Automating Measurement Extraction From Deeds

Christine Leslie, Tim Hodson (USA) and Amir Bar-Maor (Netherlands)

SUMMARY

The modernization of cadastral systems is increasingly shaped by demand-driven business requirements and rapidly evolving technological trends. Key business needs include system accessibility across various platforms, robust data quality management adhering to organizational business rules, 3D data representation, and high levels of performance and scalability. Emerging technologies, particularly advancements in artificial intelligence (AI), are accelerating the demand for highly efficient and adaptable cadastral systems.

Moreover, there is a growing emphasis on leveraging configurable, out-of-the-box software solutions to simplify system implementation and maintenance. Modern cadastral platforms must evolve in step with technological advancements while minimizing reliance on specialized developers and complex, customized upgrades.

This paper examines the Parcel Fabric in ArcGIS as a case study of a platform that effectively addresses these demands, illustrating how it meets the diverse needs of various cadastral systems while aligning with contemporary technological trends.

Automating Measurement Extraction From Deeds (13540)
Christine Leslie, Tim Hodson (USA) and Amir Bar-Maor (Netherlands)

FIG Working Week 2025
Collaboration, Innovation and Resilience: Championing a Digital Generation
Brisbane, Australia, 6–10 April 2025