

University of  
**Salford**  
MANCHESTER

**Digital Cities**  
Envisioning  
city futures

[www.thinklab.salford.ac.uk](http://www.thinklab.salford.ac.uk)



**THINKlab**

# Digital Cities

## Creating healthier, wealthier and safer cities for the future

Creating sustainable cities requires a stronger collaboration between a range of public and private sector organisations to ensure cities are safer, healthier, intelligent and prosperous places for citizens to experience an enhanced quality of life. In response we have developed a range of novel technology platforms that will allow public and private organisations in a city to utilise the power of their data intelligence to make collective evidence-based decisions to address the challenges faced by cities. We have an experienced R&D team to develop customised technology platforms for bringing city information into a discussion space through advanced visualisation and interaction technologies.

### We are specialised in the following areas:

- Facilitating collaboration among city stakeholders.
- System platforms that integrate dispersed data sources for creating integrated information spaces for cities.
- Data mining that can extract patterns and correlations.
- Advanced visualisations of complex social, economical and environmental datasets over 2D and 3D city models.
- Easy to use interfaces for exploring “what-if” scenarios.

Our technology can be used to develop and implement new partnership models for delivering various policy agendas as well as engaging with local communities in bringing local visions to life.

"THINKlab provides inspiring and inclusive approaches for discussing future strategies and bringing innovation into organisations. We plan to use the THINKlab to bring innovation into the Environment Agency and explore new ways of working with our partners."

**Gordon Whitaker, AEM, Environment Agency**



### **Interactive Platform**

Our digital city platform can integrate a range of social, environmental and economical data on a physical representation of your city. It can be presented on a range of displays such as touch screens, multi-touch tables and on virtual reality screens such as a Powerwall. Interaction and exploration of the digital city can be done through hand gestures or 3D interface device.



### **Flood Simulation**

In collaboration with the Environment Agency a digital city platform has been developed to demonstrate the impact of floods around the river Irwell near the University of Salford. It allows flood resilience teams to explore the impact of floods on the built environment as well as the natural environment and take steps towards building flood resilience.



### **Better Life Chances**

This multi-agency project brought together a range of un-connected social datasets to model the social dimensions of a socially deprived area in Salford. It demonstrated how such an information rich virtual city could be used to understand challenges faced by various agencies and explore new partnership models to reduce the cost of service delivery while improving the quality.



### **City West**

This technology platform was developed to demonstrate how disconnected data sets within the City West Housing Association can be integrated to produce efficient maintenance programmes and engagement with tenants.

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