

# Fiber Optics Deliver Real-Time Structural Monitoring



## Dryden Flight Research Center

**4DSP LLC**  
**Austin, TX**

### NASA Technology

- ◆ Agency scientists were studying how plane wings were performing during flight and wanted to develop a more efficient sensor technology.
- ◆ They created fiber optic sensors that were easier to apply to aircraft and delivered data quicker than before, but they wanted even faster feedback.

### Technology Transfer

- ◆ 4DSP partnered with NASA to integrate its processing board with the agency's fiber optic technology, creating a technology that can deliver a range of data in real-time speed.
- ◆ Recognizing its broad applications, such as use in the oil industry to determine feasible sites or in the energy industry to improve wind turbine blades, NASA licensed the system to 4DSP.



### Benefits

- ◆ The company says the product delivers a 20-fold improvement in processing speeds over conventional sensor systems.
- ◆ Because of the license, 4DSP's customer base has grown four-fold, revenues for the company are up by 60 percent, and at least five jobs have been created.