

Quarterly update on the New Dunedin Hospital Digital Programme April-June 2025

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To:	Hon Simeon Brown, Minister of Health		
From:	Darren Douglass, Chief Information Technology Officer		
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Contact for further discussion (if required)

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Attachments

- Appendix 1: Outpatient Digital Diagram
- Appendix 2: Patient Journey with Opportunities

Purpose

1. This aide-mémoire updates you on the New Dunedin Hospital (NDH) Digital Programme for financial year quarter three, from 1 April to 30 June 2025.

Background

2. Prior to the health sector reforms, a business case was developed for Digital Transformation of the Southern Region at a cost of \$463 million over 10 years. This included a Southern-specific instance of a Digital Electronic Health Record (EHR) and online consumer portal, providing a comprehensive primary, rural and community ecosystem. This included Southland and Lakes District hospitals.
3. This was not progressed in its original form as part of Health New Zealand reforms. The Budget 22 tagged contingency for the NDH Digital Programme for both Inpatients and Outpatients is now \$225.5 million over 10 years.
4. Cabinet approved a revised NDH Outpatient Building Digital Programme detailed business case (DBC) with a budget of \$82.4 million for Outpatients only, drawn from the \$225.5 million. The remainder of the \$225.5 million will be subject to an Authority to Deliver (ATD) for digital delivery to support the NDH Inpatients building, in conjunction with the Inpatient Facilities IBC. As part of the Cabinet approval, it directed three-monthly progress reports to the Minister of Health.
5. The NDH Digital Programme is comprised of three workstreams:
 - a) Digital infrastructure;
 - b) Software solutions;
 - c) Digital readiness.
6. The first two workstreams are underway. These will enable the third workstream, and the model of care enhancements, to be delivered in the NDH Outpatient Building. The building is on track for practical completion on 31 July 2026, with operational commissioning scheduled for October 2026.

Benefits

7. Work to refine the NDH Benefits Realisation Plan is underway to ensure alignment with Government Health Targets and Health NZ reporting harmonisation activity.

Financial Overview

8. The total Outpatient Building digital budget is \$82.442 million. It is made up of Crown Capital (\$59.939 million), Crown Operational (\$8.303 million), and Health NZ Capital (\$14.200 million).
9. Project spend to date is \$21.258 million and the project is on track to deliver within the approved budget. There is significant spend planned between October 2025 and March 2026 as the digital infrastructure is ordered and arrives for installation in the building.

Digital Delivery Roadmap

10. Several digital solutions are part of the National Digital Facilities Framework for Major Hospitals roadmap and are new for Health NZ. Some are already in use and will be implemented for the Outpatient Building to safely operate as designed. All will be delivered with the objective of being re-used for upcoming and future Health NZ facilities

as part of the approved Digital Facilities Framework for all health infrastructure projects:

11. The full list of technology layers being implemented is available at **Appendix 1**.

Discussion

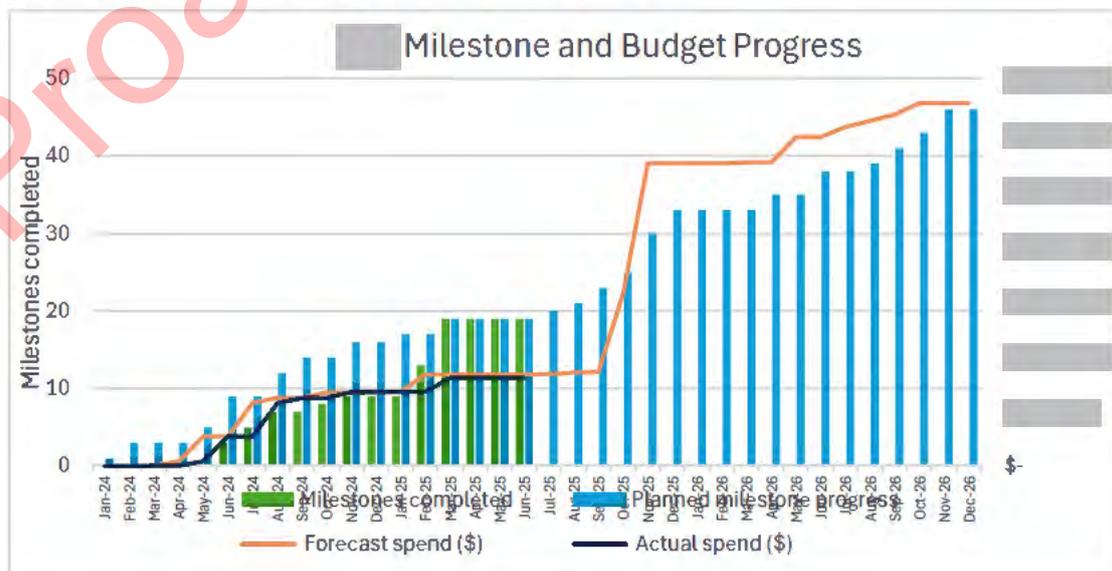
12. In this last quarter the digital project conducted an independent quality assurance review. The review found that while there remains work to be done, the Digital Programme is on track to be completed in line with the opening of the building.
13. The recommendations will be actioned where appropriate in the lead up to building opening. An approved management response will be provided as part of the next update.

Workstream One: Digital Infrastructure

14. This quarter has seen a concentrated effort on the tasks required to connect the new building by the end of the year.
15. The programme has placed the **first order for the new building** including firewalls, core networking equipment and servers. The equipment is due to arrive next quarter to allow for configuration before being commissioned in the building later in the year.
16. The programme has commissioned the **campus fibre links** between the existing campus and the new Outpatient Building. As this travels down State Highway 1, the New Zealand Transport Agency | Waka Kotahi (NZTA) were supportive through this process. We have engaged with local council and NZTA throughout this process.
17. We continue with work inside the **Digital Health Design Lab**. With a commissioned suite of technology, we have begun user demonstrations and updates based on feedback. The lab includes one of every type of the building systems, network components, facility systems and digital tools that will go into the Outpatient Building.

18. 

19. The digital infrastructure milestone progress graph below shows that progress is on track and spend is slightly less than the project plan.



Workstream Two: Software solutions

20. We have continued to develop and dive into deeper detail of the **patient journey** as updated previously (see appendix 2). This workstream has continued engagement with clinical and operational services on the improvements required to reduce paper and improve efficiency and patient safety.
21. The initial list of 32 opportunities has been refined down to 21 and we will establish a **prioritised list** of these with the hospital staff this **next quarter**. This quarter we established the technical architecture for Outpatients and this has been through national governance approvals.
22. The **clinic room scheduling tool** development environment has been set up and configuration has started. This will be integrated into the Te Waipounamu Health platform for potential reuse across the region in the future
23. We have made good progress on the **internal referrals** and **outpatient prescribing** modules as reported last quarter and will confirm delivery dates next quarter.
24. The internal referrals will **migrate off an inhouse developed app** to a South Island consistent process and the Outpatient prescribing will implement **an existing cloud tool** that uses New Zealand electronic prescribing service (NZePS), already in use by product out of the Northern region.



Next steps

33. For future reporting periods we will be using an integrated report that captures all four workstreams within the New Dunedin Hospital programme (Inpatient Building, Outpatient Building, Operational Readiness and the Digital Programme).
34. You can expect to see the first of this reporting structure in mid-September.

Appendix 1: Four digital layers of new Outpatient Building

New Dunedin Hospital

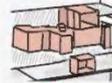
Passive Infrastructure, engineering systems

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Nurse Call

Communication solution in healthcare facilities that allows patients to alert nursing staff for assistance.



Engineering systems

Controls building functions like heating, ventilation, and air conditioning.



Communication rooms and structured cabling

Where all the network cables are organized.



Access control

User authentication and access control.



Security Systems

Monitors and controls security and communication in the hospital.

* Artist Impression only

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New Dunedin Hospital
Whakatapu

New Dunedin Hospital

Active infrastructure Facility Systems

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Te Whatu Ora



Active network and wifi

The common access network for campus users and devices.



Compute and Storage

Servers and data storage systems in the coms rooms.



User computing

Devices like PCs, peripherals, mobile workstations (WoW).



Digital screens and Signage

Displays information and advertisements.



DAS

Distributed Antenna System (DAS) to ensure mobile coverage access throughout the building.



Handsets

Devices for staff to be paged or alerted on, working towards a quieter hospital environment.



Cyber security - firewalls

creating a barrier between trusted and untrusted networks to protect sensitive data and resources.

* Artist Impression only

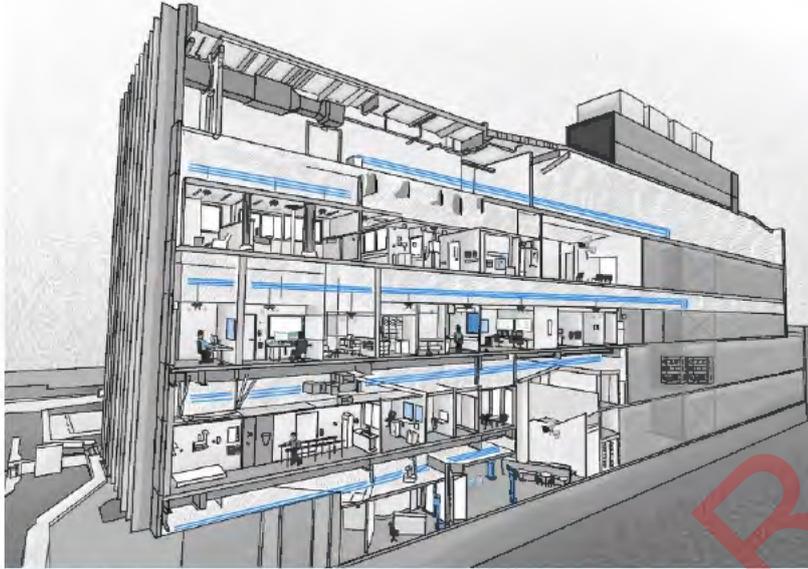
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Whakatapu

New Dunedin Hospital

Digital Facility Systems

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Fridge monitoring
Using wireless probes and IOT integration to ensure accurate temperature control and optimized workflows for various fridge contents.



Message Integration Engine
The common access network for campus users and devices.



Real-time location services
RTLS uses Cisco Wi-Fi, AIRISTA Flow, RFID, and BLE technologies for precise location tracking of assets and patients, providing a unified user experience.



Digital way finding
Handheld personal wayfinding.



Patient Queue Management systems
Displays information and advertisements.



Patient journey boards
System to display patient information on screens and devices, making hospital workflows more efficient.

*Artist Impression only

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New Dunedin Hospital
Whatu Ora

New Dunedin Hospital

Digital Health Solutions (end-user solutions)

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HCS - File Scanning
Taking paper notes and scanning them into the "cloud" system that is used for patient records and results.



Clinic room scheduling
Digital system for scheduling clinic rooms.



HCS - Paperlite Forms
Digital forms integrated with in healthcare systems to streamline and manage clinical processes, enhancing communication and efficiency in patient care.



SI PICS - Patient Journey updates
Improvements, adjustments, or changes made to the various stages and interactions involved in a patient's experience within the journey.

*Artist Impression only

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Appendix 2: Patient Journey with Opportunities

Future state with opportunities aligned

(Additional opportunities for will be added as they taken through the initial analysis process)

