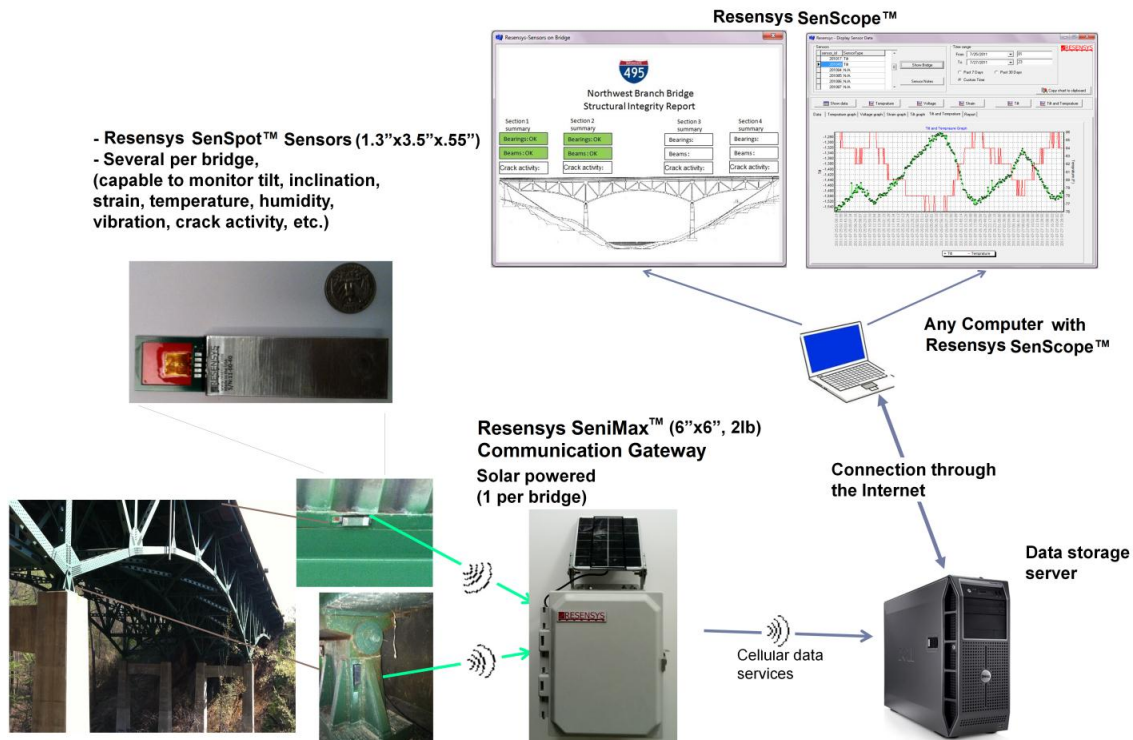




Overview of Resensys Structural Health Monitoring System

Deterioration of high valued structures – such as highway bridges, airframes, pipelines – is a common, yet complex problem. To protect the infrastructure systems against aging, deterioration, structural malfunction, Resensys has a cost effective and scalable solution for the real-time monitoring of important structural state quantities such as strain, cracks, vibration, tilt, inclination, moisture, humidity, etc. Resensys’s solution is based on patent pending **Active RF Test (ART)** technology, which incorporates novel sensing, ultra energy efficient processing, and wireless communication technologies into a small, wireless, and easy to attach adhesive mount sensor.



As an example, illustrated in the above picture, Resensys system is used for a bridge structural health monitoring. The system consists of three main components:

- ✓ **SenSpot™**: attached to structure (average 10-50 per bridge)
- ✓ **SeniMax™**: collects data on site of SenSpot™ and sends to remote server (1 per structure)
- ✓ **SenScope™**: software that analyzes data & generates alerts (customizable, can be replaced by a client’s software)