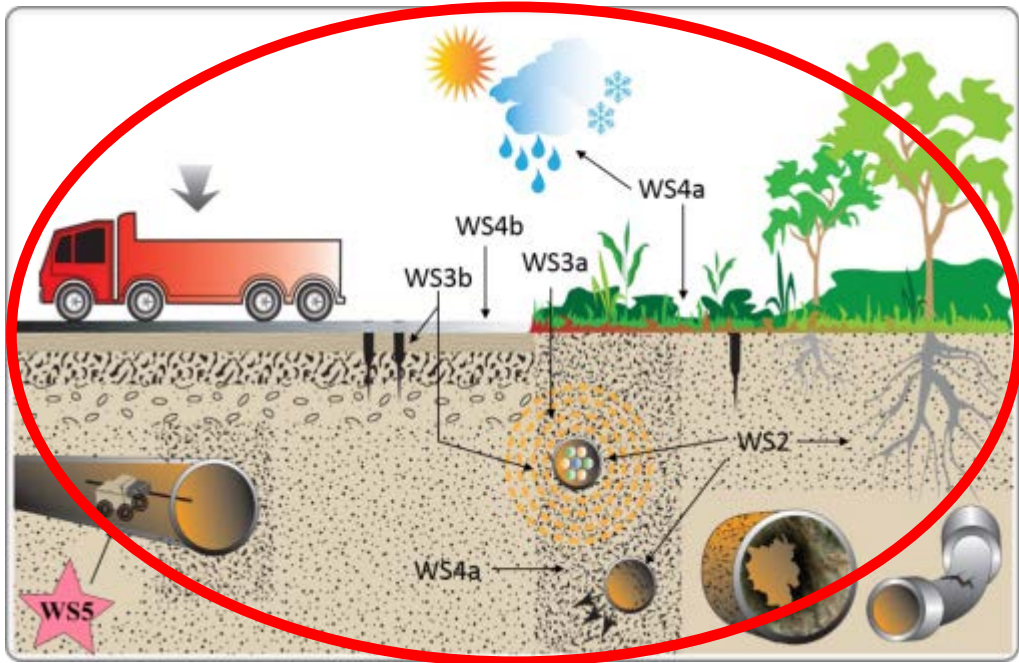





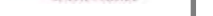






# ATU's Annual Event Introduction to the Day

Chris Rogers



# Schedule

	10:30	<i>Arrival, Exhibition Viewing and Refreshments</i>
	11:00	Introduction by Chris Rogers
	11:10	The Wider Context: A More Sustainable Approach to Streetworks
	11:30	Decision Support: Enabling A More Sustainable Approach to Streetworks
	11:50	Sensor Technologies for Assessing the Underworld – Advancing the State-of-the-Art
	13:00	<i>Lunch and Exhibition Viewing</i>
	13:40	Poster Elevator Pitches (1 minute each) and Poster Session
	14:10	Workshop Session: “How does what we are doing solve your problems?”
	15:00	Mapping the Underworld – Results from a Field Trial
	15:10	Linking to Future Cities Agenda: Valuing the Underworld
	15:30	Plenary Discussion: ATU’s Place in the Bigger Picture
	15:55	<i>Wrap Up and Close</i>

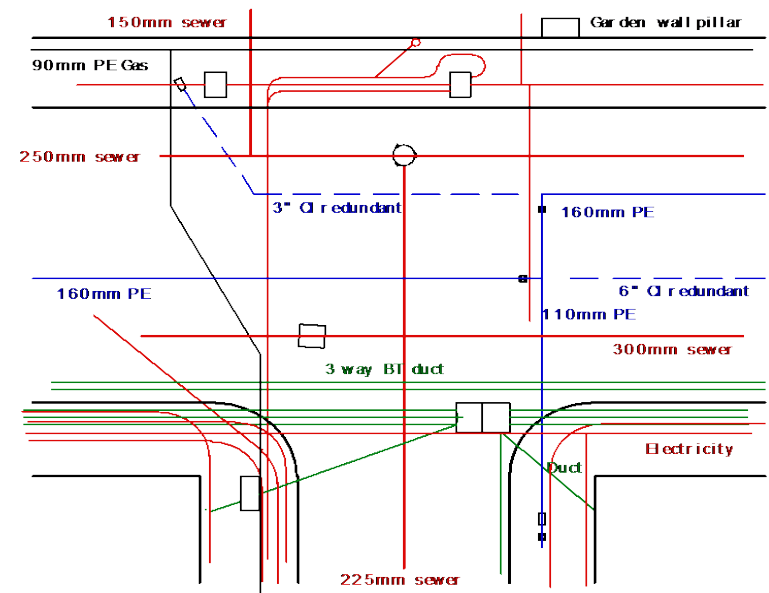
# Aims of the Day

Bring you up to date with our research on sensor technologies and their potential to reveal the state of our infrastructures ... **and seek you inputs**

Explore how we might bring about a transformation towards more sustainable engineering of streetworks – we will explain our thinking, and – **seek your advice on how well it addresses your problems**

**Collectively** advance our ideas on the role of non-invasive sensor technologies in the engineering of future cities

Pose the question: **what more might we do?**

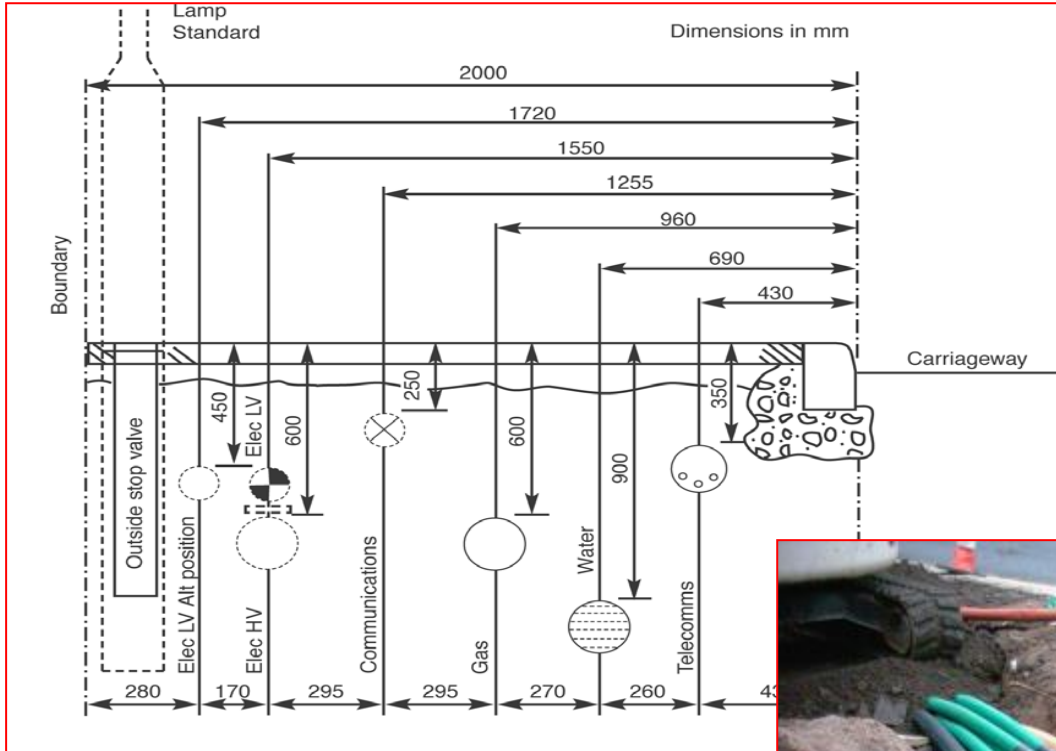
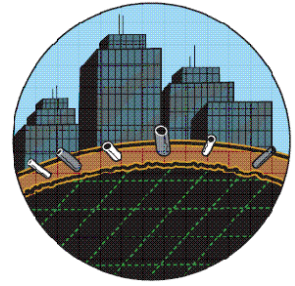


# Capturing Your Thoughts

	10:30	<i>Arrival, Exhibition Viewing and Refreshments</i>
	11:00	Introduction by Chris Rogers
	11:10	The Wider Context: A More Sustainable Approach to Streetworks
	11:30	Decision Support: Enabling A More Sustainable Approach to Streetworks
	11:50	Sensor Technologies for Assessing the Underworld – Advancing the State-of-the-Art
	13:00	<i>Lunch and Exhibition Viewing – please collar the ATU team members</i>
	13:40	Poster Elevator Pitches (1 minute each) and <b>Poster Session</b>
	14:10	<b>Workshop Session: “How does what we are doing solve your problems?”</b>
	14:50	Mapping the Underworld – Results from a Field Trial
	15:10	Linking to Future Cities Agenda: Valuing the Underworld
	15:30	<b>Plenary Discussion: ATU’s Place in the Bigger Picture</b>
	15:55	<i>Wrap Up and Close – and please keep in touch</i>



# The Problem



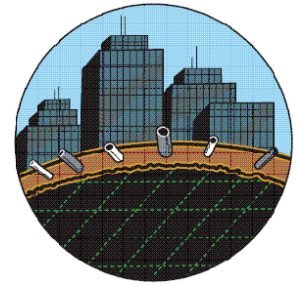
The theory ...

... and the practice



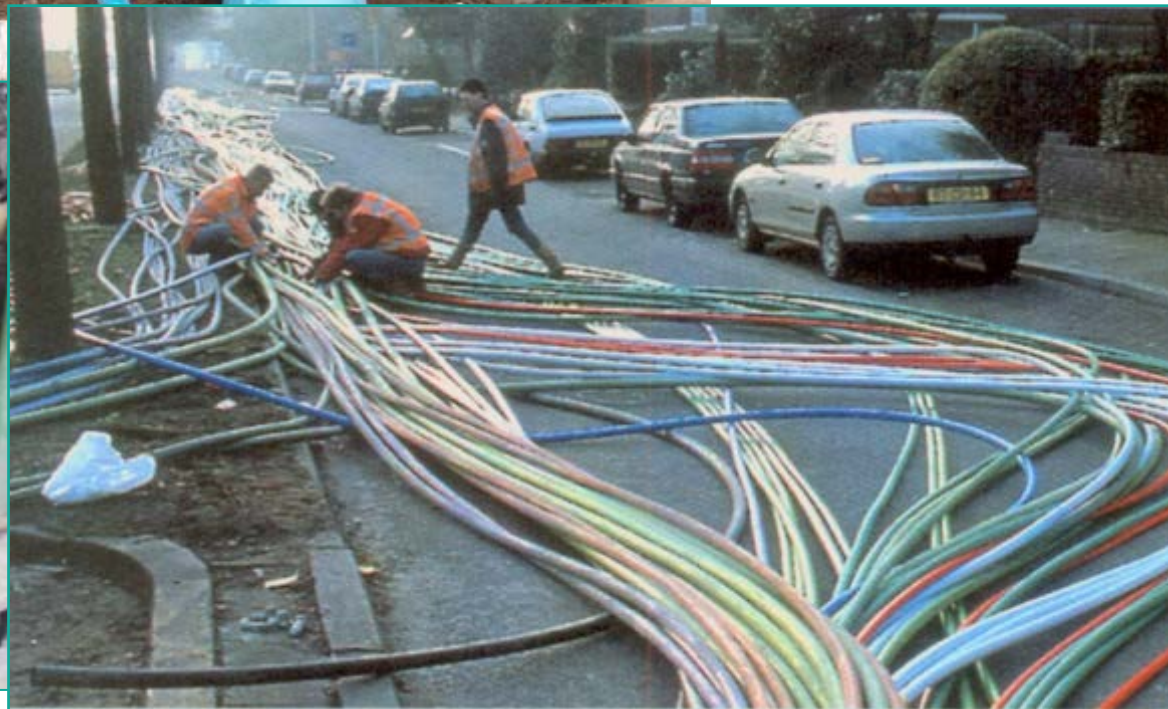
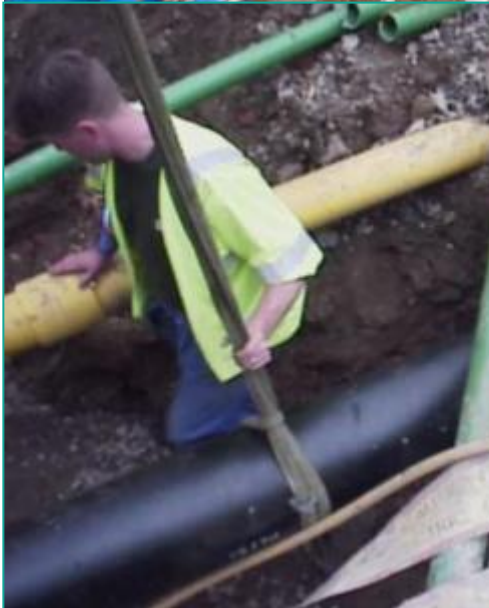


# The Problem



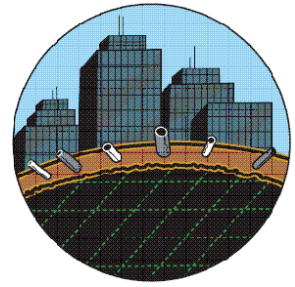
The old and the new ...

... and very new





# The Problem



- UNIVERSITY OF BATH
- UNIVERSITY OF BIRMINGHAM
- British Geological Survey
- EPSRC  
Engineering and Physical Sciences Research Council
- UNIVERSITY OF LEEDS
- Newcastle University
- The University of Sheffield
- UNIVERSITY OF Southampton
- UKWIR



# Questions ?

