

# IT S in Palestine – Promoters and Challenges

**Al-Quds Open University**

Information & Communication Technology Centre

# Introduction

- iMobility aims at demonstrating, promoting and boosting the deployment of Intelligent Transport Systems (ITS) for efficient and sustainable mobility.
- ITS Refers to using technology to embed intelligence into transportation systems.
- Benefits: Lower traffic Congestion, Reduce/Avoid accidents, Provide Convenient travel, Improve Safety and Security, Allow remote car diagnostics, Dynamic traffic rerouting, reduce pollution, etc..

# Toward an ITS

- Awareness: The benefits of ITS Should be disseminated to end-users, decision-makers, researchers and industry.
- A national ITS deployment plan should be developed.
- New laws should be enacted to Promote ITS research and help achieve national goals.
- A transportation Data Center Should be established.

# Challenges

There are some challenges facing applying ITS in Palestine:

- Wireless Telecommunication Infrastructure.
- Transportation Infrastructure.
- Privacy Issues.
- Limited Fund Opportunities
- Technology literacy in Palestine.

# Technology literacy in Palestine

- Advanced technology may face resistance due to:
  - Unfamiliarity / complexity: not all people in transportation can use technology easily.
  - Sensitivity to mistakes in settings or human made error.
  - Lack of people trust in technology.
  - Lack of privacy.
  - Additional service charges.

# ITS Requirements

- An ITS solution should:
  - maximize the output of existing infrastructure while being flexible to account for future expansions.
  - Enable Data Collection and dissemination Securely and efficiently.
  - Employ fast and intelligent data analysis algorithms that adapt promptly and dynamically to changes.

# Research

- Statistical analysis of collected data can help understand mobility/travel patterns.
- Simulations can be utilized to identify and/or test proposed solutions.
- Efficient and reliable data mining/Artificial intelligence techniques are needed. Such a feature allows future predictions and thus proactively avoid traffic jams.
- Need for secure data collection and dissemination.

# Conclusion

- Laws should be enacted to promote ITS deployment.
- Palestinian challenges may differ from other places.
- Raising user awareness is a key to successful implementation of ITS.
- Research is the key to the development of cost-effective and efficient ITS solutions.