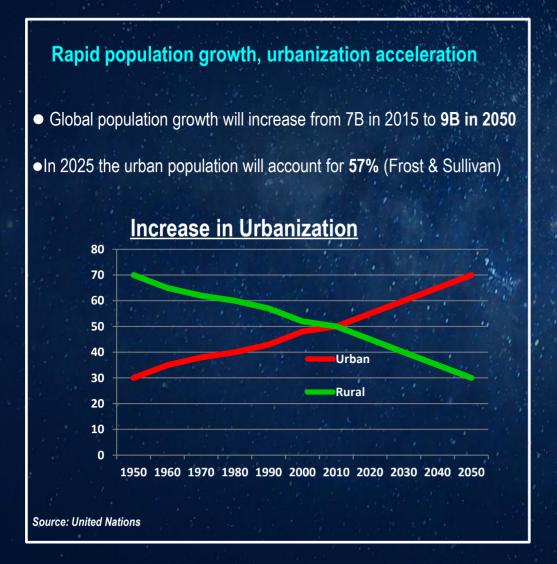


Why Do We Need Smart City?





SMART CITIES need to solve real urban issues



54% of the global population - to become 66% by 2050



75% of an average country's GDP



75% of global primary energy consumption



50% to 60% of global greenhouse gas emissions



In the U.S., city commuters spend **7 billion hours** in traffic jams that cost the whole economy an estimated **\$160 billion**



In the U.K. the rate of violent crime is approx. **12 acts per 1000** people in urban areas and below **7 per 1000** people in rural areas



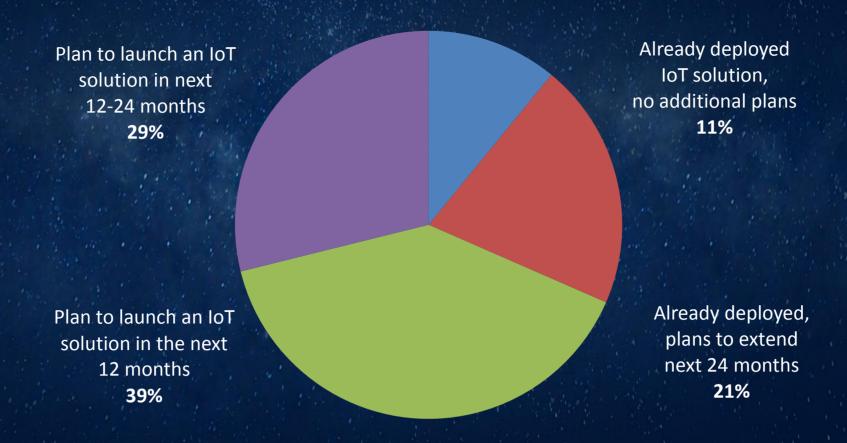
23% of the world's population lives in cities within **100 km** distance of the coast, thus are exposed to saltwater intrusion and risk of flooding

IoT, the Foundation of Smart City

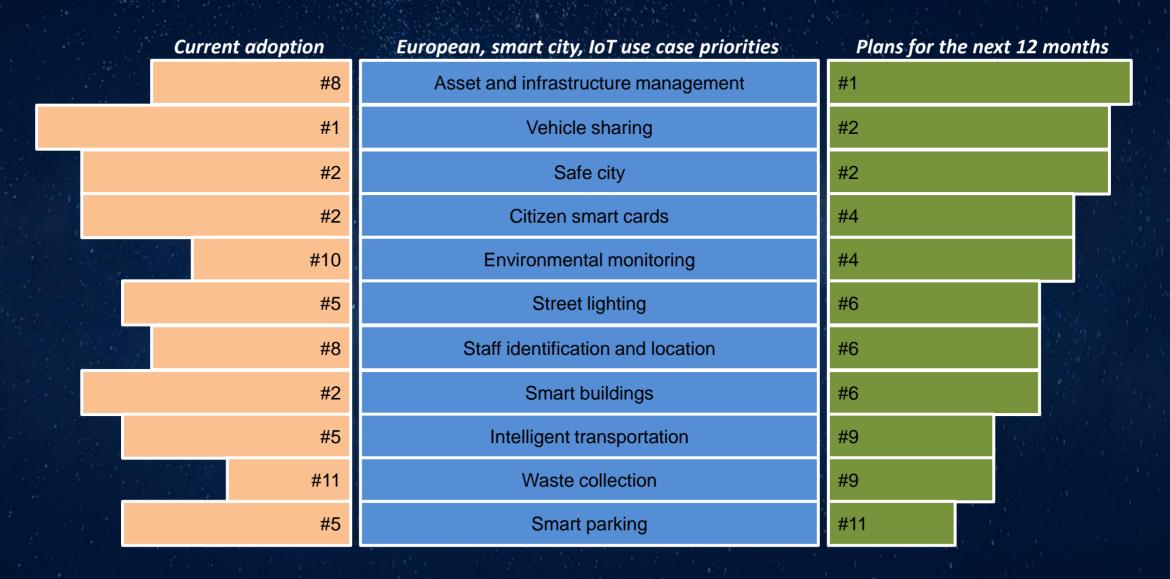


Global Smart City IoT deployments

Worldwide Local Government IoT Adoption and Investment Plans



Public safety and asset management are top priorities



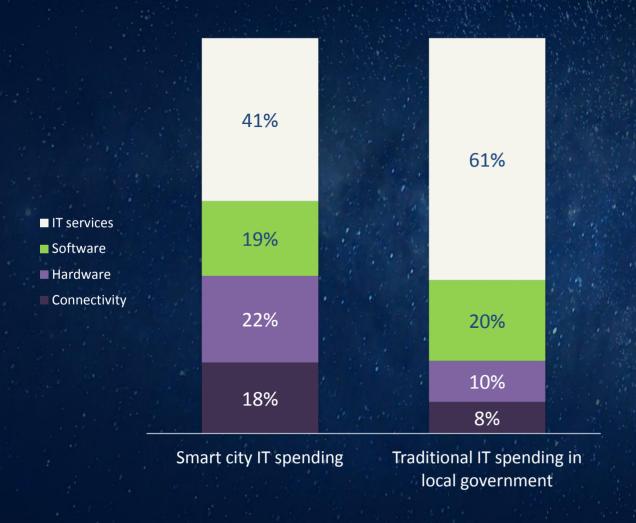
Smart and Digital Boost Economy of over \$3 trillions

Market Value by Segment, Global, 2025



Source: Frost & Sullivan Analysis

Smart cities are deploying infrastructure



- Establish a digital transformation unit that will define key policies
- Design a **strategy** that **aligns** with long-term goals
- Actively engage with the ecosystem
- Develop integration platforms incrementally
- Make data available across departments and

with the ecosystem through standard APIs

Results are promising...

Networked LED
Street lighting



50% operation and energy Costs Savings

Connected Trash Bins



40-80% Labor cost reductions

35%
Operation Efficiency

Smart Parking



Traffic speed +20%

-85% Manpower

-90% Illegal Parking

Smart Buildings



payback in less than

6 months

Smart Water



-40% clean water loss due to leaks, pipe bursts

