

Health Prototyping Centre



Room Data Sheets Redesign

CASE STUDY

Client name

Health Infrastructure, Australasian Health Facility Guidelines (AusHFG)

Location

NSW, statewide

Product/service delivered

The Health Prototyping Centre was used to rapidly prototype and redesign room data sheets, which is a key document in health facility infrastructure projects.

Key benefits of using the Health Prototyping Centre

- -Provides a dedicated space, including a range of clinical simulation suites and equipment replicating common pathology, acute care, and home care settings
- -Allows teams to focus on problem solving away from everyday working environments
- -Enables the easy simulation of workflows
- -Provides a team of technical and design experts to support the evaluation
- -Supplies tools and technology to support the development of prototypes
- Includes replication of the NSW Health technology stack to support integration and functional testing
- -Supports the recruitment of test users for projects – both patients and clinicians

The challenge

The Australasian Health Facility Guidelines (AusHFG) represent a significant set of freely available resources for health services and project teams across Australia and New Zealand. They support better planning, design, procurement, and management of health capital assets.

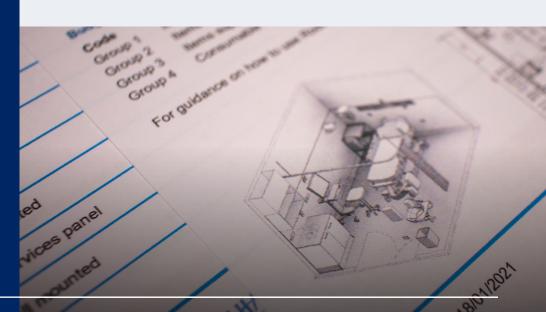
The AusHFG consists of around 230 Standard Components that provide detailed design guidance on commonly used rooms and spaces in health facilities. For example, handwashing basins, consult rooms, medical imaging rooms and operating rooms. Each Standard Component consists of two documents: Room Layout Sheet and Room Data Sheet (RDS).

The focus of this redesign project was the RDS. It details room function and requirements, finishes, fittings, furniture, equipment and services items.

The team identified several challenges with the use of current RDS, including:

- difficulty finding and understanding information in the document; the design is cluttered with many tables and figures
- some information is not included; staff often have to cross reference with other guidelines and documents
- hard to identify and test optional items for potential inclusion in the room
- difficulty meeting the needs of a wide range of users; knowledge varies in relation to health design and construction.

The new design also needed to align with existing guidelines and systems held by AusHFG.





The plan

Representatives from Health Infrastructure, AusHFG and dRofus (a vendor of infrastructure planning and data management software) collaborated to redesign the Room Data Sheet. They used the Health Prototyping Centre (HPC) for their design sprint.

On the first day, the team asked three key questions from a range of RDS users. Who uses the RDS, what are they used for and when are they used in a project. They collected insights to map out common user journeys. This highlighted pain points where the redesign could have the greatest impact.

On day two, the team sourced a variety of complex documents to get design inspiration. These included bank statements, product specification sheets, invoices, and real estate listings. They used these learnings to sketch ways to make the RDS easier to use. The team started to redesign different parts of the document. They also identified new information to include.

Over the week, this design was modified and combined into two working prototype documents. These were tested with current users, including architects, engineers, health planners and project managers.



"Using the design sprint process at the HPC allowed us to undertake so much exploration and then develop a testable prototype in three days, before getting valuable feedback on it by the end of the week. We could not have progressed the project so quickly without it. Having the space and time to have ideas challenged and validated with the workshop exercises in the design sprint was so valuable and contributed to an amazing outcome."

Shalyce Corney, AusHFG Standard Components Lead, Health Infrastructure



"I participated in a great prototyping session at the new HPC working with Gordon and our Health Infrastructure team. We spent two intensive days looking at the problem and possible solutions. This time was very well planned and structured, so no time was wasted. The process where we 'tested' the prototype with users through eight structured interviews was extremely valuable both in terms of improving the final product to be tested but also by using the experience and knowledge of planning and design experts."

Jenny Green, Service and Facility Planning, Program Director, Health Infrastructure

The outcome

Feedback on the prototypes was overwhelmingly positive. Participants confirmed that both documents were easier to read and scan quickly. Each used categorisation to help understanding and had a more logical flow.

The addition of graphics and colour helped reduce cognitive overload with one participant commenting, "It [the new layout] doesn't stress me out... it's actually quite calming."

One user suggested a more data-orientated view. Although an Excel version is already available, the feedback did highlight the value of providing alternative formats.

Using the feedback from user testing, the team was able to revise the document again for further testing. These changes are now being reviewed by stakeholders for endorsement.



The benefits



Using the Health Prototyping Centre enabled the team to:

- facilitate collaboration between three organisations in one place (Health Infrastructure, AusHFG and dRofus)
- gather a wide range of feedback from end users
- · identify problems that impact user experience
- use this information to quickly design a new document layout.

