Peter Fitzgibbon, Editor

Come hell AND high water



Parts of the UK found themselves inundated as Storms Ciara and Dennis rampaged across the country in mid-February. And once again, MPs were queueing up in the Commons for reassurances that we would be better prepared for floods in the months and years

Better forecasting is certainly welcome, and here, Steve Ramsdale, Chief Meteorologist at the Met Office, has some good news: "Our confidence in the forecast means we have been able to issue severe weather warnings well in advance, giving people time to prepare for potential impacts of the storm.

On the other hand, the £600 million spent annually on flood defence and

alleviation measures is being outpaced by the increased frequency and intensity of rainfall, exacerbated by urban sprawl, poor drainage maintenance and rising sea levels. But even as defence measures are implemented at one point, weaker points elsewhere come under added strain. Political and economic considerations will doubtless influence many decisions, but predicting the knock-on effect is still important to local communities,

Which is where flood risk mapping and modelling enters centre stage as an important tool for planners, developers, mortgage lenders, insurers and home owners alike. This discipline is likely to gain added impetus from recent ground-breaking

projects that apply Machine Learning and Al techniques to high resolution DEM-based flood hazard models.

One such initiative, with funding from Innovate UK, has seen flood risk assessment specialists Ambiental teaming with Al solutions provider DataJavelin to develop a new generation of simulation tools that accurately reflect reality. And for those who fear ML will displace hydrologists and others, Dr. Philip Rooney, CEO of DataJavelin, offers reassurance: "It provides experts with the ability to carry out experimentation that they just couldn't do before. The idea is to give them a powerful tool so they can do their job even better.'

NEWS EXTRA

Bluesky International Launches MetroVista 3D **City Models Online**

Highly accurate, UK city wide 3D models are now available to view and download from Bluesky International's online Mapshop. The geographically accurate, photo realistic MetroVista mesh models are available in a variety of formats ready for use in 3D GIS, CAD and other modelling software as well as visualisation, gaming and Virtual Reality workflows. Captured using Leica's world's first large format imagery and LiDAR hybrid airborne sensor and generated in Skyline's PhotoMesh software, the Bluesky MetroVista datasets of major UK cities are available online offering a compelling alternative to traditional photogrammetrically produced models. MetroVista mesh models are generated using data captured by Bluesky's CityMapper sensor. Specifically designed for 3D city modelling and urban mapping, the system includes a traditional vertical camera as well as survey-grade oblique cameras. The CityMapper also includes high performance LiDAR technology to accurately collect elevation dataeven into the shadows which are common in urban environments and can make photo-based collection difficult. www.bluesky-world.com





and Artificial Intelligence to provide smart data - in particular for global environmental applications. www.4earthintelligence.com

MGISS and vGIS Take a Geospatial View of Augmented Reality

The development of Augmented Reality as a tool to manage and visualise hidden infrastructure assets has taken a major step forward following the announcement of a partnership between two technology companies. MGISS, a UK geospatial specialist, has partnered with Canada based vGIS to transform traditional GIS, BIM and CAD data into stunning Augmented Reality visualisations. Augmented Reality provides an interactive experience of an

environment where objects that reside in the real world, such as underground pipes, are displayed and enhanced with additional intelligence such as attribute information and maintenance records. By combining authoritative survey grade positions and associated data with consumer grade hardware MGISS enables users of vGIS to access Augmented Reality visualisations from any suitable smart device. www.mgiss.co.uk

