THE GOALS: MORE TRAINS/CARGO/PASSAGERS. MORE ROUTES AND CONNECTIONS. MORE CLIENT SERVICES.
PASSENGER TRANSPORTATION – CONVENIENCE, COMFORT, SAFETY

TECNOLOGIES: Innovative mobility, Internet of things (IoT), Big Data, Digital communication

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
- Scheduling on-condition repair
- Remote identification
- 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

TECHNOLOGIES: Internet of things (IoT), Big Data, Digital communication (Digicom)
DIGITAL COMMUNICATION – BASE OF DIGITAL RAILROAD

TRAIN ROUTE’S DIGITAL CONTROL SYSTEM
(ON STATION)

GLONASS GPS
High-precision positioning

Communication services

SUPPORT OF INTEGRATED WORK OF ALL COMPUTERISED SYSTEMS IN JSC RUSSIAN RAILWAYS

DISPATCHERS

GSMR

Automatic train operation

DIGITAL COMMUNICATION – BASE OF DIGITAL RAILROAD

Russian Railways
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
THANK YOU!