

Stronger, safer, wiser

Sharing the knowledge

Japan will soon be embarking on an extensive post-disaster reconstruction programme in the aftermath of a devastating earthquake and resulting tsunami. Dr Richard Haigh and Professor Dilanthi Amaratunga, from the Centre for Disaster Resilience, School of the Built Environment here at the University, are all too familiar with the challenges facing the country in the coming months and years. Much of their recent research enabled them to witness the devastating impact of the 2004 Asian Ocean Tsunami, particularly in Sri Lanka. However, as Richard and Dilanthi emphasise in their soon to be released book, the post-disaster period also offers a window of opportunity to tackle disaster risk in the affected areas and confront underlying problems in the local economy.



ver the past few weeks, much media attention has been Japan has as significant advantage in the recovery process over focused on Japan, as it deals with the impact of the countries in developing economies as it has a highly capable earthquake. The affected areas are clearly in need of both construction sector with a reputation for integrated teams of subcontractors, high levels of prefabrication and a military emergency relief and long-term rebuilding, Richard said: "so far, the emphasis has been on an emergency response and approach to logistical planning. Japan also has the benefit humanitarian relief, including rescue, shelter, food, and medicine. of considerable post-disaster reconstruction experience e.g. following the end of hostilities in August 1945 and such as the Unfortunately, much of this relief work has been delayed by the on-going radiation threat from the Fukushima nuclear plant. rebuilding effort post Kobe in 1995. The areas affected by the Tsunami However, as the situation stabilises, we can expect the priorities to in March this year were already in long term decline, and although the move toward re-establishing some type of social and economic order, region now finds itself in a tragic situation perversely, it is also an ideal which relies on a complex network of infrastructure lifeline opportunity for the government to generously fund reconstruction and systems, including roads, water supply, sewers, power grids, reinvigorate economic development of the north-east coast. telecommunications, schools, hospitals and civic buildings. The damaged transport infrastructure will be placed under strain due Richard continued: "These are some of the issues that Dilanthi and I to the need to remove debris and deliver large volumes of are guiding on through our role as Academic Advisors to the UNISDR materials and humanitarian supplies. At the same time, the Making Cities Resilient Campaign, which is helping cities and local damage in Japan has disrupted production of automobiles, governments to get ready, reduce the risks and become resilient to computer chips and a range of other goods, and could force disasters. The frequency, scale and distribution of disasters in recent prolonged shutdowns in key areas of the country's economy. years is evidence, if any is needed, that hazards, of both natural and man-made origins, are a global problem, threatening to disrupt Restoring the affected communities' lifeline systems to an communities in developed, newly industrialised and developing operational state will be at the heart of restoring social and countries. Recent events are a timely reminder that the developed economic organisation in the communities. Although the coming world cannot afford to be complacent".

weeks will focus upon reinstating and installing base-level infrastructure to guickly put affected communities back on track, it In May, Dilanthi and Richard will be attending the UN led Global will be vital that reconstruction plans are not seen as a simple Platform in Geneva, a biennial forum for information exchange, restoration of buildings and infrastructure to their conditions prior to discussion of latest development and knowledge and partnership the incident. Recovery can and should involve rebuilding building across sectors, with the goal to improve implementation beyond the previous condition to a superior standard that is more of disaster risk reduction through better communication and resilient against future disasters. This may include efforts such as coordination amongst stakeholders. Recent events will most improving materials and construction methods to increase the strength certainly focus the minds of those attending. of buildings and infrastructure, establishing redundancies in the infrastructure network, and improving the common links between If you would to know more about the Centre's research contact: transportation modes and communities" r.p.haigh@salford.ac.uk or visit: www.disaster-resilience.co.uk

