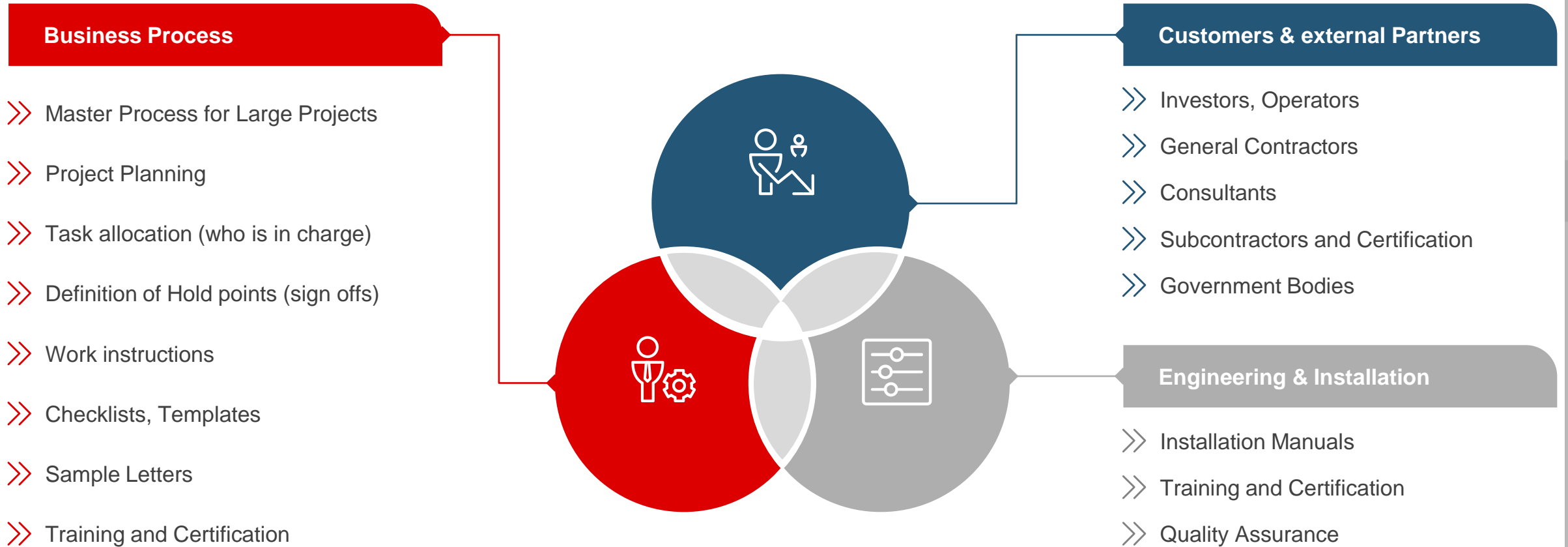
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Excellence program deployed in all TRP Group Markets covering:

-  Quality plan throughout the whole process (SALES to HANDOVER to the Customer) via Hold-Point system
-  State of the art risk management
-  TRP high safety standard
-  Professional Project Management
-  TRP Group Training / Certification program for all involved job families to guarantee readiness

# Top Range Excellence

## Environment and coverage of TRP Group Large Project Business



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# Top Range Excellence

## Areas of Intervention



- >> Introduce TRP Group Master process for large projects
- >> Distribute Guidelines and references
- >> Manage project risks
- >> Elaborate metrics to govern large projects



- >> Plan resources for Large Project order backlog
- >> Certify project managers, installation supervisors and sales engineers
- >> Certify subcontractors for Large Projects
- >> Provide training and certification modules for Project Managers and Installation Supervisors
- >> Measure & report global HCR for Large Projects



- >> Drive safety culture
- >> Improve process quality through hold points
- >> Improve installation quality
- >> Enforce comprehensive FPY SAIS inspection
- >> Assure tech. quality assurance via QC1-QC3

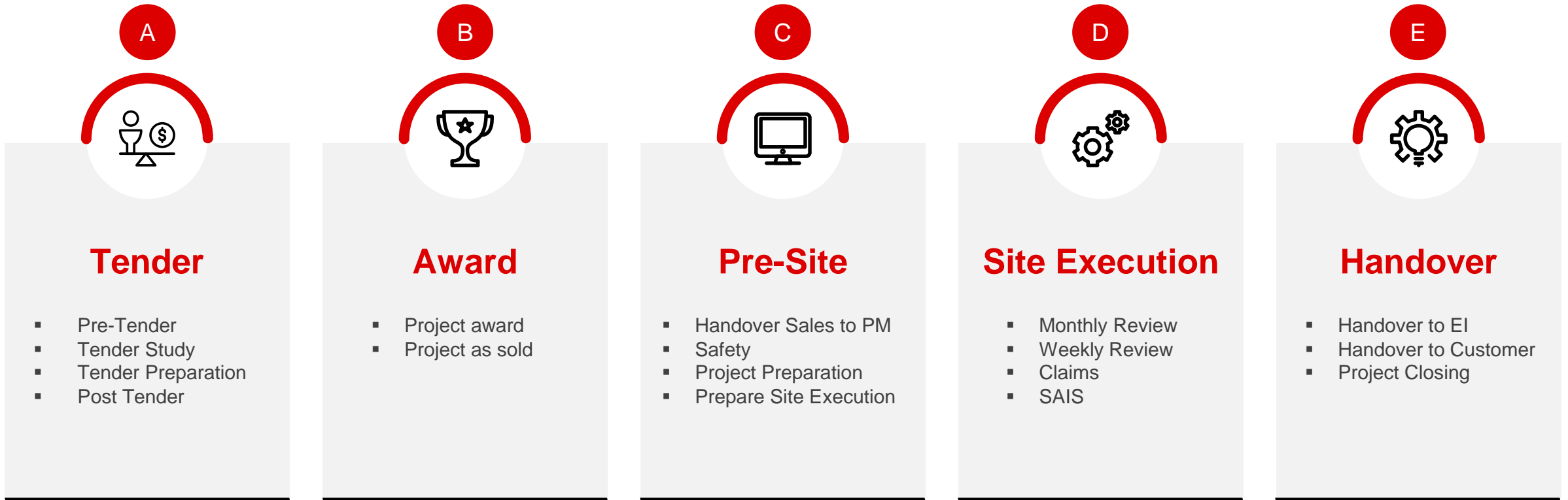


- Increase Customer Satisfaction by means of:**
- >> Elaborating timely pre-site checks
  - >> Professional communication
  - >> Conducting regular meetings with the site management
  - >> Documentation and sign-offs for variation orders

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# Top Range Excellence

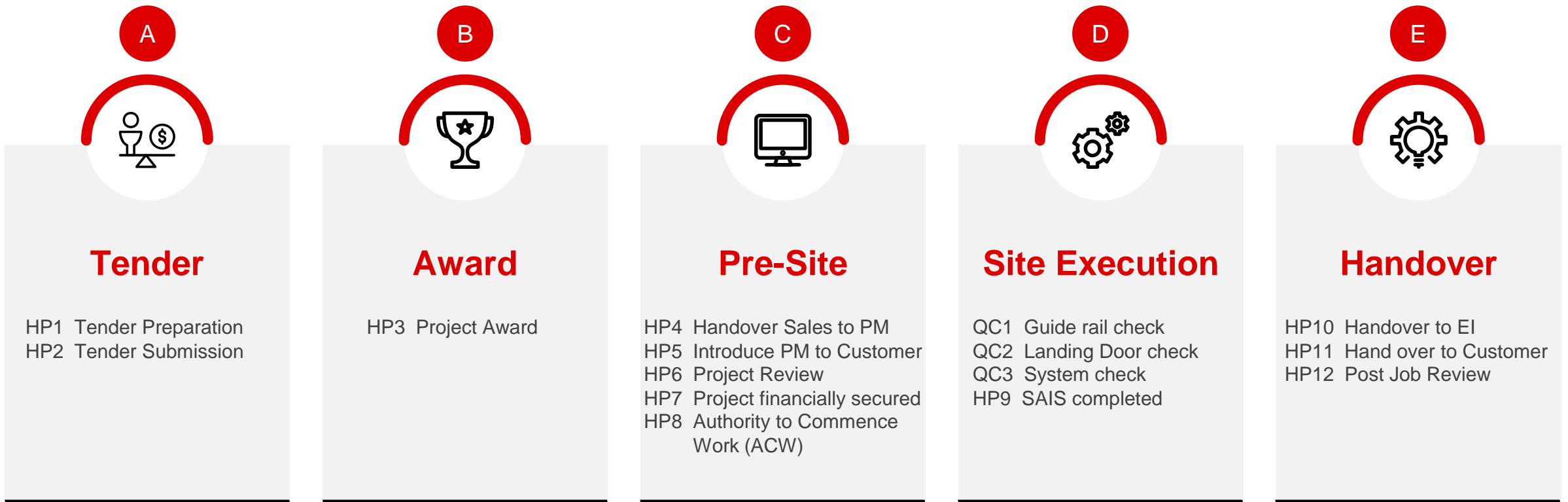
## 1st Dimension – Business Process



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# Markets

## 2nd Dimension – Quality Assurance

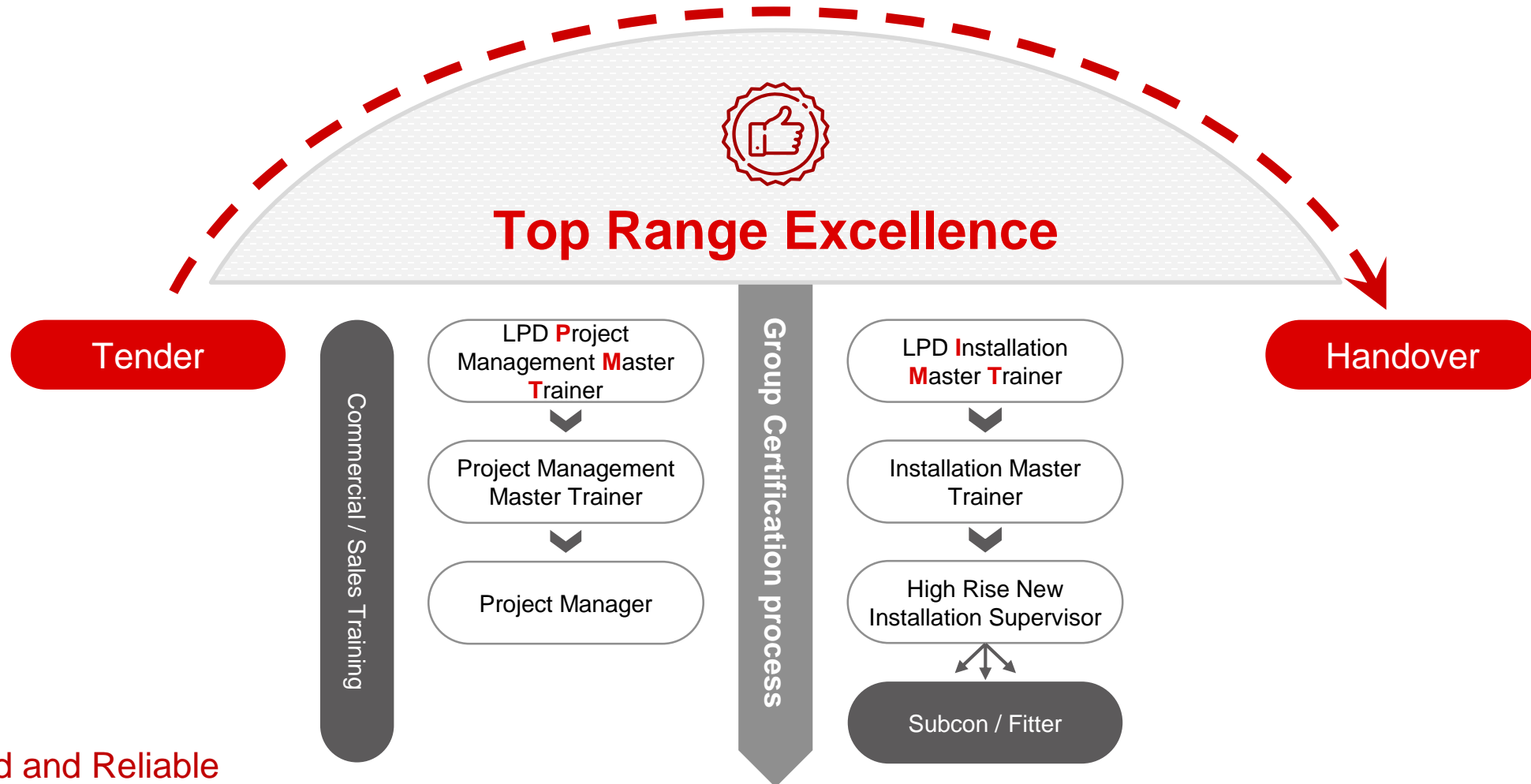


HP: Project Holdpoint Review  
QC: Technical Holdpoint Review

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# Top Range Excellence

## 3rd Dimension: Global Training & Certification Cascade



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# Top Range Excellence

## Global HCR Development Objective

Assure Fulfillment HCR (Human Capital Readiness) for Large Projects according to Top Range Excellence:

Project Master Trainers (PMT)

Project Managers (PM)

Installation Master Trainer (IMT)

High-Rise NI Supervisor (NISV)

High-Rise Maintenance Master Trainer (MMT)

High-Rise EI Technician.

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# The scaffold-less installation methodology for High-Rise

## A global standard of installation excellence

Work safety  
(triple safety  
redundancy)



High  
independence and  
flexibility  
(for staged or  
topped out inst.)



Reusable  
material



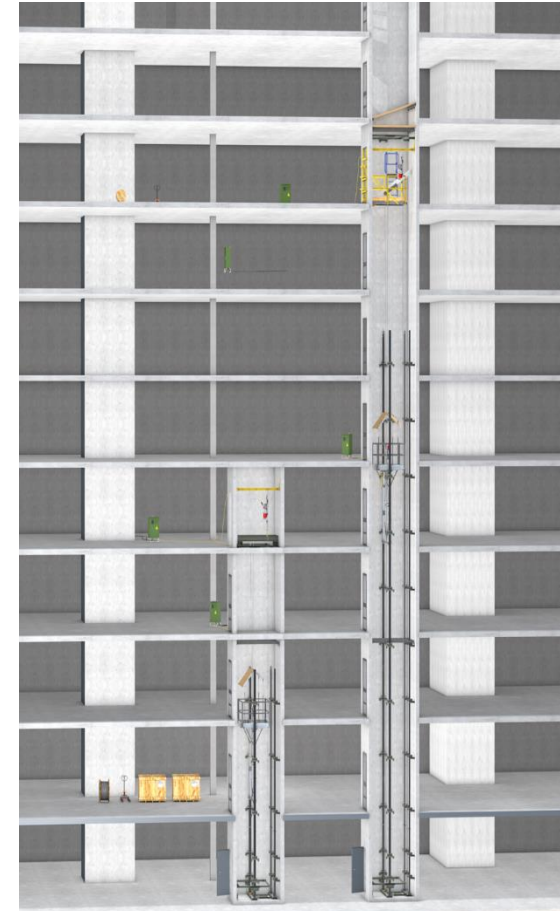
Adjustable for all  
shaft dimensions



Precise guide rail  
and door alignment



Tailored solutions  
for individual  
jobsite situations



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# Ride Quality

## What is “Ride Quality”?



Ride quality, as defined by ISO 18738-1, refers to sound levels in the car and vibration of the car floor in an elevator system relevant to passenger perception.

The ISO ride quality specifications quantify an otherwise subjective experience of comfort, providing measurable standards of sound and vibration in an elevator system.

Vibration is measured in mg, and it is equal to the physical value «acceleration» which has the dimension of vertical and horizontal, while noise is the physical value of «sound» which is measured in dB.



**“Ride quality is not a mystery; it is a technology that lies in the design and installation of every bolt and nut in an elevator.”**

Jonathan Huang, Master Trainer of Installation

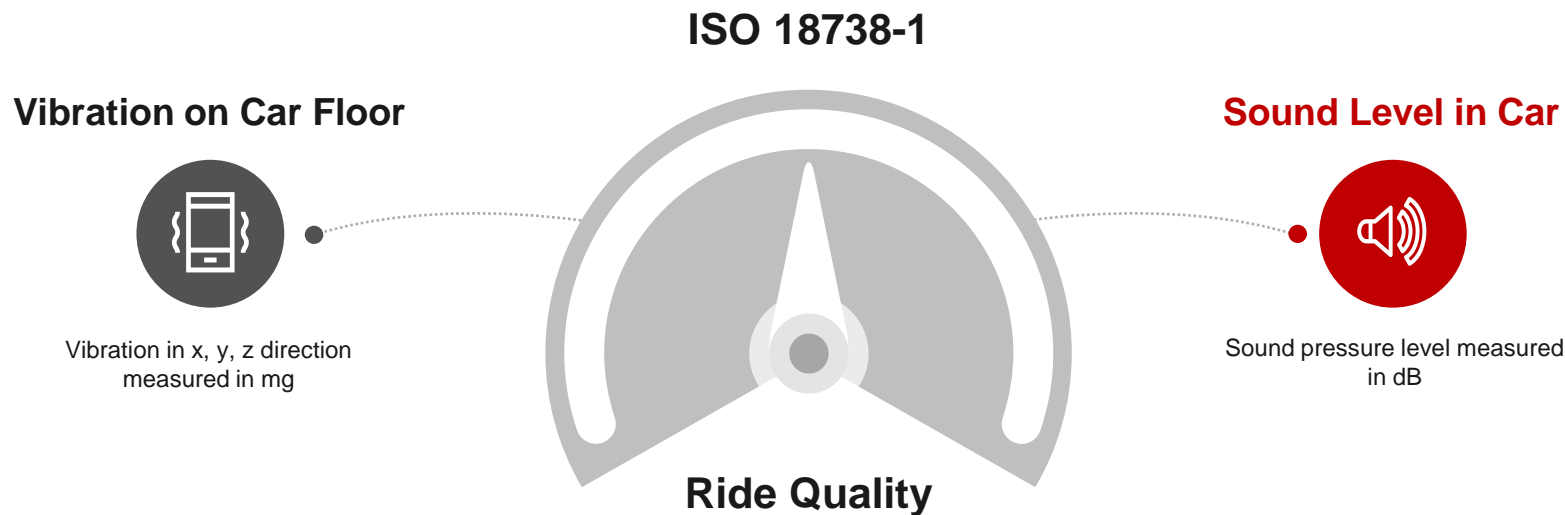
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# Ride Quality

## Noise and vibration



Ride quality refers to the perception of the elevator travel by the passenger and by other persons in the building. Ride quality is defined by the level of acceleration and noise acting on the passenger as well as on the noise caused by the elevator movement in the building.



ISO 18738-1 (measurement of ride quality lifts) specifies requirements and methodology for the measurement and reporting of lift ride quality during lift motion. It does not specify acceptable or unacceptable ride quality.

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**Iconic  
Achievements**

Lakhta Center | Saint Peterburg  
462 m



BC Oruzheydiy | Moscow  
165m



BC Federation Tower | Moscow  
370m



RC Capital Towers | Moscow  
270m



BC Nordstar | Moscow  
172m



BC Arcs IV | Moscow  
50 m

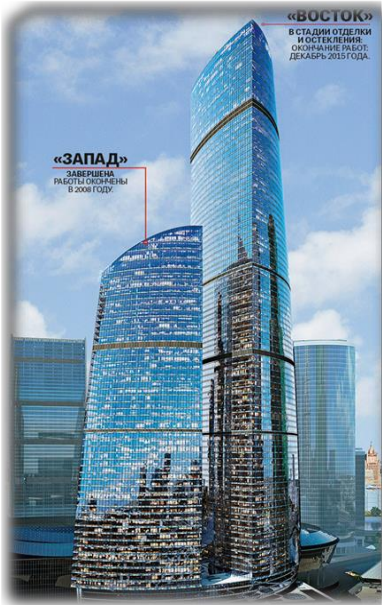


Moscow University | Moscow  
182 m



# Proven Expertise

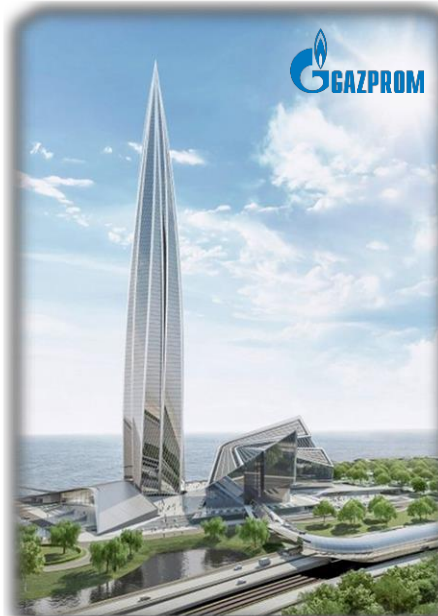
## Landmark Projects in Russia



**BC Federation Tower, 2015**

**Height:** 370m, 95 stops  
**Elevators:** 10 x S7000 (8 m/s)  
 4 x S5400  
 14 x S3300  
 PORT traffic control  
 E-Vision

**Escalators:** 16 x S9300



**BC Lakhta Centre, 2018**

**Height:** 462m, 87 stops  
**Elevators:** 26 x S7000 (incl DD)  
 10 x S5500  
 4 x S3300  
 PORT traffic control  
 Lobby Vision  
 E-Vision

**Escalators:** 4 x S9300



**BC Nordstar, 2009**

**Height:** 172m, 41 stops  
**Elevators:** 12 x S7000 (DD)  
 5 x S5400  
 PORT traffic control  
 Lobby Vision  
 E-Vision

**Escalators:** 2 x S9300



**BC Oruzheyniy 2015**

**Height:** 165m, 28 stops  
**Elevators:** 27 x S7000  
 9 x S5400  
 2 x S2600  
 PORT traffic control  
 Lobby Vision  
 E-Vision



**RC Capital Towers, 2022**

**Height:** 270m, 65 stops  
**Elevators:** 18 x S7000  
 27 x S5500  
 PORT traffic control

# Proven Expertise

## Landmark Projects in Russia



**BC Vodniy, 2014**

Height: 101m, 28 stops  
 Elevators: 13 x S7000  
 5 x S5400  
 6 x S3300

Escalators: 14 x S9300  
 Moving walks: 6 x S9500



**RC Fili Grad-1, 2014**

Height: 113m, 31 stops  
 Elevators: 4 x S7000  
 40 x S5500



**Mall Solaris, 2020**

Elevators: 36 x S5500

Escalators: 32 x S9300  
 Moving walks: 12 x S9500



**Moscow University 2019**

Height: 182m, 36 stops  
 Elevators: 22 x S6500 (MOD)



**BC Arcus IV, 2022**

Height: 50m, 14 stops  
 Elevators: 5 x S7000  
 2 x S5500  
 PORT traffic control  
 Lobby Vision  
 E-Vision  
 Turnstile integration