



Summary

Customer: Thiess Construction, a prominent engineering and services provider with \$11 billion in operations across Australia, Southeast Asia, Indonesia, India, and the United Arab Emirates.

Challenge: Collecting and sharing geospatial data between regional and project offices. Eliminating inefficient collection of map data and duplication of work.

Solution: Capturx for ArcGIS mapping software accelerates planning, constructing, decision time, and processes.

Results: Planning, design, and operational phases use Capturx software to accelerate the flow of spatial data and ideas project wide.

Capturx Software Accelerates Large Civil Projects and Increases Revenue

Established in 1933, Thiess has grown to become one of the largest construction, mining and service providers in Australia, South East Asia, and the near Pacific. Thiess currently has \$10.3 billion of work under way across the Building, Civil, Mining, Environmental services, Utilities services, Facilities operations, and Maintenance sectors. Thiess manages over 20,000 employees and sub-contractors across more than 180 projects with operations in Australia, the near Pacific, and Asia.

Challenge: Eliminating the Duplication of Work

The ability to effectively collect and disseminate field data has been a huge challenge for all projects. Project engineers, working in separate regional offices, are building preliminary project maps and environmental, traffic and management plans for large scale civil engineering projects. Regional offices have to get consistent and accurate data back to the project office where it can be assimilated swiftly to speed up decision cycles and improve development schedules. To ensure accuracy, the field engineer has to accompany a GIS analyst or drafter to work through collected data and manually enter it into the database.

Solution: Capturx for ArcGIS Desktop

Thiess has realized that virtually every aspect of its work is related to geography. Having had a long history with Survey and CAD, Thiess has recently developed GIS applications that support its core activities across all sectors: emergency response/safety, property/land management, environmental protection, community services, asset management, planning/engineering, and transportation/logistics.

Thiess has always been at the forefront with the implementation of new spatial technologies and the addition of Capturx software fits perfectly into its powerful arsenal. The Capturx product suite is a practical solution to improve data collection and project schedules in both GIS and CAD environments.

Capturx software is an instrumental tool to build-out preliminary project maps and environmental, traffic and management plans for Airport Link, Northern Busway (Windsor to Kedron) and Airport Drive Connection projects. These three projects for Australia's regional transportation plan form one of Australia's largest road and bus-way networks.

Employment of more than 10,000 people will be arranged for the design, construction, and delivery of this integrated transport solution. Over 1 million new plants and 5,400 new trees will be planted within the corridor. A total of 2.8 million cubic meters of refuse material will be removed by excavation.



Results: Updated Data Available Faster & More Accurate

"Capturx is the perfect solution for Thiess," said Jason Clark, GIS Manager with Thiess, "during the planning and design phase, the digital pen accelerates the flow of spatial data and ideas project wide." During the operational phase the digital pen will aid in the preparation of maps and plans, often numbering in the thousands over the duration of a project. Thiess also looks forward to using the digital pen for the preparation of as-built plans. Capturx will also streamline the redline markup process and will automate the recording of site instructions (SI) and design construction notes (DCN). Capturx has the potential to save Thiess significant amounts of money and man hours, as well as, contribute to their smart spatial technology currently saving projects millions of dollars. As a result of implementing Capturx, there has been a rush in demand from various project teams for the Capturx digital pen.

Capturx software is syncing up teams by allowing for digitized data to be instantly shared across multiple offices. Project engineers stay focused on their job by collecting up-to-date operation, design, and planning data on maps with the simple action of using digital pen and paper. Duplication of work is avoided because data is uploaded directly from digital pen to database.

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With the addition of Capturx software, Thiess can accelerate their planning, constructing, decision time, and processes. Capturx is an investment which pays for itself, word has spread fast, and the vast staff of Thiess has already caught on to its benefits. Large scale projects mean an even larger field force, constantly changing catalog of priorities, and innumerable particulars to manage. With Capturx software data is available faster and is more accurate than before, data can be updated in the geodatabase and then shared in real time. The simplicity of pen and paper allows the field worker to do what they do best, their job.

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JASON CLARK
GIS Manager
Thiess Construction