

**IST 040**  
**MIMO Wireless Network System Test-bed**

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**Abstract**

The purpose of this project is to research and develop specific techniques for using new signal processing approaches employing multiple transmit and receive antennas (called MIMO approaches) in 802.11 products. Agere Systems is the leading company in the 802.11 (wireless computer networks) area and new MIMO-based products could provide a market advantage in this area in the future. Partner organizations include Agere Systems, the National Science Foundation, and the Air Force Office of Scientific Research.