

# Smart Damage/Leakage Detection System for Oil & Gas Pipelines

With Mobile SMS Alert – Business  
Model Canvas

# Problem Statement

- Develop a smart damage/leakage detection system for oil and gas pipelines.
- System will be integrated with a mobile SMS app to alert and display:
  - - Issue detected
  - - Time of occurrence
  - - Location of leakage

# Customer Segments

- - Oil & Gas companies
- - Pipeline maintenance companies
- - Government agencies
- - Industrial safety management firms

# Value Propositions

- - Real-time detection of leakage
- - SMS alerts with time & GPS location
- - Reduced risk of hazards
- - Cost-effective solution
- - Regulatory compliance

# Channels

- - Direct sales
- - B2B partnerships
- - Industrial expos
- - Online platform/website

# Customer Relationships

- - 24/7 customer support
- - Installation & training
- - System updates
- - Feedback integration

# Revenue Streams

- - System installation fees
- - Subscription for monitoring
- - Maintenance packages
- - Licensing to safety companies

# Key Resources

- - Sensor hardware (pressure, acoustic, thermal)
- - GPS & GSM modules
- - Detection software
- - Mobile app interface
- - Skilled engineering team



# Key Activities

- - R&D of detection system
- - Software & app development
- - System testing & validation
- - Installation and integration
- - Customer support

# Key Partnerships

- - Sensor manufacturers
- - Telecom providers
- - IoT platform vendors
- - Regulatory bodies

# Cost Structure

- - R&D and prototyping
- - Hardware components
- - Software maintenance
- - Salaries and technicians
- - Marketing expenses