

# Implementation of an Asset Management approach in Cornwall

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# Asset Management – What is it?

- **CSS definition:**

Asset management is a **strategic** approach that identifies the **optimal allocation of resources** for the **management, operation, preservation and enhancement** of infrastructure to meet the **needs** of current and future **customers**

- **HMEP Guidance definition:**

A **systematic** approach to meeting the **strategic** need for the **management and maintenance** of highway infrastructure assets through **long term planning** and **optimal allocation of resources** in order to **manage risk** and meet the **performance requirements** of the authority in the most **efficient and sustainable** manner

# What has Asset Management done for us?

**Sets out the why and how by**

Enabling a systematic approach which helps us to:

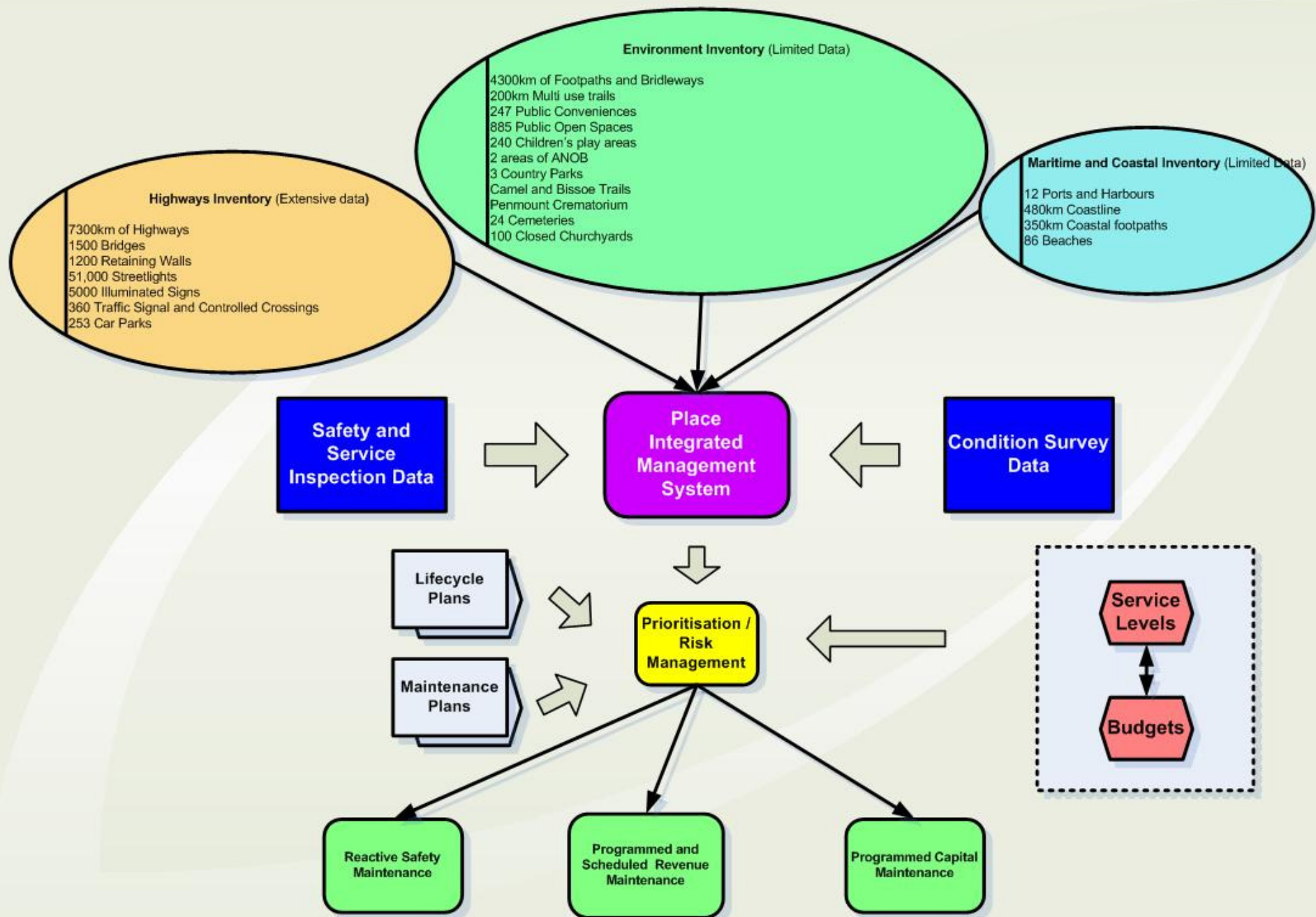
- Link to statutory, corporate and service objectives
- Identify key asset types
- Identify, quantify and manage risk
- Set realistic affordable performance standards

# Asset Management – A Framework

**A Systematic Approach which encompasses:**

- Inventory and Data Management
- Levels of Service
- Lifecycle Planning, Budget projection and Valuation
- Risk Management and future needs

# Asset Management – The process



# **Asset Management – An alternative definition**

## **An extract from Cornwall Council's Asset Management Strategy:**

- At its most basic level Asset Management can be seen as an exercise in managing risk, a key aspect of which is the grouping by type of assets into a hierarchy which reflects their importance in service delivery terms relative to one another. This then enables the quantification and allocation of risk.

# Maintenance Hierarchy - Highways

Hierarchy/Class	A Road	B Road	C Road	U Roads	Total
2a Strategic Routes	222.8				222.8
2b Strategic Routes	342.8				342.8
3a Main Distributor		480.9	216.8	20.8	718.5
3b Secondary Distributor		102.8	684.0	147.0	933.8
4a Local Roads		0.1	549.9	95.1	645.1
4b Local Access Roads		0.1	747.4	2606.0	3353.5
5 Other Access Roads			438.5	488.6	927.2
6a Green Lanes			1.2	25.3	26.6
6b Green Lanes			1.3	72.7	74.0
Totals	564.4	583.8	2640.3	3455.6	7244.2

# Levels of Service for Highway Maintenance (Rural – 80% of Network)

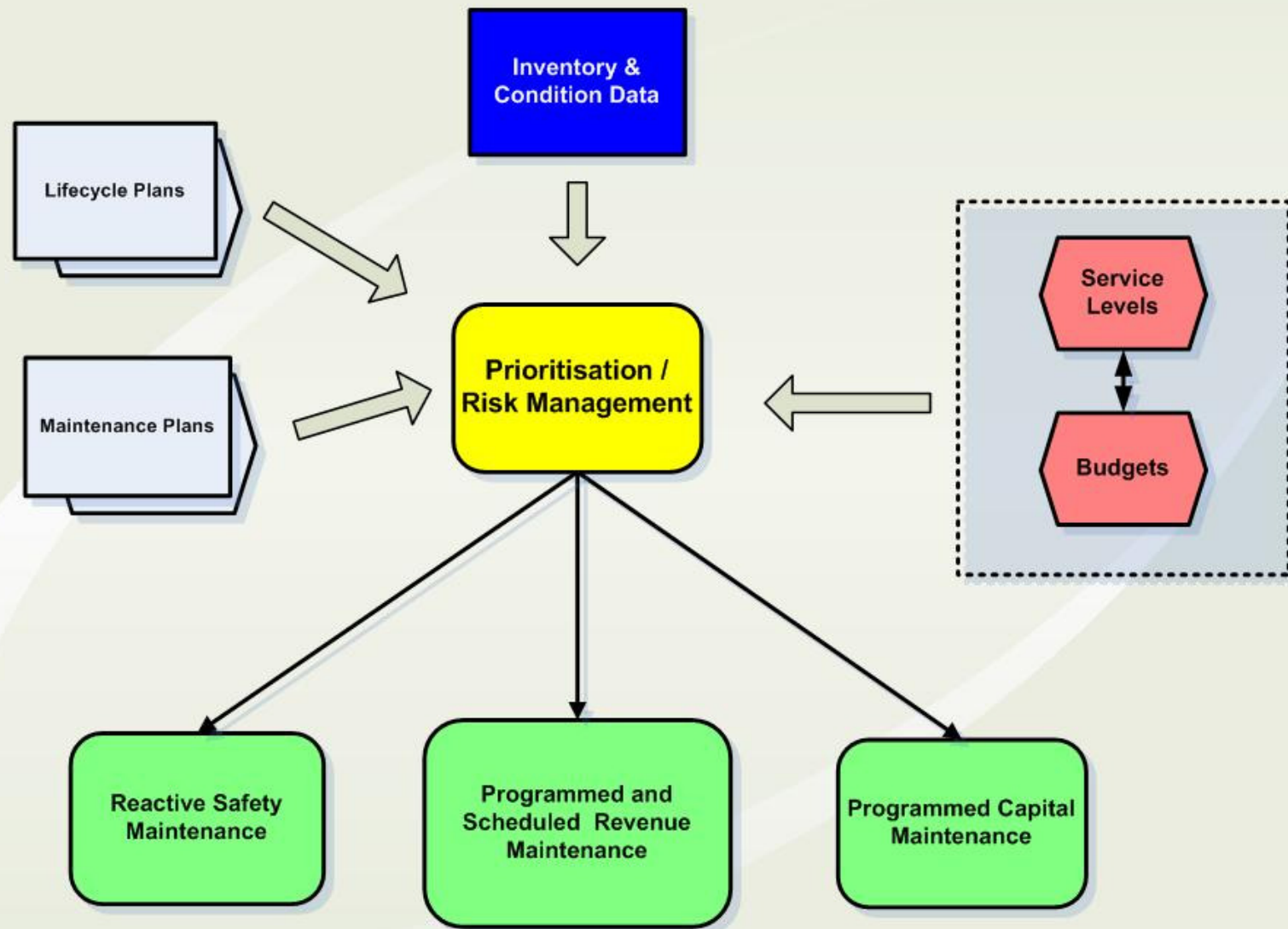
Hierarchy/ Environment	Maintenance Activity							
	Carriageways	Drainage Gullies	Drainage other	Footways & Cycleways	Verges etc	Fences & Barriers	Traffic Signs	Road Markings
2a Rural								
2b Rural	Service Level 1							
3a Rural			Service Level 2					
3b Rural								
4a Rural					Service Level 3			
4b Rural								
5a Rural							Service Level 4	
5b Rural								
6a								
6b								

## Key

	Service Level 1 - includes Safety, Serviceability and Sustainability
	Service Level 2 - Includes Safety and intermediate level of Serviceability ( no sustainability)
	Service Level 3 - includes Safety and minimal level of Serviceability (no sustainability and a severely reduced level of serviceability)
	Service Level 4 - includes Safety only (no sustainability and serviceability) - This is the minimum legal level



# Asset Management – The Output



# **Asset Management – Outcomes**

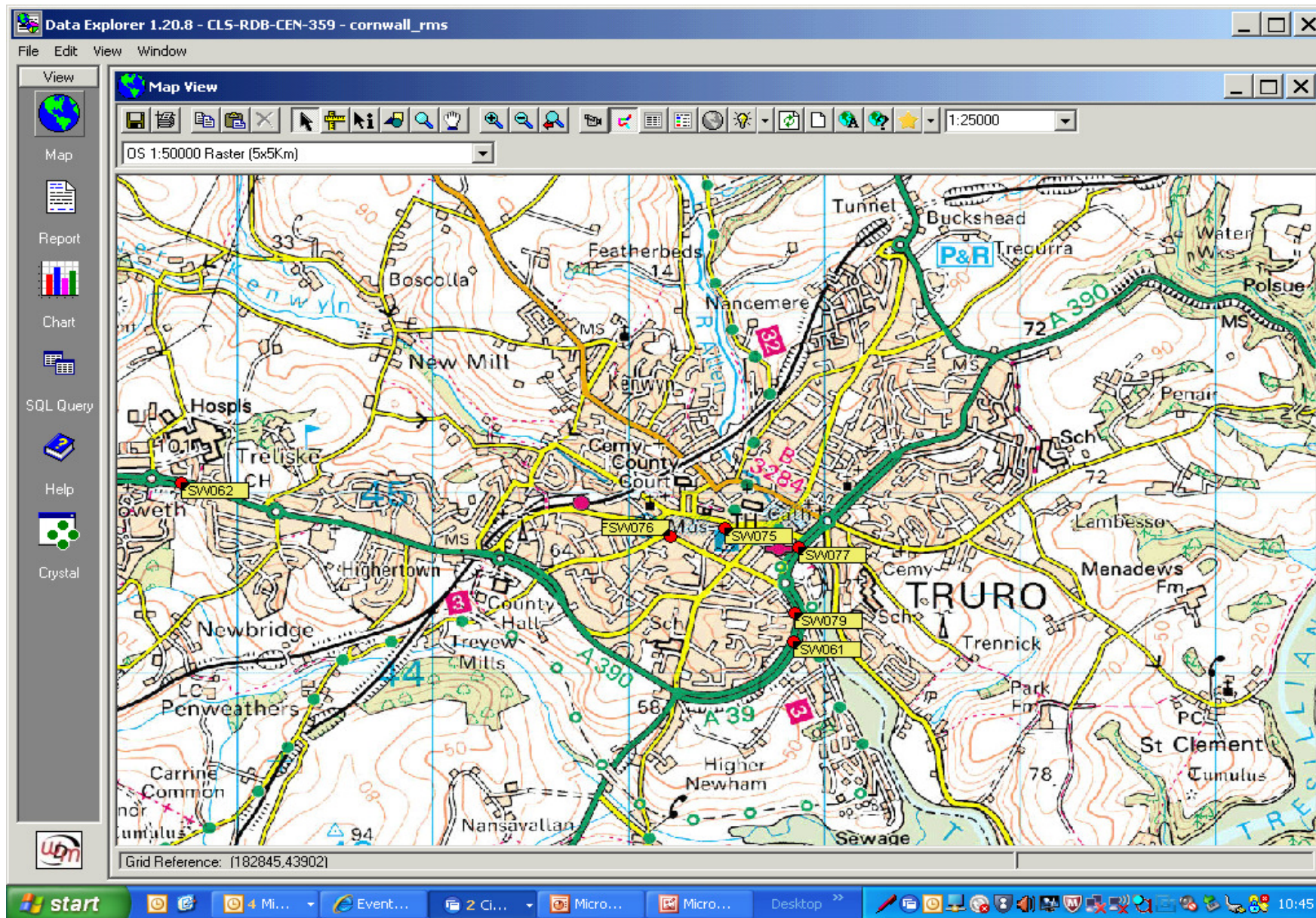
- **The process of appraising options which:**
  - **Mitigates risk (as far as is possible)**
  - **Identifies future funding need**
  - **Prompts review of LoS when funding is constrained**

## Gully Emptying Programme

- Cornwall originally implemented a blanket annual cleansing programme for all gullies
- Over time frequencies have been amended to respond to identified areas of increased risk
- Correspondingly frequencies have been reduced in areas of lower risk
- Currently there are 4 levels:  
3 monthly; 6 monthly; 12 monthly and 24 monthly

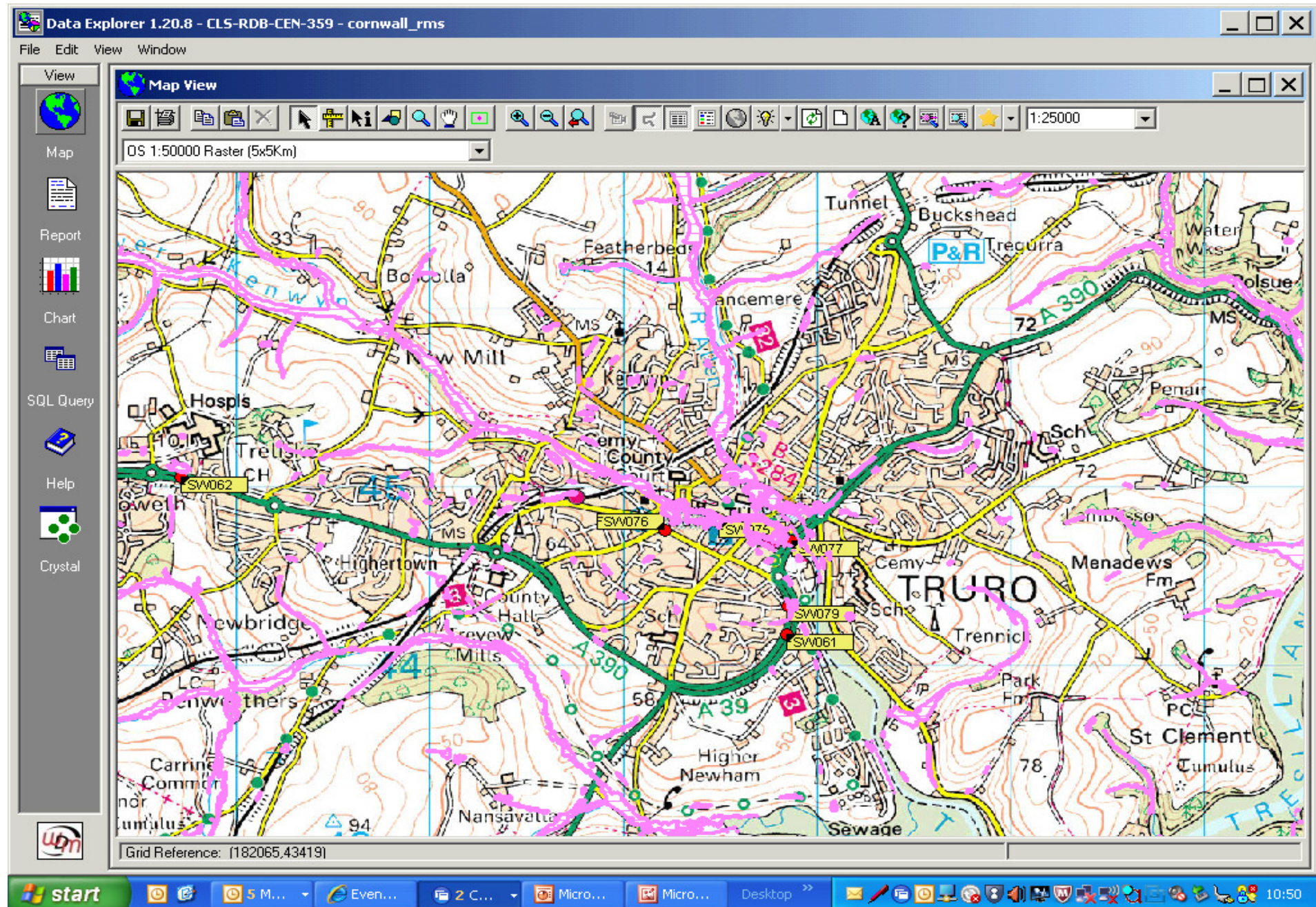


## Flooding Hotspots





# Surface Water Flooding

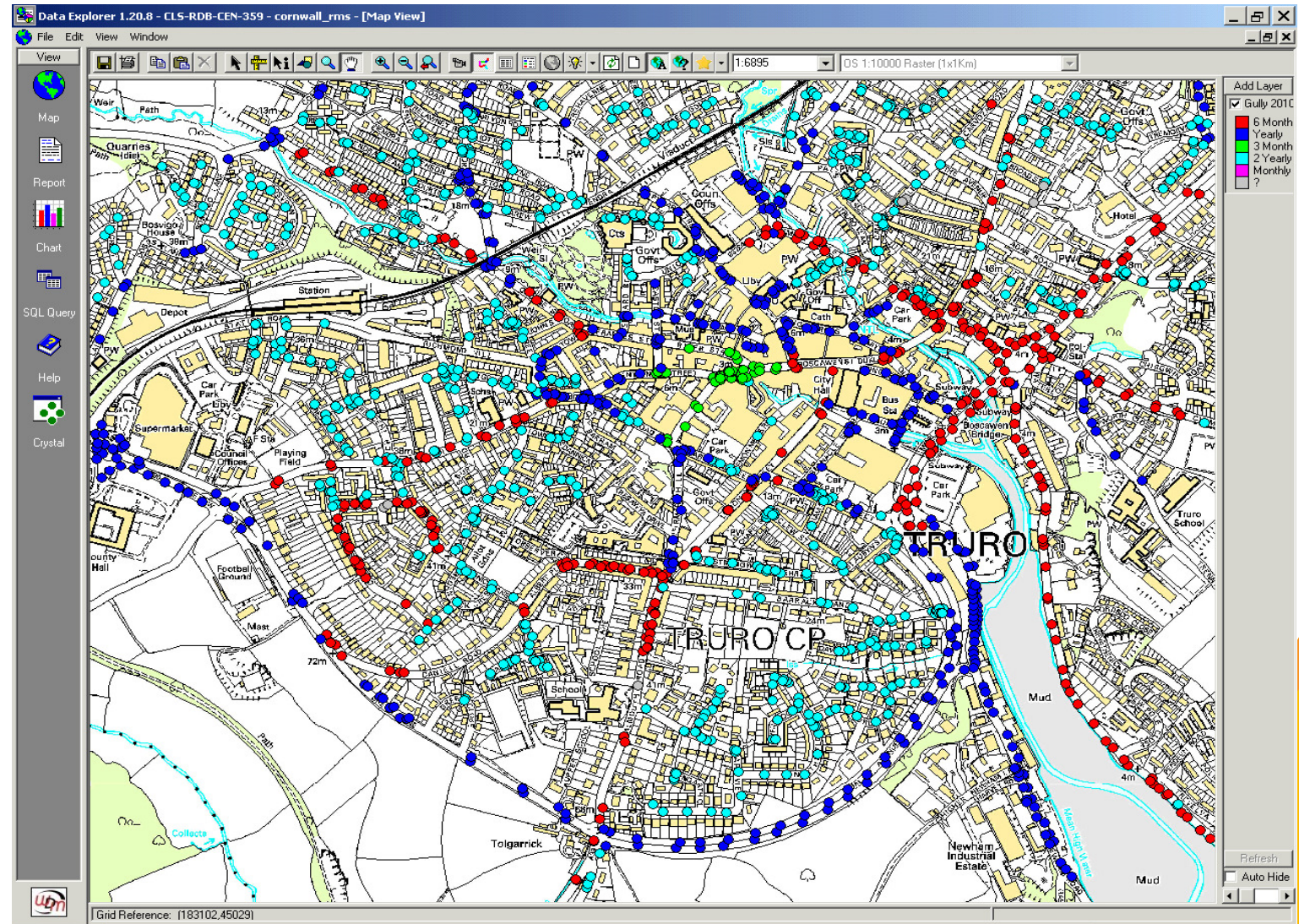




# Gully Emptying Programme

## Cleansing Frequency

Monthly  
3 Monthly  
6 Monthly  
Yearly  
2 Yearly



# Conclusion

- An asset management approach assists in:

Identification of risks and priorities

Quantification of risk

Allocation of resources

Demonstration of Service Standards to be delivered