



THAKHER CITY MASTERPLAN SAUDI ARABIA

The Smart Space team are providing key pedestrian flow advice for the development of Thakher City to optimise the design and ensure visitor comfort. The proposed site is located 1km North from the Holy Mosque in Makkah. The site will consist of multiple hotels with an estimated capacity of 250,000 occupants. The site will include on-site public transport in the form of an electric tram system.

Our work on Thakher City and a number of other developments in the region suggests that the fundamental drivers for the design are focussed around the "experience" of the pilgrim during Umrah and Hajj. The major components of this experience are safety, comfort and accessibility during the internal, site-wide movements as well as the movements to and from the Holy Mosque. Crowd flows will be a crucial aspect of the design, so will be safe, efficient egress and ingress during prayers and emergency conditions.

Our work focused on advising the architects on defining and enhancing the comfort and safety aspects of pilgrim movements across the whole site. Our study identified and modelled the critical scenario of pilgrims departing from the hotel site for morning prayers. The output from this study was used to inform the walkway, escalator, stair and lift provisions at the site's single exit point.

In addition our work investigated the impact of an additional access route to the site on reducing travel distances and times.

CLIENT
T.R Hamzah & Yeang Sdn Bhd

SERVICES PROVIDED BY
BUROHAPPOLD
Smart Space – People Flow & Space Analysis