



Smart City

Ministry of Urban Development

Smart Cities Mission

Advisory No. 7

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**Subject: Role of Information and Communication Technologies (ICT) in the development of 'smart' infrastructure.**

1. The role of Information and Communication Technologies (ICT) in the development of 'smart' infrastructure cannot be over emphasized. A robust communication network & reliable IT connectivity is a prerequisite for creating smart infrastructure across various segments / verticals in the proposed Smart Cities.
2. Based on the advice of Department of Telecommunication (DoT), it is recommended that the following aspects may be taken into consideration while planning and creating such infrastructure:
  - i. City wide ducts for robust fibre optic network for reliable communication and IT infrastructure including in-building solutions.
  - ii. Adherence to global & Indian standards for smart city communications.
  - iii. Adopting solutions that ensure interoperability.
  - iv. Smart services across various verticals should necessarily be IP based. DoT has informed that it has already mandated use of IPv6 to all stakeholders including State Governments
3. The principles mentioned above are indicative and given for facility of reference. Each city needs to customize as per their requirements, based on the principles mentioned above.