Business Model Canvas

Created by **CT&DT-SPSU-BATCH No.5-PROJECT-STRUCTURAL HEALTH**

Designed via AltexSoft BMC Tool

Key Partnerships
- Machine Learning Models
- AI and Data Science Experts
- IoT Sensor Manufacturers
- Telecommunication Providers
- AI/ML Technology Providers
- Data Analytics Firms
- Cloud Computing Providers
- Railway Operators
- Civil Engineering Firms
- University Research Departments
- Government Bodies
- Local Municipalities
- Technology Integrators
- Maintenance Companies
- Security Service Providers
- Construction Companies
- Transport Infrastructure Consultants
- Risk Management Firms
- Railway Fleet Manufacturers
- Energy Providers
- Geospatial Data Providers
- Public Transportation Operators (Other modes)
- Digital Twin Technology Firms
- Emergency Response Teams
- Insurance Companies
- Legal Advisors
- Government Research Institutions
- Urban Mobility Solutions Providers

Key Activities
- System Design and Development
- Sensor and IoT Deployment
- Real-Time Data Collection
- Data Storage and Management
- Analytics and Machine Learning
- Dashboard Development
- Integration with Existing Systems
- Maintenance and Calibration
- Alert System Implementation
- Pilot Testing and Validation
- Collaboration with Metro Authorities
- Regulatory Compliance

Key Resources

- IoT Sensors
- Data Analytics Platform
- Machine Learning Models
- Real-Time Communication Systems
- Software Development Team
- Cloud Computing Infrastructure
- AI and Data Science Experts
- Mobile App Development Team
- User Experience (UX) Designers
- System Integrators
- Hardware Manufacturers
- Cloud Security Experts

Value Propositions
- Real-Time Monitoring
- Proactive Maintenance Alerts
- Enhanced Safety
- Reduced Operational Costs
- Extended Asset Lifespan
- Predictive Analytics
- Improved Decision Making
- Comprehensive Data Integration
- Seamless User Interface
- Automated Reporting
- Remote Monitoring Capability
- Smart Resource Management
- Environmental Impact Reduction
- Scalable Solution
- Seamless Integration with Existing Systems
- Cost Transparency
- Customizable Alerts
- Asset Tracking
- Easy-to-Understand Visuals
- AI-Powered Fault Detection
- Fast Issue Resolution
- Improved Communication
- Enhanced Disaster Preparedness
- Integration with Passenger Systems
- Comprehensive Risk Management
- Automated Compliance

Customer Relationships
- Dedicated Account Management
- Training Programs
- Customizable Dashboards
- Proactive Maintenance Alerts
- Regular Performance Reviews
- 24/7 Technical Support
- Subscription Tiers
- Onboarding Assistance
- Feedback Loops
- User Community Forums
- Regular Software Updates
- Value-Added Analytics Reports

Channels
- Official Website
- Mobile App
- Email Campaigns
- Social Media Platforms
- Online Webinars and Demos
- Online Marketplace
- Sales Team
- Trade Shows and Conferences
- Customer Support Hotline
- On-Site Training
- Government Partnerships
- Metro Rail Equipment Suppliers

Customer Segments
- Metro transit authorities
- Metro system administrators
- Operations managers
- Track maintenance teams
- Bridge and tunnel engineers
- Station maintenance teams
- Electro-mechanical engineers
- Inspection teams
- Safety officers
- Security personnel
- Emergency response teams
- IT teams
- Data scientists and analysts
- AI/ML specialists
- Cybersecurity teams
- Commuters
- Tourists
- Differently-abled passengers
- Senior citizens
- Environmentally-conscious travelers
- City planners
- Real estate developers
- Construction companies
- Local government agencies
- Regulatory bodies
- Transport ministries
- Environmental protection agencies

Cost Structure
- IoT Sensors and Devices
- Edge Devices
- Installation and Calibration
- Power Supply Infrastructure
- Dashboard Development
- Data Analytics Platforms
- API Integration
- Cloud Computing
- Data Transmission
- Network Maintenance
- Routine Maintenance
- Monitoring and Support
- R&D Investments

Revenue Streams
- Subscription Fees
- Hardware Sales
- Installation Charges
- Maintenance Contracts
- Pay-per-Use Model
- Data Licensing
- Customized Analytics Services
- Training and Support
- Consulting Services
- Dashboard Customization
- Alert and Notification Services
- Integration with Existing Systems
- Third-Party App Integration