

Key Issues on ITS Deployment and Evaluation

~ KOCHI 2001 PLAN and KoCoRo ~



“Restoration of Information Society”
from Tosa

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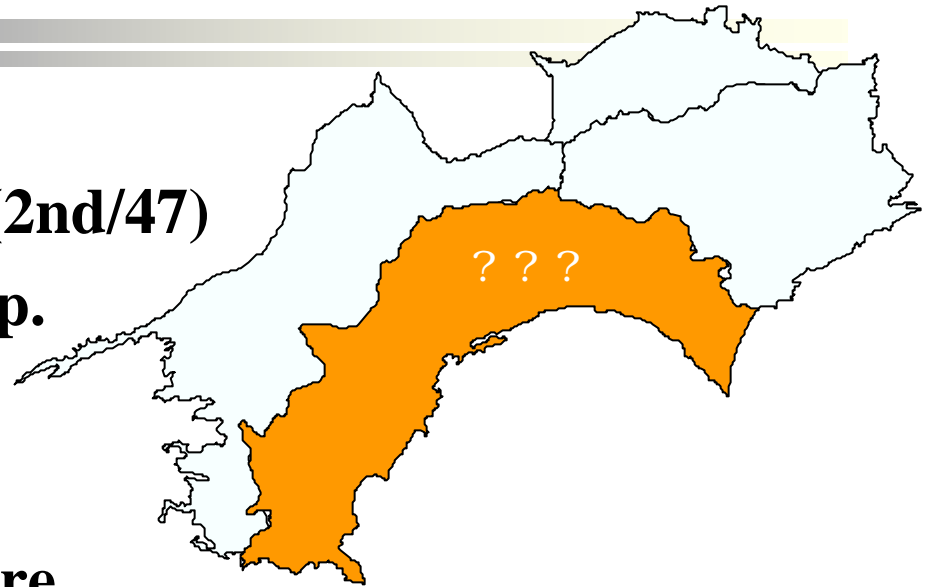
Condition of Kochi Prefecture

•Aging Society

- Aging ratio (+65) 21.8% (2nd/47)

- 1st Pref. showing natural pop.

Decrease



•Not-well-developed infrastructure

- Road improvement 39.2% (44th)

- Road Close 43 times(742hrs)/year

•Weak economic

- Revenue / local tax 21.9% (47th)

- GDP per capita 2,383Myen (45th)



Critical Transportation Investment Decisions

- ? Highway / Airport Construction**
- ? Road Operations and Maintenance**
- ? Public Transportation Mobility**
- ? Tourism and Traveler Information**

Approach to Deployment of ITS

1 . ITS projects integrated in the regional comprehensive IT deployment plan.

2 . Establishing a core local communication network shared with related agencies

3 . P-D-C-A (Plan Do Check Action) circle to utilize ITS evaluation results for the next transportation decision making

Summary of KOCHI 2001 PLAN

KOCHI prefecture offers a new lifestyle in rural regions using information technologies, and conducts experiments and research in many fields.

Concept

Restoration of
Information
Society
for a new lifestyle

Deployment

- Cooperation among industry, university, & government
- for 10 projects

Period

5 year project
Year 1997-2001

Site

The whole
Prefecture

- ? Advanced information system for aged & depopulated society
- ? Activation of industry under industry-university-government cooperation centered on Kochi University of Technology
- ? New local revitalization through advanced informatics

ITS Model Deployment Areas

Feasibility Study by Japanese Government

- Objectives.

- ITS Model Deployment and Feasibility Study on Effectiveness of ITS
- Supporting Selected Regional Efforts as ITS Model Deployment

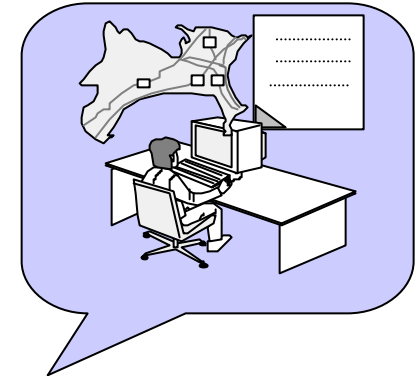
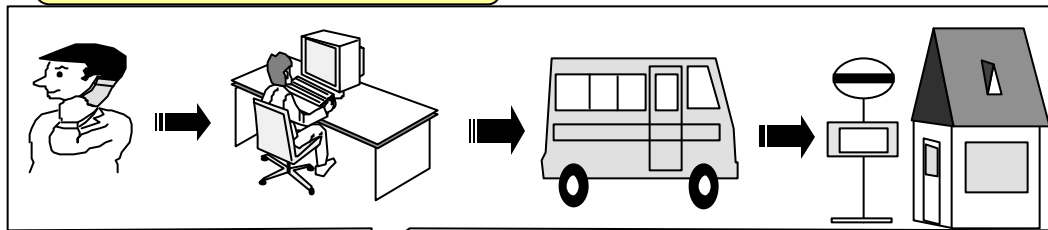
- Model areas:

- Sept. 1998 Five areas selected by F/S Committee (Kochi, Toyota, Gifu, Okayama, Tokyo)
- - March 2000 Experiments and Evaluation

Demand Responsive Bus Systems project

Nakamura City Bus

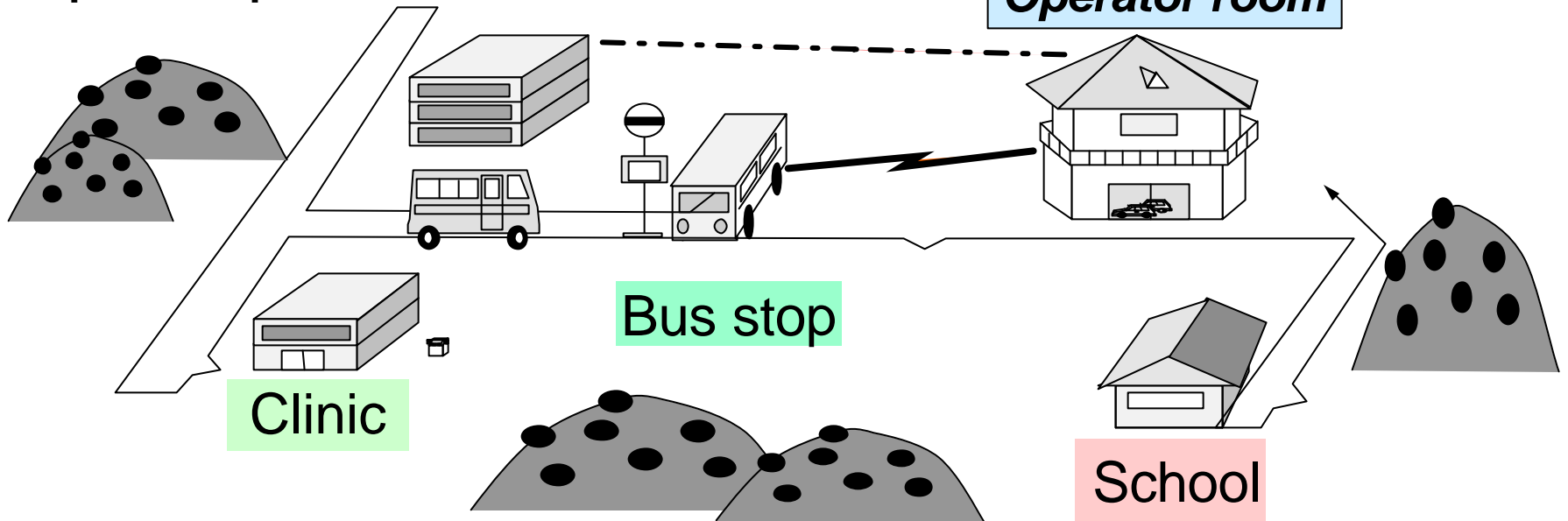
Bus-on-demand



Request Dispatch

Pick-up

Operator room



Experimental Results

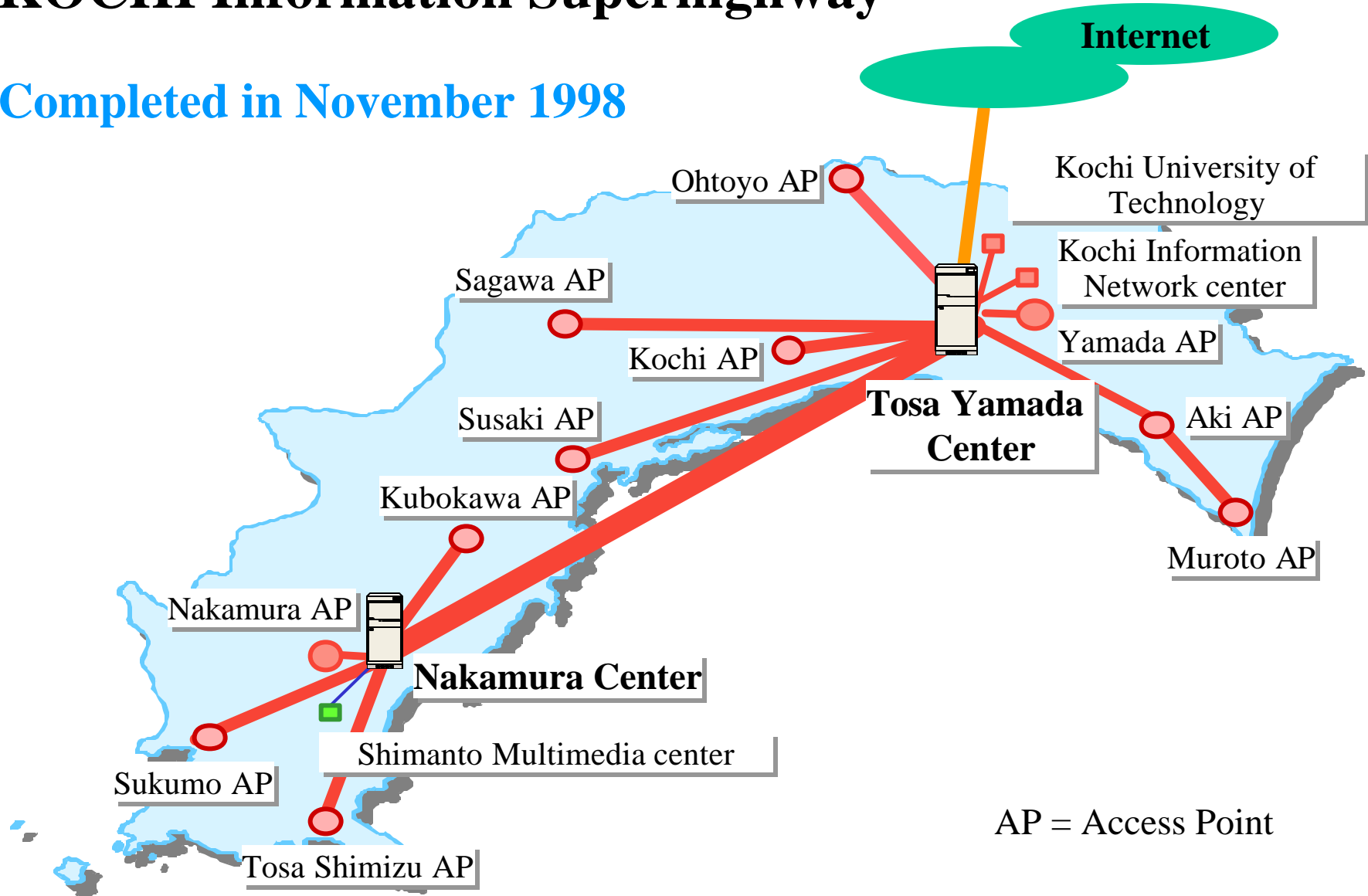
1. Four to Five times more users than that before the experiment : 7 users/day ? 30 users/day
2. Questionnaire results showed that users highly evaluated the new bus service.

Problems and issues

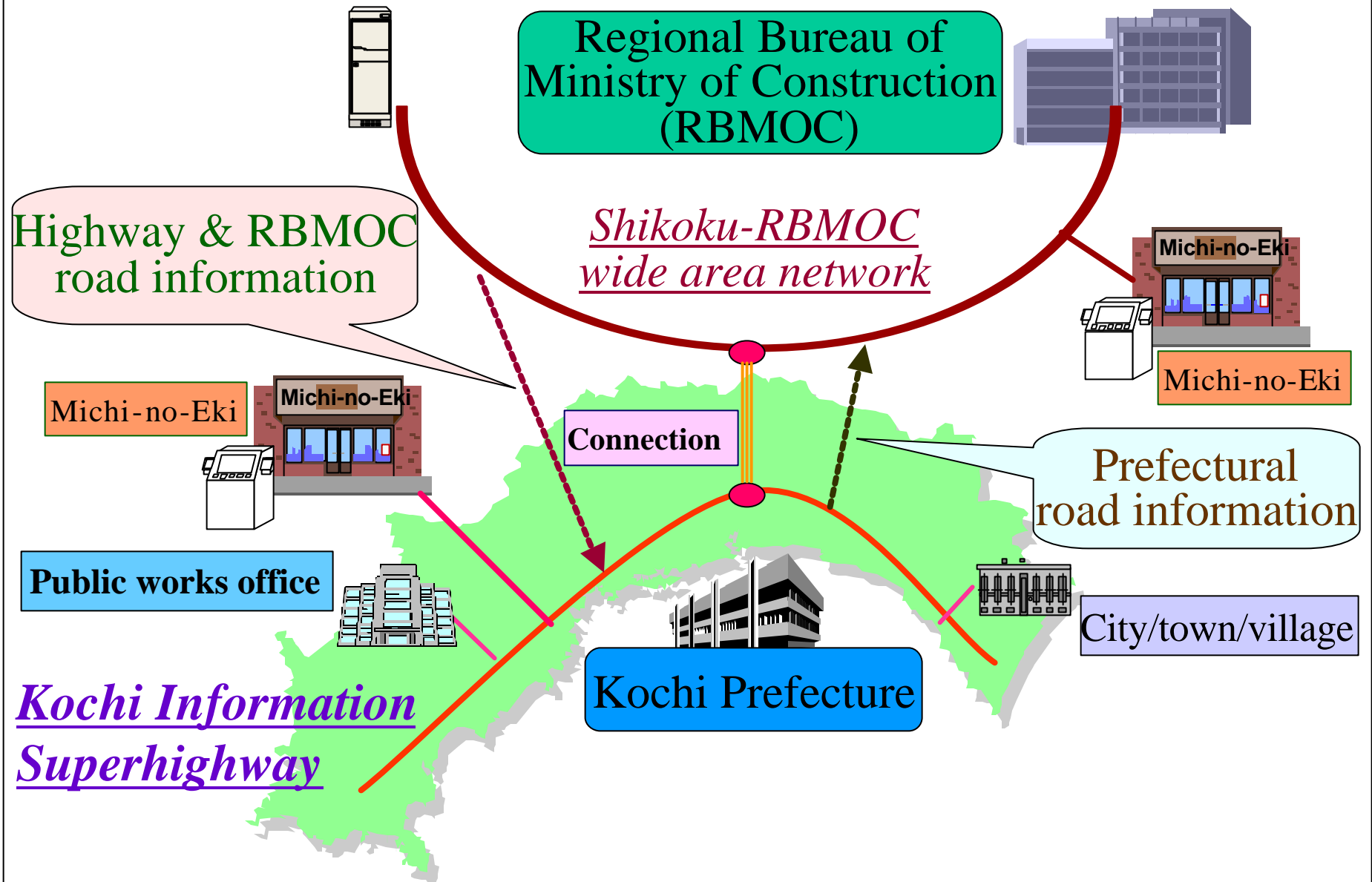
1. Better cost Performance is necessary for the continuous operation
Despite of largely increased users, bus business could not get out of the red.
2. Experiment cooperated with town development projects
Shopping malls joining a new bus service system
Experiment of park-and-bus-ride

Network Configuration of KOCHI Information Superhighway

Completed in November 1998



Wide area information network



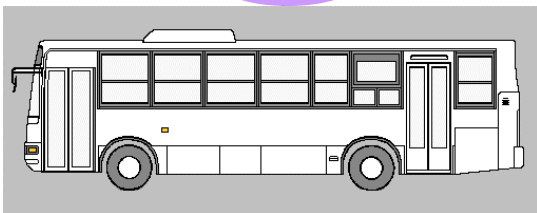
ITS Projects in Kochi based on the P-D-C-A Cycle

? Reflecting the evaluation results to KoCoRo'99

- Sharing road management information
- Information offering by the means of internet, browser phone etc.
- Experiment of demand-responsive bus system utilizing IT
- ITS model deployment district



Internet

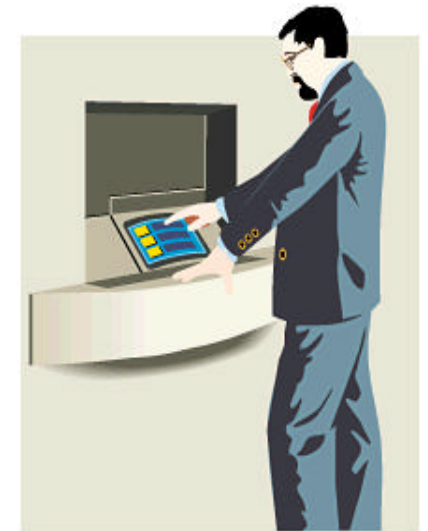


? Planning of KoCoRo'97

- Develop information provision systems to the "Road Station"

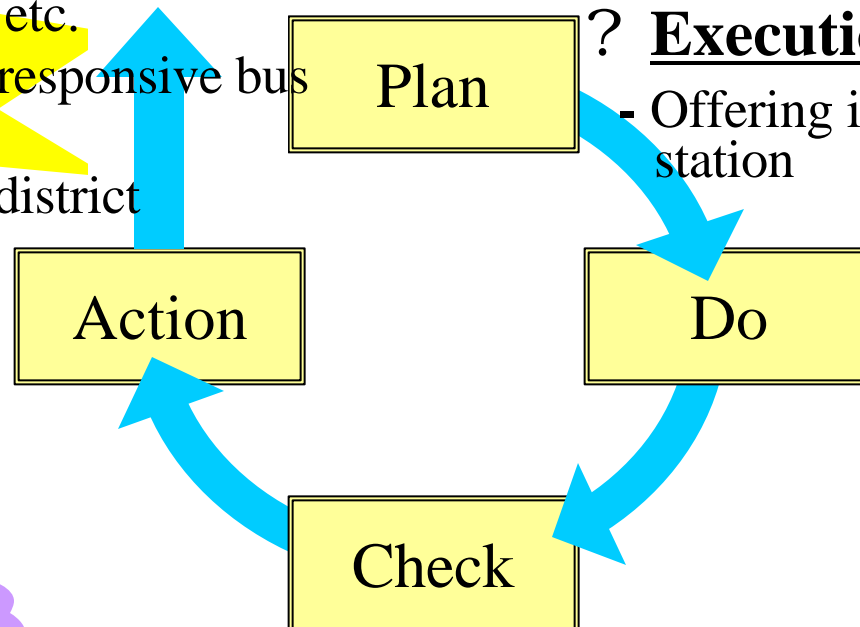
? Execution of KoCoRo'97

- Offering information at the station



? Evaluation of KoCoRo'97

- Information services were highly evaluated.
- Various means of offering information were needed.
- New public transportation systems were needed.



Information provision via the Internet ~ traffic regulation (example)

Traffic regulation

Route

Area

Regulation

Cause

Regulation Period

道路規制情報を表示します

路線番号	国道33号
地名	高知県高岡郡越知町横倉 から 高知県吾川郡吾川村森山字オオヂ ミまで
規制内容	通行止め
原因事象	事前規制
規制開始日時	1997/09/16 16:30
規制終了日時	1997/09/17 6:30

閉じる

道路画像情報

拡大 縮小

四国全体地図を表示

現在の場所を確認

各県へのリンク

愛媛 香川
高知 徳島

操作説明 アンケート

Home Mail

地図上の規制情報シンボルをクリックすると、規制情報を表示します

通行止情報	通行規制情報	オートキャンプ場
⊗ 通行止	⚠ 災害	🏠 道の駅
🚚 大型通行止	🚧 チェーン	

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イントラネットゾーン