

# **DIGITAL DAY**



# JSC RUSSIAN RAILWAYS DIGITAL RAILROAD VISION & IMPLEMENTATION





# **DIGITAL RAILROAD**

# **RAIL FREIGHT**













# INTERACTION WITH PUBLIC AUTHORITIES



















# PASSENGER TRANSPORTATION – CONVENIENCE, COMFORT, SAFETY



## **DIGITAL SERVICES FOR PASSENGER**

- Seamless WiFi roaming
- Multimedia services (navigation, entertainment, etc.)
- Order of services (restaurant, taxi, hotel, etc.)
- Paperless technology
- Personal offers

#### INTELLIGENT CAR AND STATION

- Common passengers area
- Access control
- Individual customizing options in compartment
- Operational status control
- Access to station resources

#### **COMPLEX SAFETY**

- Security system based on digital models
- Automated integrated monitoring (traffic flow control, face and emergency situations detection, control of the state)
- Centralized management

INFORMATION SERVICES
BOOKING SERVICES AND TICKET
PURCHASE
FLEXIBLE PRICING

TRAVEL SERVICES
CUSTOMER FEEDBACK

# **RAIL FREIGHT - ACCURACY & TRANSPARENCY**



#### **DIGITAL RAIL CAR**

Condition control

- Remote identification
- Scheduling on-condition repair
  - Location and cargo control

### **DIGITAL LOCOMOTIVE**

- Parametric control
- Scheduling on-condition repair
- Train driver condition control
- Locomotives auto communication
- Unmanned technologies (train auto navigation)

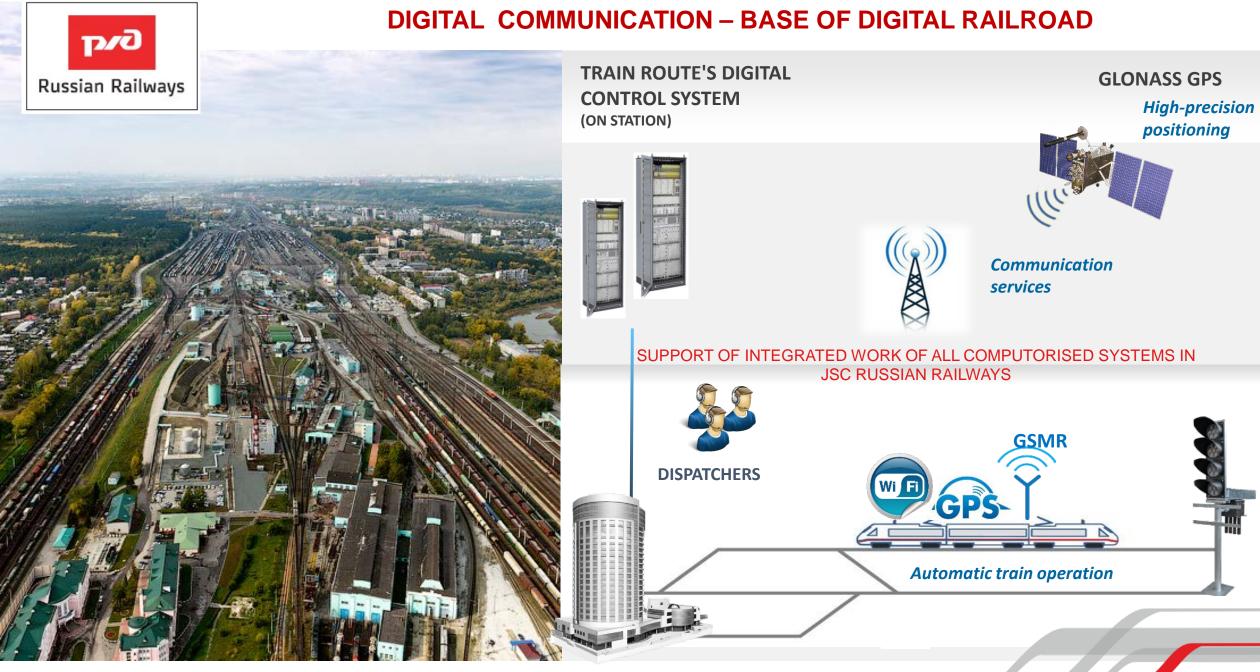
#### **DIGITAL INFRASTRUCTURE**

- Infrastructure condition control •
- Scheduling on-condition repair
- No traffic lights driving
- High-precision positioning

- Centralized control and maintains
- Interaction of infrastructure objects

INTELLIGENT TRAFFIC CONTROL FLEXIBLE PRICING "CARGO EXPRESS" / TRANSPORT CORRIDORS PAPERLESS INTERACTION LOGISTICS SERVICES

TENOLOGIES: Internet of things (IoT), Big Data, Digital communication (Digicom)



# **DIGITAL RAILROAD MEANS COOPERATION**



# LOOKING FOR INNOVATIONS

- Russian development
- World class solution
- Best practice
- Start-up etc.

# **JOINT EFFORTS**

- Siemens
- Bombardier
- Public authorities
- Etc.

## **UIC DIGITAL PLATFORM AS ENABLER**

- Knowledge & experience sharing
- Coordination
- Standardization
- Unified solutions



