

BUSINESS MODEL CANVAS: SMART DAMAGE/LEAKAGE DETECTION SYSTEM



- IoT Sensor Manufacturers: To integrate compatible sensors in the water pipeline infrastructure
- Telecom Providers (e.g., Twilio, local carriers): To send automated SMS notifications to field staff and engineers
- Cloud Hosting Providers (e.g., AWS, Azure): For backend server hosting, data storage, and real-time processing
- Local Governments: For funding, regulatory compliance, and access to city infrastructure



- Develop APIs to connect with different water
- Create logic to detect abnormal patterns (e.g.,
- Build admin dashboard for city officials
- Set up SMS automation rules (e.g., alert
- Train city employees on how to respond to alerts



Key Resources

- Software developers (mobile & backend)
- Data engineers to handle sensor data streams
- IoT integration specialists
- SMS Gateway APIs and credits
- Sensor testbed and labs for validation
- GIS tools to map locations of leaks

Value Proposition

- Immediate detection and alert when a water leak occurs
- Reduces water loss and infrastructure damage
- Pinpoint location via SMS and dashboard
- Helps prioritize response (e.g., based on zone or impact)
- Low-tech, SMS-based system works without internet



- Dedicated municipal onboarding support
- Regular check-ins and performance
- Alert customization support (language, frequency, priority levels)
- 24/7 technical support for outage handling



- City Municipal Water Departments
- Public Utilities Infrastructure Maintenance Teams
- Disaster/Environment Management Departments



Channels

Direct sales to municipalities via public

- Partnerships with water management
- Demo presentations at smart city expos
- Pilot programs with local government







(>) Cost Structure

- App development and maintenance
- SMS gateway charges (per message or monthly bulk package)
- Cloud server hosting and data management
- IoT sensor testing and integration
- Support staff and training programs



Revenue Stream

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- Custom setup/installation fee per site or pipeline section
- Consultation and support services
- Grants and public funding for infrastructure tech solutions

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