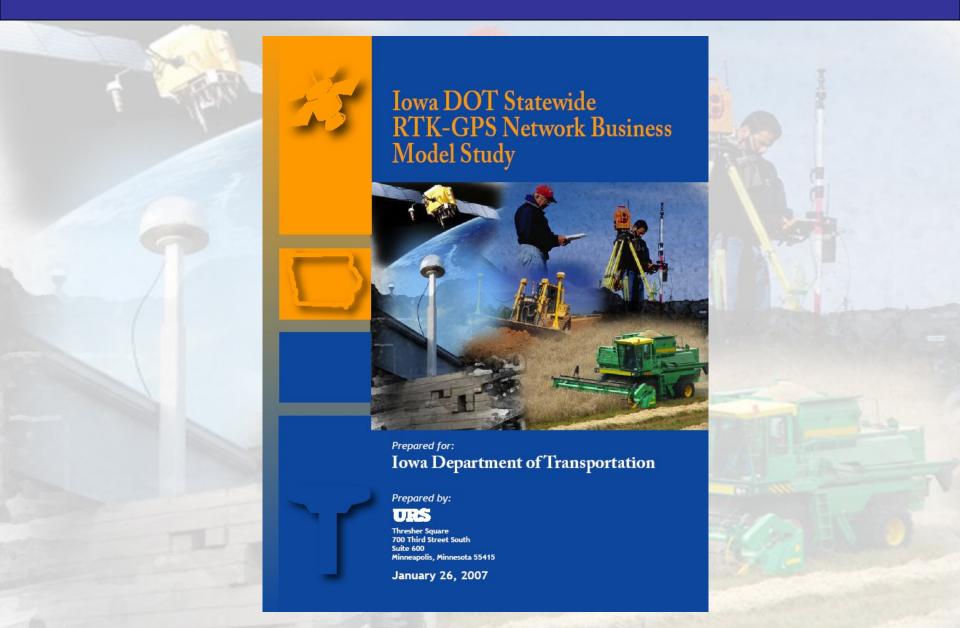


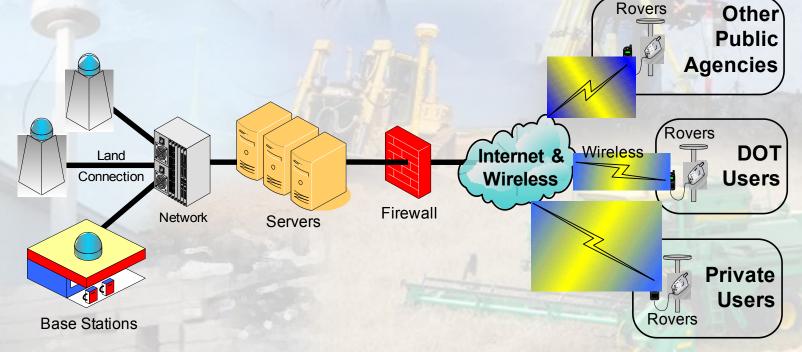
Iowa Statewide RTK-GPS Network Deployment Project

Business Model Study



RTK-GPS Components

- Base Stations
- Communication Network
- Servers
- Users



Statewide RTK-GPS Network Plans

- Proceed with the Deployment of a Statewide RTK-GPS Network Utilizing DOT-owned, Vendor-managed option.
- Project Budget Programmed for FY 2008 & 2009
- Secure Consultant Services to Assist in the Development of the RFP for the Design and Deployment of the Statewide RTK-GPS Network (URS)

Deployment Project Approach

- DOT-Owned, Vendor-Managed
- Use DOT Facilities for Base Stations
- Use DOT Communications Network
- Use DOT Central Server Facility
- Free Access to Public
 & Private Sectors

Deployment Project Features

- Statewide Coverage
- Expected Accuracy (1 cm Horiz., 2 cm Vert.)
- Open Architecture
- Available DOT Facility Sites
- Available Communications
 Infrastructure
- Use of Cellular Comms for Corrections
- Deployment Time Requirements
- Evaluation Criteria

Vendor Selection Schedule

- 1. Deployment RFP Posted
- 2. Proposals Due
- 3. Evaluation of Proposals & Selection of "Shortlisted" Vendors
- 4. "Shortlisted" Vendor B
 Demonstration &
 Final Presentation
 2007
- 5. "Shortlisted" Vendor A Demonstration & Final Presentation

August 3, 2007

September 7, 2007

September 21, 2007

October 25,

November 15,

Proposals Submitted



Evaluation Criteria

1. Vendor Qualifications	10%
2. Statement of Work	20%
3. Work Plan	25%
4. Technical Services	25%
5. Budget & Timetable	20%

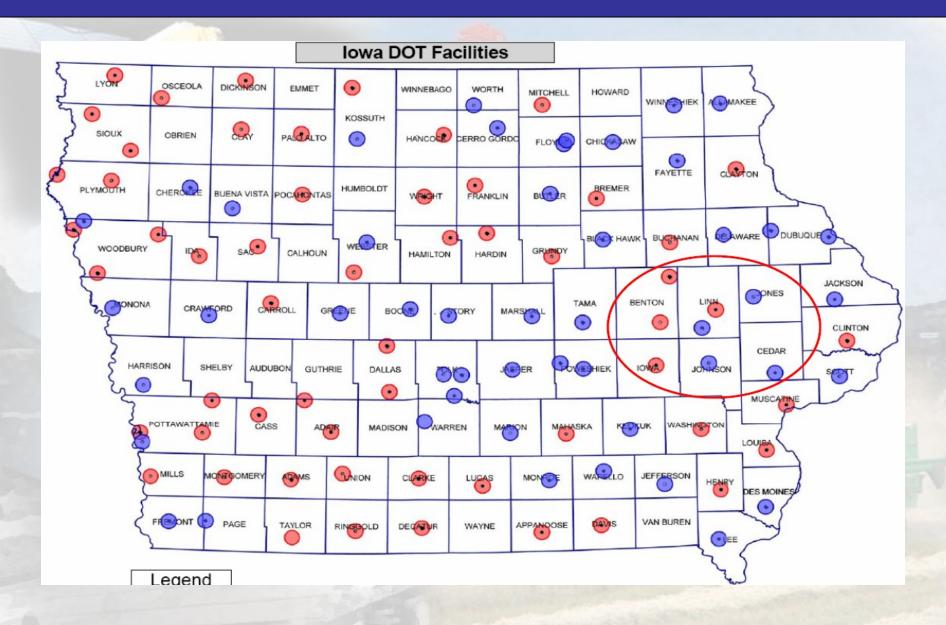
Evaluation Team

- Seven Voting Members
 - Iowa DOT Research & Technology
 - Iowa DOT Office of Design
 - 2 IA DOT Information Technology
 - Iowa DOT District Land Survey
 - County Engineer
 - FHWA Field Engineer

Evaluation Team

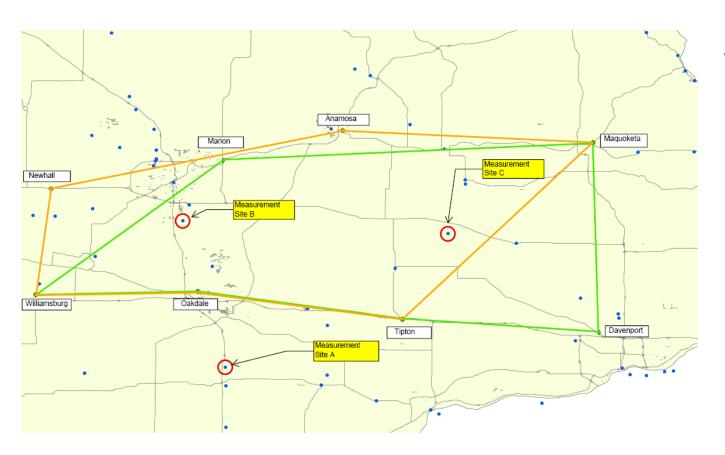
- Seven Non-Voting Members
 - Iowa DOT Research & Technology
 - 2 Iowa DOT Office of Design (Photogrammetry)
 - Iowa DOT Office of Purchasing
 - 3 URS

Demonstration Area Map



Demonstration Setup

Selected Facilities



Legend

- Trimble Selected Locations
- Leica Selected Locations
- Bench Locations

Primary Roads



Survey Measurement Teams

- 1. Iowa DOT Dist 1 Survey
- 2. Iowa DOT Dist 2 Survey
- 3. Linn County Survey
- 4. Shive-Hattery
- 5. Snyder & Associates
- 6. Snyder & Associates

NavCom

Trimble

TopCon

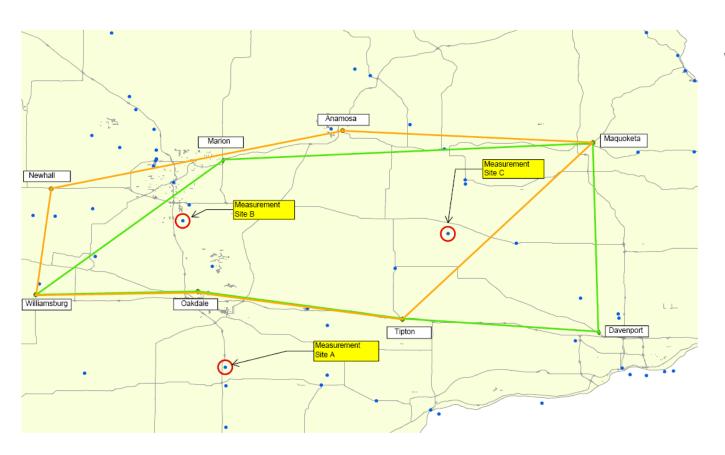
Trimble

Leica (New)

Leica (Old)

Demonstration Setup

Selected Facilities



Legend

- Trimble Selected Locations
- Leica Selected Locations
- Bench Locations

Primary Roads



Project Functional Requirements

- 1. Statewide Coverage
- 2. Accuracy (1 cm Hor.; 2 cm Vert.)
- 3. Precision (2 Sigma)
- 4. Open Architecture
 (RTCM 2.3, 3.0, 3.1, CMR, CMR+)
- 5. Base Station Redundancy
- 6. Server Redundancy

Project Schedule

December 5, 2007
Iowa DOT Issued "Intent to Award" to:

Leica Geosystems

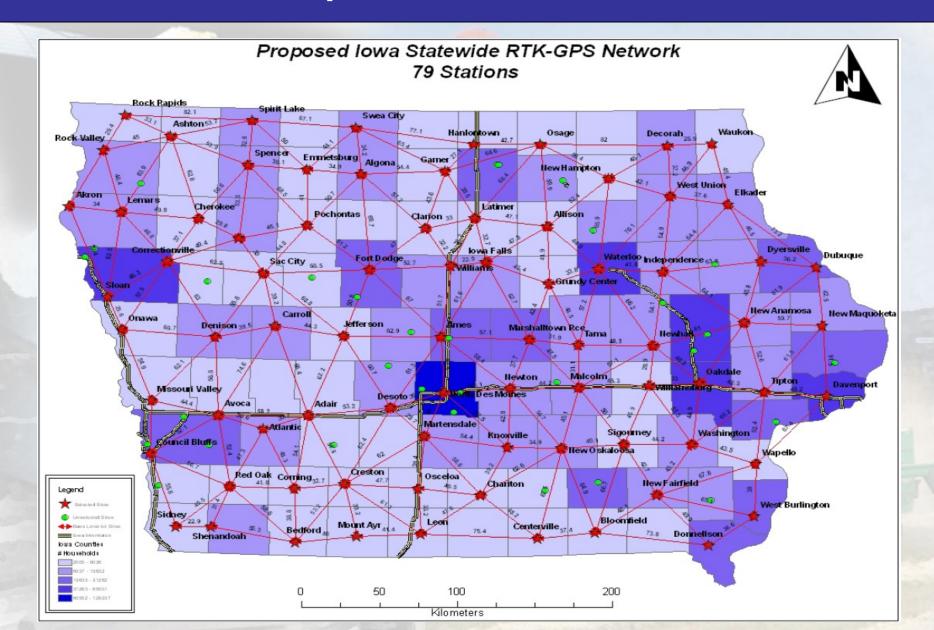
January, 2008 -

Deployment Contract Executed

August, 2008 -

Completion of Deployment Project

Leica Proposed Base Stations



Project Implementation

1. Preliminary Engineering Phase

- a. Site Visits
- b. Design & Installation Plans
- c. Acceptance Test Plans
- d. Maintenance/Administration/Support Plans

2. Network Deployment Phase

- a. Software Installation (DOT Servers)
- b. Site Installation (Base Stations & Antennae)
- c. Communications Connectivity
- d. Inspection & Acceptance Testing
- e. Administration & Support

Leica Proposed Schedule

Preliminary Engineering.Feb/Mar, 2008

Network Deployment......May-July, 2008

Acceptance Testing.....July, 2008

Contact Information

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