

91-81

"Research on Wireless LAN Systems in Japan" IEEE P802.11 July 1994
- Research and Development Center for Radio Systems

- ☆Release from Complicated and Tangled Wiring
 - Time and cost reductions of wiring
 - Expansion of LAN application
- ☆Layout Flexibility
 - Office reconfiguration
 - Layout rearrangement in department stores or shops
- ☆Movable Data Terminal
 - Wireless connection of portable personal computer, indoor unmanned carrier vehicles etc. to LAN
- ☆Quick Installation of LAN
 - LAN installation at any time and at any place

Wireless LAN System

☆Objectives

- Establishment of wireless LAN system with flexible access capability

☆Subjects

- Standard system definition
- Radio transmission scheme
- Radio control scheme
- Technical parameters for radio equipment
- Measuring techniques for radio equipment

Objectives and Subjects for
Wireless LAN System

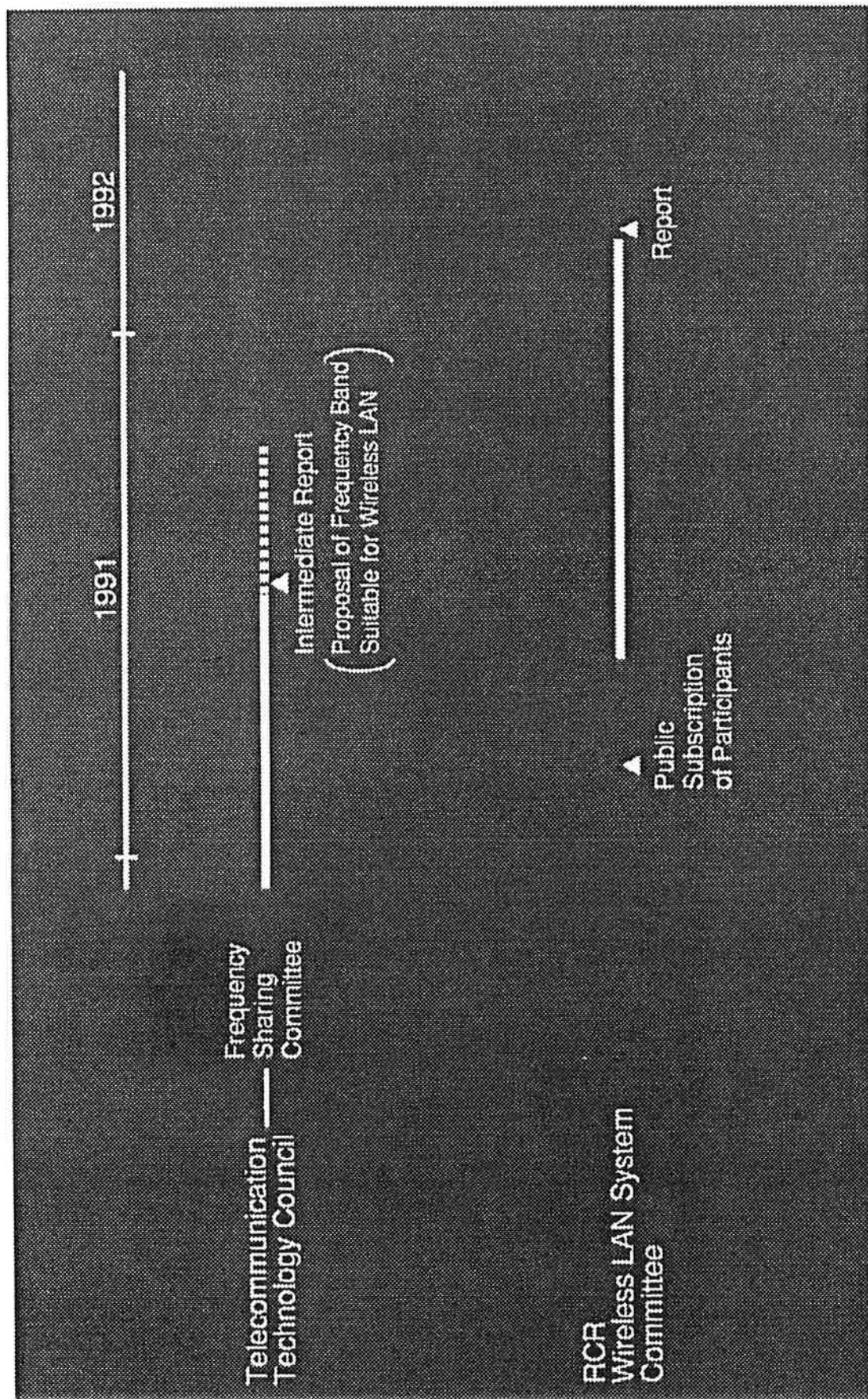
I Features of Existing Wireless Data Transmission System

Frequency Band	400 MHz Band	1,200MHz Band
Maximum Data Rate	4,800bps	32kbps
Radio Terminal		
Access Control System	Simplex / Semi-duplex / Duplex	Duplex
Number of Channels	Control Channel	Simplex : 2 Others : 1
	Data Transmission Channel	Simplex : 18 Others : 9
Channel Selection Scheme for Data Transmission	Automatic Carrier Sensing Selection	
Transmission Time Limit	40sec	30sec
Output Power	10mW	10mW 100mW

II Present Technical Subject

LAN speed capability (more than several Mbps data transmission) approaching or equalling that of existing wired LANs is required.

Existing Wireless LAN System



Japanese Approach to Wireless LAN System