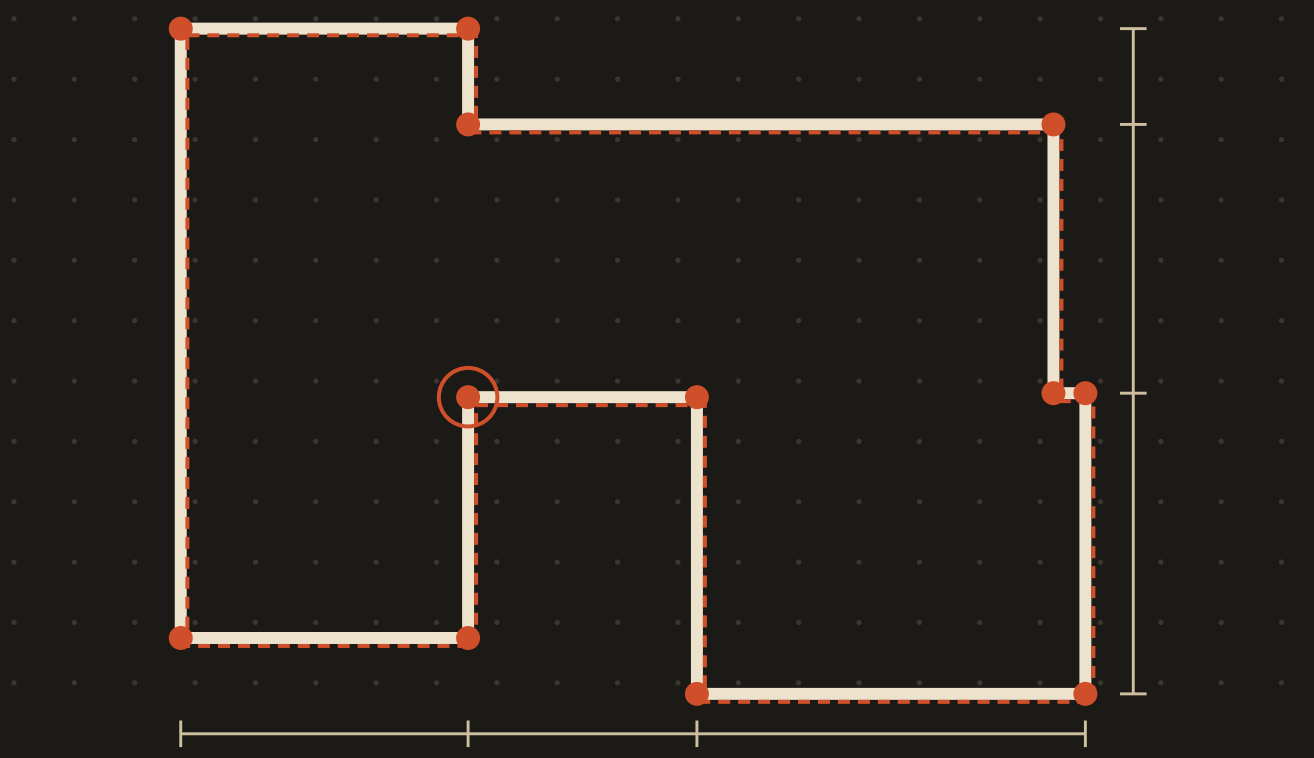


PROPERTY DIGITIZATION, VERIFICATION & INTELLIGENT SKETCH EDITING

For Government Authorities, Property Assessment Organizations and Enterprise Property-Data Teams

A collaborative service model combining specialist production teams, government property-data integration, web-based sketch workflows and imagery-assisted verification.

From legacy property records to accurate, reviewable and continuously improvable building information.

01

EXECUTIVE OVERVIEW

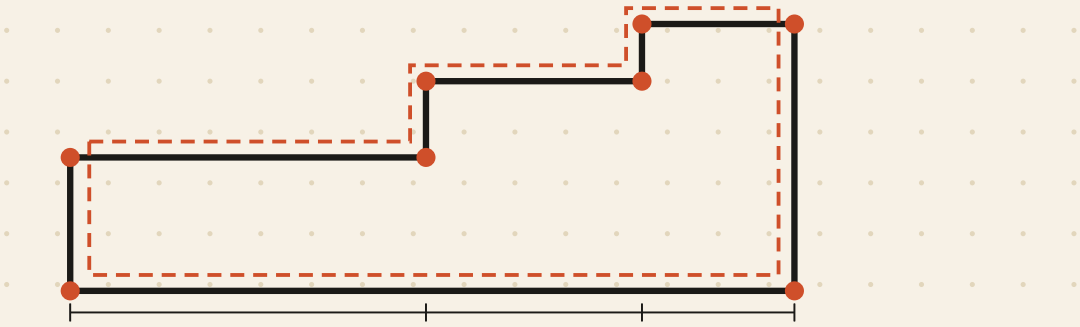
Property records often contain years of accumulated paper sketches, inconsistent digital drawings and building measurements that no longer reflect current conditions. Modernizing these records requires more than converting paper into digital files. It requires a coordinated process for digitization, verification, correction and integration with government property databases.

Bervane FZE proposes a collaborative delivery model in which specialist partner teams carry out agreed production activities under Bervane's project coordination, supervision and quality oversight.

Pi Sketch is being developed as a web-based sketching and editing platform to support these workflows, including future real-time editing of building sketches alongside measurable three-dimensional imagery.

> *The objective is to provide government authorities and property-data organizations with accurate, structured and usable property information that can support assessment, valuation, verification and continuing database maintenance.*

The proposed services can be tailored to individual government authorities, property assessment organizations and enterprise clients.



02

PROPERTY DIGITIZATION & VERIFICATION

Bervane's proposed service model covers the complete lifecycle of property-sketch modernization.

1

DIGITIZATION

Convert legacy paper sketches, existing digital drawings and associated property records into structured digital information.

2

VERIFICATION

Compare building sketches with available imagery and property records to identify discrepancies in geometry, measurements and building information.

3

REVIEW & CORRECTION

Route identified discrepancies through agreed review procedures and update sketches using authorized editing workflows.

4

QUALITY ASSURANCE

Apply defined verification procedures, sampling, consistency checks and reporting to support dependable deliverables.

5

DATA DELIVERY

Prepare structured digital records and associated information for integration into client property-management and assessment systems.

The approach supports both large-scale property-record modernization and ongoing verification and correction programs.

03

GOVERNMENT PROPERTY DATABASE INTEGRATION

A central objective of Bervane's proposed service offering is to connect property sketching and verification workflows with existing government property information.

BRINGING GOVERNMENT DATABASE DETAILS INTO VALUATION AND VERIFICATION

Relevant property information from government databases can be incorporated into authorized valuation and verification workflows.

Depending on available records and system access, this may include parcel identification, property characteristics, building information, existing assessment details and other relevant attributes.

Combining these records with building sketches and imagery-assisted review can help identify inconsistencies and provide a more complete basis for property-data evaluation.

CUSTOMIZED DATABASE DELIVERY FOR GOVERNMENT PROPERTY DATASETS

Bervane can coordinate the preparation of customized datasets designed to support updates to government property databases.

Data structures, field mappings, validation rules and delivery formats would be developed according to the receiving authority's requirements.

This approach is intended to reduce manual data preparation and support more consistent updates to official property records.

> *All database access, data exchange and final record updates remain subject to the authority's permissions, security requirements and approval procedures.*

04

PI SKETCH — THE EMERGING WEB EDITING PLATFORM

Pi Sketch is a Bervane software product under active development, created with extensive involvement from ChatGPT and OpenAI Codex in software engineering, testing and workflow refinement.

The platform combines established property-sketching knowledge with modern web technology and AI-assisted development.

ONE SKETCH. ALL DEVICES.

Pi Sketch is being developed to provide a consistent sketching experience across desktop computers, tablets and mobile devices.

EASY EDIT IN PLACE.

Users can select and modify drawing elements directly, helping reduce unnecessary reconstruction of existing sketches.

DRAW ANY WAY YOU WANT.

Users can begin drawing in one location, continue elsewhere and define building areas later.

WORKING WITH EXISTING SKETCHING SYSTEMS

Government authorities and enterprise clients may already use established third-party sketching products.

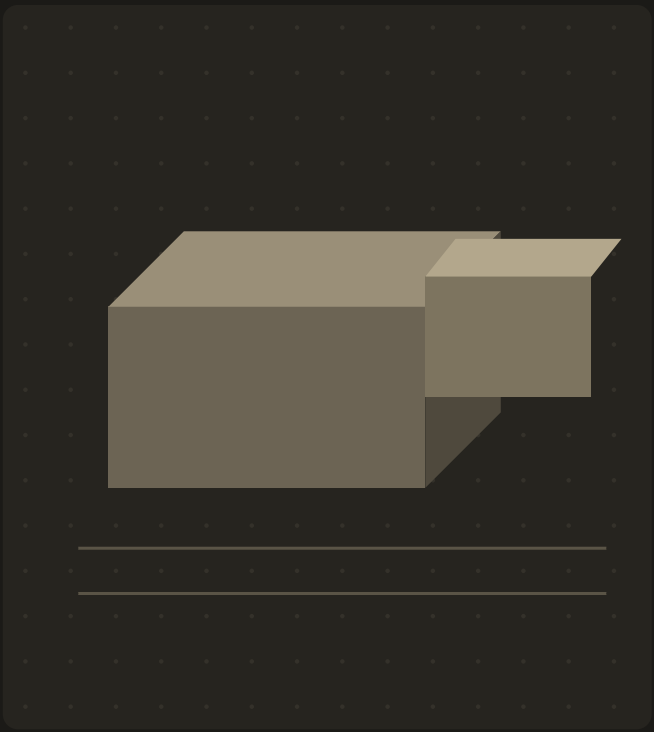
Bervane's proposed service model can accommodate workflows involving these systems where suitable interfaces, permissions and data exchange capabilities are available.

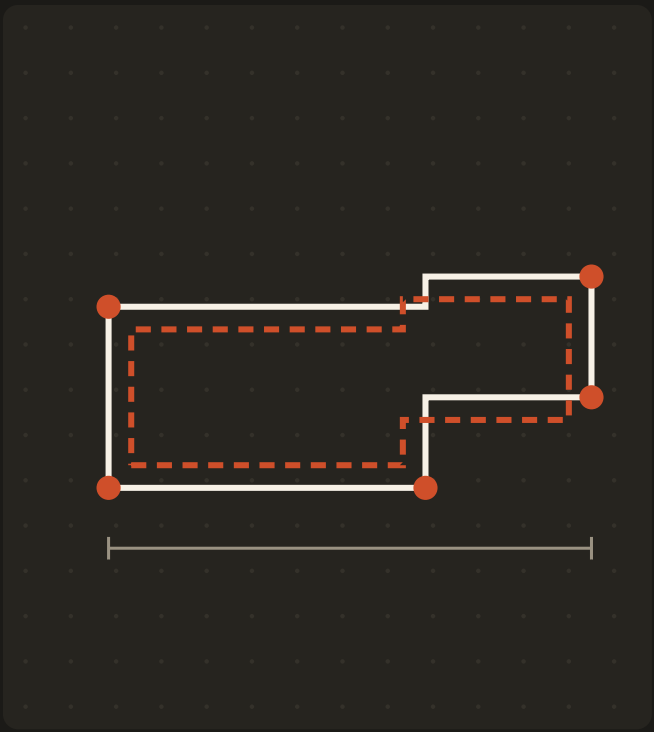
Pi Sketch is intended to complement and progressively enhance these environments rather than require immediate replacement of existing systems.

05

IMAGERY BESIDE THE SKETCH — FUTURE BUSINESS WORKFLOW

An important development direction is real-time, browser-based sketch editing alongside licensed, measurable three-dimensional imagery.





This would allow authorized reviewers to examine building imagery and corresponding sketches together, identify differences and apply approved corrections within a coordinated working environment.

The objective is to bring imagery-based verification and sketch correction closer together, improving workflow efficiency and supporting more consistent building records.

> *This capability remains a planned integration direction, subject to development, imagery licensing and technical validation.*

06

AI-ASSISTED DEVELOPMENT & CONTINUOUS INNOVATION

Artificial intelligence plays a central role in the creation and continuing development of Pi Sketch.

ChatGPT and OpenAI Codex have been extensively involved in analyzing existing technology, implementing new capabilities, testing software and refining user workflows.

Bervane intends to continue applying AI-assisted development to improve processes as technology, industry requirements and customer expectations evolve.

The objective is to combine practical engineering experience with modern AI capabilities to develop more accessible, efficient and adaptable software solutions.

> *AI-assisted development describes the product engineering process and does not imply that all current sketching or verification activities are performed autonomously by AI.*

COLLABORATIVE SERVICE DELIVERY UNDER BERVANE OVERSIGHT

Bervane proposes a coordinated service model combining its technology direction and project oversight with the specialized capabilities of independent service partners.

BERVANE COORDINATION

Bervane acts as the client-facing coordination point, supporting project planning, workflow definition, quality supervision, reporting and delivery management within the agreed scope.

SPECIALIST DELIVERY PARTNERS

Selected independent partners may provide digitization, GIS processing, imagery review, data verification, correction and other assigned technical services.

CLIENT AND GOVERNMENT AUTHORITY

The client provides applicable source records, system requirements, review policies and final acceptance decisions.

> *Responsibilities, data access, delivery arrangements and supervision will be defined through project-specific agreements.*

07

PROJECT DELIVERY APPROACH

ASSESSMENT & PILOT

Begin with a representative sample of property records to evaluate data quality, imagery availability, processing requirements and verification procedures.

Agree measurable quality standards, exception categories, data delivery requirements and acceptance criteria.

CONTROLLED PRODUCTION

Expand into organized production batches with progress reporting, sampling and discrepancy management.

Coordinate specialist production activities through defined quality checkpoints and review procedures.

CLIENT REVIEW & APPROVAL

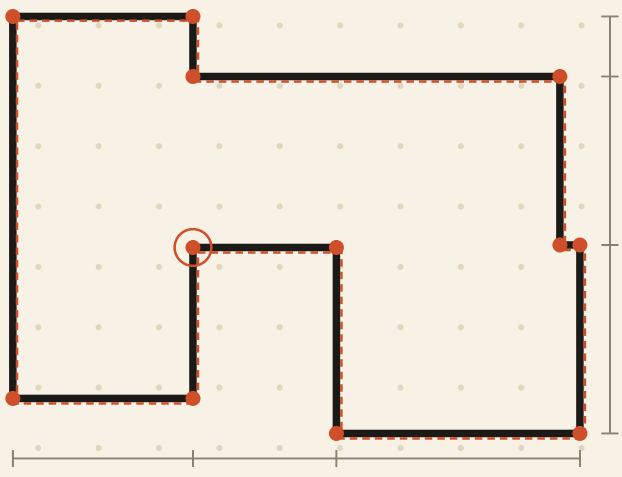
Submit discrepancies and proposed corrections for review according to the client's business rules and authorization requirements.

CUSTOMIZED DATA HANDOVER

Deliver approved digital sketches, verification results, quality reports and customized datasets prepared for the client's property information systems.

CONTINUOUS IMPROVEMENT

Review production performance and evolving client requirements to identify opportunities for workflow improvements and additional technology integration.



08

BENEFITS FOR GOVERNMENT AND PROPERTY-DATA ORGANIZATIONS

01
IMPROVED PROPERTY INFORMATION

Structured digital sketches and associated records provide a more consistent foundation for property-data management.

02
BETTER VALUATION & VERIFICATION SUPPORT

Combining government database information with sketches and imagery can support more informed review and discrepancy identification.

03
CUSTOMIZED DATABASE UPDATES

Client-specific data delivery formats can simplify the preparation of approved updates to government property datasets.

04
FOCUSED QUALITY CONTROL

Defined verification procedures and exception reporting help direct specialist attention toward records requiring review.

05
FLEXIBLE TECHNOLOGY INTEGRATION

The service model can accommodate existing property systems, third-party sketching products and emerging Pi Sketch capabilities.

06
LONG-TERM MAINTAINABILITY

Modernized property records can support continuing updates rather than remaining a one-time digitization exercise.

ENGAGEMENT OPTIONS

PROPERTY DATA ASSESSMENT & PILOT
Evaluation of existing records, data quality, verification requirements and project feasibility.

PROPERTY DIGITIZATION & VERIFICATION
Conversion, imagery-assisted comparison, discrepancy reporting and structured review.

SKETCH CORRECTION & QUALITY ASSURANCE
Authorized drawing updates, validation and documented quality checks.

GOVERNMENT DATABASE INTEGRATION
Preparation of customized property datasets and approved data exchange workflows.

TECHNOLOGY & WORKFLOW COLLABORATION
Evaluation of web-based sketch editing, imagery integration and process improvements.

09

PARTNER CAPABILITIES

SYNNAMON TECHNOLOGIES FZC

Property Sketching, Digitization & Imagery-Based Verification

Synnamon Technologies FZC brings extensive knowledge and experience in property sketching, digitization, imagery-based verification and building sketch correction. The company is interested in collaborating with Bervane FZE to undertake large-scale property sketching, digitization and verification programs for government authorities, assessment organizations and commercial clients.

Through its established professional experience and associated technical teams, Synnamon brings expertise in converting legacy property sketches into accurate digital records and verifying building information against aerial imagery.

The teams associated with Synnamon have digitized more than **1 million** property sketches, verified building records using aerial imagery and corrected more than **250,000** sketches using measurable three-dimensional imagery. This experience provides a strong foundation for undertaking property-data modernization programs involving large volumes of building records.

Synnamon's capabilities extend beyond digitization to identifying discrepancies between existing property sketches and actual building conditions. These include building additions, modifications, demolished structures, footprint differences and other changes identified through imagery-based verification.

Following client review and approval, the identified discrepancies can be corrected using measurable imagery and specialized sketching tools. Structured quality-control procedures help maintain consistency and accuracy throughout the process.

Synnamon also has experience in GIS-related data processing, property assessment information and preparing structured datasets for integration with government property databases and existing assessment systems.

10

PARTNERSHIP WITH BERVANE

Synnamon is interested in working with Bervane to combine its property-data production experience with Bervane's emerging Pi Sketch technology and web-based sketch editing capabilities.

The proposed collaboration would support digitization, verification, sketch modification and customized property-data delivery, with Bervane coordinating client requirements, project supervision and quality reporting under agreed arrangements.

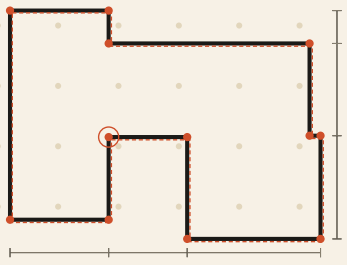
As Pi Sketch evolves, the collaboration may also support real-time sketch editing alongside measurable three-dimensional imagery, creating opportunities for more efficient property verification and correction workflows.

> *Together, Synnamon's established production knowledge and Bervane's technology-driven approach offer a practical foundation for delivering property-data modernization services to government authorities and commercial organizations.*

SYNNAMON TECHNOLOGIES FZC

https://synnamontechnologiesfzc.com/

Proposed collaboration and project responsibilities are subject to mutual agreement. Synnamon and Bervane remain independent legal entities.



A FORWARD-LOOKING PARTNERSHIP

Bervane's proposed approach brings together specialist service delivery, coordinated project oversight, government property-data integration and emerging sketch-editing technology.

By connecting digitization, verification, valuation support, sketch correction and customized database delivery, the objective is to help clients maintain more accurate and useful property information.

As Pi Sketch continues to evolve, Bervane intends to introduce additional capabilities that make property-data workflows more efficient, accessible and adaptable to changing requirements.

Let us discuss a pilot program tailored to your property records, verification objectives and database requirements.

BERVANE FZE

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Sharjah, United Arab Emirates

Website: https://bervane.com/

FOCUS ON WHAT MATTERS

This solution brief describes proposed services and technology directions. Service availability, imagery integration, data access, partner arrangements, quality commitments and contractual supervision are subject to separate agreements.