Technology Directory Roadmap with 3 Levels of Digital Development

(information correct as at 13 June 2022)

FRONT OF HOUSE - DIRECT CARE

Assistive Tech	Digital Tech

Categories	Application to Care Setting		e Setting	Level 1	Level 2	Level 3
	СВ	НС	R			
Care Engagement		•	•	Tele-Care/Rehab AppTele-Presence AppTele-Engagement App	 Home Care or Tele-Presence Robots / Humanoid Robot Wearables / RFID Mobile Alert Platform 	 Optical Al Monitor Thermal Al Monitor Radar Al Monitor Companion Robot
Ambulatory & Mobility – Transfer Aids			•	Motorised Raising AidTransfer BedCeiling HoistPatient/Toilet Lifter	Semi-auto Transfer Aid Home Care Robot	ExoskeletonRobotic BedTransfer Robot
Ambulatory & Mobility – Mobility Aids			~	Electric Wheelchair	Exoskeleton	Autonomous /Robotic Exoskeleton Autonomous Wheelchair
Falls Prevention		~	~		Sensor Cushion Sensor Mattress	
Falls Detection & Prediction		•	~		Motion SensorWearables & Accelerometers	Fall Sensors Hub
Mobility Monitoring & Assistance			~	Tracking Devices - 2-way Communication – dongle/location tracking	Wearables/RFIDInfrared CameraRadar Sensor	Optical AI MonitorThermal AI MonitorRadar AI Monitor

FRONT OF HOUSE - DIRECT CARE

Assistive Tech

Digital Tech

Categories	Application to Care Setting		Setting	Level 1	Level 2	Level 3
	СВ	нс	R			
Physiotherapy & Pain Management			•	Ceiling HoistRehab EquipmentMoto Tile	Physiotherapy Monitor	Gaming RehabAR/VR RehabExoskeleton
Emotional Well-being			~	 Mood App Meditation App Emotions Tracker Portable interactive app/device 	Therapy RobotTherapy Chatbot	VR Companion Robot
Mental Well-being			~	Stove Alert Monitor Dementia App	Voice Assistance Platform	Home Care Robot
Continence Management			~	Anal Irrigation System	Wearables Smart Diaper	 Bladder Scanner Remote Bladder Monitoring Device Digital Incontinence Aid
Daily Vitals Monitoring			~	Manual Spot Monitoring	 Wearables – Continuous Monitoring Digital Spot Recording 	 Contactless Continuous Monitoring Facial Recognition Digital Continuous Recording
Medication: Documentation & Information			•	Medical Translation ServicesMedical Dictation App	 Electronic Medical Record (EMR) Electronic Medication Management (EMM) 	Integrated Medication System (includes EMR, EMM)

FRONT OF HOUSE – CARE SUPPORT

Assistive Tech		Digital Ted	ch
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Categories	Categories Application to Care Setting		pplication to Care Setting Level 1	Level 1	Level 2	Level 3
	СВ	нс	R			
Client Relationship Management	•	•	•	Client Mgmt SystemVisitor MgmtDigital Attendance	Integrated Case Mgmt System (with integration with other related solutions)	
Admission & Discharge	~	~	~	Digital Check-inSelf Check-in AppMobile Check-in	RFID Wristband Check-in Kiosk	Integrated Check-in with Case Management System
Shower & Bath			~	Automated Shower ChairShower TrolleyPortable Shower in Bed System	Medical BathtubAutomated Bathing SystemAutomated Shower Stall	Shower Machine
Skin Care & Pressure Ulcers			•	Pressure Sensors/Smart MattressSmart Compression	Pressure Ulcer/Sore Scanner	Wearables Sensor to improve compliance Optical Monitoring AI for prolongers position/pressure
Food Services: Distribution & Serving			~	Omelet Counter Sushi Belt	Waiter RobotWaiter DroneSmoothie Bot	Automated Serving RestaurantAutomated RestaurantAutomated Guided Vehicle
Food Services: Feeding			~	Self-feeding Support	Anti-tremor Spoon	Robotic Feeding Device

FRONT OF HOUSE – CARE SUPPORT

Assistive Tech	Digital Tech

Categories	Application to Care Setting		Application to Care Setting Level 1		Level 2	Level 3
	СВ	нс	R			
Medication: Distribution & Administration			•	Pill Dispenser Medication Reminder App	 Automatic/Digital Pill Dispenser Smart Pill Dispenser Remote Audiovisual Pill Dispenser Tele-pharmacy 	 Delivery Robot Automated Guided Vehicle
Communications: Clients to Staff	>		•	Pull Cord System	 Wireless Corridor Light Alert Central Nurse Call Receiver Wearable Call Button Wearable Alert Received 	 Mobile Alert Platform Conversation Monitoring Pin
Infection Control: Prevention			~	Manual Contact Tracing Log	Mobile App Contact TracingThermal Camera	Infection Prevention Surveillance Platform

FRONT OF HOUSE – BACKEND SUPPORT

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Assistive Tech	Digital Tech

Categories	Application to Care Setting		Setting	Level 1	Level 2	Level 3
	СВ	нс	R			
Food Services: Preparation & Cooking			•	AirfryerMulti-purpose Food ApplianceCombi Oven	3D Printed Food	Customisable Meals Robot
Food Services: Clearing & Cleaning			•	Food Scrap Shredder	Data Driven Food Waste PreventionIndustrial DishwasherTray Collection Robots	Full Service Dishware Delivery
Housekeeping & Cleaning	>		~	 Handheld Scrubbers Ride-on Scrubbers / Sweepers	Cleaning Robots	
Laundry: Collection & Distribution			•	Laundry Trolley		Delivery and Collection RobotsAutomated Guided Vehicle
Medication: Prescription & Preparation			~	Labelling SystemCentralised Medication Packing System	Tele-pharmacy [D]	Robotic SystemArtificial Intelligence
Medication: Storage & Disposal			~	Medication Storage	Automated Medication Storage	
Transport Management	>		~	Basic Mapping	Mapping tied to client database per centre	Mapping tied to client database across centres

BACK OF HOUSE – CORPORATE FUNCTIONS

Assistive Tech	Digital Tec

Categories	Application to Care Setting		Setting	Level 1	Level 2	Level 3
	СВ	нс	R			
Office Productivity Systems	•	•	•	 Microsoft Office (incl e-signature) Document/Knowledge Management Video Conferencing Collaboration Tools 		
Stakeholder Engagement Systems	>	•	•	Donor ManagementVolunteer ManagementWebsite	Integrated Donor-Volunteer Management	
Corporate Systems	•	•	•	 Finance, e-Billing, Digital (Cashless) Payment Procurement Inventory HR (incl leave) Payroll Claims Staff Attendance Rostering/Scheduling Training/Learning Management 	Integrated Finance System (Finance, e-Billing, Digital (Cashless) Payment, Procurement, Inventory) Integrated Human Resource Management (HR, Leave, Payroll, Claims, Staff Attendance, Rostering, Training/Learning)	
Data and Reporting	>	•	~	Data Analytics		

CYBERSECURITY

Categories	Application to Care Setting			Level 1	Level 2	Level 3
	СВ	нс	R			
Cybersecurity Protection	•	•	•	 Identity and Access Management Firewalls Antivirus Solutions Encryption Tools Virtual Private Networks (VPN) 		

NETWORK INFRASTRUCTURE

NETWORK INFRASTRUCTURE

Categories	Application to Care Setting			Level 1	Level 2	Level 3
	СВ	нс	R			
WIFI Connectivity	•	•	•	• 4G	• 5G	• 5G

NATIONAL SYSTEMS

E.g.

National Job-Sharing Platform
National Volunteer Management System
National Case Management System
Other national systems planned over next 5 years – include Inter-rai, IRMS2.0, ILTC Portal refresh