**County Automated Terrestrial CAD Helper**

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**Introduction**

The parcel fabric is a layer developed by Esri for use in their GIS products that help maintain land records for local government entities across the world. Typically the county or city surveyor is in charge of maintaining and checking land divisions for their respective municipalities which are submitted for approval and recordation. These physical records come in the form of linens, mylar, and paper. Most local government agencies have moved toward scanning their records and making them available digitally in the form of GIS web maps or web mapping applications. Some agencies have taken this one step further by accepting computer aided design (CAD) data to be used in their respective GIS systems. Being able to bring these highly accurate CAD files into the parcel fabric improves the accuracy of the land records system.

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**Problem**

- Takes Too Long
- Duplication
- Base Parcel Layer is Inaccurate
- Many Files Cannot be Used
- Files Submitted in Local Coordinates

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**Results**

The automation tool created for this project helped the Riverside County Surveyor, Mr. Rick Lantis achieve the goal of less review time for digital submissions, a higher level of consistency of the parcel data, and the ability to load data into the parcel fabric. Automating the process, saved staff time, and helped facilitate the use of GIS technology in the County of Riverside.

**Boundary Topology Report**

The topology errors that were intentionally placed into the CAD data sets were caught by the tool from one of the seven listed topology rules. This confirmed that the tool was catching the errors, and preparing the data for loading into the parcel fabric.

**Layer Report**

**Lot Topology Report**

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**Workflow**

The applicant submits their digital submission and the request is processed by CATCH. The application automatically checks the digital subdivision and sends back the results via e-mail to the applicant.

**Goal**

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**Summary**

- Automatically checks and reporting process.
- Sends results to applicant via e-mail.
- Verifies if data pass all checks.
- Prepares parcel data for parcel fabric.