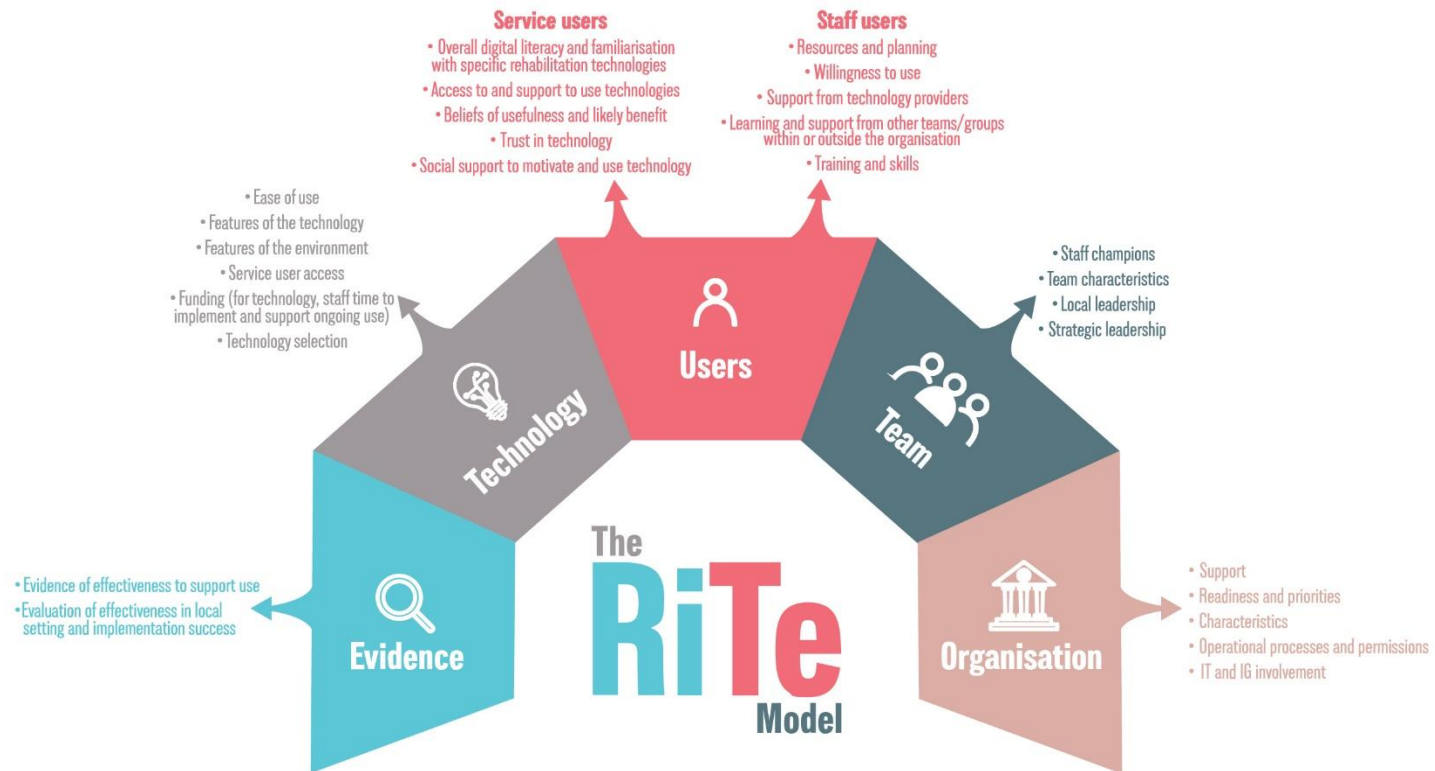


The RiTe Model



EVIDENCE

Domain	Definition	Sub domain	Consider
Evidence	Using and collecting evidence of the effectiveness of the technology and its implementation	Evidence - Evaluating the available evidence to inform technology selection and to evaluate its use in the service into which it is implemented	<ul style="list-style-type: none"> - if there is research evidence of the effectiveness of this specific technology in a similar rehabilitation setting and population - the quality and strength of the available evidence - any underpinning theories that support the effectiveness of the technological intervention in the intended rehabilitation setting and population - the strength and quality of evidence underpinning other similar technologies in a similar rehabilitation setting and population
		Evaluation - Identification and rigorous measurement of the key outcomes that can be used to judge the success of the implementation process and the effectiveness of the technology.	<ul style="list-style-type: none"> - identification and collection of the key outcomes (data) in the implementation setting that shows the rehabilitation technology is benefitting the intended population and/or service as planned - identification and collection of data to capture any unintended consequences (good or bad) of the rehabilitation technology when used in the intended population and/or services - identification and collection of data to capture the success of the implementation process and promote learning for future implementation efforts

TECHNOLOGY

Domain	Definition	Sub domain:	Consider
Technology	The technology being considered or implemented	Ease of use - The physical, technical and simplicity of initially setting up, and then using the technology regularly.	<ul style="list-style-type: none"> - how easy the technology was to use initially. This includes physical aspects of setting up any equipment and technical demands of any registration/initial set up - the time taken to set up the technology for use initially and at each subsequent use - how easy it is to continue to use the technology through the planned rehabilitation intervention period - how suitable the technology is for its intended use - the degree to which the technological intervention aligns with existing workflows - the users' perceptions of the ease of use of the technology and to what degree it meets their expectations - the intended users' familiarity with the technology (or its similarity to other technologies they know)
		Features of the technology - The suitability of the technology for its intended use	<ul style="list-style-type: none"> - the degree to which the technology can address the target of rehabilitation - the clarity of the user interface enabling it to be accessible and easily navigable by the intended users

			<ul style="list-style-type: none"> - the degree to which the technology can be adapted and personalised so it is optimally suitable for intended users, - if and how the technology can provide relevant feedback/data for all users - if and how the technology can facilitate service-user engagement (by supporting independent use, facilitating self-efficacy, providing reminders, prompts etc to continue engagement, novelty and fun) in the intended population -
		<p>Suitability for the intended users</p> <ul style="list-style-type: none"> - Real-world, physical factors that influence who can access and utilise the technology 	<ul style="list-style-type: none"> - if individual users have access to the hardware that the rehabilitation technology requires - the availability and potential cost of the connectivity needed to utilise the rehabilitation technology as intended - if all intended users are likely to have access to the rehabilitation technology, the potential reasons for not having access and steps that can be taken to mitigate exclusion
		<p>Features of the environment -</p> <p>The intended environment the technology is to be used in. This includes physical factors such as space for equipment but also</p>	<ul style="list-style-type: none"> - the physical space needed to utilise the technology - the availability and provision of hardware needed to utilise the rehabilitation technology in the intended setting

		<p>connectivity and any hardware required.</p>	<ul style="list-style-type: none"> - need for internet connectivity before, during or after use and the quality, strength and cost of the internet connectivity when used in the intended setting - if portability is required to enable use in different settings - any infection control considerations if to be re-used or used by more than one user
		<p>Funding - The process of identifying funding and the processes to utilise funding to purchase the technology and maintain it. * pre implementation</p>	<ul style="list-style-type: none"> - identification of the processes and people within the organisation and the information required by them to apply for and gain funding for the rehabilitation technology - identification of initial and ongoing costs - identification of potential initial and ongoing economic benefits. These could include local service outcomes (such as changes in length of stay and waiting times), wider economic effects (such as return to work, reliance on carers) and environmental impacts (such as travel and carbon production) - understanding local procurement processes in your organisation - the time needed for staff to lead, support and engage with the technology implementation - the need, provision and time required for ongoing training of users of technology

			<ul style="list-style-type: none"> - contingencies within funding to react to unforeseen events such as replacement parts and additional equipment - the availability of ongoing funding to ensure the rehabilitation technology can be updated and maintained after initial purchase
		Selecting the 'right' technology - Understanding the available technologies on the market and their selection.* pre-implementation	<ul style="list-style-type: none"> - the suitability of the rehabilitation technology for the intended use, setting and population - what resources you can utilise to find the available technologies from which to make your selection - if there is an opportunity to trial a potential technology in the clinical setting (to try before you buy) - exploring the research evidence supporting its effectiveness (see also evidence and evaluation domain)

USERS

Domain	Definition	Sub domain:	Consider
Users	The end users of the technology, comprising service-users (patients), carers and healthcare staff	Service-users and carers - The beliefs, experiences and needs of service-users (and those that care for them) to access and utilise the technology.	<ul style="list-style-type: none"> - identification of the individual support needs of the intended users so that they can use the technology. This may include (but is not limited to) their digital literacy, any cognitive, language and physical impairments - how individualised support to access and use the technology can be provided by the clinical service - the intended user's beliefs of the usefulness of the rehabilitation technology - the intended user's trust in the security of their data provided to the rehabilitation technology - the intended's user understanding of the evidence of benefit that the technology can deliver - the presence of social support to motivate and engage the intended user.
		Staff-users - The beliefs, experiences and needs of staff users to use the technology as part of their usual practice.	<p><u>Resources and planning</u></p> <ul style="list-style-type: none"> - the time required to implement rehabilitation technologies - the time and resources need to train users

			<ul style="list-style-type: none"> - the funding required for technology acquisition and maintenance (also considered in the Technology domain) - the scale and impact of any changes in models of current service provision which would be necessary to implement the rehabilitation technology into routine practice
			<p><u>Willingness to use</u></p> <ul style="list-style-type: none"> - staff's understanding of the evidence underpinning a technology, - their beliefs about the benefit offered by the technology - how technology use aligns or conflicts with the professional identity of staff users - staff users' confidence to implement and use the technology - staff interest in technology as part of their practice - the staff user's current capacity to embrace change to their daily practice.
			<p><u>Support from technology providers</u></p> <ul style="list-style-type: none"> - the presence of productive and trusted relationships with individuals at technology supplier - the physical presence of individuals from the technology provider on site if needed to support implementation and ongoing use

			<ul style="list-style-type: none"> - availability for ongoing support particularly at ‘pinch points’ (these could include ensuring compliance with information governance, initial training and set up, managing glitches, changes initiated by updates) - provision of ongoing training by the technology provider.
			<p><u>Learning and support from other teams/groups within or outside the organisation</u></p> <ul style="list-style-type: none"> - contact with others who have implemented or used the technology and can provide advice or peer support - opportunity to see technologies being used in similar clinical settings
			<p><u>Training and skills</u></p> <ul style="list-style-type: none"> - the provision of informal or formal peer support within the team - ring-fenced time for training - the provision of ongoing and regular training updates and training of new starters

TEAM

Domain	Definition	Sub domain:	Consider
Team	The values, beliefs and performance of the team that is implementing or will be using the technology, and alignment of the technology to be implemented with other team priorities.	Staff champions - An identified individual or group from within the team who will lead and support the rehabilitation technology implementation	<ul style="list-style-type: none"> - the recognition and respect for the individuals who are staff champions from the team that will implement the rehabilitation technology - the degree to which staff champions are embedded in the team and contribute to its day to day function - the personal characteristics of the staff champions including: their level of motivation and enthusiasm for the rehabilitation technology, interpersonal skills, resilience to setbacks, ability to enthuse and support others, growth mindset and problem solving skills
		Team characteristics - The culture, beliefs and behaviours of the team who will be using the implemented technology.	<ul style="list-style-type: none"> - the presence of a shared vision within the team for the benefits the technology can deliver - the strength of the channels of communication within the team - the team's experience and views of change and innovation - the presence of mechanisms to embed the experiences and views of the service-users in service developments

			<ul style="list-style-type: none"> - the physical proximity of team members and between the team and wider stakeholders within the organisation.
		Local leadership - the local manager or team leader who has oversight for the day-to-day running of the team/service.	<ul style="list-style-type: none"> - their knowledge and ability to navigate internal processes and networks, - their flexibility and authority to support the time needed to implement the technology - the degree to which they understand and support change management within the team
		Strategic leadership - the leader within the organisation who has insight and influence upon the strategic direction and priorities of the service and wider organisation	<ul style="list-style-type: none"> - their ability and willingness to champion of the technology implementation with senior leadership/management within the organisation - the provision of their overt and visible support for the technology implementation - the ability to align the rehabilitation technology implementation to strategic priorities for the organisation and nationally - the provision of financial support to gain funding (to purchase and maintain technology and to enable staff time to implement)

ORGANISATION

Domain	Definition	Sub domain:	Consider
Organisation	The organisation within the which the technology will be implemented. There may be multiple organisations e.g. the hospital system, a regional commissioning group/organisation, a national healthcare system (e.g. the NHS)	Support - The sources of support for technology implementation that exist within the organisations	<ul style="list-style-type: none"> - the presence of formal teams that support innovation within the organisation and who can help with technology implementation (e.g. innovation teams) - the presence of informal networks with experienced colleagues who can support the implementation of the rehabilitation technology
		Readiness and priorities - The current ability and willingness of the organisation to implement technologies in services.	<ul style="list-style-type: none"> - the organisation's level of familiarity with technology implementation both within rehabilitation and more widely - the degree to which the rehabilitation technology implementation aligns with other organisation level changes - the degree of alignment of the rehabilitation technology implementation with local or national priorities.
		Characteristics - The attitude towards, and previous experience of, implementing (technological) change within the organisations	<ul style="list-style-type: none"> - the degree to which previous experiences of innovation and technology implementation were regarded as positive or negative - the perceived willingness and current ability of the organisation to embrace the changes needed to implement the rehabilitation technology

			<ul style="list-style-type: none"> - the effectiveness of channels of communication between the key stakeholders that influence technology implementation within the organisation
		Operational processes and permissions - the operational processes and permissions that must be completed to implement a new technology.	<ul style="list-style-type: none"> - availability and clarity of guidance of the requirements for, and the capacity to undertake, timely assessment of the required approvals for rehabilitation technologies. These are likely to include assessments of data protection, infection risk, procurement processes and other risk assessments
		IT and IG involvement - The Information Technology and Governance scrutiny required before implementation of a new technology or addition of new features to an existing technology.	<ul style="list-style-type: none"> - the degree to which the technology to be implemented aligns with local and national IT and IG policies - the availability of the information required to make judgements of IT and IG implications - the accessibility and capacity of IT and IG teams to provide timely advice, support and undertake appropriate assessments.