



## Work Package 2.5

# Integrated cooling, heating and storage

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3 years PhD research project that focuses on the London Underground network and Ground Source Heat Pump systems in London.

## The contributors

### Supervisory team

**London  
South Bank  
University**

- Dr Issa Chaer
- Dr Maria Mavroulidou
- Professor Graeme Maidment
- Dr Jolyon Thompson



### Research student

Akos Revesz

#### Qualifications:

- BSc degree - Environmental Engineering
- MSc degree - Sustainable Energy Systems

#### Related Experience:

- MSc Dissertation: Real life performance analysis for Ground Source Heat Pump in the UK
- Research Assistant: LSBU Centre for Air Conditioning and Refrigeration Research group

## The aim of the project

Investigate the interaction of Ground Source Heat Pumps in London with the London Underground network.

## Deliverables

- List of parameters which influences the interaction
- State equations which define the heat transfer between the two systems
- A model that will enable...  
To determine the regions of interactions  
Quantification of interactions

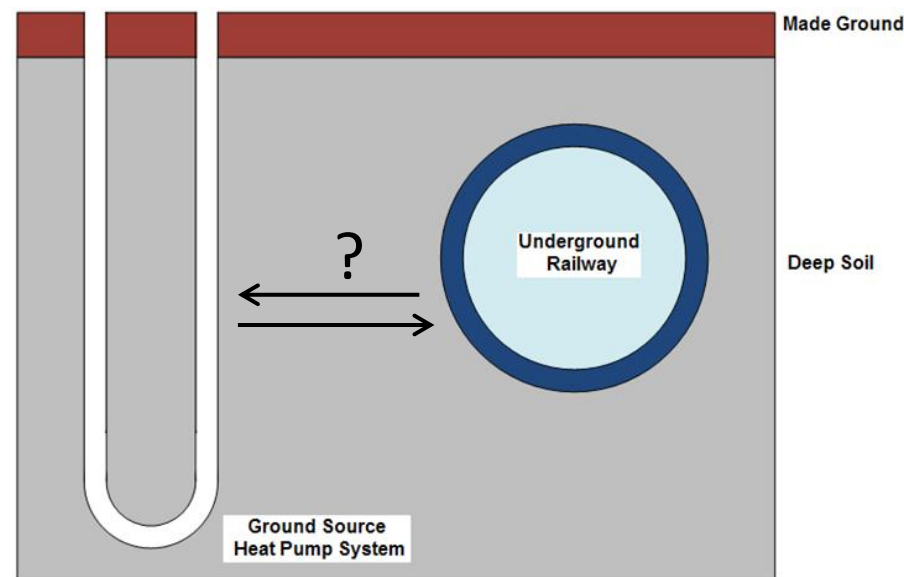


Figure 1. The concept of the project

## Contribution to knowledge

The model will be the first developed that will produce generic mathematical analysis of these interactions.

# Thank You for your attention

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