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Role of artificial intelligence and IoT in sustainable smart cities

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Sustainable Smart Cities' idea and business resilience concepts are attracting significant attention from governments, academicians, practitioners and international institutions across the world, as a response to future environmental challenges, economic issues as well as increased urbanization. Smart City initiatives driven by technological progress is said to have positive impact on quality of life by preserving the natural environmental resources.

It is expected that there will be about 10 billion people in urban cities by 2030 worldwide. With increasing global population, the major chunk of problems pertains to difficulties faced by the Public Authorities of the respective nations in managing the municipalities and cities. Managing urban areas remains a challenging task in the face of limited resources of urban areas with this ever-growing shift from rural to urban locality. Need of providing urban systems a liveable future with better quality of life therefore drives efforts towards building the cities smarter and economic systems more sustainable. Smart cities not only aim at improving the infrastructure, communication, and services for better outcome but also at responding more efficiently, effectively and dynamically to the urban sustainability issues. The concept of "smart cities" can help cities growing more resilient and responsive in response to disasters and crises. Smart city solutions is also expected to bring significant business prospects. However, smart cities may disrupt some of existing businesses because digital solution might significantly change the value chain and the cities' landscape. Better quality, cost, and efficiency expectations from customers may require mass customization and adaptability almost in all areas ranging from public transportation to healthcare. In fact, socio-economic consequences of recent pandemic and resultant global crises have necessitated the adoption of digital tools and emerging key technologies. This has also generated a new stimulus for business organizations for embracing resilience perspective. Resilience as a virtue or strength of an organization is built up through a conducive far-sighted management philosophy that can look beyond the present, remains prepared for the worst scenario and tides over any crisis within a reasonable time. In this regard, recently developed frontier technologies like block chain, artificial intelligence (AI) and Industrial Internet of things (IoT) have become viable which means capable of meeting global urban demands and contributing towards resilience building.