

Studio Mapper:

An Underground Mapping Solution

Solomon Gumbie
Geology Consultant
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Talking Points

- Datamine Product Range
- Introduction
- Workflow Demonstration
- Client Implementations
- Practical Example
- Future Development
- Q & A Session



DATAMINE PRODUCT RANGE



EXPLORATION

GIS	MAPINFO DISCOVER
GEOPHYSICS	DISCOVER PA
MODELLING	STUDIO EM

RESOURCES & RESERVES

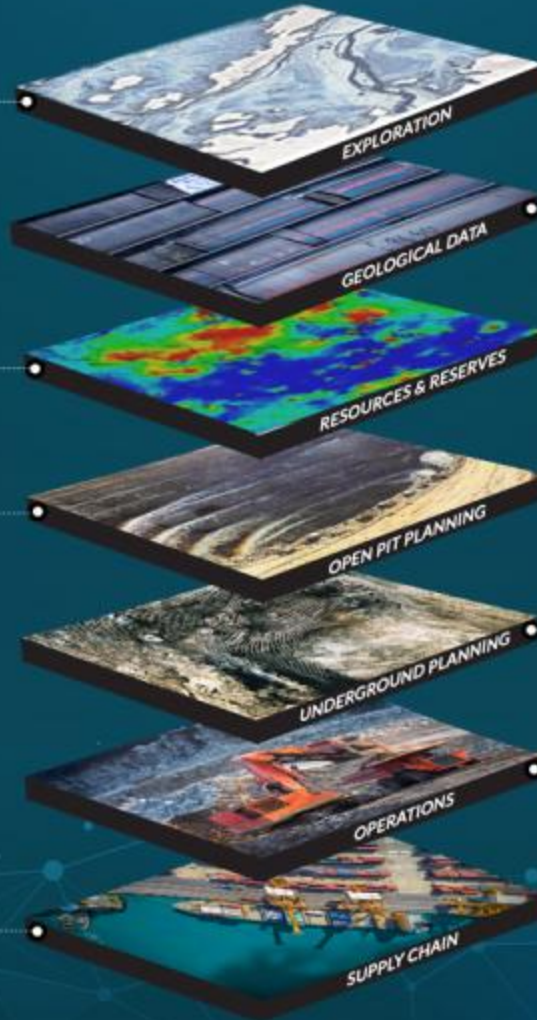
MODELLING & EVALUATION	STUDIO RM / STUDIO RM PRO
ENHANCED ESTIMATION	SNOWDEN SUPERVISOR
STRATIGRAPHIC DEPOSITS - MINERALS	ENHANCED GEOSTATS
STRATIGRAPHIC DEPOSITS - COAL	STRAT3D
PRODUCTION GEOLOGY	MINESCAPE
	ORE CONTROLLER

OPEN PIT

STRATEGIC OPTIMISATION	STUDIO NPVS
DESIGN & SCHEDULING - MINERALS	MINEMAX SCHEDULER
	STUDIO OP
	MINEMAX TEMPO
	MINEMAX IGANTT
DESIGN & SCHEDULING - COAL	MINESCAPE
	MINEMAX TEMPO
EXCAVATION ANALYSIS	3D-DIG
DRILL & BLAST	DATABLAST
CAD/SURVEY	STUDIO SURVEY

SUPPLY CHAIN

BLENDING & OPTIMISATION	BLENDOPT
INVENTORY MANAGEMENT	
& COMMODITY TRADING	MINEMARKET
	SNOWDEN RECONCILER
	CENTRIC MINING SYSTEMS
PRODUCTION ACCOUNTING	PRODUCTION ACCOUNTING



GEOLOGICAL DATA

CORE LOGGING	DH LOGGER
SAMPLE COLLECTION	SAMPLE STATION
DATA GOVERNANCE	FUSION
	SABLE
MAPPING	STUDIO MAPPER
	SIROVISION
ANALYTICS	REPORT MANAGER
INFORMATION MANAGEMENT	CCLAS
CORE TRACKING	CORESHED MANAGER

UNDERGROUND PLANNING

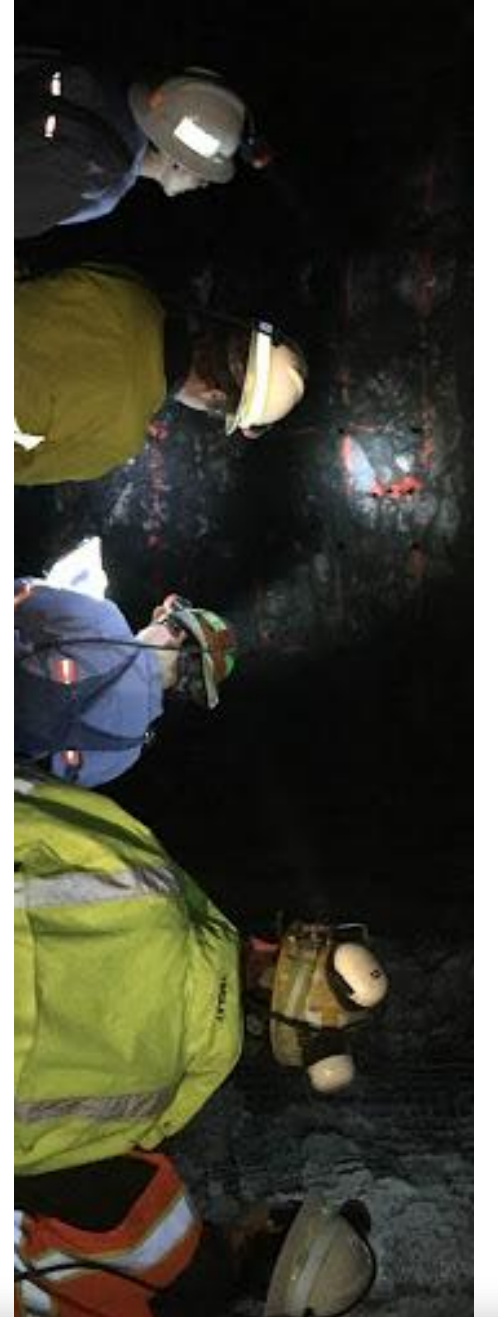
STRATEGIC OPTIMISATION	MSO
DESIGN & SCHEDULING	STUDIO UG
	EPS
SCENARIO ANALYSIS	SOT
DRILL & BLAST	AEGIS
CAD/SURVEY	AMINE
VENTILATION MODELLING	VENTSIM

OPERATIONS

SHORT INTERVAL CONTROL	DATAMINE OPS
OP DRILL & BLAST	DATABLAST
UG DRILL & BLAST	AEGIS
FRAGMENTATION MEASUREMENT	WIPFRAG
PRODUCTION GEOLOGY & RECONCILIATION	ORE CONTROLLER
	SNOWDEN RECONCILER
VENTILATION MODELLING	VENTSIM
UTILITIES SIMULATION	PUMPSIM
DATA CENTRALISATION	SIMS
DIESEL MANAGEMENT	DEEEMS
MARKETING & LOGISTICS	MINEMARKET

Introduction

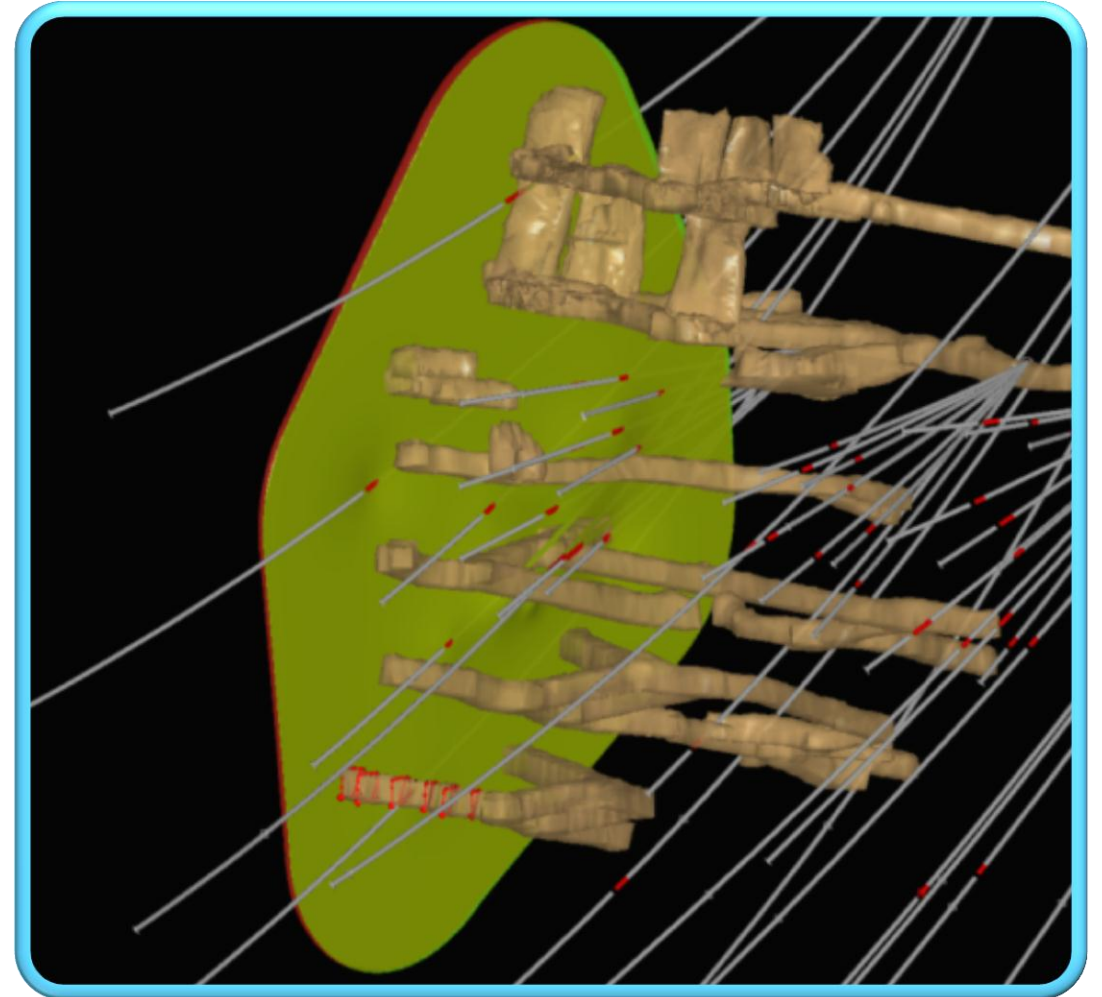
- Studio Mapper is a task-focused face mapping application designed for tablets.
- Encourages controlled data capture, storage, sharing and processing.
- Flexible configuration allows fully customized system.
- Built for purpose integration with geological modelling software.



Map

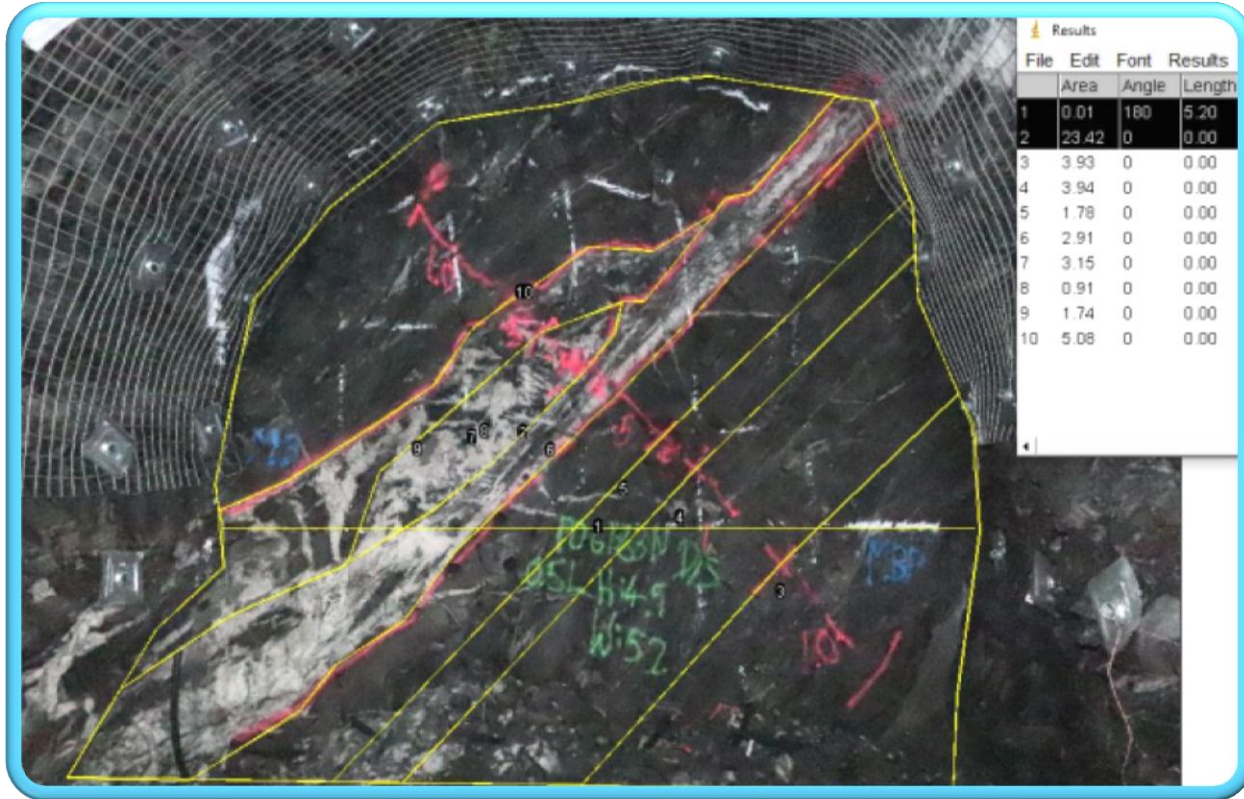
It can illustrate:

- **Where you were**
 - Increase Ore Body Knowledge
- **Where you are**
 - Ensure Proper Grade Control
- **Where you are going**
 - Improve Planning



Assign Area to Samples

- Associate outlined areas with channel samples
- Generate area-weighted face grade calculation



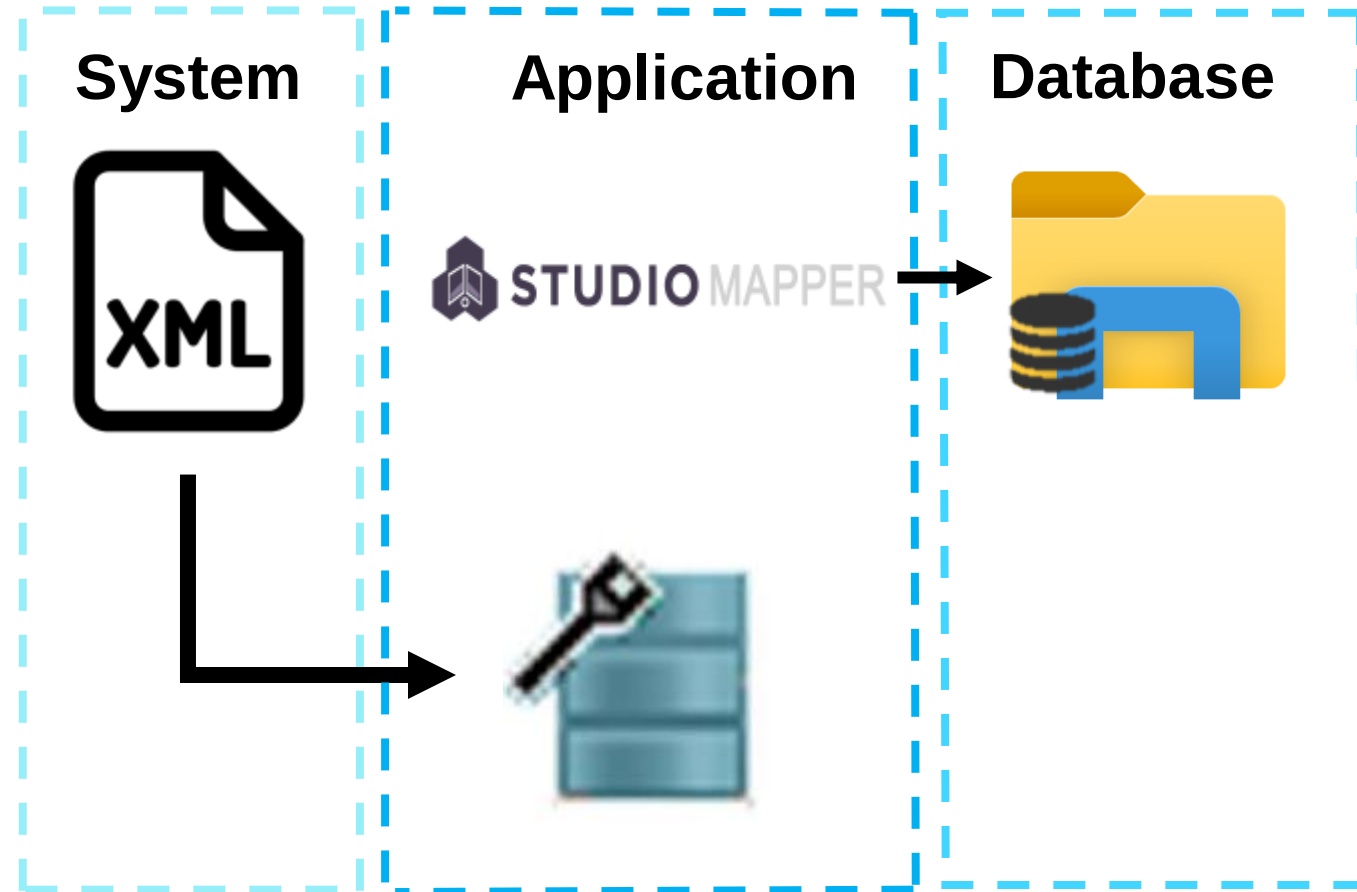
What is Studio Mapper?

- *Studio Mapper is a task-focused face mapping application built on the Studio Core engine designed for both portable and desktop devices*
- **Background:** Initiated by POC studies around the globe
- Encourages controlled data capture
- Built for purpose integration with geological modelling software



System Configuration

- Flexible Configuration Allows Fully Customized System.
- Map Specifications Relevant to Operations.
- Field Data Attributes (Lookups).
- 3D visualization Templates.
- Automated Reports



Before Going Underground

- Define Working Area (Cut/Level etc.)
- Load Previously Mapped Faces
- Load Reference Data
 - Workings, survey pegs, models, drillholes.



At The Face

- Define additional map metadata
- Load photos live or back in the office
- Define profile or load pre-defined template
- Capture Features (Structures, Contacts,
Sedimentological profiles, Channel Samples, Hazards)
- Lookups and templates ensure standard nomenclature and reproducibility



In The Office

- Use mapped data to dynamically update geological models in Studio RM.
- Export Mapped Data to CAD Packages

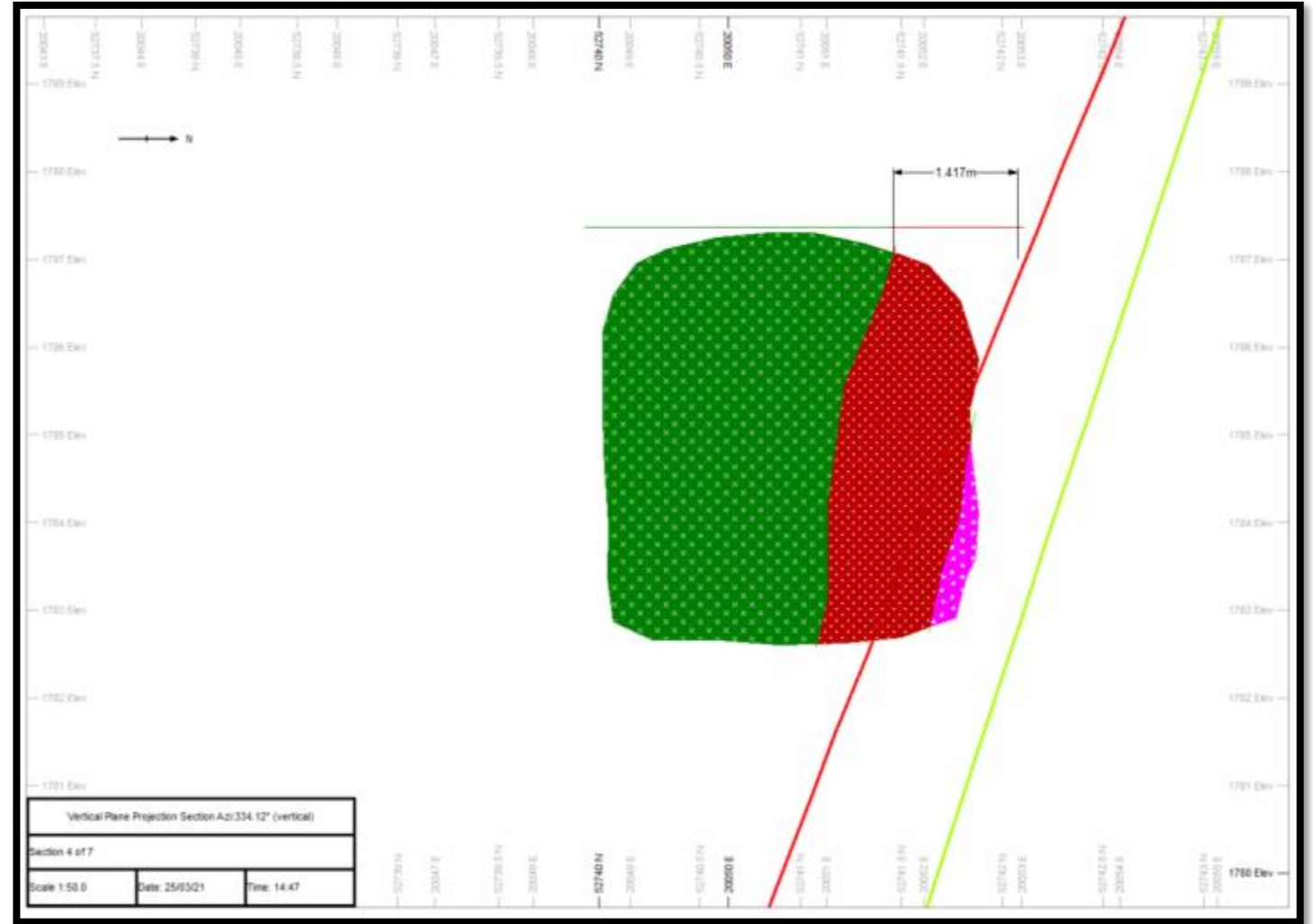


Implementations

- South Deep, South Africa
- Geita, Tanzania
- Rustenburg Shafts; Eastern Bushveld, South Africa



Reports



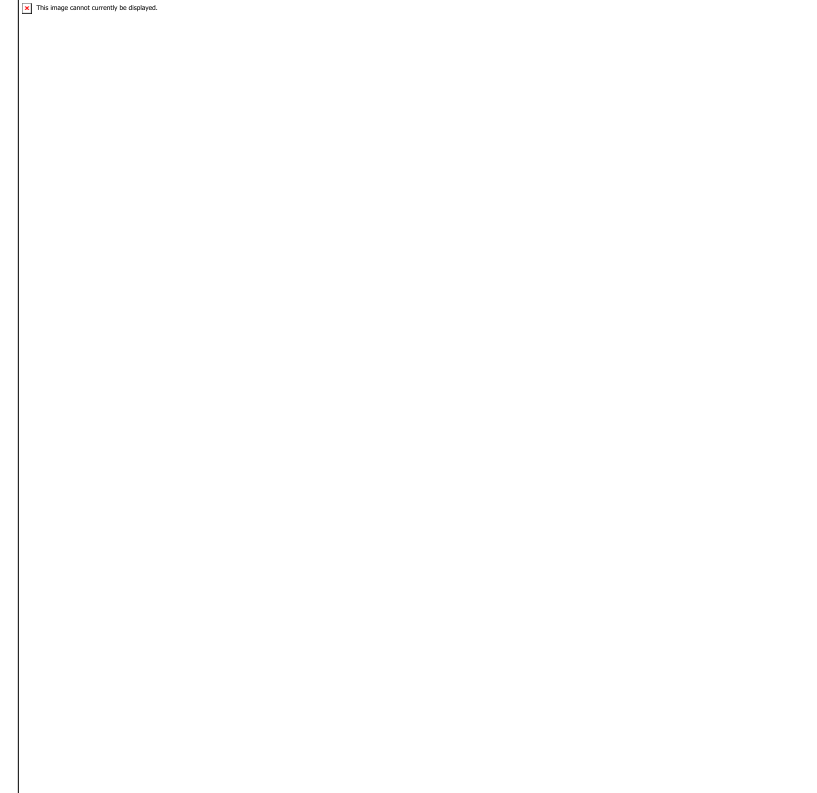
Future Development

- Map directly onto 3D
imagery
- PixPro photogrammetry
software
- Studio Mapper supports
.obj, .fbx, .ply etc.
- Standard DSLR cameras



Benefits of Studio Mapper

- Big time-saver for production geo's daily tasks
- Faster turnaround time for data to become available
- Standardisation
- Quick and reproduceable reports
- Ease of use / Short learning curve
- Data Archival / Availability of previous mappings
- Dynamically update models



**Thank you, any
questions?**

