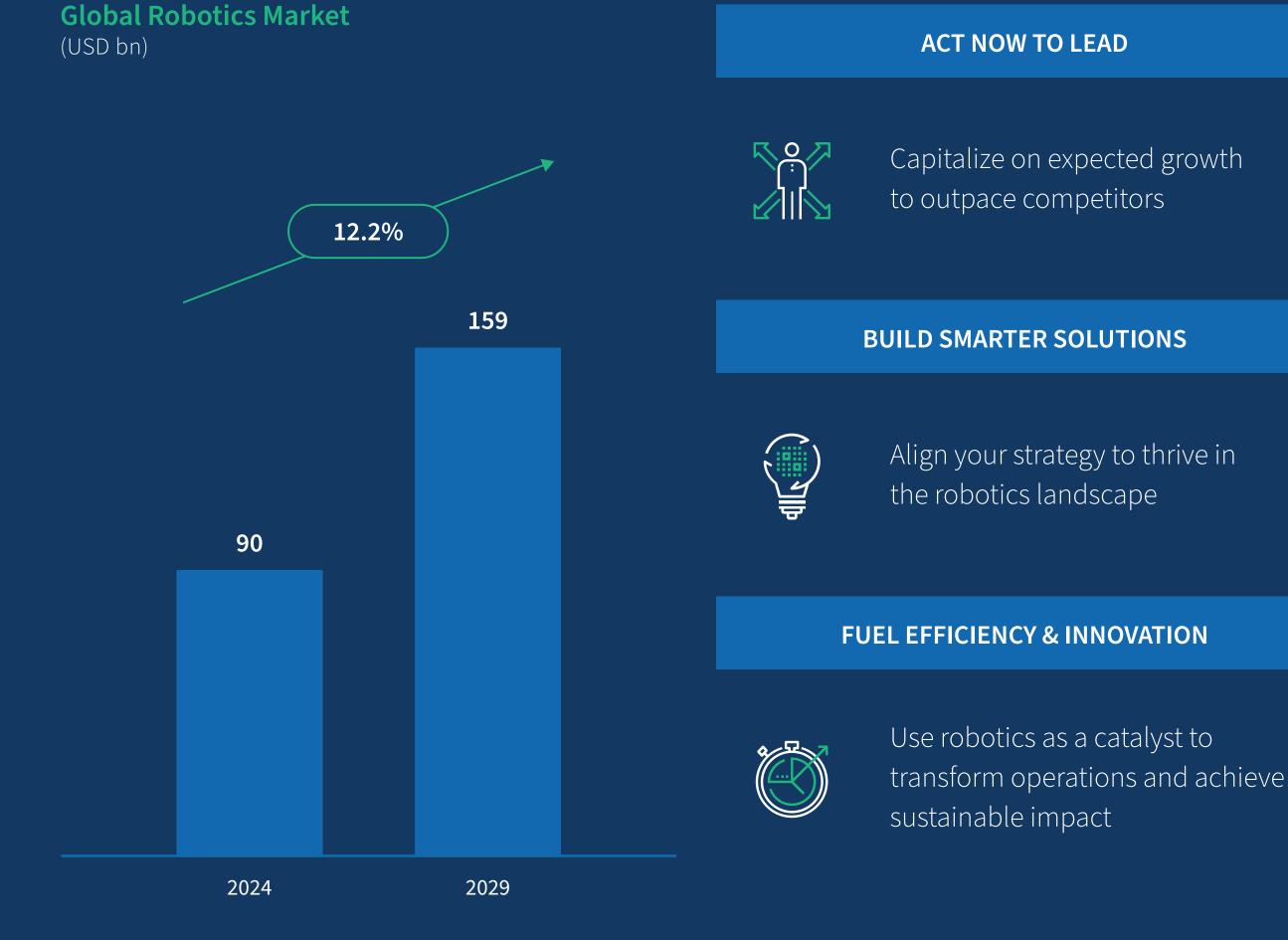


Harnessing the Robotics Revolution

Nine Insights for Industry Leaders



The global Robotics market will double by 2029 to reach USD \$159 billion; innovators are leading smart developments that drive growth and efficiency

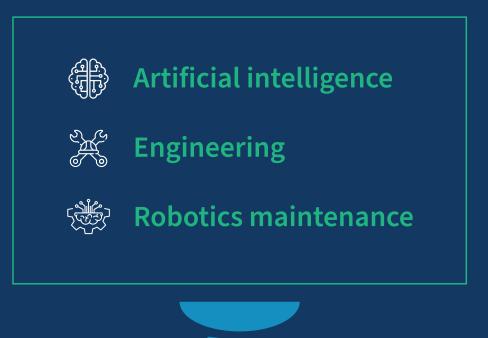






Far from eliminating jobs, robotics automation will structurally reshape industries and skillsets while creating new opportunities from a job creation angle

JOBS CREATED **97 million jobs**







Automation isn't eliminating jobs; it's creating them. With **97 million** new roles expected worldwide, you should position your development at the forefront of technological advancement

Intersection of Robots, Humans and Software

1. Fleet manager Change mgmt. jobs descriptions

Software Human

3. user interface



South Korea leads in automation with a robotics penetration six times larger than the world average, highlighting massive growth potential

1,012 robots per 10,000 employees Korea 6x 162 robots per 10,000 employees 219 Average North America 182 Average Asia

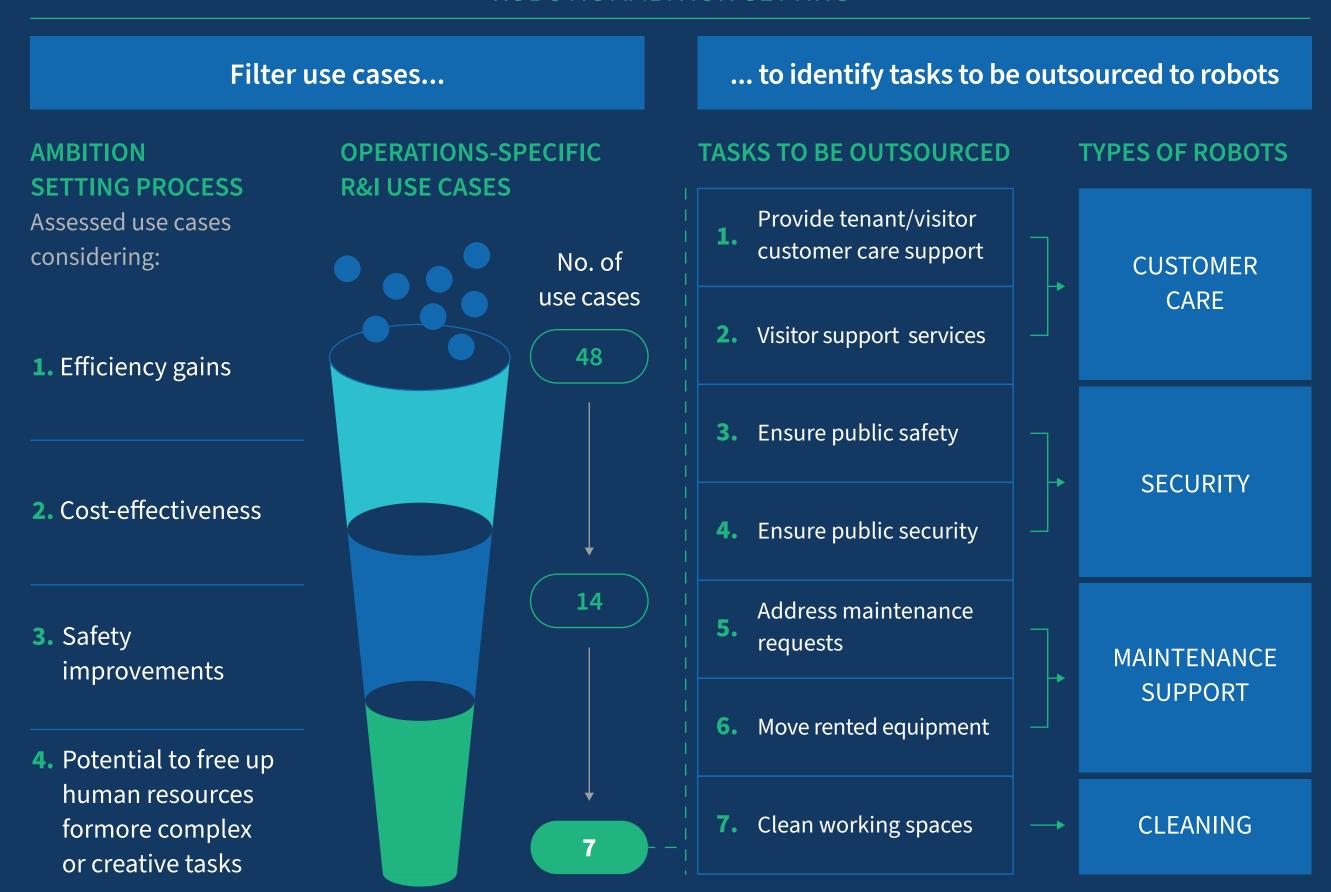


Robot density has doubled in the past seven years. Even so, South Korea is significantly above the market, followed by Singapore and China with 770 and 470 robots per 10,000 FTEs¹ respectively.



Robotics automation is not about replacing people, it is about leaving repetitive tasks to robots so people can focus on strategic priorities and innovation

ROBOTIC AMBITION SETTING







From security and maintenance to customer care, robots are equipped with skills to handle a variety of tasks and support smart development operations

Illustrative

	CUSTOMER CARE	SECURITY	MAINTENANCE	CLEANING	CLEANING	CLEANING
	LG Cloi Guidebot	SMP Argus	TUGBOT Tugbot 2	LIONSBOT R3 VAC	NEXARO NR 1500	LIONSBOT R3 Scrub Pro
SCRIPTION .	Information and tour guide ser-vices robot	Autonomous security robot Video system	Connects to a variety of carts and facilities	Cleans 0cm to edges Automatically	Cleans corners and under fur- niture	Brush options for many floor types
שב	Uses sensors and camera to navigate	with thermal and visible radiation sensors	Tows a payload up to 600kg	returns to charge	Designed for professional spaces	Automatically returns to charge and drains / refills water
CHAKGE LIME	9hs	10hs-12hs	8hs	2hs-3hs	2.5hs-3.5hs	3hs
EO / NON	5hs	4hs-6hs	25 mins	2hs	2hs	95-125 mins



More sophisticated robots are becoming operational through experimentation and AI integration, performing complex operations with significant autonomy

Illustrative

	SOCIAL HEALTHCARE ROBOTS	MULTIPURPOSE UGV ¹	QUADRUPED ROBOTS	
	Navel Robotics Navel	Bold Robotics Shadow	ANY botics Anymal X	
DESCRIPTION	Social healthcare companion for elderly patients	Fully electric, remotely or auton- omously operated UGV	Rugged, impact-protected robot for demanding environments	
	Assists individuals with cognitive and emotional care needs	Capable of performing light tasks on rugged terrain	Intended to inspect oil & gas and chemical operations	
NET FEALURE	Enhanced human interaction: Engages with users emotionally & conversationally	Advanced mobility: Can operate autonomously in rough terrain	Four-legged movement: Capable of maneuvring in multi- floor facilities	
AI/IVIL CAPADILI I	 Natural language processing Non-verbal communication including expressions and eyesight tracking 	 Fully autonomous operation even on hazardous terrain 	 AI-driven quadrupedal movement and automated data gathering 	







NaverLabs '1784' integrates robotics, digital twins and Al-driven infrastructure to set a new standard for smart developments and robotics as mainstream

MAIN FEATURES

Essential Foundations for Smart Space
The entire space as a digital twin

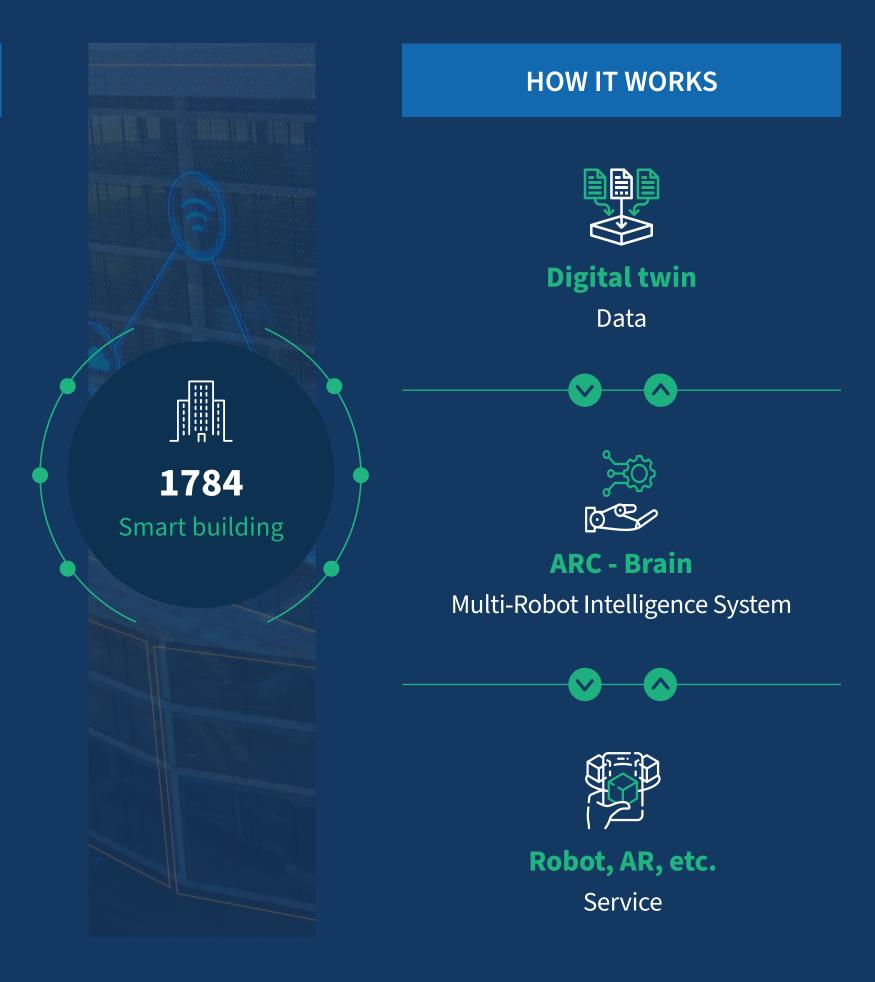
Digital twin automation using robots and AI AI-based three-dimensional localization

World's First Robot-Friendly Building Robot-friendly building design

Integration between robots, BMS, IoT and applications Optimization of movement via robot-only elevator, e.g.

Integrated Solutions for Future Buildings
In-house solutions

In-house development of equipment and technologies From cloud/5G infrastructure to all-in-one applications





Successful robotics integration requires both physical and digital infrastructure, robot-friendly spaces and centralized data ecosystems

Physical requirements

Robot-friendly urban spaces



Integrate robot-specific features like dedicated elevators and charging stations into your city's design to enhance efficiency and reduce long-term costs

Digital Requirements

Robotics as part of the tech stack integration

FLEET MANAGEMENT PROVIDERS

Fleet management providers have specialized within the robotics landscape to differentiate their solutions between device complexity and level of control

In sophisticated applications, fleet management as an stand-alone software will not be sufficient; integration with the orchestration and data layers of the smart city or development is key to generate maximum impact

Adopt a centralized data ecosystem to efficiently manage your robotic fleet in coordination with the entire tech stack





The operational impact is clear and results are measurable: Robotics reduce injuries by 70%, improve efficiency by 50% and cut delivery times by 30%

4.1 DOUBLE YOUR CITY'S EFFICIENCY

Implement robots to reduce cycle times by up to 50%

4.6 ENHANCE WORKFORCE SAFETY

Robotics can reduce workplace injuries by

70%

4.5 ADVANCE SUSTAINABILITY

Collaborative robots reduce energy consumption by **18%**



4.2 SPEED UP SERVICE DELIVERY

Robotic automation can cut delivery times by

30%

4.3 ELEVATE QUALITY STANDARDS

Achieve unparalleled precision: robots can lower defect rates by up to

75%

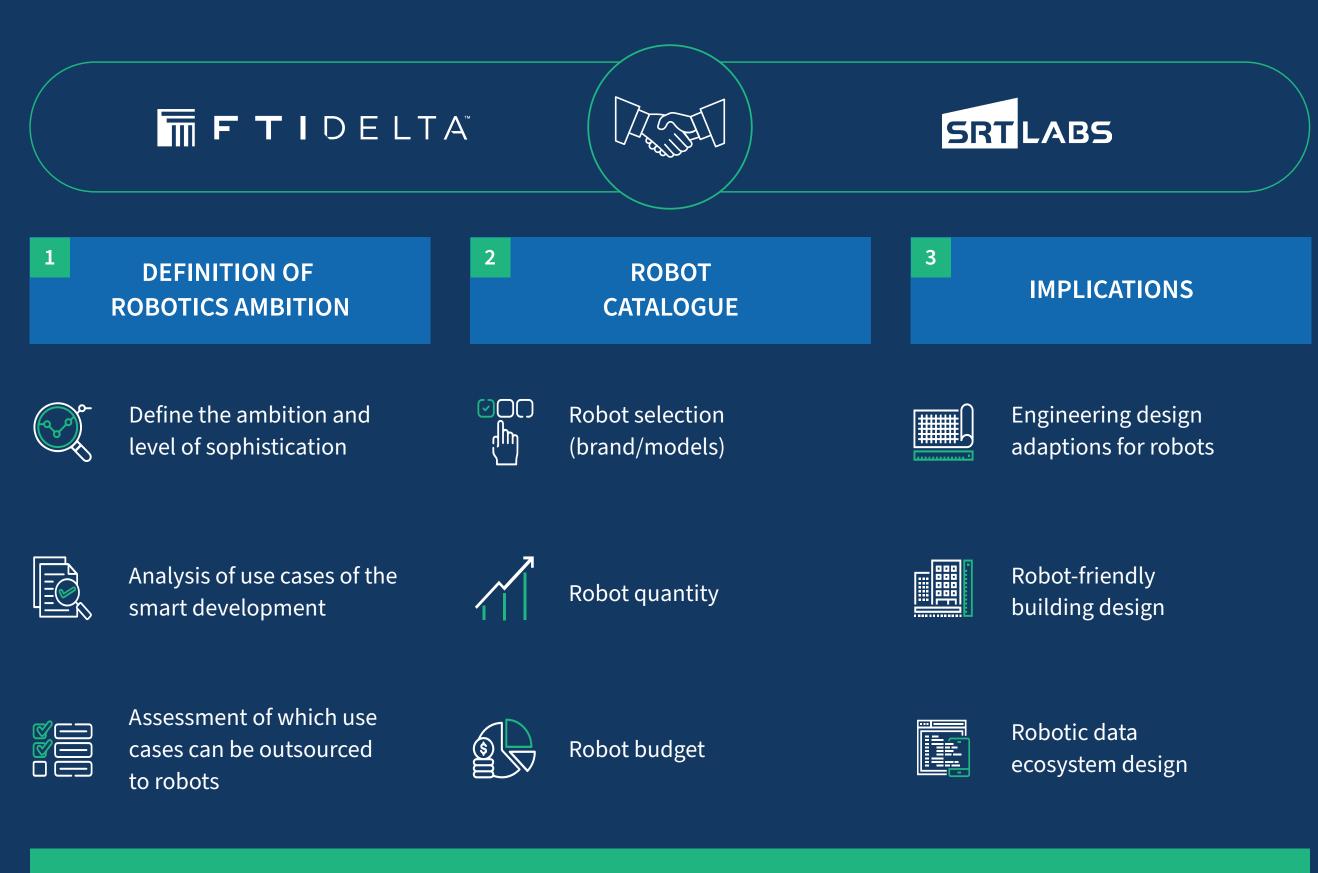
4.4 MAXIMIZE UPTIME

Maintain seamless city operations with robots that offer up to 90%-98% uptime





FTI Delta and SRT Labs are trusted advisors in robotics, combining strategic thinking with hands-on implementation expertise



Design implementation plan for robotic use across the smart development





Reach out to our experts to learn more about how FTI Delta and SRT Labs can help

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