



SBIR Success Stories

Small Business Innovation Research (SBIR)

RUGGED SENSOR FOR MEASURING WIND EROSION

Sensit Co.
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INNOVATION

A rugged, low maintenance, unmanned sensor for measuring wind erosion that provides high resolution particle movement.

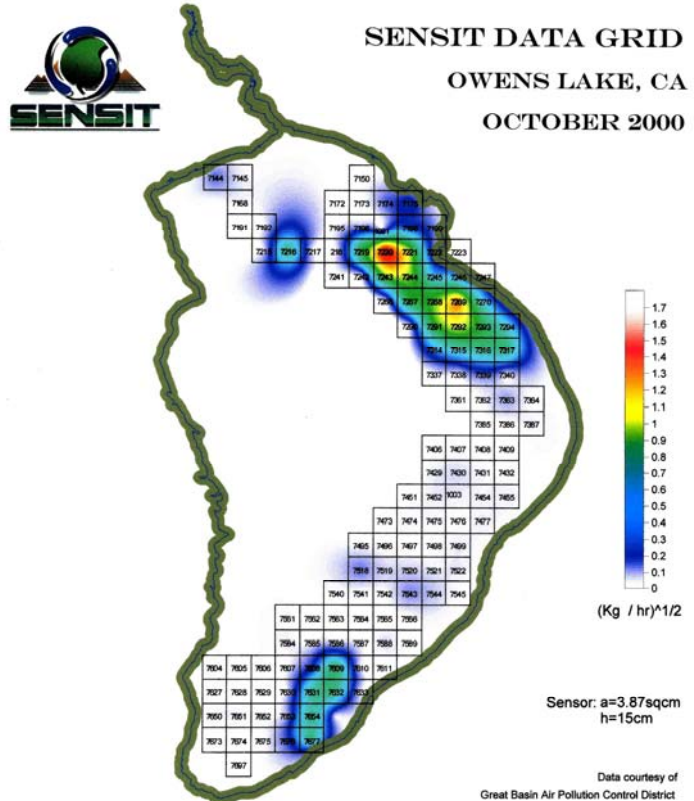
ACCOMPLISHMENTS

- ▶ Development of a sensor that:
 - Provides high resolution measurement of the movement of airborne particles.
 - Operates omni-directionally without moving parts thus eliminating the need for maintenance.
 - Operates remotely with low battery power consumption.

COMMERCIALIZATION

- ▶ The sensor is being used to monitor the movement of airborne particles of sand, dirt, snow and ice.
- ▶ The sensor is being used throughout the world, including:

<i>England</i>	<i>Madagascar</i>	<i>United States</i>	<i>Syria</i>
<i>Germany</i>	<i>Columbia</i>	<i>Saudi Arabia</i>	<i>Egypt</i>
<i>Canada</i>	<i>Japan</i>	<i>Antarctica</i>	<i>Israel</i>
<i>Israel</i>	<i>Argentina</i>	<i>Greenland</i>	<i>China</i>
<i>Mongolia</i>	<i>Australia</i>	<i>New Zealand</i>	<i>France</i>



PARTICLE MOVEMENT IN KEELER, CALIFORNIA

IMPACTS

- ▶ Approximately 300 Sensit sensors are in use in the Great Basin area of Keeler, California. These sensors are providing data for the largest erosion monitoring project ever undertaken.
- ▶ The sensor benefits the scientific community by providing information critical to models of erosion and wind movement models.



SBIR COMPETITIVELY AWARDS SMALL BUSINESS GRANTS FOR INNOVATIVE RESEARCH THAT HAS THE POTENTIAL OF SOLVING IMPORTANT AGRICULTURE AND RURAL DEVELOPMENT PROBLEMS.

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