Railway Digitalization plan
1 Status Quo

2 Digitalization Planning
Status Quo
a. FZt-CTC Dispatching Centralization System

- Data Recording
- Display of Malfunction in Track Circuit
- Check Power Supply Condition for Track Circuit
- Operation Control
➢ Status Quo

b. Passenger Service Management System
➢ Status Quo

c. Passenger Ticket Management Information System

The Passenger Ticket Management Information System is consisted of two structures, namely Dispatching Control Center and Station. In Labu Dispatching Control Center of this railway, as the server center of Passenger Ticket Management Information System, there are different equipment, including database server, application server, interface server, and management server, etc., which are providing ticketing service or support to passenger stations.
Issue Passenger Ticket
➢ Status Quo
d. Freight Transport Management Information System

Freight Transport Management Information System

Marketing Management
- Order Mgt.
- Bill Mgt.
- Cost Calculation
- Issue Freight Bill

Loading and Unloading Management
- Loading Planning
- Reporting Loading Time
- Unloading Planning
- Reporting Unloading Time

Wagon Management
- Approving the use of Wagon
- Wagon Status Quo Mgt.
- Confirmation & Reporting Mgt.
- Shunting Operation Mgt.

Statistics & Analysis
- Transport Volume
- Types of Cargoes

Other Fee
Transportation Fee
Freight Transport Management Information System -- Interface

Check wagon Status Quo
At present, all these existing systems are used in an isolated way.
Digitalization Planning

a. Adoption of SAP Management Procedure
Digitalization Planning

b. Future BI Planning

Data Standardization
(data element, coding standard, format standard)

- Data Collection
- Data Storage
- Data Processing
- Data Display

Financial data
Business data
Budget data
Safety risk data

Reporting Platform
Data Exchange Platform
Data Storehouse

Classification & Integration
Indicator definition
Data market

SAP BI Platform

Data query
- Universal query
- Trace query

Data analysis
- Indicator analysis
- Report generation
- Pre-warning Mngt.

Data mining
- Radar scan
- Mngt. cockpit

Internal Information Platform

➢ Digitalization Planning
b. Future BI Planning
Digitalization Planning

c. Online Passenger Ticketing System
Thank You!