GROUND TRUTH IN DIGITAL DUBLIN: DEEP MAPPING IN VIRTUAL REALITY

"Thousands of electronic eyes and ears continuously capture the city's unfolding, interwoven narrative threads, and spin them out into cyberspace.…In countless spatially and temporally displaced, inherently ambiguous fragments, Dublin electronically doubles itself"

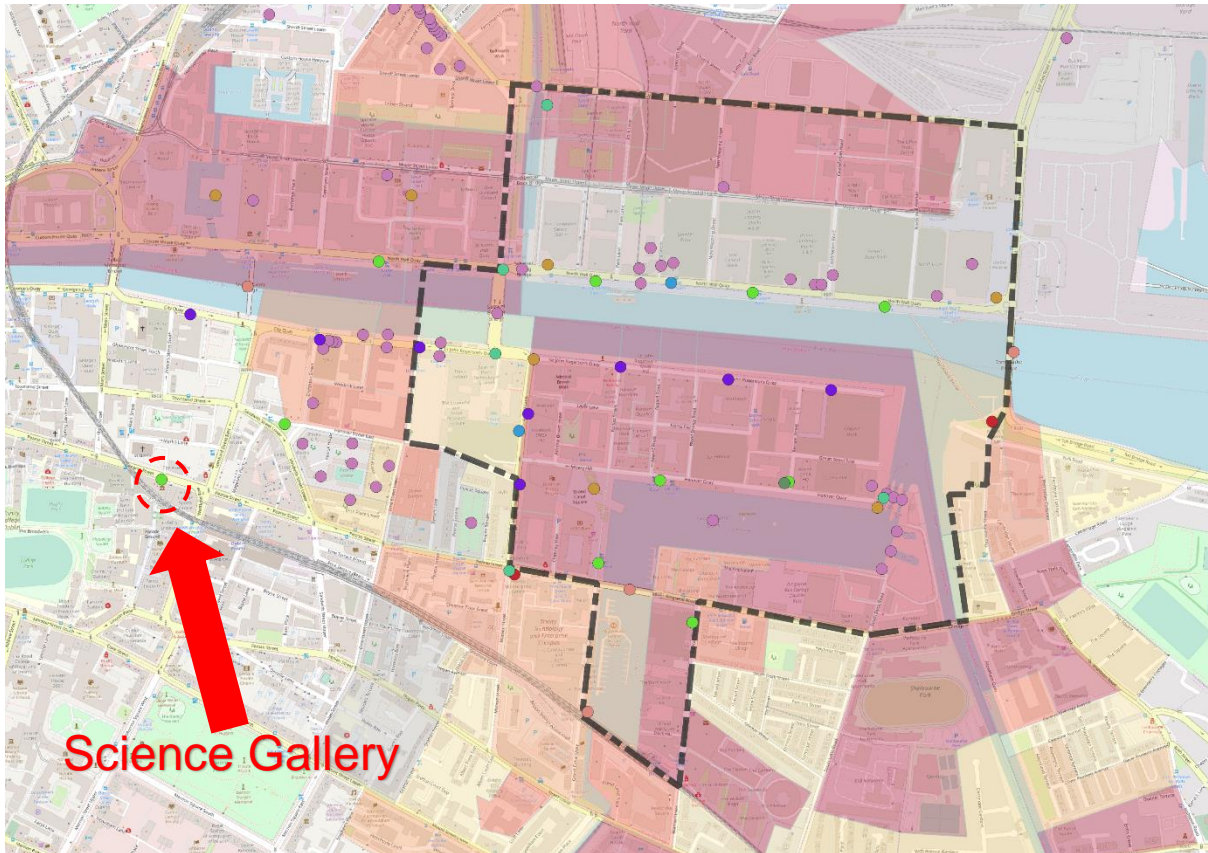Mitchell, W.J. 2002. 'Electronic Doublin'. Volume Project

Session Outline

In this session, the BCD team will demonstrate a Virtual Reality application showing the ways in which different media captured during the practical activity can be used to create the Dockland's own three dimensional double or Digital Twin. You'll learn how to capture a range of urban data, including photoreal 3D models that can be generated from a collection of photos, taken with nothing more than a camera phone. The BCD team will then lead an expedition (on foot) into the Dublin Docklands where you'll capture sound, still images and 360-degree videos. Back in Science Gallery Dublin, the BCD team will demonstrate a Virtual Reality application showing the ways in which different media captured during the practical activity can be used to create the Dockland's own three dimensional double or Digital Twin. They'll also give you some take-home info on how you can use this process in other settings. The session will wrap up with an open discussion on the uses and applications of publicly available data, and questions about data privacy and ethics.

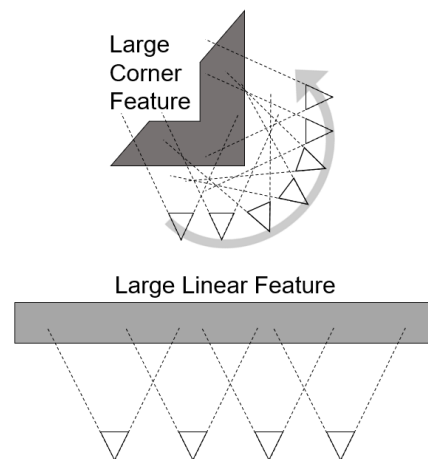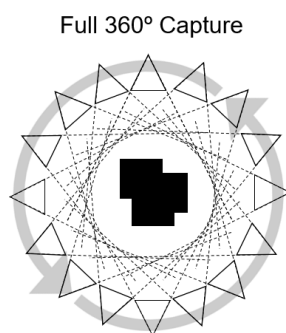# Ground Truth in Digital Dublin: Deep Mapping in Virtual Reality

Space of operations

Be back at the Science Gallery by 2:30pm

Data Capture Strategies

- Try to take pictures from all angles
- Take overlapping images
- Fill each image with the object of interest
- Include the background
- Avoid reflections and transparent objects
- Avoid single coloured surfaces
- More images are better than less

Full 360° Capture

Large Corner Feature

Large Linear Feature

Session Materials and Guides

Read online or download here: https://github.com/virtualarchitectures/Ground_Truth_In_Digital_Dublin

1. Click the green 'Clone or download' to the right of the page.
2. Select 'Download ZIP'.
3. Extract the downloaded files on your computer.