



CARDIFF MILLENNIUM STADIUM CARDIFF, UK

Buro Happold's Smart Space team were appointed to support Stride Treglown on this significant masterplanning work at Cardiff Millennium Stadium. The objective of our work was to optimise holistic pedestrian flows from the railway station, integrating with the bus station and vehicular and pedestrian access to the Millennium Stadium and local venues. Given the close proximity of the Cardiff railway station to the 74,000 capacity Millennium stadium, major congestion and operational management issues are observed at the station entrance at the end of a sports or music performance at the stadium. The existing scenario requires significant management of the station operations and stewarding outside the station due to non-optimal queues positioning and conflicting flow directions.

Starting with crowd flow surveys and liaison with all key stakeholders, our work informed the Masterplan design as well as the wayfinding, signage and queue management during busy events. Using detailed models of a range of crowd

flow scenarios we helped optimise the queuing system, maximising the use of the available space outside the station, as well as providing advice on other factors influencing crowd control. This included the position of street furniture and signage to minimise pinch points on the routes, as well as advice on construction phasing for the adjacent development.

The work was done in conjunction with the Cardiff City Council, the Police, Network Rail, Aviva and representatives from the Millennium Stadium.

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Smart Space - People Flow & Space Analysis