



WHITE PAPER — PROPERTY ASSESSMENT MODERNIZATION

Clark County **Property Assessment Modernization**

Transforming legacy property records into a validated, imagery-verified digital property database — delivering greater accuracy, efficiency, and confidence for one of the largest property modernization initiatives.

 ~800,000 SKETCHES DIGITIZED ~98% ACCURACY **SyGIS** VERIFIED

CLARK COUNTY, NV

CLIENT

Clark County

CORE TECHNOLOGY

SyGIS · Proprietary Software

PREPARED BY

SYSH Innovations

EXECUTIVE SUMMARY

Turning 800,000 paper records into a trusted digital asset

Clark County initiated a large-scale property assessment modernization program to transform approximately 800,000 paper building sketches into a fully digital property database. The objective was not only to digitize legacy records, but also to validate every property against recent aerial imagery and update records to accurately reflect existing site conditions.

SYSH Innovations was selected to support the complete lifecycle of the project, including paper-to-digital conversion, imagery-based verification, discrepancy reporting, and sketch correction. The project was successfully delivered with approximately **98% accuracy**, while maintaining demanding delivery schedules and stringent quality standards.

98%

Production accuracy achieved across the full **800,000-record** conversion and verification program — delivered on schedule and under rigorous quality-assurance controls.

BUSINESS CHALLENGE

A legacy paper archive standing between the County and accurate taxation data

The County maintained hundreds of thousands of legacy paper sketches, many of which were damaged, incomplete, or difficult to interpret. Each sketch contained detailed building geometry, area classifications, and property measurements that directly influenced property taxation.



Data & Scale Challenges

- ◆ Converting approximately 800,000 paper sketches into digital format.
- ◆ Preserving complex building geometry and area codes.
- ◆ Achieving near-perfect measurement accuracy.



Verification Challenges

- ◆ Validating every property against recent aerial imagery.
- ◆ Identifying property changes accumulated over many years.
- ◆ Minimizing manual quality assurance effort for County staff.

THE SYSH SOLUTION

A technology-assisted production workflow, built for scale

SYSH developed a comprehensive technology-assisted production workflow that combined proprietary software, automated validation, and experienced geospatial specialists.



Following digitization, every property was verified against current aerial imagery using **SyGIS**, SYSH's proprietary ArcGIS plug-in for geospatial verification and metadata generation.

TECHNICAL APPROACH

Built to fit the County's environment — not replace it

Rather than modifying the client's production software, SYSH developed a **C++ plug-in** that seamlessly integrated into the existing sketching environment.

The Plug-in Provided

- ✓ Intelligent sketch guidance.
- ✓ Real-time validation.
- ✓ Automated quality checks.

Also Enabled

- ✓ Production workflow optimization.
- ✓ Quality assurance automation.

SyGIS was subsequently used to perform imagery-based verification, identify discrepancies, and support sketch corrections through an efficient, GIS-driven workflow.

PROJECT RESULTS

Significant operational value, delivered on schedule

~800,000

Paper sketches digitized

~163,000

Building sketches corrected following imagery verification

20%+

Of properties identified with measurable changes

~98%

Production accuracy achieved

Delivered on schedule, with comprehensive quality assurance applied throughout production.

BUSINESS VALUE

What Clark County gained

OUTCOME	IMPACT
 Accurate digital records	A reliable, fully digital property database validated against current site conditions.
 Reduced field effort	Lower future field-verification burden through imagery-based validation.
 Improved data confidence	Higher confidence in assessment data across the property portfolio.
 Stronger tax data quality	Higher-quality information supporting property taxation decisions.
 Scalable workflow	A repeatable model ready for future modernization projects.
 Long-term efficiency	Ongoing operational savings through software-assisted production.

CONCLUSION

A proven model for large-scale digitization

The Clark County project demonstrates SYSH Innovations' capability to successfully deliver complex, large-scale government digitization and geospatial modernization initiatives.

By combining proprietary software, GIS expertise, workflow automation, and rigorous quality assurance, SYSH transformed a challenging legacy dataset into a reliable digital asset that continues to support accurate property assessment and decision-making.

"A challenging legacy dataset, transformed into a reliable digital asset — supporting accurate property assessment and decision-making for years to come."

PROVEN SCALE

800,000 sketches digitized and 163,000 corrected without compromising delivery timelines.

VERIFIED QUALITY

98% production accuracy through multi-stage automated and human review.

REPEATABLE MODEL

A scalable workflow ready to support future County modernization initiatives.

Let's discuss your modernization program

SYSH Innovations · Local Government & GIS Solutions

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