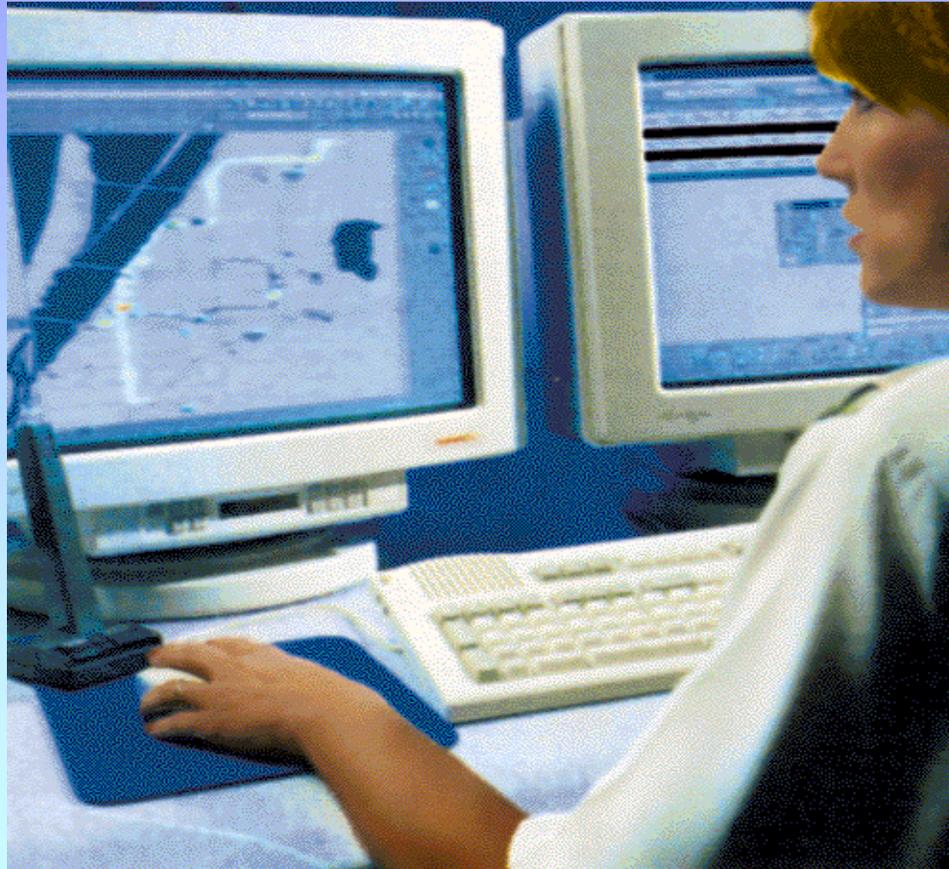




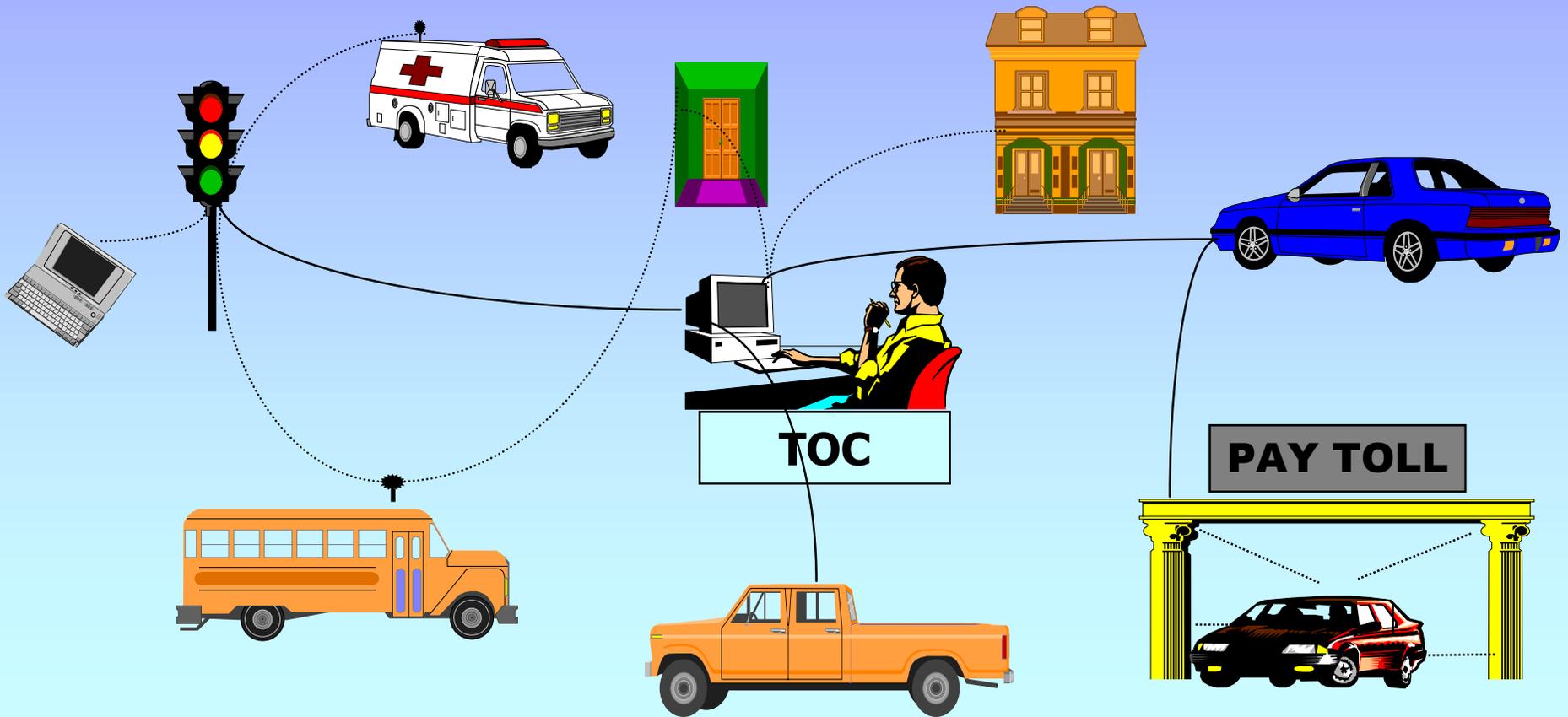
ITS Interoperability



Interoperability - 1



What Is ITS Interoperability?





Definition of ITS Interoperability

The ability of ITS systems

- ◆ To provide information and services to other systems
- ◆ To accept information and services from other systems
- ◆ To use the information and services that are exchanged to operate together effectively



Types of ITS Interoperability

Systems must be able to communicate and operate effectively together at many levels

- ◆ *Technical* - ability of equipment (hardware and software) to communicate (i.e., send and receive information)
- ◆ *Procedural* - common procedures to exchange meaningful information (i.e., interpret and understand the information)
- ◆ *Institutional* - administrative and/or contractual agreements between operators and users of the information (e.g., financial transactions among accounts)



ITS Integration vs. Interoperability

- ◆ **Integration:** sharing infrastructure, exchanging information, and using data for control
- ◆ **Interoperability:** *automated systems* using standardized protocols to accomplish the same goals