

Digital Health Portfolio - July 2019

Period to 31 July 2019

Overall Comment	<p>This monthly report provides updates on key digital health initiatives. It is compiled from information provided by Ministry business units and health sector stakeholders.</p> <p>Key points to note this month: General practices are making considerable progress in implementing the New Zealand ePrescription Service. The number of practices generating e-Scripts and practices being authorised to produce e-Scripts for controlled drugs has increased by more than 150 percent over the past year. Practices are also making great progress offering new digital services to patients. Over the past quarter, the number of practices offering patients access to clinical notes has increased by 25 percent; and the number of practices now able to offer video conference consults has increased by 70 percent.</p> <p>Other initiatives will be added to this report as they become active at the discretion of the Ministry. Initiatives will be removed from this report as they are completed.</p>
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Name	Description	Stage	Key progress	Next milestones	Milestone dates	Comments	Owner
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NATIONAL

NZ Digital Health Strategic Framework	The Digital Health Strategic Framework guides the use of data and digital technologies to support delivery of the Vision for Health Technology and enable a strong and equitable public health system.	Imp.	Aligning the strategic framework to Ministry work programme. Continue to advance work aligned to delivery of enablers and measuring progress.	Awaiting Digital Investment Board formation to validate priorities and implementation approach. Continue engagement with the sector to align investment and implementation plans.	Aug-19	Recognise the complex digital health ecosystem and avoid a centrally directed programme. Instead align Ministry and agency investments, encouraging an agile approach and sector innovation.	MoH
National Health Information Platform	A national health information platform (nHIP) to give consumers, health care providers and planners access to health information across sector systems.	Scope	Cabinet paper is awaiting presentation to the Cabinet Social Wellbeing Committee (SWC) for approval to proceed to Detailed Business Case. Continue to align related initiatives to the health enterprise architecture target state.	Cabinet paper to the Cabinet Social Wellbeing Committee (SWC) for approval to proceed to Detailed Business Case.	Aug-19	The decision on moving to the next stage of the business case is pending Cabinet approval.	MoH
National Bowel Screening Programme (NBSP) IT System	Implementation of a national bowel screening IT system, while taking a modular and reusable approach to support other population health initiatives.	Imp.	The National Screening Solution (NSS) continued functional build activity using an agile methodology in a series of sprints. The first two "sprints" have been completed and the output demonstrated to stakeholders. Integration with third party systems (i.e. Labs) and internal Ministry systems (i.e. NHI) has been progressed.	Complete the build of the remaining system functionality prior to entering into the formal testing activities.	NSS-Go-live: October 2019	Build phase is fully mobilised with test planning now a focus.	MoH
			Interim IT Solution supports the National Coordination Centre and Waitemata, Hutt Valley, Wairarapa, Southern, Counties Manukau, Nelson Marlborough and Lakes DHBs. The final tranche of functional enhancements was successfully deployed during May.	Maintain the solution ahead of migration to NSS.	NA:		
NZ ePrescription Service (NZePS)	NZePS enables the electronic exchange of prescription and dispensing information between general practices, residential care facilities, hospitals and community pharmacies.	Rollout	The number of practices generating e-Scripts and receiving authorisation to produce e-Scripts for controlled drugs is now growing exponentially. Reports show an increase of more than 150 percent over the past year. Community dispensing data is now provided real-time for hospitals, and seven DHBs are using this service. A pilot with addiction services to improve prescribing and dispensing processes for their clients is in final testing. The Misuse of Drugs Act regulations are being reviewed to support further change and take up of medicines management digital services.	Undertake a pilot with Residential Care (RC) to see if the need for a written prescription can be removed when an RC electronic medication charting system is used (pilot excludes Controlled Drugs). Undertake a pilot to enable direct electronic and secure email transmission of prescriptions from a general practice to a community pharmacy, without the need to sign the prescription. The pilot is to determine the feasibility in respect to regulations, technology and work practices.	Jul-19	NZePS provides a platform to deliver significant benefits across the health system including reduced opportunities for fraud, efficiencies in prescribing and dispensing practices and provision of a person's medication details at the point of care. NZePS provides community dispensed data to health professionals for clinical purposes, such as medicines reconciliation and adherence services.	DHBs
National Maternity Record (NMR)	The NMR is an electronic record of care that allows sharing of information throughout women's pregnancies, labour and birth in hospitals and the community. The next stage of development will give women direct access to their information.	Rollout	The rollout to provide women digital access to their information will continue in 2019. Projects are underway to ensure the correct information is collected and accessible for reporting purposes. The maternity team is following on from the recent stocktake and is meeting with each DHB to agree a strategy and a way forward for their maternity systems. The team is exploring all available options on what the maternity system needs to look like. A shift from desktop to iPad will be available to community midwives as a priority, and hospital staff by the end of 2019.	The next iteration of NMR clinical system will be available for users in August 2019. A feasibility project is underway with Clevermed to determine whether we can integrate back into the UK product, BadgerNet Global. Any decision to migrate to the new platform will be made by the current users of the system. The Maternity care summary HISO standard will be sent for public comment July 2019. The first phase of the interoperability project will go live at Counties Manukau DHB early August 2019.	Aug-19	Interagency work continues to connect related aspects of the NMR: DIA - Smart Start System project. ACC - Growth Assessment Protocol project. HQSC - National Maternity Early Warning System.	MoH

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Health Finance Procurement and Information Management System	Health Finance Procurement and Information Management System (FPIM) led by NZ Health Partnerships (NZHP), will design and build the IT infrastructure and applications to meet DHB's finance, procurement and supply chain needs.	Imp.	The first four DHBs - Bay of Plenty, Canterbury, Waikato and West Coast - have been live on FPIM for nine months. The business case has been considered by all DHBs. A new FPIM Governance Board has been established and the Ministry of Health is now taking a stronger role in the day to day management of FPIM.	Cabinet is to consider the future of the programme.	Aug-19	Health Minister David Clark has called for a revised business case.	NZHP
National Immunisation Register (NIR)	Upgrade of two core components of the National Immunisation Register (NIR) to maintain the NIR and provide stability and system improvements.	Scope	Upgrades are currently being deployed to the user acceptance testing (UAT) environment.	Once the testing to UAT is complete the updates will be deployed to the training environment then production.	Aug-19	The deployment of the upgrades has taken longer than planned. However the delay is necessary to ensure the upgrades will work as expected in the production environments.	MoH
	Implementation of July 2020 changes to the National Immunisation Schedule.	Scope	PHARMAC has received responses to the immunisation vaccines Request for Proposal (RFP).	Review RFP responses. Start preparatory work on the 2020 Immunisation Schedule changes.	Jul-20	The NIR, Payment system, and PMS' will need to be updated to accommodate the changes	MoH
National Health Index (NHI) - Health Provider Index (HPI)	This project includes the upgrade of the National Health Index (NHI) and Health Provider Index (HPI) platforms, and the extension of HPI functionality to meet South Island DHB and wider sector requirements.	Imp.	Initiation phase activities underway, including an Infrastructure hosting Proof of Concept (PoC) with Amazon Web Services (AWS). Draft FHIR profiles for Patient and Provider have been developed. Initiation phase activity is due to complete in August 2019.	Complete initiation phase activities - solution architecture, data modelling, migration strategy, implementation planning, Infrastructure PoC.	Aug-19	Project teams are established and initiation phase planning is underway. HPI activities will be progressed in collaboration with South Island Alliance (SIA). AWS hosting options are being considered, and a PoC is being undertaken to establish the feasibility and mitigate risk.	MoH



Next Report due 31 August 2019

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Name	Description	Stage	Key progress	Next milestones	Milestone dates	Comments	Owner
DISTRICT HEALTH BOARDS							
Northern Region							
Northern Region Datacentre (IaaS)	Northern Region Datacentre (IaaS) is a foundational programme within the Northern Region ISSP. IaaS will evaluate, then where relevant, migrate the region to IaaS services to address the risks and constraints currently faced.	Scope	The Affordability Review (AR) has been completed and approved by CFO/CIOS with the IaaS savings of 50 percent achieved. The AR is now in the process of Internal DHB approvals and to undergo an external audit review. IaaS Service Establishment (SE) – This was originally scheduled for Board approval in February 2019 for endorsement. The execution of the Service Establishment Participating Agency Agreement (PAA) was completed in May, 2019. IaaS (Migration of Workloads) – Business Case is being updated with the preferred Affordability Review options. It is anticipated that this will now be approved by the remaining DHB Board (CMH and WDHB) in September/October, 2019.	With the hA SE PAA executed the Service Establishment stream is now moving into Build/Acquire & Test. Migration - Workload Discovery and Cloud Placement (WDCP) recommendation has been completed and confirmed. Revert IaaS as the destination for legacy systems. Migration - Instillery review of BC Counterfactual completed and reconfirmed use of IaaS over a co-located self build and operate. Migration - Business Case Updated and Independent QA - June /July. Migration - Business Case Approval by WDHB (2/10) & CMH (18/9).	Oct-19	Progress against the plan had been impacted by the delays experienced to complete the Counterfactual review, and to complete the affordability analysis, and the cost reduction analysis and negotiations. With the Services Establishment PAA signed the workstream is now progressing into Build. With the AR completed the Migration BC is being updated and subject to an independent audit review targeting before seeking the remaining CMH & WDHB approvals	Northern region
Hospital Administration Replacement Project (HARP)	HARP is seeking to replace the bespoke, dated Patient Administration Systems (PAS) at ADHB with a modern and fit for purpose Commercial off the Shelf solution. HARP is an ADHB project but is also aligned with the wider Northern Region Information System Strategic Programme (ISSP).	Scope	The RFP Core Evaluation Team recommended taking the top three Suppliers through to the lab phase. SteerCo recommended taking the top four through. Labs have commenced with the four Suppliers and will last until early September. Due diligence, including hospital site visits, will occur in September.	Key focus is on planning for the site visits and preparatory work for the Best and Final Offer phase of the procurement process. Work will also continue with the drafting of the Single Stage Business Case (SSBC).	Sep-19	The Capital Investment Committee (CIC) asked HARP to revise their Capex intentions based on higher implementation costs. A paper was presented to CIC but has not yet been accepted hence the change to AMBER. The SSBC will start its approval process end of September but will be updated to account for the final negotiations planned for November. Planning to have the SSBC in front of the Capital Investment Committee by Feb 2020.	ADHB
Regional Collaborative, Community Care (RCCC)	RCCC aims to implement a preferred vendor/product combination for the replacement of the JADE system in use at Northland DHB with the potential for a regional Collaborative Community Care solution.	Scope	Affordability Review (AR) completed and RCCC Business Case costs are within AR target. Vendor Evaluations have completed and the business case is in finalisation to begin the approvals cycle.	The Preferred Vendor is expected to be approved by the Region by end of October.	Sep-19	The overall status of the programme is rated as 'Amber' due to scale and complexity of the Programme. The SSBC has undergone significant rework to fit in with the AR cost parameters. SSBC to start its approval cycle in June 2019.	Northern region (NDHB Led)
National Child Health Information Platform (NCHIP)	NCHIP supports existing child health services in the Midland and Northern regions. It captures and displays milestone data from disparate systems and presents it as a single unified dashboard. GPs, Well Child providers, Hospital Clinicians and regional coordination services access the dashboard to ensure that 'no child misses out' when it comes to the 29 health check milestones.	Rollout	NCHIP to be rolled out to Auckland, Waitemata and Northland DHBs. SaaS Agreement and SoW with Orion Health has been signed. Enhancements to NCHIP underway. Registration and healthcare milestone data from Northern Region systems and national healthcare providers being captured and mostly being fed into NCHIP. NHI and NES data feeds with MoH established with healthAlliance working on data transfer mechanism. Content of data share agreements are being agreed within Privacy Impact Assessment (PIA). Specifications for the services provided by the NCHIP Coordination hub are agreed and the process of defining operation practices is underway.	Modify agreement with Orion Health to revise delivery timeframes for NCHIP enhancements. Otherwise manage development work underway by Pinnacle Midland Health Network and healthAlliance. Finalise data share agreements with the healthcare services providing data to NCHIP. Design the operational processes for the NCHIP coordination services. Commence planning for testing and deployment.	Oct-19	Revised delivery timeframes have been agreed. Detailed schedule of activities from now through to go live and the end of the current project phase are now in place.	Northern Region
Midland Region							
Midland Clinical Portal	The Midland Clinical Portal (MCP) will create one, consistent and accurate view of patient and clinical information for all Midland DHBs. It will also seek to integrate and share data with primary and other health care providers using MCP.	Imp.	Three Business Cases have been approved by all five Midland DHBs and are with MoH for approval: Business Case 1 - MCP 2.1.0 Technical Enablers. Business Case 2 - MCP 2.1.1 Delivery of regional functionality, including the transition of Haurora Tairāwhiti on to the MCP. Business Case 3 - MCP 2.1.2 Development of regional functionality, including the transition of Bay of Plenty DHB on to the MCP.	Development is underway across all business cases and testing underway for MCP 2.1.0. Design and development work underway for MCP 2.1.1 and MCP 2.1.2. Transformation and change work underway.	Sep-19 Apr-20 Sep-20	Regional functionality will become available and implemented first into a production environment at Haurora Tairāwhiti followed by Bay of Plenty DHB.	Midland Region
			Integration of NZePS complete and functionality deployed at five Midland DHBs.	Close project	Aug-19		
			Medicines Management (ePA) Business Case (BC) started.	Business case will go to the CEO Governance Group for approval in November 2019.	Nov-19		
			Analysis and design for Lakes DHB transition to MCP underway.	Agree requirements and build implementation business case.	Oct-19		
			Mental Health & Addiction Services (region) analysis and design work underway.	Agree requirements and build implementation business case.	Oct-19		
Central Region							
Regional Digital Health Services	Delivery of a regional clinical portal (CP) and radiology information system (RIS) for Central Region DHBs and replacement of legacy patient administration system (PAS) at Whanganui, MidCentral and Wairarapa DHBs. Formerly called the Central Region Health Information Platform.	Rollout	Progress to on-board Capital & Coast on regional RIS has been delayed by two months due to resource constraints and is now forecast for Oct 2019. Hawkes Bay DHB is ready to begin the final on-boarding sequence to regional CP. Regional webPAS upgrade to 10.14 for NCAMP19 compliance is delayed due to DHBs local resource constraints for UAT prior to go live on 1 Jan 2020. Efforts to assist DHBs address these constraints are in progress. The project will deliver 10.14 to UAT in Oct 2019 as planned.	Planning for Hawkes Bay to on-board to regional RIS has begun, with a completion date forecast for Feb 2020. Continue planning for Hutt Valley to on-board to regional RIS. Begin plans for regional PACs Archive migration to public cloud and to address the costs of storage, accessibility and business requirements. Re-pricing existing AOG IaaS platform underway. The new model of consumption and utilisation is proposed to have positive impact on costs and availability. Implementation on new monitoring and management tools to better provide stability and security the regional applications environment nearing completion with implementation into production schedule for Jul'19.	Aug-19	The delivery of regional webPAS 10.14 version is progressing against plan and slightly ahead of budget. Challenges of DHB resources to complete testing prior to go-live continue to be reviewed. With FY2019/20 budget forecasts now endorsed, work is progressing to continue the digital strategy for Regional Digital Health Services (RDHS) presented and approved by the CR CEOs in April'19.	Central Region
South Island Region							
South Island Patient Information Care System	The South Island Patient Information Care System (PICS) programme will deliver a new regional hospital patient management system for the South Island DHBs.	Rollout	Activity on addressing Ministry extracts continues. The South Island and Orion have agreed an action plan to progress outstanding concerns. Key extracts relating to the end of the financial year including NMH PRIMHD have been submitted to the MoH compliance environment.	Programme schedule and implementation activity for the remaining three DHBs has been identified. West Coast DHB is currently exploring providing data to the shared warehouse ahead of a SI PICS implementation. South Canterbury DHB business case has been completed. Southern DHB business case has been reviewed by the MoH and the DHB are working through the feedback with support from the regional team when needed.	Aug-19	Core functionality identified as the foundation is expected to be delivered by December 2019. Theatre functionality is the major element for development during 2019.	South Island
Regional Service Provider Index (RSPI)	This project is in the discovery phase. The scope is to recommend and develop the business case for a single, authoritative source identifying people providing health care and administration in the South Island that could be adopted by the rest of New Zealand. The five key concepts identified are organisation, service, facility, team and individual.	Scope	ERMS, Canterbury and Southern Community Labs and HCS have completed a deep dive of identified requirements. A number of workshops have been completed during July these have focused on requirement validation, presentation of Infosphere to architects and developers and an IBM implementation planning workshop with the MoH. Project will be implemented in a phased approach enabling the MoH to give some early value to existing HPI services through the new APIs for early adopters.	Planning phase of the project scheduled to end August. Continued development of user stories, problem definitions and requirements confirmation. A technical workshop is scheduled for 8 August to investigate the end to end view of the RSPI. Detailed understanding is required regarding how the data will be added into the system, processed and utilised.	Aug-19	Key risks and issues currently being reviewed by the project teams.	South Island

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PRIMARY CARE							
Patient Portals and Video Conferencing in practices	Implementing patient portals in general practices to provide people with secure online access to their health information. This activity is led by General Practice New Zealand (GPNZ).	Rollout	Over the past quarter, the number of practices offering patients access to clinical notes has increased by 25 percent; and the number of practices now able to offer video conference consults has increased by 70 percent. As of June 2019, 885,779 patients, 19 percent of enrolled patients in NZ, had registered to use a patient portal; and 641 practices, 66 percent of general practices, have implemented portals. 122 general practices have made clinical notes available to patients and 29 practices are able to use video conference for consultations.	The Telehealth Leadership Group is working with PHOs, practices and the RNZCGPs to create guidelines and templates to support uptake of video conferencing for patient consultations. MoH is working with sector stakeholders to review reporting requirements on portal uptake.	Sep-19	Primary Health Organisations continue to promote patient portal uptake and increased utilisation of portals.	GPNZ
Lower North Island PHOs Patient Management System Review	Identification of a primary care patient management system for lower North Island PHOs: Compass, Te Awaikarangi and Central.	Imp.	The Indici SEHR went live in the 3DHB regions in December 2018. At Go Live there were 74 practices on the Indici SEHR across the 3DHB regions or 92% of the enrolled population. Eleven practices are now live on the Indici PMS, one in Te Awaikarangi Network, five in Central PHO and five in Tū Ora Compass Health.	Central PHO have continued to deploy Indici, while Te Awaikarangi Network and Tū Ora have implemented a pause period to address some product and change management issues. The current plan is to resume deployment from late September this year.	Sep-19	DHBs (Capital and Coast, Hutt Valley, Wairarapa and Mid Central) are supportive of the move to the Indici SEHR.	PHO
Compass Health GP Access to CCDHB Clinical Information	Providing GP teams with one click access to patient information in CCDHB hospital information systems (Concerto).	Imp.	576 clinicians confirmed with Concerto access.	Continued engagement with practices who have not requested Concerto access for their clinicians. Ongoing deployment of the new Conporto solution across the 3DHB region. Conporto now has feeds from all the regions Concerto systems (CCDHB, Hutt and Wairarapa DHB).	Sep-19	Continuing to grow the new solution for 3DHB region to provide a consolidated view of all three Concerto systems for patients, and investigate additional data sources.	PHO
Pegasus Health PHO - Sirius Programme: Electronic Medical Record Platform Implementation	The Sirius Programme will deliver an alternative electronic medical record, including a platform (Infrastructure as a Service), a practice management system (PMS) solution including patient and provider portals and mobile apps, implementation support including data migration and ongoing support and maintenance.	Imp.	Additional implementation completed Feb 2019. Sirius Care Patient Portal now live. 1 April MOH NES changes implemented, along with other product improvements. Work underway to action feedback from current pilot practices before progressing, and also to fine-tune data migration process for larger data-sets.	Release next version of Sirius product for the next set of practice implementations.	Sep-19		PHO
Pinnacle Health PHO Indici Implementation	Indici is a new cloud-based patient information system. It is creating a single master patient list to connect a wide range of services to a core record. It is being deployed across general practices, midwives, rest homes, hospices, residential services and a wide range of allied providers.	Imp.	Indici now rolled out to 17 GP practices and 43 Allied health services across the Midlands Region. Electronic Prescribing System (EPS) implementation is completed for 16 practices and 5 practices have chosen to postpone implementation. Broad rollout of ACC45 direct SNOMED API is progressing well, with all 17 GP practices implemented.	Rollout to two new GP practices	Aug-19	Ongoing rollout is now treated as business as usual.	PHO
ProCare PHO Patient Management System review	Identification of primary care practice management system recommendation to the ProCare network of 170 practices.	Scope	Contracts signed with vendor. Support staff recruitment underway. Northern region integrations being planned. PHO infrastructure requirements in development.	Complete Northern Region integrations. Sign agreements with pilot practices for PMS implementation. Define PHO upgrade requirements.	Aug 19 Aug 19 Aug 19	Vendor is working closely with other PHO clients to resolve some issues that would otherwise affect us.	PHO
Primary Care Data Service	The majority of Primary Care Networks (PCNs) have jointly funded an Expression of Interest (Eoi) to gauge the feasibility of implementing a National Primary Care Data Service (NPCDS) for the sector.	Scope	MoH have clarified the process to secure long term funding for the NPCDS. Appropriate approvals have been received for business case development and resource requirements.	MoH will engage an external supplier to proceed with the business case which will lay the groundwork for the establishment of a national primary care data service.	Sep-19	Work to date has led to a clear understanding of the inter dependencies that exist between the PCDS, other ministry patient centred data work streams and the current data sets held by the ministry, including NES. PCDS could be used as a first stage practical link to the wider strategic work being undertaken by the Ministry. New analytical tools are now available in the market that did not exist when the PCDS was first conceived, which while delaying the procurement of a supplier for a the business case, has allowed for a exploration of models as part of the business case process. Draft procurement documentation will be completed by mid August 2019. This will include an engagement strategy with the primary care sector.	PHO
						Next Report due 31 August 2019	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Stage</p> <p>Concept Scope Imp. Implementation Rollout PIR Post Implementation Review</p> </div> <div style="width: 45%;"> <p>Confidence</p> <p>● Achievable ● At Risk New to the report</p> </div> </div>							