

Unlocking the Power of Asset Data for Smarter Flood Management

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THREATS

FLOODING

DELAYS

HEALTH EFFECTS

CONTAMINATION

LOSS OF LIFE

FINANCIAL LOSS

REPUTATIONAL
HARM

HIGHWAY DAMAGE

TIME LOSS

COST
££££

Environmental
Threats

Static
Information

Understand our
Assets

More than
an Asset

Local
Delivery

Deeper
Understanding

Reflection

RELIANCE

INTRICATE

STATIC POINT

RUNOFF

COMPONENTS

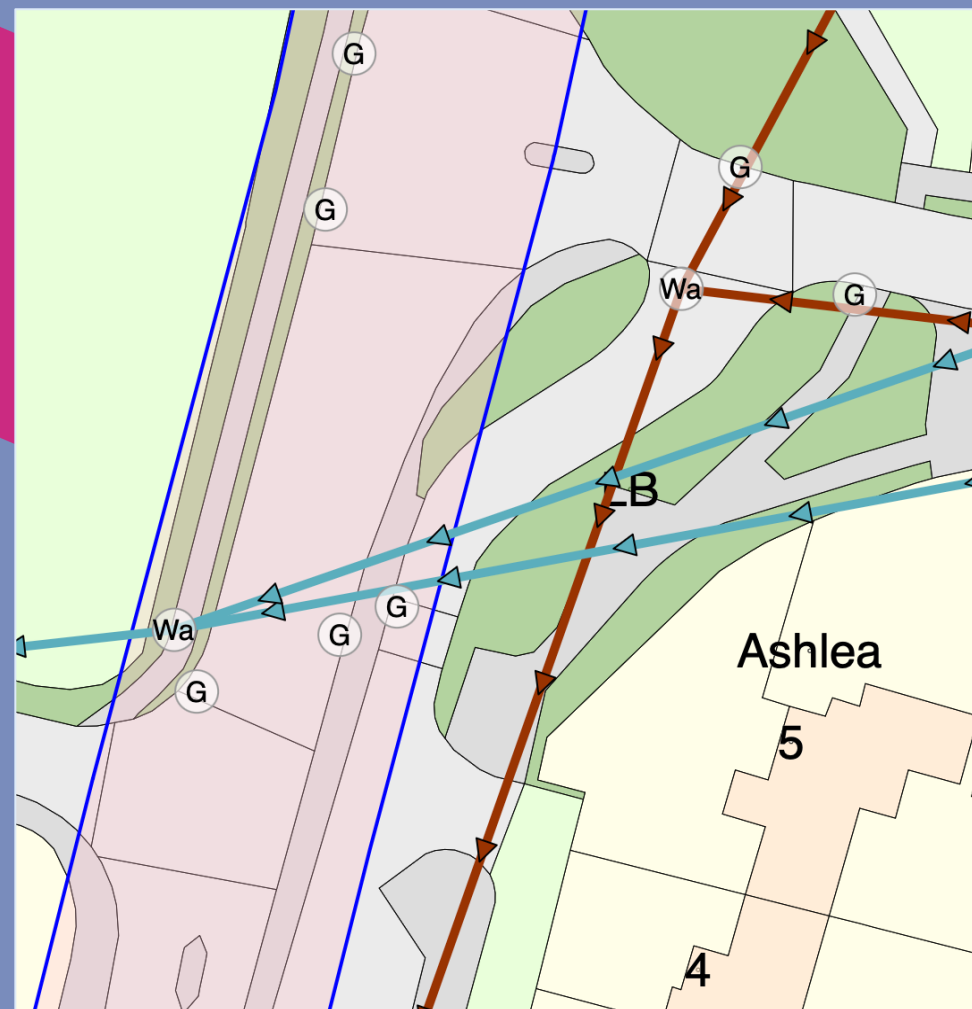
NETWORKS

SUBSURFACE

DRAINAGE

INACCURACIES

ASSETS



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PROPERTIES AT
RISK

NON RESIDENTIAL
PROPERTIES

SPOKEN
LANGUAGE

PREVIOUS
FOODING

EDUCATION LEVEL

CLASS

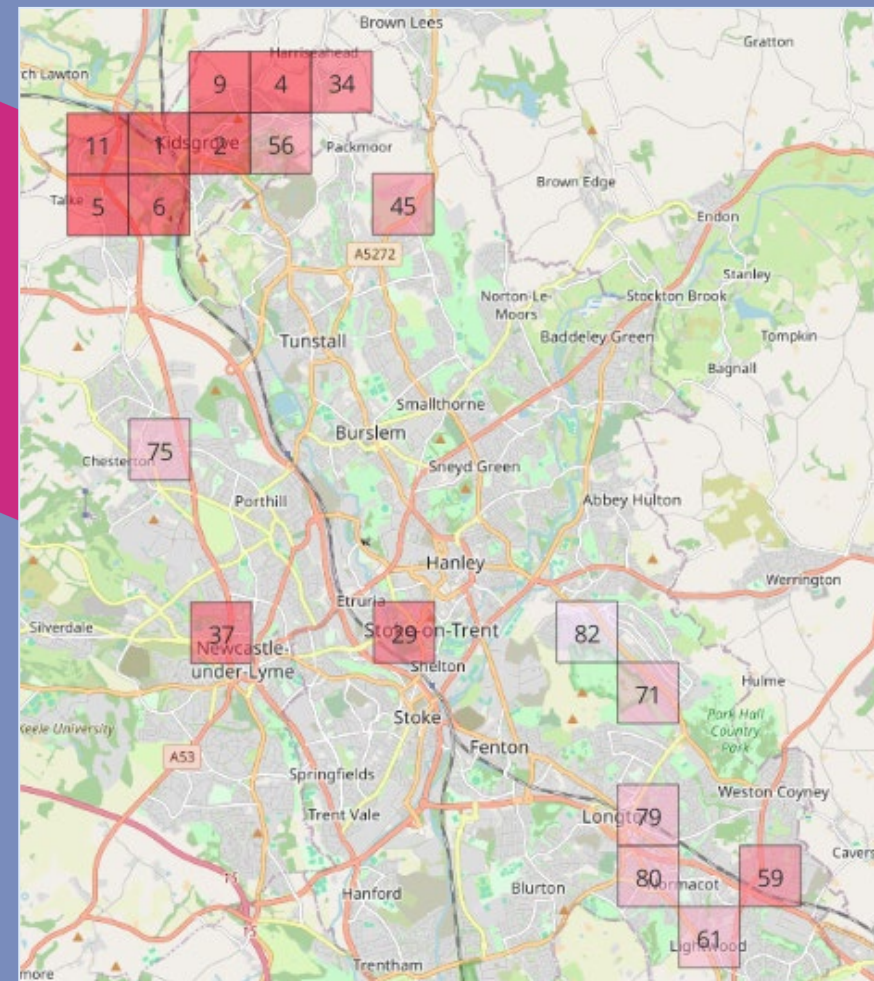
HIGHWAY
AFFECTED

SCHOOLS

NHS BUILDINGS

REPEAT ATTENDED
GULLIES

WEIGHTED
VALUE
RANKING



4. Specification

A team equipped with a hydraulic lifter or 2- man operation to locate and lift manholes and other accessible drainage.

The crews will have access to view, inspect and edit all drainage

- The crews will also see the water authority drainage in a non-interactive form
- A silt level measurement will be provided for each asset.
- GPS of Assets using RTK X/Y and Z

Surveyors will use available gazetteer on a tablet to show when road sections have been inspected. This will allow clarity of productivity, especially in sections that have no asset data.

Time stamped audit trail on the road as well as the assets collected.

Visual surveys of lids and internal manhole conditions will be taken with photographs.

Those with defectives will be marked on Tablet so to be easily extractable, measured and quantified within the software used/supplied for Jetting or CCTV survey in future.

Surveyors will assume connectivity based on pipe configuration and will not access the manholes.

Internal measurements will be taken using laser measurement.

Dangerous drainage, missing lid's etc. will be reported immediately using our "Staffordshire Report it Web-based Tool" and Logged on Supplied System

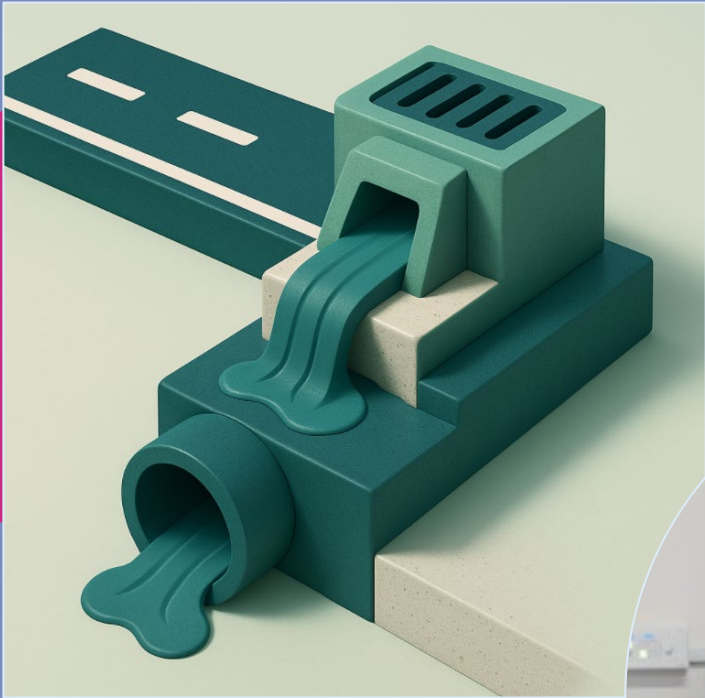
Surveys will include the following assets

Manhole	Trash Screen	Ditch
Soakaway	Catchpit	Grip
Rodding Eye	Gully	Kerb Drain
Inlet / Outlet	Pipe	Aco Drain
Pumping Station	Culvert	Dish Channel
Ghost Node	Filter drain	Other
Headwall	Slot Drain	
Cover		

Part F Objectives

State clearly what the study is trying to achieve.

- To provide a full connectivity drainage infrastructure study and mapping of the area; currently no full connectivity drainage asset infrastructure record exists. Therefore, before any measures are considered we need to understand what infrastructure is at the location and ascertain the condition of these assets.



Product	Quality standards
1 Highways Standards	CS551 Highway Standards
2 Manual of Contracts Documents for Highways Works	MCHW 5

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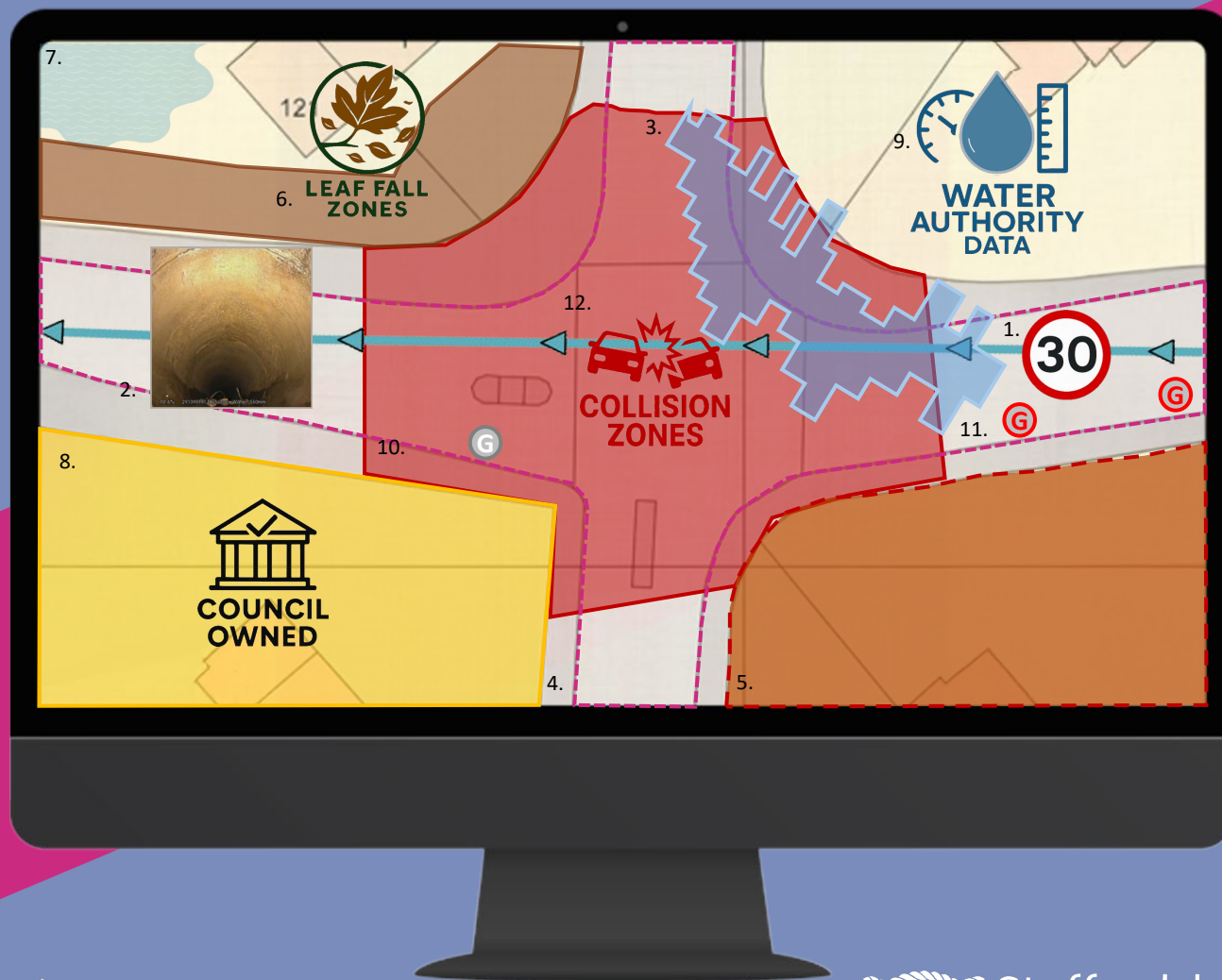
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1. ROAD
ATTRIBUTES

2. CCTV SURVEY
DATA

3. EA FLOOD
ZONES

4. HIGHWAY
ADOPTION

5. PROPERTY
BOUNDARIES

6. LEAF FALL ZONES

7. PROXIMITY
TO WATER

8. COUNCIL
OWNED LAND

9. WATER
AUTHORITY DATA

10. PRIORITY
AREAS

11. SENSITIVE
OUTFALLS

12. COLLISION
ZONES

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CHALLENGE

FLOODING

SPACE

NEED

DESIGN

JOINT APPROACH

COMMUNITY LEAD
PROJECT

FULLY FUNDED

DELIVERED



COMMUNITY
PLANTING OF THE
NEWLY DELIVERED
RAIN GARDEN

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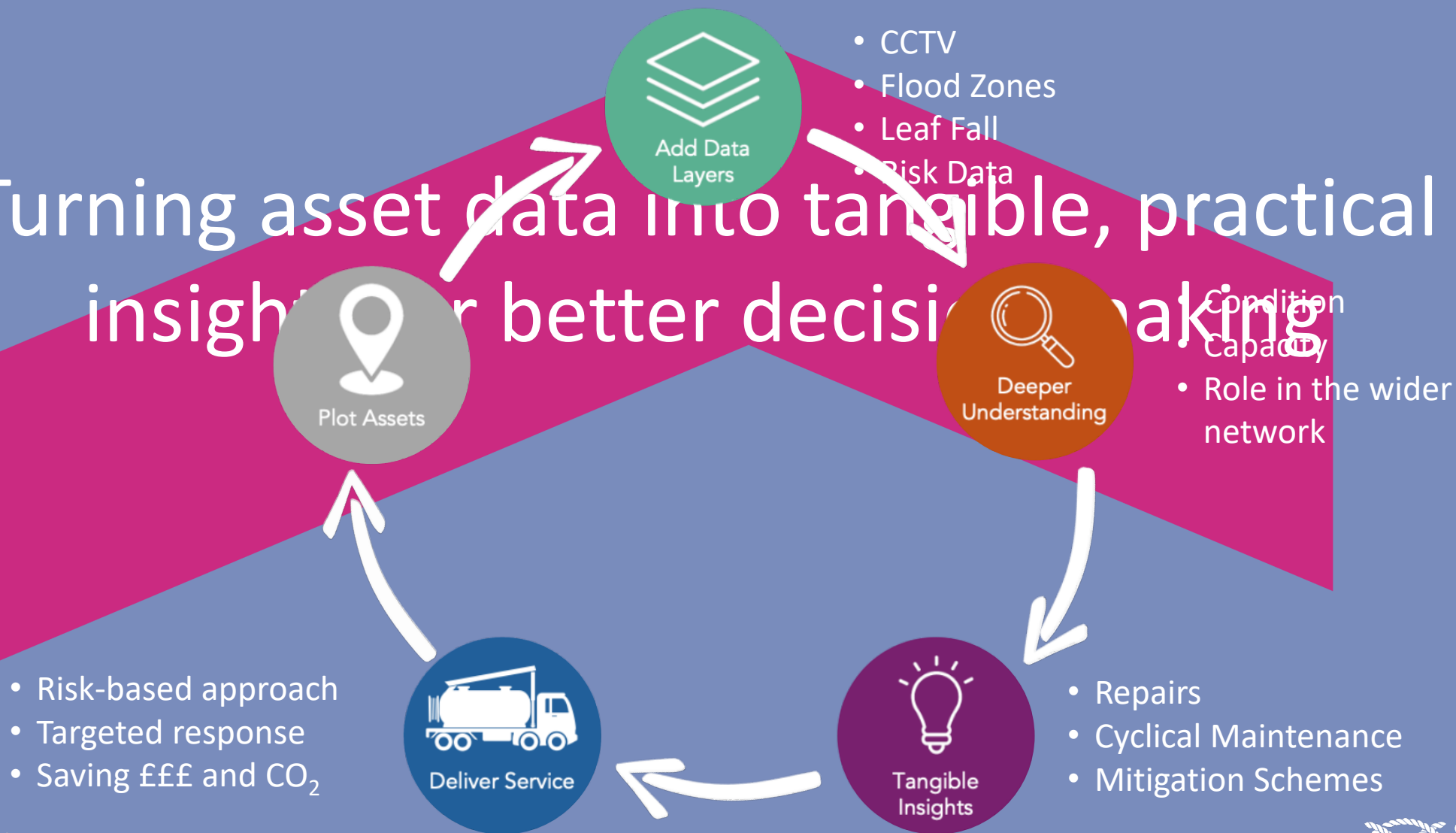
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Turning asset data into tangible, practical insights for better decision making



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CONSULT WITH YOUR
LEAD LOCAL FLOOD
AUTHORITY

ENGAGE WITH THE
COMMUNITY

OPEN DIALOGUE

FULL COMPLETE PICTURE

WORKING WITH COLLEAGUES AND PARTNERS



Staffordshire
County Council



KaarbonTech



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