Once high capacity broadband infrastructure is in place, it will be possible to develop a number of applications to improve the quality of life of the citizens.

Access to broadband connectivity is considered as a commodity nowadays. End users are expecting to be able to have access to high bandwidth services regardless of their locations and mobility conditions. Need for very high capacity wireless broadband connectivity.

In Sweden the ubiquitous wireless broadband connectivity is quite advanced. Brazil can follow closely if the right steps are taken.

In the Smart City Concepts in Curitiba project, ICT focus on efficient ways to deploy and manage an ICT infrastructure able to answer this need.

The importance of connectivity in cities

High capacity infrastructure  Development of applications  Improvement of life quality

Application in Sweden and Brazil

- Access to broadband connectivity is considered as a commodity nowadays.
- End users are expecting to be able to have access to high bandwidth services regardless of their locations and mobility conditions.
- Need for very high capacity wireless broadband connectivity.
- In Sweden the ubiquitous wireless broadband connectivity is quite advanced.
- Brazil can follow closely if the right steps are taken.
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Future scenarios for Curitiba

- Example: Smart networked systems for road traffic:
  - Optimized and cognitive decision-making system
  - Runs virtually everywhere to detect and prevent accidents
  - Build on ICT infrastructure
  - Support of the most stringent requirements: Reaction time and robustness
- The involved systems consist of:
  - Networked road users (vehicles and pedestrians)
  - Smart decision making systems controlling the situation on the road

General framework

- Providing powerful computing and communication resources on the fly
- Designing fast, intelligent and robust decision-making methods
- Building a common artificial intelligence-based information and communication system platform

Functional principle of ICT system for road traffic

Unified control plane

Unified data plane

architecture design