The Industry Viewpoint

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Where did we start?
Ages of London’s water mains

1844
1896
1905
1921
1935
1945
1959
1965
1990

Laying a Water Main in Hampstead 1851
Where are we now?

UK WIR

MAINS AND SEWERS
Points to note

- No location dimensions
- 2-D representation only
- No composite picture
- No service connections shown
- A number of utilities missing
  - Cable TV and non BT comms
  - Surface water drainage
  - Street lighting cables
  - Traffic control loops
The size of the works

According to sources:

- Social cost of Utility excavations is £4 billion/yr
- Water companies dig 500,000 holes/yr
- Gas, electricity and telecoms dig 250,000/yr each
- Many jobs take longer than they should because of poor information
- One job quoted where records show 6 utilities but a further 19 were discovered
And there are the costs

- Direct costs:
  - TMA Road occupancy costs
  - Repairs and claims
  - Job delays
  - Extra trial hole requirements, particularly for trenchless methods

- Social Costs:
  - Road delays
  - Loss of customer service/revenue
  - Health and safety of the workforce

Damage to Transco plant 2004

Over 26000 incidents
Trenchless installation vs open cut

Keyhole techniques

Viking Johnson Easiclamp
What does a successful MTU2 project mean to the industry?

- Step change in carrying out streetworks
- Reduced costs
  - Of work and more efficient ways of working
  - Of road occupancy
  - Of utility strikes
- Reduced disruption
  - To traffic
  - To customers
- Improved asset mapping