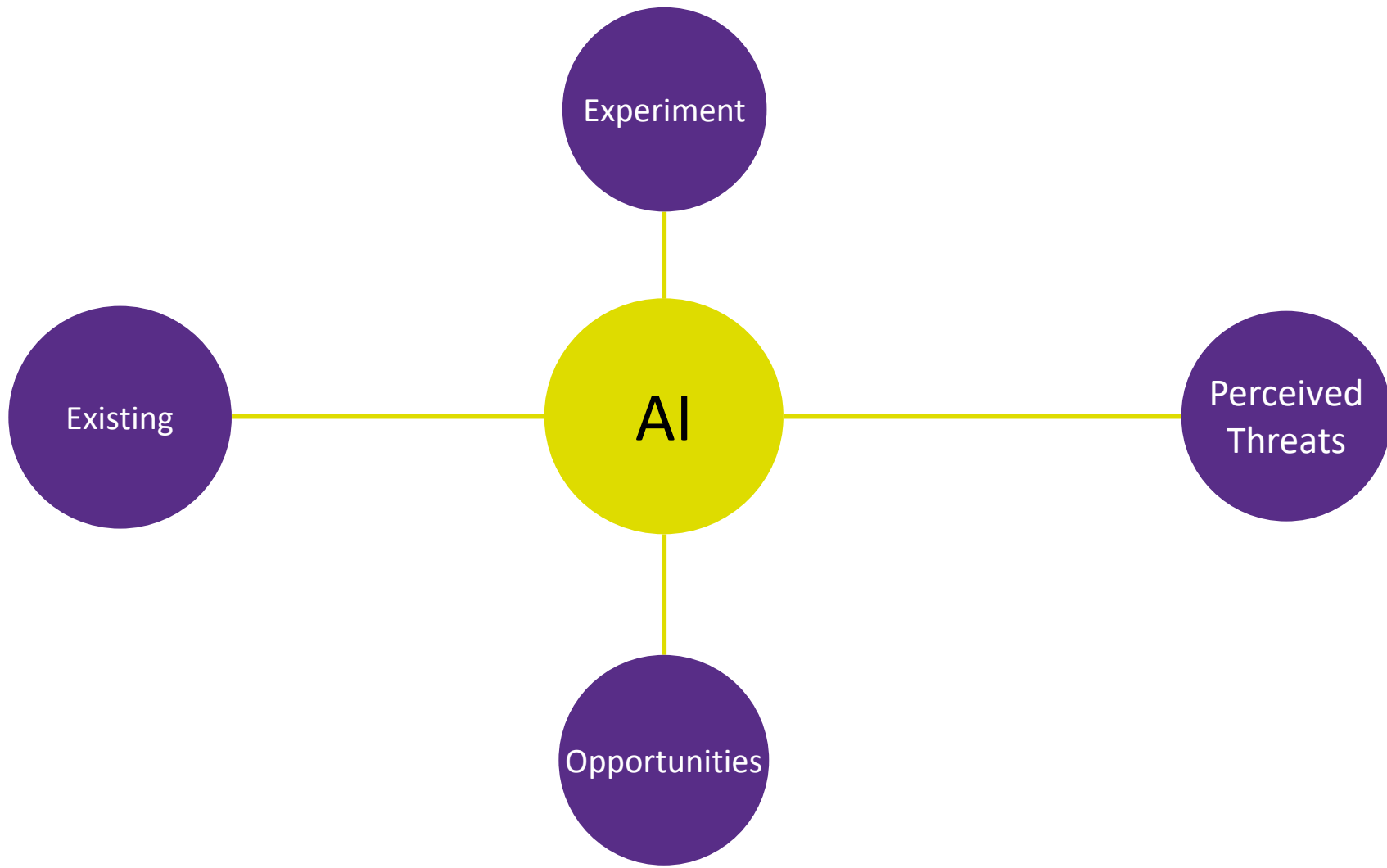




AI in the Spatial Industry



Schema Mapping
e.g. NUAR

Experiment

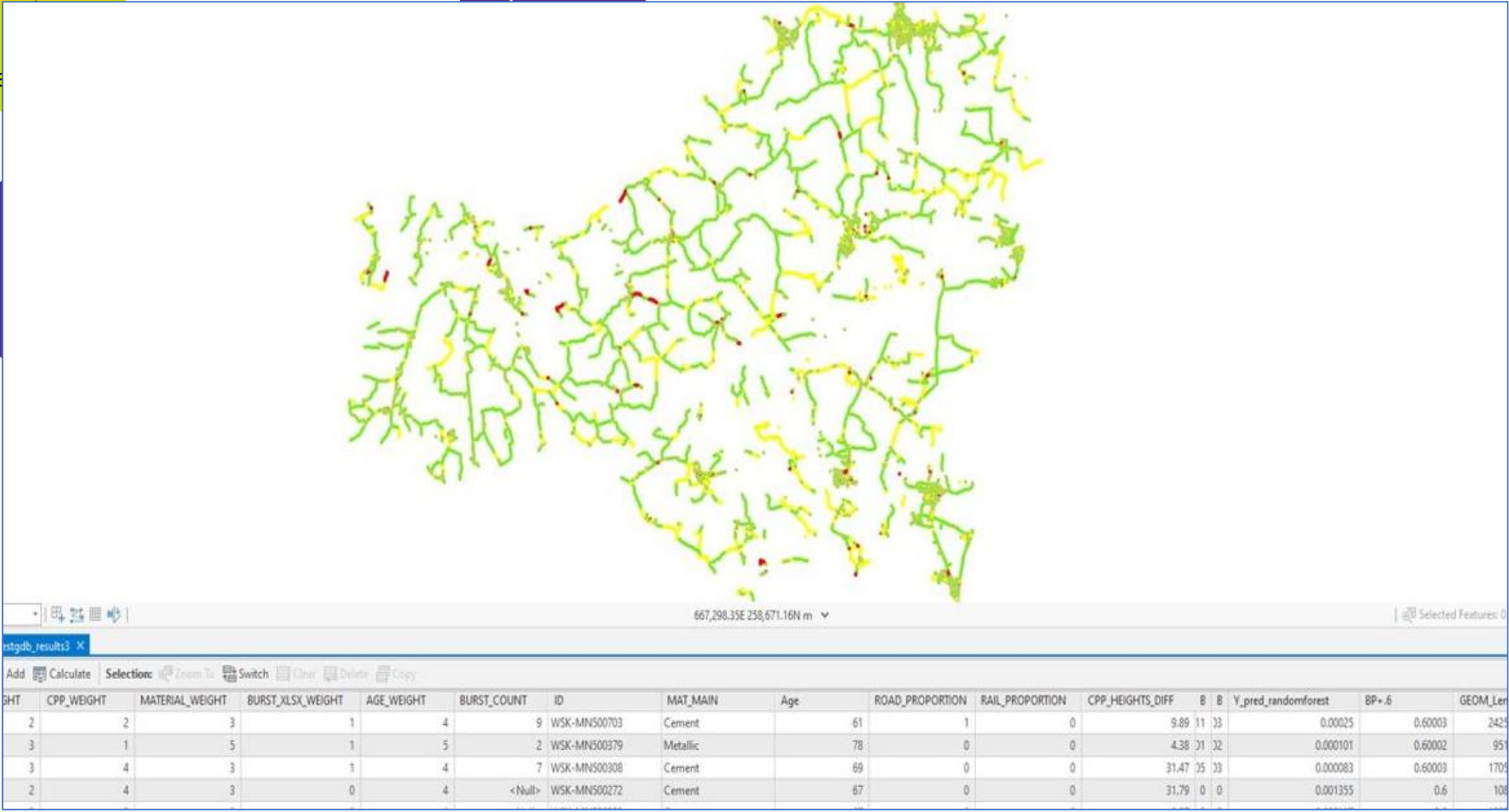
Perceived Threats

GW_METER_EXPORT_STANDARD_W_point	ASSET_NAME	waternetworknode	localreference
GW_METER_EXPORT_STANDARD_W_point	DATASOURCE		
GW_METER_EXPORT_STANDARD_W_point	FEATSTATE	waternetworknode	operationalstatus
GW_METER_EXPORT_STANDARD_W_point	JOB_STATE		
GW_METER_EXPORT_STANDARD_W_point	DMA2		
GW_METER_EXPORT_STANDARD_W_point	PATH_COST		
GW_METER_EXPORT_STANDARD_W_point	DMA		
GW_METER_EXPORT_STANDARD_W_point	NODE_2_ID		
GW_METER_EXPORT_STANDARD_W_point	NODE_1_ID		
GW_METER_EXPORT_STANDARD_W_point	ORIGWMSJOB		
GW_METER_EXPORT_STANDARD_W_point	CURRJOBID		
GW_METER_EXPORT_STANDARD_W_point	ORIGJOBID		
GW_METER_EXPORT_STANDARD_W_point	INSTALDATE	waternetworknode	dateofinstallation
GW_METER_EXPORT_STANDARD_W_point	EDITED_BY		
GW_METER_EXPORT_STANDARD_W_point	YEARPLACE		
GW_METER_EXPORT_STANDARD_W_point	INSPDATE		
GW_METER_EXPORT_STANDARD_W_point	JOB_ID		
GW_METER_EXPORT_STANDARD_W_point	DIGITISBY		
GW_METER_EXPORT_STANDARD_W_point	UPDATED_DA	waternetworknode	dateoflaststatuschange
GW_METER_EXPORT_STANDARD_W_point	DGTSDDATE		
GW_METER_EXPORT_STANDARD_W_point	ASSET_TYPE		
GW_METER_EXPORT_STANDARD_W_point	INT_DIAM	waternetworknode	insidewidth_width
GW_METER_EXPORT_STANDARD_W_point	STORAGECAP		
GW_METER_EXPORT_STANDARD_W_point	DIAM_UNIT	waternetworknode	insidewidth_unitofmeasure

SourceClass	SourceAttribute	SourceValue	TargetAttribute	TargetValue
AbandonedPipe	PRESSURETIER	I	conveyancemethod	Intermediate Pressure
AbandonedPipe	PRESSURETIER	L	conveyancemethod	Low Pressure
AbandonedPipe	PRESSURETIER	M	conveyancemethod	Medium Pressure
AbandonedPipe	PRESSURETIER	RH	conveyancemethod	Regional High Pressure
AbandonedPipe	DIAMETERUNITS	I	insidewidth_unitofmeasure	Inches
AbandonedPipe	DIAMETERUNITS	M	insidewidth_unitofmeasure	Millimetres
AbandonedPipe	MATERIAL	AS	material	Asbestos Cement
AbandonedPipe	MATERIAL	CI	material	Cast Iron
AbandonedPipe	MATERIAL	CO	material	Concrete
AbandonedPipe	MATERIAL	DI	material	Ductile Iron
AbandonedPipe	MATERIAL	PE	material	Plastic
AbandonedPipe	MATERIAL	PV	material	PVC
AbandonedPipe	MATERIAL	SI	material	Spun Iron
AbandonedPipe	MATERIAL	ST	material	Steel
AsBuiltPipe	MATERIAL		material	
AsBuiltPipe	MATERIAL	CI	material	Cast Iron
AsBuiltPipe	MATERIAL	DI	material	Ductile Iron
AsBuiltPipe	MATERIAL	FP	material	
AsBuiltPipe	MATERIAL	pe	material	Plastic
AsBuiltPipe	MATERIAL	PE	material	Plastic
AsBuiltPipe	MATERIAL	SI	material	Spun Iron
AsBuiltPipe	MATERIAL	ST	material	Steel

Experiment

Pipe Leakage Prediction

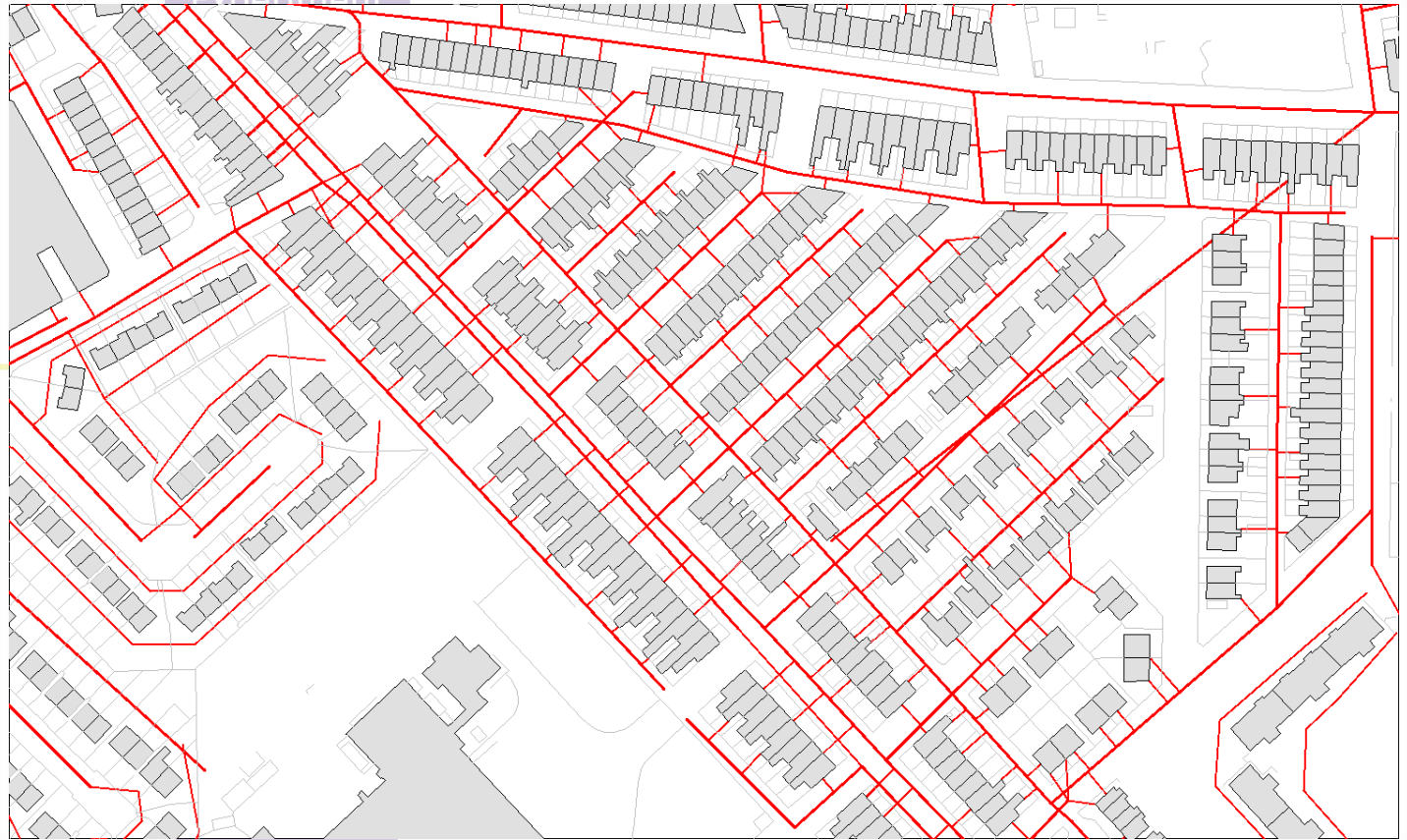


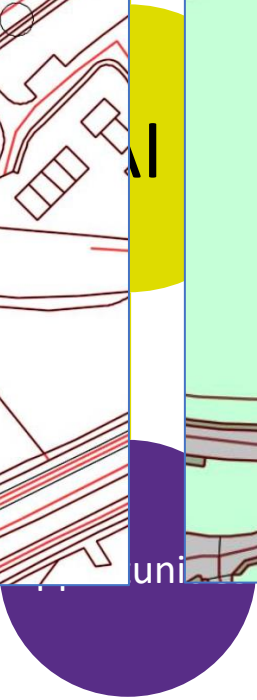
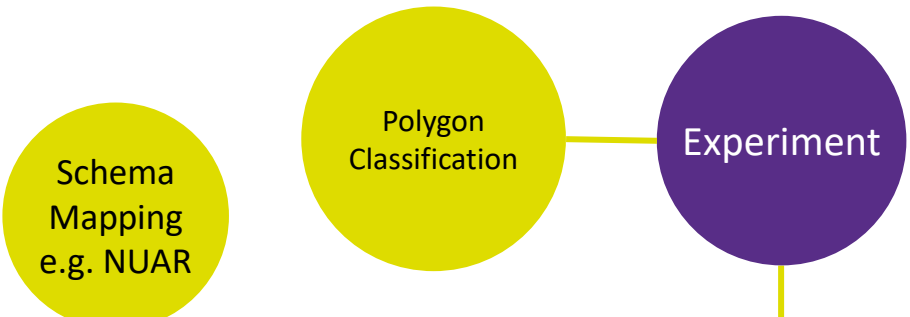
Pipe
Leakage
Prediction

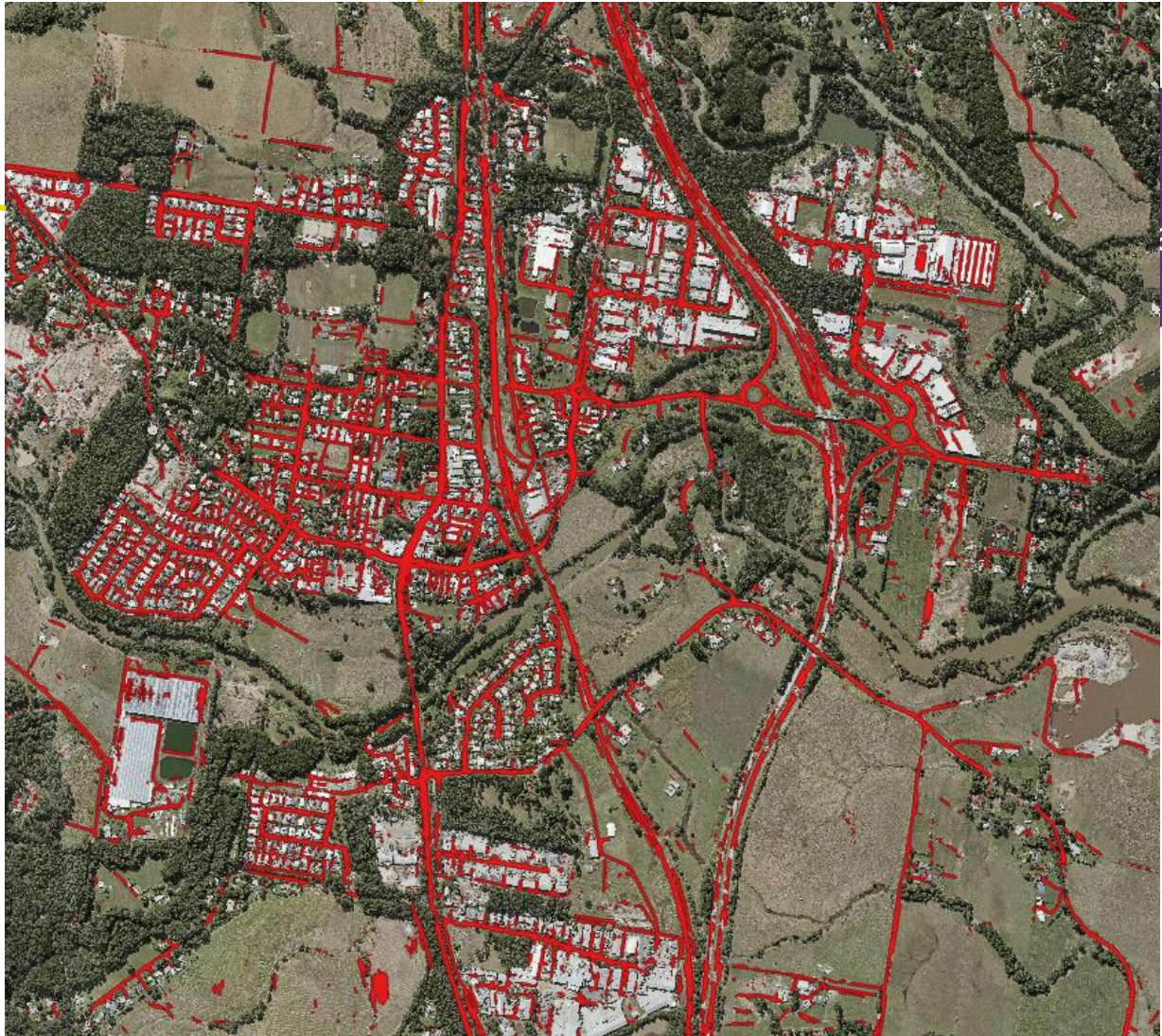
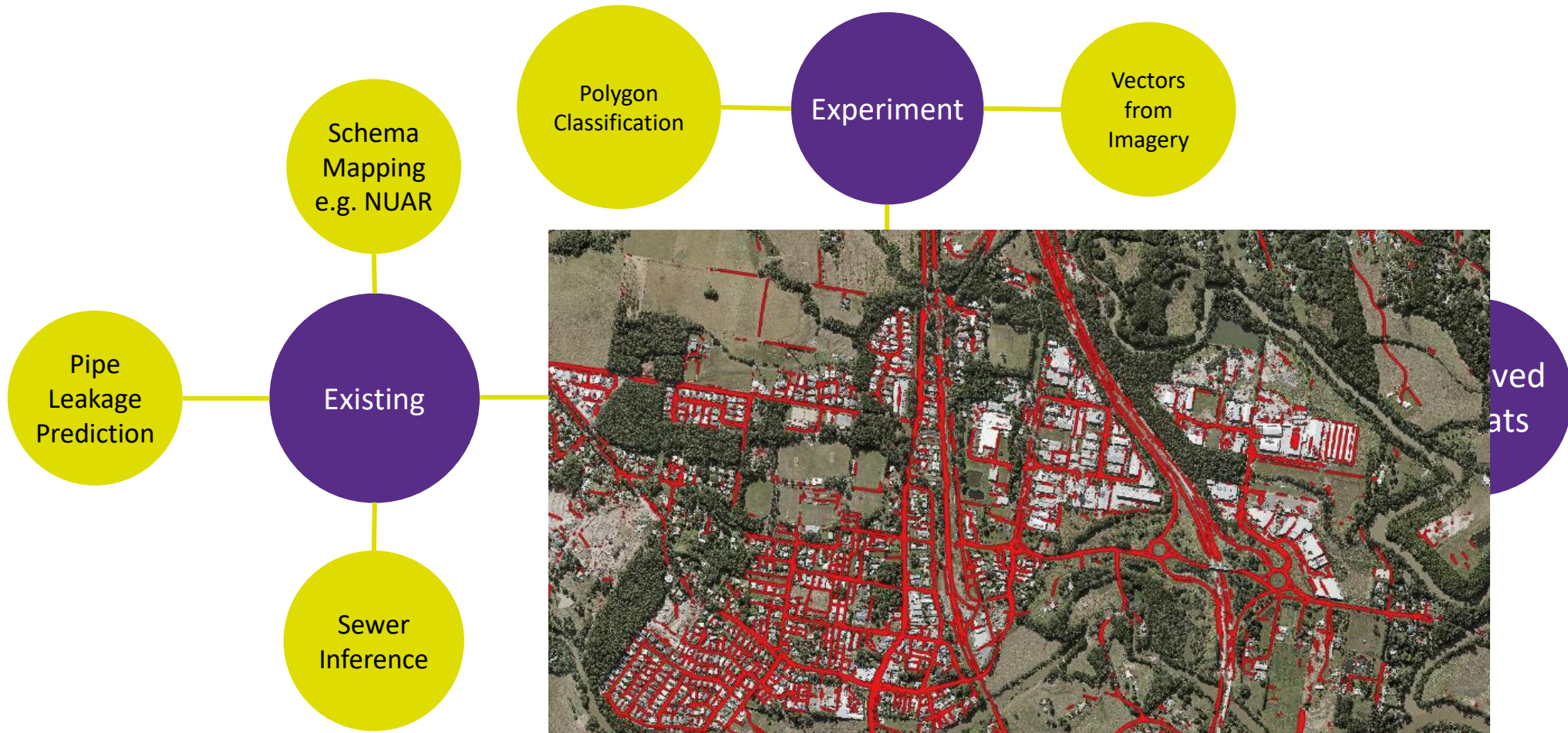
Existing

Schema
Mapping
e.g. NUAR

Sewer
Inference







Schema Mapping

Polygon Classification

Experiment

Vectors from Imagery

Pipe Leakage Prediction



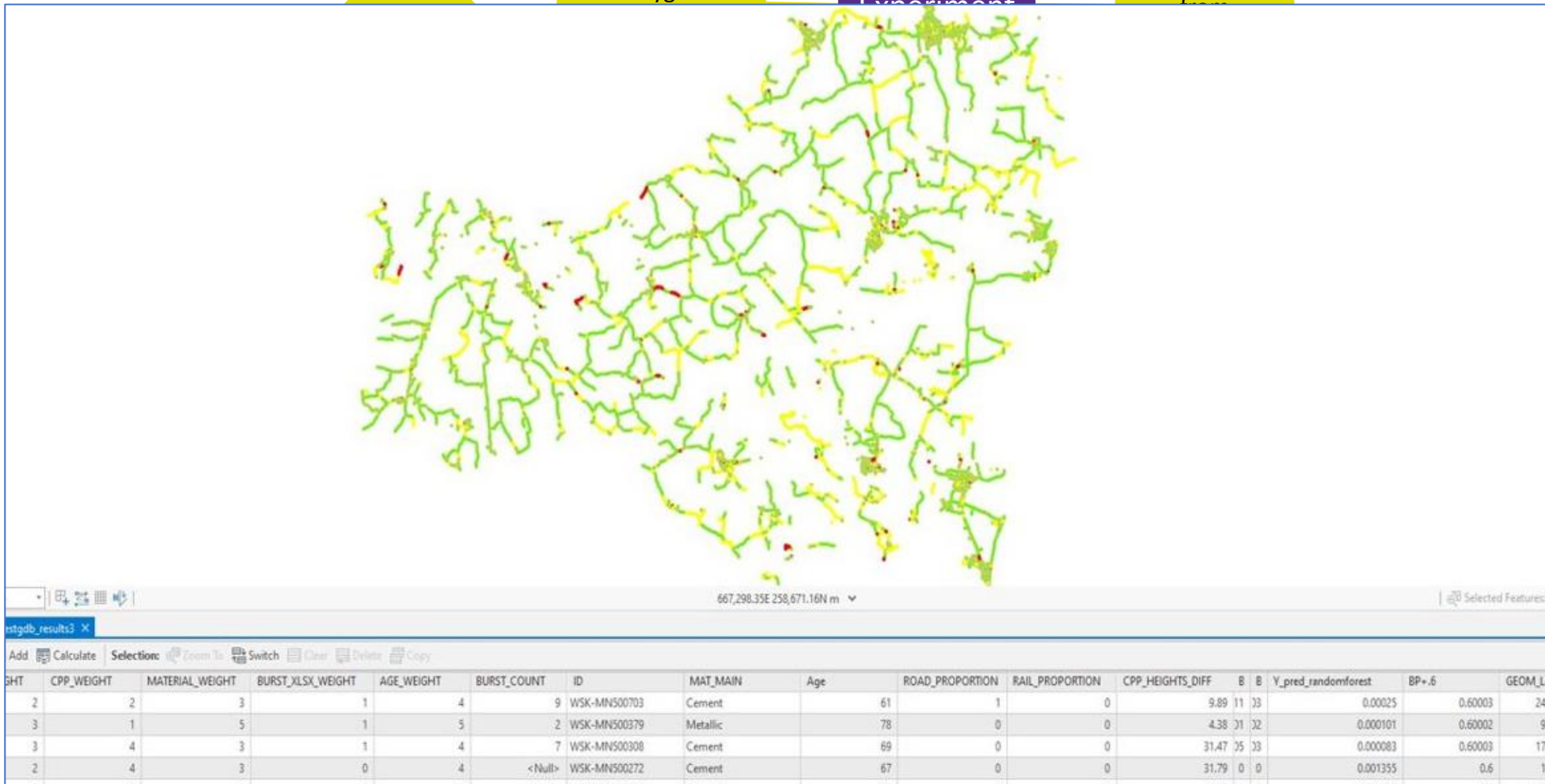
Perceived Threats

AI Data Capture replaces NMA

Polygon

Experiment

Vectors



AI Data Capture replaces NMA

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ats

AI Process avoids the need for data



Polygon

Experiment

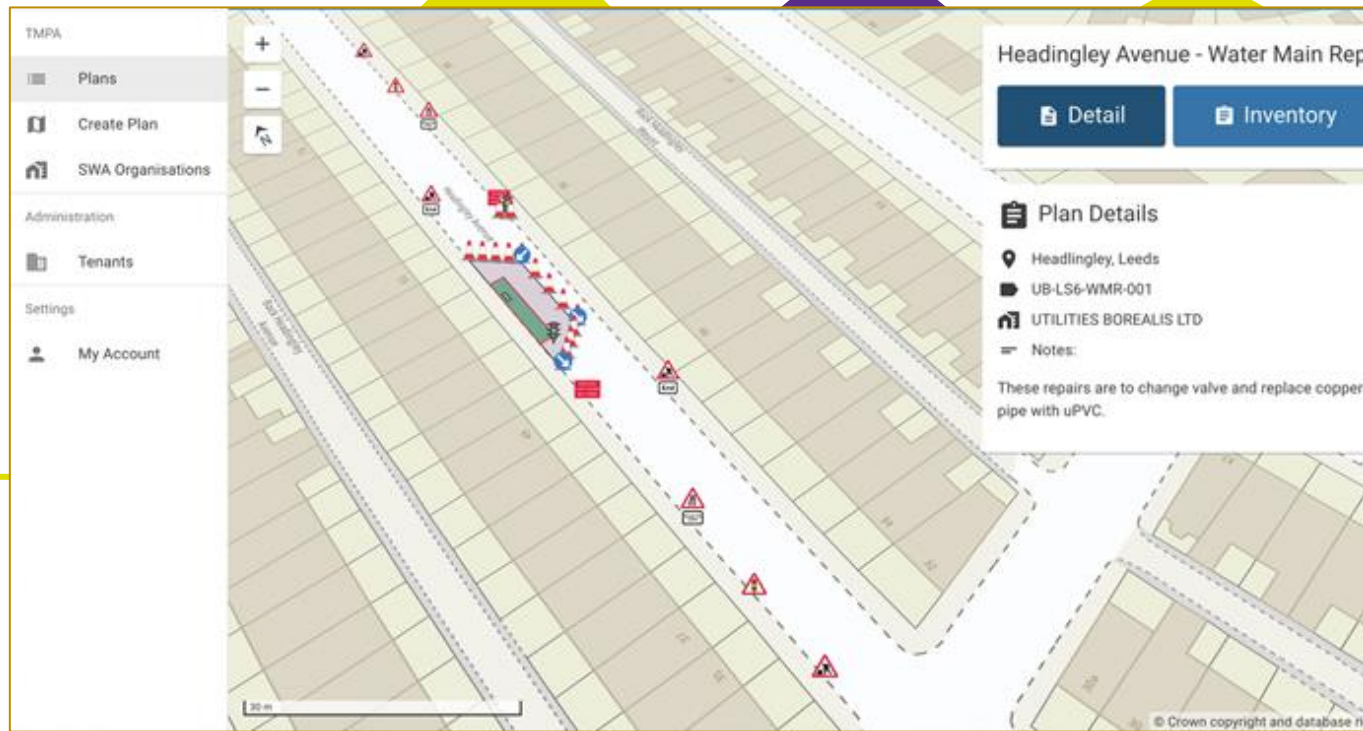
Vectors from

Sewer Inference

More Generative Inference

Opportunities

need for data



Pipe Leakage Prediction

Sewer Inference

More Generative Inference

Spatial Decision Support

Opportunities

Perceived Threats

AI Data Capture replaces NMA

AI Process avoids the need for data



Existing

Schema Mapping
e.g. NUAR

Pipe Leakage Prediction

Sewer Inference

Spatial Decision Support

Code and Doc Writing Support



Pipe
Leakage
Predicti

Vectors
from
Imagery

AI Data
Capture
replaces
NMA

Perceived
Threats

AI Process
avoids the
need for data

Sewer
Inference

More
Generative
Inference

Opportunities

Check and
clean AI
output data

Spatial
Decision
Support

Code and
Doc Writing
Support

Check and
clean AI
input data
for bias

