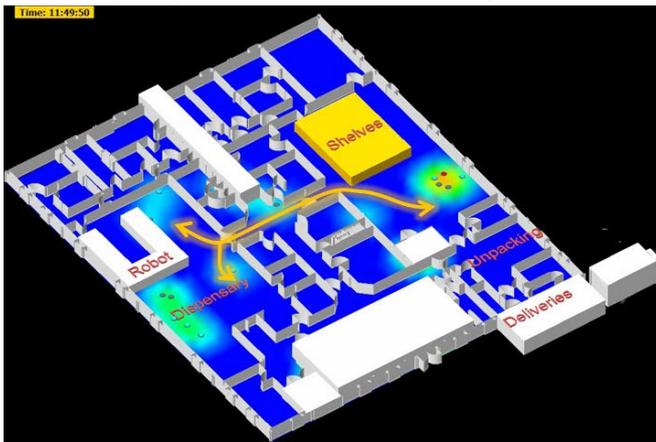
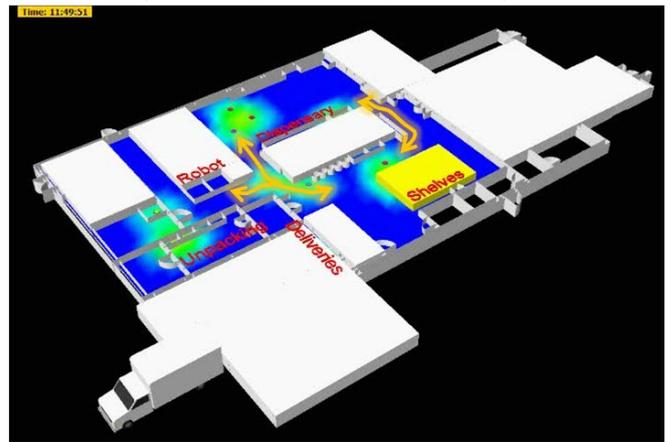


Existing layout



Proposed layout



## ROYAL UNITED HOSPITAL - PHARMACY BATH, UK

As part of a major site reconfiguration at the RUH, a new Pharmacy building is being provided to replace the existing department. The pharmacy is an extremely active department with a number of processes and tasks running in parallel. Key to the success of the pharmacy is the efficiency of processes within it. This efficiency is dependent on the layouts of the equipment and storage facilities.

By optimising the layouts of equipment and storage it is possible to reduce non-productive time (defined as staff time spent walking between activities). Vital to understanding the complex movement patterns of staff are the frequency, dwell time and order of visits to locations. Using our Smart Space methodology the department layout has been optimised to enable safe, efficient, and comfortable staff movements. Our work has focused on capturing and analysing current staff flows and using them to identify opportunities to optimise the future design.

A comprehensive survey capturing staff flows, frequency and dwell times at key activity areas was conducted and the data analysed to provide a high level review of the performance of the existing Pharmacy. This thorough understanding of current activities in the department enabled us to identify key adjacencies to be optimised and provide recommendations for the future layout. For example, the analysis of staff flows highlighted the need for a strong interface between the stores area and dispensary area, which has been incorporated into the new design.

Dynamic people flow modelling has been used to validate the improvements in efficiency of the new design. By optimising layouts and providing a stronger interface between the stores area and dispensary area, our study has found a potential overall saving in non-productive time in the order of 24%.

### CLIENT

Royal United Hospital Bath NHS Trust

### SERVICES PROVIDED BY BUROHAPPOLD

People Movement, Building services,  
Acoustics