



GSK LAB SPACE MODELLING STEVENAGE, UK

Buro Happold's Smart Space team are working with Gensler to provide information based modelling relating to measuring laboratory interaction and efficiencies. The aim is to improve the design of future lab space to enhance collaborations between scientists whilst maintaining spaces for individuals to work effectively on their own.

To model typical daily activities and interactions of the scientists a limited data set collected by tracking a small sample of individuals was scaled to represent all scientists in the lab. Using our in-house simulation software SMARTMove, a dynamic model representing these movements and activities was created. The model was used to assess the current performance of the lab space in terms of density, footfalls and utilisation.

Working with Gensler a new "Interaction Potential" feature for SMARTMove has been developed to identify the likelihood for interactions across a spatial layout. This analysis accounts for the environment of

different spaces and the likely effect it will have on potential interactions occurring in each space. For example, high noise levels due to heavy equipment may make interactions less likely. The analysis highlighted areas where most impromptu interactions are likely to occur in the current design.

We are continuing to work with Gensler to help inform the design of the new lab space to optimise the layout for interactions and efficiency.

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