Mapping the underword
ALL Water Service operators in Scotland, Northern Ireland, England and Wales

Dr Mike Farrimond
UKWIR Director
Today’s agenda

● Introductions

● Why do we need to do this?
  • Kirklees District Council
  • TRL
  • BT
  • Transco
  • NGT
  • Thames Water
  • Ordnance Survey
  • Trenchless Technologists

  Frank O’Dwyer
  Marilyn Burtwell
  Mark Steele
  John Meehan
  Simon Sutton
  Mike Shepherd
  Marc Hobell
  Dec Downey
Utilities are the Veins and Arteries of our Cities ......
and yet, we know very little about where they are

Communications
Gas
Oil/Petroleum
Sewerage
Road drainage
Power
Steam
Water
District heating
Street lighting
Traffic control
The challenge
Buried assets in UK –

- Gas – 275,000
- Sewers – 353,000
- Electricity cables – 482,000
- Water – 396,000
- Highway drains - ?
- Telecomms – ?

About 150m for each person

Millions?
20 different Cable companies installed assets beneath the City of London!!
The Strand is disrupted by 160 roadworks in 12 months

By Ross Lydall, Local Government Correspondent

The Strand: riddled with roadworks
The frustration!!!!!!

- Camden High Street in London has been dug up 144 times in a year
- Glasgow's Great Western Road, 223 times
- London’s Oxford Street, with 288 times-more than once every working day
Congestion costs in EU

UK costs – at least £2Bn pa
US Congestion Survey

Exhibit 12. Annual Cost of Congestion

- 75 urban areas, $70Bn, $520/person
## Accidents – underground cable (unintentional contact)

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Thames Water to pour £1bn into crumbling mains

By Angela Jameson
Industrial Correspondent

THAMES WATER plans to spend £1 billion replacing more than 1,000 miles of crumbling Victorian water mains in Central London over the next five years.

The water company said that mains replacement was the top priority in the capital if London’s water supply was not to be jeopardised.

The urgency of the massive project has been intensified by last year’s exceptionally dry summer and by forecasts that London’s population is set to grow rapidly.

Inner London boroughs, including Islington, Camden, Westminster, Hammersmith, Fulham, Kensington and Tower Hamlets all have mains that need replacing.

A pilot mains replacement programme, begun in Brixton in 2002, has been extended to 11 other areas and another ten areas are under development for 2004.

By the end of March Thames Water will have spent £53 million on the project, replacing 68 miles of mains.

Thames has promised to minimise disruption to the capital during the replacement programme by working closely with other utility companies, local highways authorities and

John Sexton, managing director,

need leaking water mains replaced.

A third of the water mains network in the capital is more than 150 years old, and more than half is over 100 years old.

John Sexton, managing director,
The UK Government’s view...

“We’re determined to do more to prevent the endless disruption caused by roadworks in towns and cities”

Source: Alistair Darling, 1 April 2003
The process

Find the problem

Fix the problem

Fill the hole

As quickly as possible
From This.....

..to This
What is needed!!

5 cm in 3D
Thank you

www.ukwir.org.uk
Locating buried assets?