

# Case Study

## Pixxures, Inc. and The Town of Litchfield, CT

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### Overview:

The Town of Litchfield is approximately 57.3 square miles and is centrally located in the Northwest hills of Connecticut. Predominantly rural, the town is faced with development pressure due to the increasing growth of New York's metropolitan area. Volunteers in the Assessors Office created the town's first parcel map. It provides them with information about land use/activity and impact between the 4,200 parcels.

### Challenge:

In 2004, aerial imagery was acquired through a collaborative effort between Connecticut Departments of Transportation, Environmental Protection and Public Safety and the Federal Highway Administration.

Once the parcel data layer was draped over the imagery, it quickly became apparent that the parcel layer had severe distortions and misalignment issues. In some cases, the misalignment and distortions were so bad that many of the buildings in the imagery resided in the wrong parcel.

Before contacting Pixxures, two other off-the-shelf software applications were utilized; however, they did not provide the Assessors Office with the results they were looking for. Some volunteers in the Assessors office heard about LineWorks®, Pixxures' vector



**Unaligned Parcels**

alignment solution and contacted Pixxures for an online demonstration.

### Solution:

Pixxures provided the Assessors office with a 30-day evaluation copy of LineWorks and a training manual with step-by-step instructions on how to use the software. After working with the evaluation copy, the GIS volunteers were convinced that LineWorks might be their solution for addressing the inconsistencies with Litchfield's parcel map. Pixxures estimates that a user should be able to complete an alignment of 5,551 parcels (approximately 512 links) in approximately 6 hours, once he/she has completed the LineWorks training.



**Aligned Parcels**

Due to the number of inconsistencies in the parcel map and the limited amount of time the volunteers had to utilize LineWorks, they decided that their primary objective would be to ensure that all the buildings in the aerial maps, resided in the correct parcels.

The Assessors' office was able to utilize LineWorks to conflate the parcel map and bring it into compliance with their aerial data. "It is apparent that the parcel map has been vastly improved so that now, for instance, our town hall is not in the parcel next door!" said Harold Ducey, the town's Assessor. "The building positions are now correct, which was the objective. I have already used the conflated map to solve a problem I had, which was most gratifying."

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