Web-Based Project Management Action Research for Highway Projects Under \$10 Million

Purpose

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Results

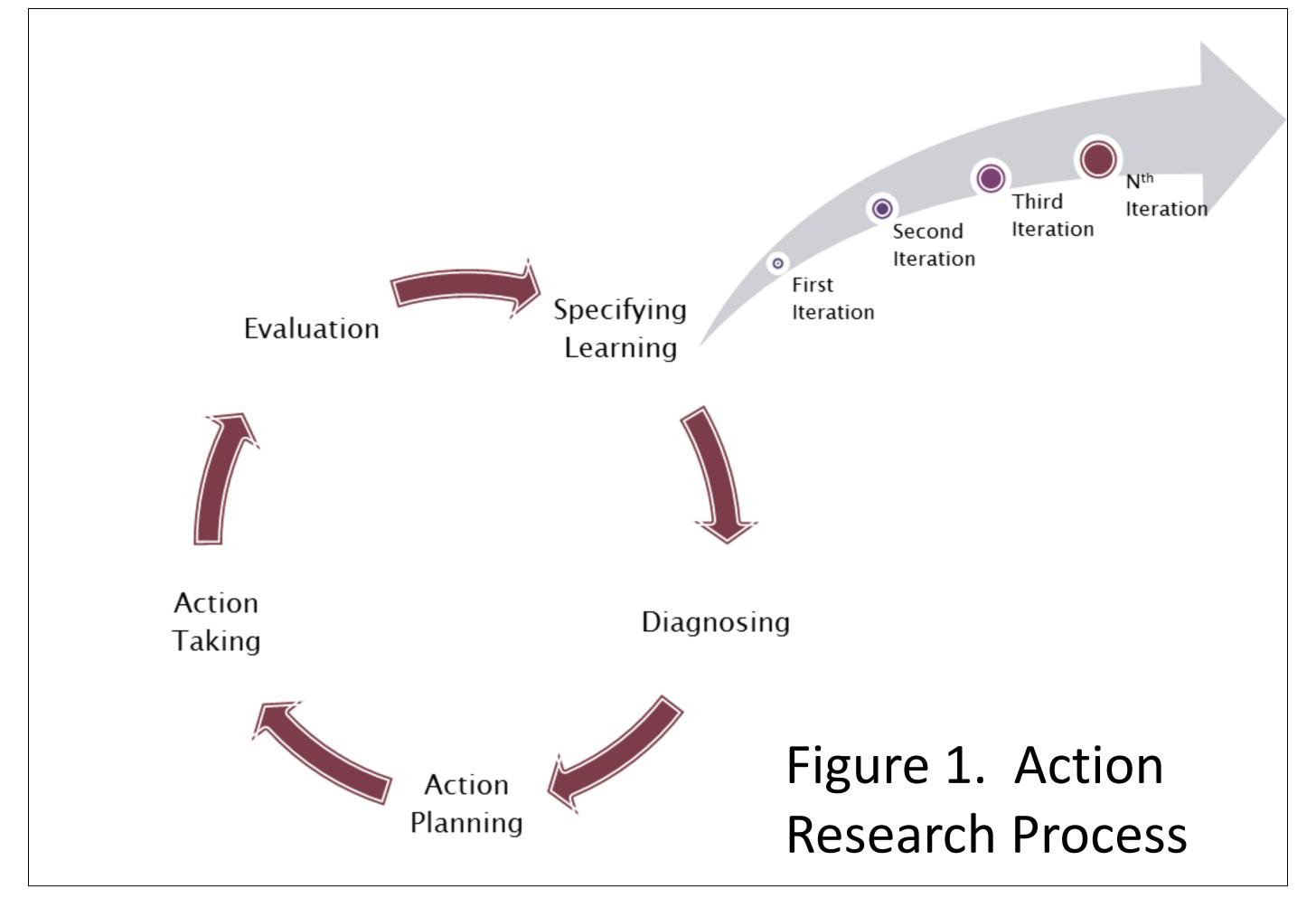
Identify a web-based project management system for the lowa DOT, specifically for the shop drawing approval process in smaller highway projects (< \$10 million).

Methodology

Action Research, an iterative approach, was used to identify a solution. See Figure 1. An iteration begins with the diagnosing step and ends with the identification of the iteration's lessons learned.

The workflow of sign truss shop drawing approval process was documented in order to identify, test, and implement a WPMS solution that met these requriements. See Figure 2.

Dr. Charles Jahren, Iowa State University After 3 action research



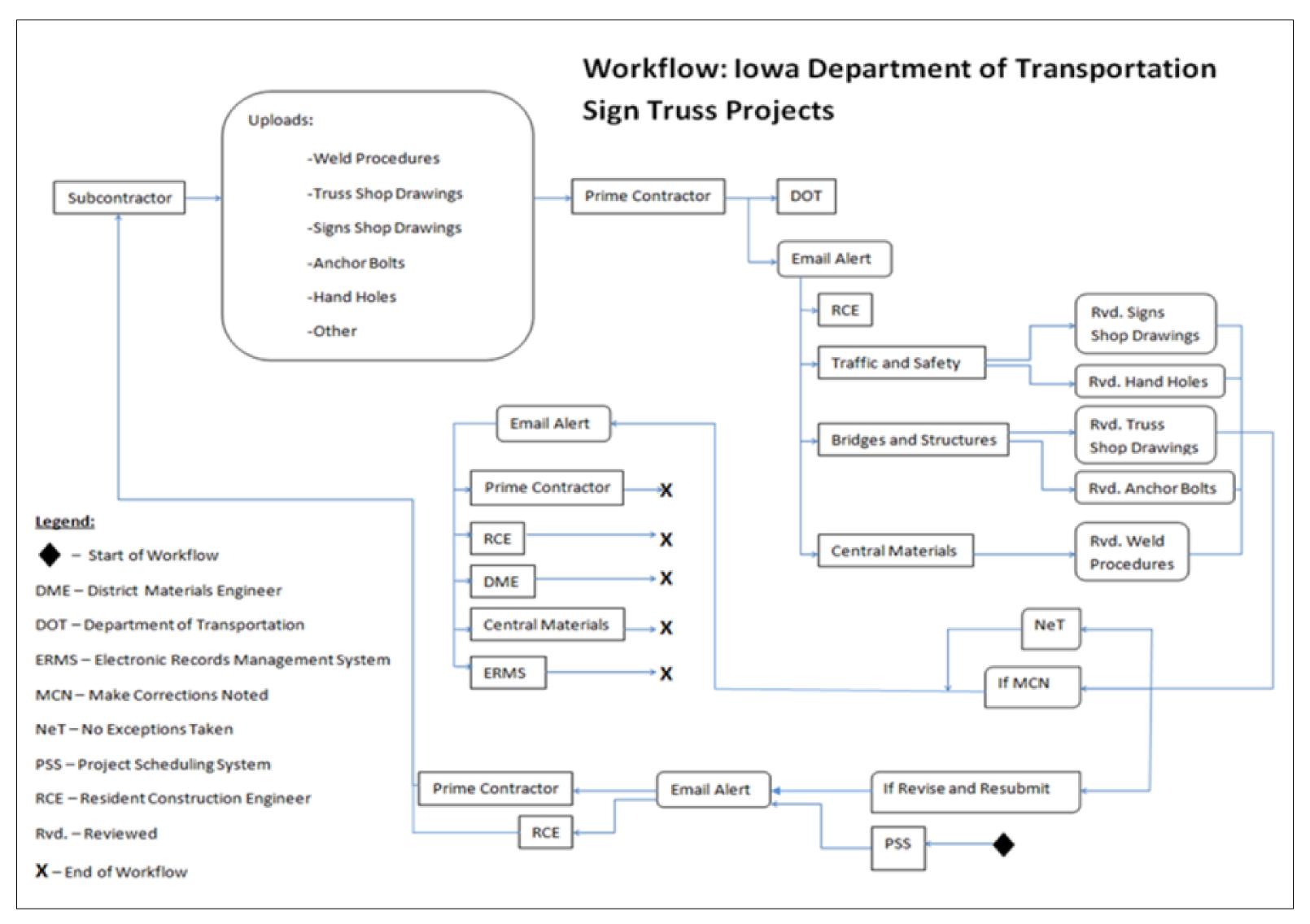


Figure 2. Workflow for Sign Truss Projects

iterations, Microsoft
SharePoint, a web-content
management system, was
selected for implementation.
SharePoint allows the
development of pages with
customized workflows and
terminology to better meet
the Iowa DOT needs and
specifications.

Lessons Learned

- -Action Research is an effective method to identify a WPMS solution available.
- -Establishing a workflow before identifying solution is helpful.
- -Identifying the roles and responsibilities of each project team member, accelerates the development and implementation process.