

Business Model Canvas

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Designed via [AltexSoft BMC Tool](#)

Key Partnerships Sensor and IoT Device Manufacturers.Metro Rail Authorities and City Governments.Civil Engineering Firms and Academics.Insurance Providers for Risk Analysis.Technology Providers (Cloud, AI, and Big Data).	Key Activities Designing and Developing SHM Systems.Installing Sensors on Metro Rail Structures.Data Collection, Processing, and Analysis.Continuous System Maintenance and Upgrades.Training Operators and Maintenance Teams.	Value Propositions Safety and Reliability: Early detection of structural issues to prevent accidents.Cost Efficiency: Reduce maintenance costs with predictive maintenance.Operational Continuity: Minimize downtime by proactively managing risks.Regulatory Compliance: Ensure adherence to safety standards and regulations.Environmental Impact: Extend infrastructure lifespan, reducing waste.	Customer Relationships Dedicated Account Managers for Metro Rail Operators.24/7 Technical Support and Maintenance.Co-development Initiatives for Custom Solutions.Subscription-based Models for Long-term Engagement.	Customer Segments Metro Rail Operators (public and private)City Transport AuthoritiesUrban PlannersMaintenance ContractorsInsurance CompaniesCommuters (indirect beneficiaries)
	Key Resources Advanced IoT Sensors and Devices.Data Analytics Platforms and AI Algorithms.Skilled Engineers and Technicians.Research and Development Teams.Cloud Infrastructure for Data Storage and Processing.		Channels Direct Sales to Metro Rail Authorities.Industry Events and Conferences.Partnerships with Engineering Consultancies.Online Platforms and Social Media for Awareness.Government Collaboration Programs.	
Cost Structure R&D for SHM System Development.Manufacturing and Procurement of Sensors.Cloud Infrastructure and Data Storage Costs.Marketing and Customer Acquisition.Staff Salaries for Engineers, Analysts, and Support.		Revenue Streams Initial Installation Fees for SHM Systems.Subscription-based Predictive Maintenance Services.Data Analytics Services for Long-term Monitoring.Licensing SHM Technology to Other Rail Networks.Consultancy Services for Infrastructure Design and Retrofitting.		