

CAPABILITY BRIEF

Specialized Engineering & GIS Teams

Our specialized engineering and GIS teams bring together software development, geospatial technology, property assessment expertise, and large-scale production experience. Rather than treating software and production as separate disciplines, we develop technology around the real operational challenges encountered by our teams — creating purpose-built solutions that improve productivity, simplify complex workflows, and strengthen quality control.

PRODUCT & SOFTWARE ENGINEERING

**draftEzy**

Mobile Property Sketching

One of our earliest specialized products, developed in cross-platform C++ for rapid on-site floor-plan creation. Designed to work with Bluetooth-connected laser measurement devices, it allows measurements and drawing functions to be controlled directly from the meter while the technician works with a mobile device. Its flexible drawing approach converts connected lines and curves into defined areas with a single action, enabling efficient field sketching without a rigid drawing sequence.

**SyGIS**

Property Assessment GIS Platform

An ArcGIS-based productivity platform developed specifically for large-scale property assessment and sketch-verification programs. It has supported building-layer creation and workflows associated with 15 million+ property sketches, providing rapid parcel navigation, configurable data collection, county-specific match/mismatch scoring, custom searches, selected-field display, QC notes, and one-click access to street-level imagery when additional visual verification is required.

INTELLIGENT SKETCHING & QUALITY CONTROL

Our internal sketching plug-ins and workflow applications provide technicians with real-time assistance while sketches are being created or modified. The technology checks elements such as area codes, approximate total areas, workflow requirements, and other project-specific rules before allowing a sketch to progress, while approvals and validation results are recorded within the production database.

Completed sketches can subsequently pass through automated quality-control processes, where they are systematically loaded and validated against defined sketching guidelines. Records satisfying the required criteria can progress through QC, while exceptions are directed for further review. Similar technology-assisted processes have been developed for sketch correction using measurable imagery, reducing the amount of repetitive manual verification required on very large projects.

GIS & LARGE-SCALE DELIVERY

Our Sri Lanka GIS operation has demonstrated the ability to scale specialized property-assessment workflows into substantial production programs. At peak project operations, the team included 36 GIS professionals, supported by a Project Manager, Delivery Manager, QC Head, and five Team Leads, providing a structured production and quality-management environment.

These teams have delivered more than 8 million sketch verifications, working within a broader portfolio involving 15 million+ property sketches. Their experience spans imagery-based verification, parcel analysis, discrepancy identification, data collection, sketch-related GIS workflows, and structured quality assurance — combining specialized domain knowledge with the productivity technology developed by our engineering teams.

36

GIS professionals at peak project operations

8M+

Sketch verifications delivered

15M+

Property sketches across the broader portfolio

FINANCIAL MARKET TECHNOLOGY RESEARCH

Our engineering work also extends into financial-market analytics, where we have undertaken long-term research into large-scale market data processing, proprietary analytical models, and AI-assisted market intelligence. This remains a specialized research and development initiative, applying our experience in high-volume data processing and software engineering to complex financial-market datasets.

DIGITAL FORMS & DATA COLLECTION

An earlier R&D initiative developed in 2014 explored configurable digital forms and structured data collection, allowing users to design forms, capture field information into databases, and subsequently analyze the collected data through associated software tools. Although the project was shelved before commercialization, it contributed to our experience in configurable workflows, structured data capture, and database-driven applications.

“Our engineering philosophy is practical: build technology around the people doing the work, automate what can be reliably automated, and use human expertise where judgement matters most.”

+ Where This Expertise Shows Up

Mobile Field Sketching

ArcGIS-Based Platforms

Quality-Control Automation

Large-Scale GIS Delivery

Imagery-Based Verification

Financial Market Data Research

Configurable Digital Forms