SUPPLEMENTAL FILE: Development and usability testing of an online support tool to identify models and frameworks to inform implementation

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Appendix 1. Mapping criteria

The purpose of this exercise is to map a list of TMFs to (1) Nilsen's taxonomy and (2) the Knowledge-to-Action (KTA) Framework and categorize them by (3) level of behaviour change (individual, organizational, system). The results will be used to inform the content of a support tool to help individuals who are doing or supporting implementation practice activities to identify an appropriate TMF to inform their work.

Category^	Description ¹	Similarities and differences ¹
Process	- Specify steps/stages/phases in	Process models vs. frameworks:
models	 process of translating research into practice, including implementation and use of research Aim to describe and/or guide process of translating research into practice An action model is type of process model that provides practical guidance in planning and execution of implementation endeavors and/or implementation strategies to facilitate implementation Note that terminology is inconsistent, as some models are referred to as frameworks and 	 While many process models mention relevance of addressing B/Fs to translating research into practice (e.g., KTA), these models do not identify or systematically structure specific determinants associated with implementation success like frameworks do Process models recognize temporal sequence of implementation endeavors (although actual process is not necessarily sequential), whereas determinant frameworks do not explicitly take a process perspective of implementation since determinants typically relate
Determinant and evaluation frameworks	 vice versa. Many frameworks developed by synthesizing results from empirical studies of B/Fs to implementation success or constructed based on synthesis of constructs related to behaviour change found in behaviour change theories <i>Determinant frameworks</i> describe/specify types/classes/ domains of determinants and individual determinants, which act as B/Fs and enablers (IV) 	to implementation as wholeFrameworks vs. process models:- Determinant frameworks may beused to help guide implementationpractice (i.e., function as actionmodels), because they identifypotential B/Fs that might beimportant to address whenundertaking implementationendeavor. However, mostdeterminant frameworks providelimited "how-to" support forcarrying out implementationendeavors since determinantsusually are too generic to provide

(1) Nilsen's Taxonomy (Nilsen, 2015):

¹ Source: Nilsen. Making sense of implementation theories, models and frameworks. Implement Sci 2015;10:53.

	that influence implementation	sufficient detail for guiding
	outcomes (DV)	implementation process
	- Aim to understand and/or	- Evaluation framework could also
	explain influences on	be process model if it contains
	implementation outcomes, e.g.,	process pieces
	predicting outcomes or	Frameworks vs. theories:
	interpreting outcomes	- A lot of theory has been used to
	retrospectively	identify determinants of
	- May specify relationships	behaviour, but the resulting
	between some types of	framework does not address how
	determinants	change takes place or any causal
	- <i>Evaluation frameworks</i> specify	mechanisms (e.g., Theoretical
	aspects of implementation that	Domains Framework, a
	could be evaluated to determine	framework, versus Health Action
	implementation success	Process Approach, a theory).
Classic and	- Aim to understand and/or	Theories vs. process models:
implementation	explain aspects of	- Theories may be <i>used</i> to guide
theories	implementation by addressing	implementation practice (i.e.,
	how change takes place (i.e., the	function as action models),
	causal mechanisms) without	because they identify potential
	ambitions to actually bring about	B/F that might be important to
	change.	address when undertaking
	- <u>Expanded definition</u> : "'A set of	implementation endeavor.
	concepts and/or statements with	However, theories typically
	specification of how phenomena	describe change mechanisms and
	relate to each other. Theory	explain how change occurs
	provides an organizing	without ambitions to bring about
	description of a system that	change (i.e., the process).
	accounts for what is known, and	Theories vs. frameworks:
	explains and predicts	- See Frameworks vs. theories
	phenomena'. ² [must] include	above
	a set of concepts that describe,	- Theories may be <i>used</i> for
	explain and predict phenomena	evaluation because they describe
	including the relationships	aspects that might be important to
	between the concepts". ³	evaluate.
	- <i>Classical theories</i> originate from	
	fields external to implementation	
	science (e.g., psychology,	
	sociology and organizational	
	theory).	

² Hobbs et al. Behaviour change theories across psychology, sociology, anthropology and economics. A systematic review. Psychol Health 2011;26(Supp 2):6-72.

³ Colquhoun et al. A systematic review of the use of theory in randomized controlled trials of audit and feedback. Implement Sci. 2013;8:66.

	- Implementation theories have	
	been developed by	
	implementation researchers,	
	from scratch or by adapting	
	existing theories and concepts.	
None of the	- Approaches that do not meet any	E.g., taxonomy, checklist, principles,
above	of Nilsen's definitions of TMF	tools
	should go here (a critique of his	
	taxonomy).	

B/Fs = barriers and facilitators

Note: ^Code TMF according to intended aim as described in its original publication.

KTA Stage	Notes ⁴ :
	Does the TMF aim to describe or understand/explain aspect of, or
	specify how to
Define the	- Identify the problem?
evidence to	- Assess the current level of an activity?
practice gap	- Assess what "best practices" are or what the 'know' part of this stage
- Identify	entails?
problem	- Measure the "gap" between evidence and practice or policy making?
- Determine the	- Conduct a <u>needs assessment</u> (e.g., using admin dataset or chart audit)
know/do gap	to determine size and nature of the gap?
- Identify,	- Identify and appraise relevant research that could help solve the gap?
review, select	- <u>Actively involve relevant stakeholders</u> in identifying and prioritizing
knowledge	the knowledge gap?
Adapt	- Adapt the knowledge to the local practice environment/context?
knowledge to	(e.g., guideline adaptation)
local context	
Assess barriers/	- Assess B/Fs to knowledge use? (e.g., Delphi procedure, focus
facilitators	groups, interviews, questionnaires, statistical analyses on types of
(B/Fs) to	data)
knowledge use	- Map identified B/Fs to behaviour change techniques and/or
	intervention components? (approach may include qualitative
	participatory methods, PDSA cycles, or theory-based approaches
	such as Michie's intervention mapping)
Select, tailor,	- Select/incorporate intervention components to develop a KT
implement	intervention? (approach may include intervention mapping,
interventions to	marketing, precede/proceed, quality cycle, change management,
promote	organizational development, community development, and health
knowledge use	technology assessment)

(2) KTA Framework (Graham et al., 2006):

⁴ Sources: table adapted from intersectionality & KT project work at Unity Health Toronto (personal communication with Kasperavicius); Straus et al. Knowledge Translation in Health Care, 2nd Ed. 2013; CIHR, http://www.cihr-irsc.gc.ca/e/40618.html; Straus et al. Monitoring use of knowledge and evaluating outcomes. CMHJ, 2010;182(2):E94-8.

	- Tailor the selected KT intervention components to the specific B/Fs
	to which they map? (e.g., using exploratory or theory-based
	approach)
	- Implement a KT intervention that has been designed?
Monitor knowledge use	- Assess uptake of the knowledge to determine how and to what extent the knowledge is used by decision-makers?
niowieuge use	 Conceptual knowledge use: changes in levels of knowledge or understanding or in attitudes (e.g., intentions to change) Instrumental knowledge use: changes in behavior or practice (e.g., adherence to recommendations) Strategic (persuasive) knowledge use: use of knowledge for political change and to influence policy (e.g., use in policy-related documents)
	- Note: TMF requires feedback and evaluation (e.g., process evaluation) to meet this step
Evaluate	 Determine the impact of use of knowledge on outcomes specific to
outcomes	health, provider and/or system?
	 Patient: impact on patients of using or applying the knowledge (e.g., health status, HR-QOL, satisfaction with care)
	 Provider: impact on providers of using or applying the knowledge (e.g., satisfaction with practice, time taken to do new practice) System: impact on health system of using or applying the knowledge (e.g., length of stay, cost, waiting times)
Sustain	- Plan for sustainability (continued implementation of KT
knowledge use	interventions over time), spread (e.g. expanded to new setting or
	context) and/or scaling up (e.g. expanded to reach greater proportion of eligible population) of knowledge use?
	- Maintain change, adapt and sustain ongoing knowledge use?

(3) Level of change:⁵

Level	Definition	Example
Individual	Changing behaviour of a single	This level deals with the
	person, or a group of individuals	individual/person level (e.g.,
	that are bound by common	psychological TMF)
	characteristics but don't	
	necessarily work collectively	
Organizational	Change within the confines of a	This level deals with groups of
	single organization. Individual	individuals – it could be a small
	change is part of organizational	team or a full organization such
	change, but what makes	as a hospital or social institution

⁵ Sources: Moore et al. Public Health Action Model for Cancer Survivorship. Am J Prev Med. 2015;49(6 Suppl 5):S470-6; Intersectionality & KT project work at Unity Health Toronto (personal communication with Kasperavicius).

	organizational change differ from individual change is the concept of collective behaviour/action (e.g., collective commitment to change, collective values and interests, etc.)	(e.g., sociologically-based TMF and those based in organizational behaviour)
System/policy	"Large-system transformations in health care are interventions aimed at coordinated, systemwide change affecting multiple organizations and care providers, with the goal of significant improvements in the efficiency of health care delivery, the quality of patient care, and population-level patient outcomes." ⁶	This level deals with groups larger than the organization – how do different hospitals (including multiple hospitals in a large network) or different provinces or countries interact within themselves and beyond themselves *Add a note in the comments column when the TMF applies to policy-level

⁶ Best et al. Large-System Transformation in Health Care: A Realist Review. Milbank Q. 2012; 90(3):421-56.

Item	Description
Domain 1: Research tea	um and reflexivity
1. Interviewer/facilitato	r Lisa Strifler
2. Credentials	BSc, MSc, PhD candidate
3. Occupation	PhD student
4. Gender	Female
5. Experience and	Strifler is a PhD candidate who conducted this research as part
training	of her PhD thesis project. She has training in health services
	research and methods and received formal training in qualitative
	research methodology during her graduate studies.
6. Relationship	Email communication was exchanged between Strifler and the
established	participant to determine eligibility and schedule an interview.
7. Participant knowledg	e Participants were aware of the purpose and rationale of the
of the interviewer	study, that it was being conducted as part of Strifler's PhD thesis
	project, and the project funding source.
8. Interviewer	Strifler disclosed her role as a PhD candidate at the University
characteristics	of Toronto, a graduate trainee with the Knowledge Translation
	Program at St. Michael's Hospital in Toronto, Canada, and
	primary researcher on this project.
Domain 2: study design	
9. Methodological	Content analysis
orientation and theor	
10. Sampling	Convenience and snowball sampling were used
11. Method of approach	Participants were recruited via an ad in the Knowledge
	Translation Canada e-newsletter (which ran for 4 weeks in
	March and April 2023) or by snowball sampling with our
	usability study participants. Participants in our previous study,
	who provided consent to be contacted for participation in future
	research, were also invited to participate in the usability study
	via personalized email.
12. Sample size	10 participants. A target sample size of 5-8 participants was
	expected to provide sufficient information to answer the
	research question through semi-structured interviews and was
12 N	considered a feasible range given the available resources.
13. Non-participation	13 individuals either responded to the ad in the e-newsletter
	(n=11, of which 5 did not book an interview) or were referred by a usability study participant $(n=2)$. 7 aligible participants in our
	a usability study participant (n=2). 7 eligible participants in our
	previous study were sent an email invitation, of which 4 did not
	respond and 1 was not reached due to an undeliverable email
	address. Participants were recruited until no new usability issues
	were identified; therefore, not all of the 24 participants in our previous study were contacted/invited to participate
11 Setting of data	previous study were contacted/invited to participate.Interviews were conducted online using a video conferencing
14. Setting of data collection	
conection	platform. Participants participated from their preferred location.

Appendix 2. Consolidated criteria for reporting qualitative studies (COREQ) checklist

15. Presence of non- participants	No non-participants were present during the interviews.
16. Description of sample	See Table 2. All participants were from Canada (Ontario, Alberta or British Columbia) except for 1 participant who was from Australia. Participants worked in a variety of healthcare environments and had a range of experience supporting implementation activities in healthcare environments.
17. Interview guide	See Supplemental File Appendix 3. A semi-structured interview guide was prepared and revised as needed throughout data collection. The interview guide was reviewed by a clinician/knowledge translation expert who had experience with qualitative research and implementation science and practice.
18. Repeat interviews	Repeat interviews were not conducted.
19. Audio/visual recording	Interviews were audio and video-recorded using an online video conferencing platform and transcribed verbatim.
20. Field notes	Strifler took notes during and immediately following each interview and referred to these notes during data analysis and interpretation.
21. Duration	Interviews lasted 30 to 60 minutes.
22. Data saturation	Participants were recruited until no new usability issues were identified.
23. Transcripts returned	Individual transcripts were not returned to participants for comment.
Domain 3: analysis and fin	Idings
24. Number of data coders	Data were inductively coded by a single investigator. The first 2 coded transcripts (a subset of 20%) were reviewed by a second investigator.
25. Description of the coding tree	A description of the coding tree has not been provided but will be made available upon request.
26. Derivation of themes	Themes were derived from the data.
27. Software	NVivo 12 Plus qualitative data analysis software (QSR International, Cambridge, MA) was used to organize and code the transcripts.
28. Participant checking	Participant checking was not performed, as changes were made to the tool iteratively, throughout usability testing.
29. Quotations presented	See Tables 3 and 5. Direct quotes from participants were presented in tables to support the study findings. Each quotation was identified using participant ID numbers.
30. Data and findings consistent	The data and findings are consistent.
31. Clarity of major themes	See Table 4. Major issues/suggestions for improvement included additional instruction and guidance on what to expect from the tool and

	how to use the information in the output table. Tool
	improvements included: (1) incorporating an overview figure
	outlining the tool steps and output, (2) displaying the tool
	questions on a single page, and (3) clarifying the available
	functions of the results page, including adding direct links to the
	glossary and to complementary tools.
32. Clarity of minor	See text in Results section.
themes	Issues/suggestions for improvement and corresponding changes made to the tool were further described within the text in the Results under sections for (1) tool purpose and content and (2) tool format and function.

Appendix 3. Usability study scenarios with instructions, and interview guide

Scenario A:

Please take a moment to read the scenario aloud. Once you are familiar with the scenario, please take a few minutes to reflect on what you might want to consider, and complete the task described below using the support tool. As you are doing so, please "think aloud" and provide any feedback including saying what you are thinking, what you are looking at and what you are trying to do.

You will have up to 10 minutes to complete the task. Do you have any questions?

SCENARIO

<u>Background</u>: Adults aged 65 and older account for a high percentage of acute hospital stays. Evidence suggests that early and consistent mobilisation of older adults admitted to hospital can decrease acute care length of stay, increase functional status and increase rates of discharge to home. Yet, rates of mobilisation in patients admitted to hospitals remain low. To address this gap, the Mobilisation of Vulnerable Elders (MOVE) initiative aims to promote early and consistent mobilisation practices for older adults admitted to hospitals. The three key components of this evidence-based program are to: mobilise patients at least three times a day; use progressive, scaled mobilisation; and, assess mobility within 24 hours of the decision to admit.

<u>Task</u>: As an implementation practitioner, you are planning to implement the MOVE program within an acute care hospital to support a change in practice related to mobilisation of older adults. To inform your work, you are looking to identify an appropriate knowledge translation theory, model or framework.

Scenario B:

Please take a moment to read the scenario aloud. Once you are familiar with the scenario, please take a few minutes to reflect on what you might want to consider, and complete the task described below using the support tool. As you are doing so, please "think aloud" and provide any feedback including saying what you are thinking, what you are looking at and what you are trying to do.

You will have up to 10 minutes to complete the task. Do you have any questions?

SCENARIO

<u>Background</u>: Adults aged 65 and older account for a high percentage of acute hospital stays. Evidence suggests that early and consistent mobilisation of older adults admitted to hospital can decrease acute care length of stay, increase functional status and increase rates of discharge to home. Yet, rates of mobilisation in patients admitted to hospitals remain low. To address this gap, the Mobilisation of Vulnerable Elders (MOVE) initiative aims to promote early and consistent mobilisation practices for older adults admitted to hospitals. The three key components of this evidence-based program are to: mobilise patients at least three times a day; use progressive, scaled mobilisation; and, assess mobility within 24 hours of the decision to admit.

<u>Task</u>: As an implementation practitioner, **you are planning to evaluate the implementation of the MOVE program across a network of acute care hospitals**. To inform your work, you are looking to identify an appropriate knowledge translation theory, model or framework.

Usability Study Interview Guide:

Read Informed Verbal Consent Script to participant, covering:

- Welcome and introductions
- Purpose of research study and interview process
- Terms of consent
- * Start recording
- * Obtain consent and record time

SCENARIO A (0) or B (1)

Great, let's begin! First, I am going to share the link to the tool in the chat. *Share link to tool and ensure participant can successfully access it

I have two scenarios for you, that will be presented in random order. You will have 10 minutes to complete each task and provide feedback on the tool while doing so. Here is your first scenario.

* Share screen (first scenario)

* *Provide up to 10 minutes for participant to complete the task and provide their feedback on the tool while doing so.*

* Start timer for 10 minutes

* Ask participant to share their screen as they complete the task

Notes on issues/feedback/suggestions during first task:

Great, thank you! Here is your second scenario. Again, you will have 10 minutes to complete the task and provide feedback on the tool while doing so.

* Share screen (second scenario)

* *Provide up to 10 minutes for participant to complete the task and provide their feedback on the tool while doing so.*

* Start timer for 10 minutes

* Ask participant to share their screen as they complete the task

Notes on issues/feedback/suggestions during second task:

SYSTEM USABILITY SCALE

I'm going to read out a series of 10 statements. On a scale of 1 to 5, 1 being strongly disagree and 5 being strongly agree, how would you rate each of the following statements? * All items should be answered. If a participant feels that they cannot respond to a particular item, they should select the centre point of the scale (i.e., 3); Source: Brooke, 1995.

- I think that I would like to use this tool frequently
- I found the tool unnecessarily complex
- I thought the tool was easy to use
- I think that I would need the support of a technical person to be able to use this tool
- I found the various functions in this tool were well integrated
- I thought there was too much inconsistency in this tool
- I would imagine that most people would learn to use this tool very quickly
- I found the tool very cumbersome to use
- I felt very confident using the tool
- I needed to learn a lot of things before I could get going with this tool

Questions on Tool Content

- 1. Are the questions in the tool clear and easy to understand? Why or why not?
 - Is there anything in this tool that you found difficult to understand?
 - Is the language appropriate?
- 2. Is there anything in this tool that you would change or remove? If so, what? Why?
- 3. Is there any information missing from this tool that you think would be helpful to include?

Questions on Tool Navigation & Format

4. Did you find the tool easy to use? Why or why not?

- Does the order of the questions make sense?
- Which aspects of the way the tool is organized do you like/not like?
- How would you like the information to be organized and displayed?
- 5. Do you find the tool visually appealing (e.g., layout, font, colours)? Why or why not?

Questions on Tool Purpose

- 6. Would you consider using a tool like this to inform your next implementation project? Why or why not?
 - Would this tool help you choose a knowledge translation theory, model or framework to inform your work? Why/why not?
 - Can you describe some advantages/disadvantages of using a tool like this?

Thank you for your feedback on the tool. We are coming to the end of the interview.

Other Questions

- 7. Before we wrap up, do you have any additional comments, concerns, or suggestions for improvements to share, regarding the tool?
- 8. Do you currently use any online tools to facilitate selecting a(n) implementation/knowledge translation theory, model or framework to inform your work?
 - If yes, which ones?
 - If no, why not?

Demographic Information

I have a few demographic questions to ask and then we will wrap up the interview.

- 9. For approximately how long (in years) have you been facilitating knowledge translation/implementation practice activities in a healthcare environment?
- 10. Could you please briefly describe, in a couple of words, the type of healthcare organization or environment in which you work? (e.g., rural or urban healthcare organization, teaching hospital, funding or regulatory organization, etc.)

Thank you so much for your time!

Appendix 4. Results of mapping exercise for 210 TMFs

	Taxonomy				KTA stage				Change level				
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
4E Framework for Knowledge Dissemination and Utilization			Х				х			х	х	х	[1,2]
A Framework for Improvement			Х				х			х			[3]
A Framework for Spread	х		Х						Х		х	х	[4]
A Model of Interpersonal Behavior				х			х			х			[5]
A Staged Model of Innovation Development and Diffusion of Health Promotion Programs	X					х	x	X	x	X	X	х	[6]
Academic Center for Evidence- Based Practice (ACE) Star Model of Knowledge Transformation	X					X	X	Х		х	X		[7]
Action Research	х					Х	х	Х		х	х	х	[8-11]
Active Implementation Frameworks (AIF)	х		X			Х	х	Х	Х	х	х		[12]
Adherence Model			Х				х	х	Х	х		х	[13]
Advancing Research and Clinical Practice through Close Collaboration (ARCC) Model of Evidence-Based Practice in Nursing and Healthcare	X		x				x	x		х	x	X	[14-15]
Affective Events Theory				Х			х			Х			[16]
An Action Theory Model of Consumption			X	х			х			X			[17]
An Organizational Theory of Innovation Implementation Effectiveness					х	х		x			Х		[18]
Attitude, Social Influence and Self-efficacy (ASE) Model		Х	Х	х			х	Х		х			[19-21]
Availability, Responsiveness Continuity (ARC): An	х					х		х		X	х	X	[22-24]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Organizational & Community Intervention Model													
Behavioral-Ecological Model of AIDS Prevention			x				х			х			[25]
CAN-IMPLEMENT Framework	х					х	х	Х	х	х	Х	х	[26]
Capability Opportunity Motivation and Behaviour (COM-B)				X			X			X			[27]
CDC DHAP's Research-to- Practice Framework	х					х	х	X			X	X	[28-29]
CIHR Model of Knowledge Translation	х					Х	x	X		х	х	х	[30-32]
Classical Conditioning				х			х			х			[33]
Clinical Work Assessment Model	х				х		х				х		[34-35]
Cognitive Behavioural Theory				х			х			Х			[36]
Cognitive-Behavioral Model of Relapse Prevention			X	X			х			Х			[37]
Cognitive-Social Health Information-Processing (C- SHIP) Model				X			X			X			[38]
Co-KT Framework	х					Х			Х	Х	х	Х	[39]
CollaboraKTion Framework	Х		х			х	х	Х	Х	Х	х	х	[40]
Collaboration for Leadership in Applied Health Research and Care (CLAHRC) Approach to Implementation	X						X	X	X	X	X	X	[41]
Collaborative Model for Achieving Breakthrough Improvement	х					x	X	х			х		[42]
Collaborative Model for Knowledge Translation Between Research and Practice Settings	X					х	X			X	X	х	[43]

			Taxonomy				KTA	stage		Ch	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Communication-Behavior Change Model	Х					Х	х	Х		х			[44]
Community Coalition Action Theory (CCAT)			Х				х		х		х	х	[45]
Community-Based Knowledge Translation Framework (or Applying Knowledge To Generate Action Framework)	X					X	x			X	X	х	[46]
Complex Innovations Implementation Framework			Х			Х	х		Х	х	X		[47]
Conceptual Framework for Addressing Social Context of Health Behaviors			x				Х	Х		X	х		[48]
Conceptual Framework for Program Sustainability in Public Health			х						x		Х	X	[49]
Conceptual Framework for Research Knowledge Transfer and Utilization	х		х			х	х	х			х		[50]
Conceptual Model by Lara et al.	х		Х				х	Х				х	[51]
Conceptual Model for the Diffusion of Innovations in Service Organizations			х				x			X	Х	X	[52]
Conceptual Model of Implementation Research		Х						X		X	X	x	[53]
Conceptual Model of Knowledge Utilization			Х				х				X	х	[54]
Conduct and Utilization of Research in Nursing (CURN) Project Model	х					х	х	x	X	X	Х	х	[55-58]
Consolidated Framework for Implementation Research (CFIR)			х				X				Х	х	[59]
Continuous Quality Improvement (CQI) model	х							Х		Х	х	х	[60]

			Taxonomy				KTA	stage		Ch	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Coordinated Implementation Model	х		Х			х	х			х	х	х	[61]
Core Steps for Effective Implementation	х					Х	X	Х		х	х	х	[62]
Critical Realism & the Arts Research Utilization Model (CRARUM)	х		х				х	х		х	х		[63]
Davis' Pathman-PRECEDE Model	X						X		Х	х	X	x	[64-66]
Design Focused Implementation Model	х						х	Х		х	х	х	[67]
Development Strategy			Х				х			х			[68]
Diffusion of Innovations				х			х		Х	х	Х	Х	[69]
Dissemination of Evidence- Based Interventions to Prevent Obesity	х		x				х			x	x	х	[70]
Dynamic Sustainability Framework			Х					Х	х	х	х	x	[71]
E2D2 Model	х	х	Х				х	х		х	х	х	[72]
Ecological Framework by Durlack & DuPre		Х						Х		X	X	x	[73]
Ecological Framework by Sallis & Owen			Х				X			Х	Х	x	[74-75]
Ecological Model of Diabetes Prevention					Х		X			х			[76]
Ecological Model of Health Behaviour			Х				х			х	Х	х	[77]
Evidence-Driven Community Health Improvement Process (EDCHIP)	х					X	x	x		Х	х	X	[78]
Expectancy-Value Model				х			Х			х			[79]
Exploration, Preparation, Implementation, Sustainment (EPIS) Framework	х		Х			Х	х		х		х	Х	[80]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Explore Values, Operationalize and Learn, and eValuate Efficacy (EVOLVE)	X						x	x		X	X	х	[81]
Extended Information Processing Model (or Information Processing Model of Attitude Change and its extension or McGuire's persuasion matrix)	x		X				х			x			[82]
Extended Parallel Process Model (EPPM)				х			X			X			[83]
Factors Determining Rate of Adoption of Research Innovations into Practice			х			Х	х				х		[84]
Framework by Cochrane et al.		Х	Х				х			Х	х	Х	[85]
Framework by Ferlie and Shortell			Х				X			X	X	x	[86]
Framework by Grol & Wensing	х		Х				х			Х	х	Х	[87]
Framework by Gurses et al.		Х	Х				х	х		х			[88]
Framework For Analyzing Adoption of Complex Health Innovations		X					x			Х	X		[89-90]
Framework for Conceptualizing Program Sustainability			Х						X		Х	x	[91]
Framework for Knowledge Translation (or Understanding- User-Context Framework)			X			х	х			х	X		[92]
Framework for the Dissemination & Utilization of Research for Health-Care Policy & Practice	X		X				X	X	X	х	X	х	[93]
Framework for the Transfer of Patient Safety Research into Practice	х					х	х	х			X	Х	[94]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Framework of Dissemination in Health Services Intervention Research	Х						x	x	х	х	х	х	[95]
General Theory of Deviant Behaviour				Х			х			Х			[96]
Goal Directed Theory				х			Х			Х			[97]
Goal Framing Theory				х			Х			х			[98]
Goal Setting Theory				х			х	Х		х			[99]
Health Action Process Approach (HAPA)				х			х			х			[100]
Health Behavior Framework			Х		х		Х			Х			[101]
Health Behaviour Goal Model			Х				х			Х			[102]
Health Behaviour Internalization Model			Х				Х			х			[103]
Health Belief Model			Х	х			х			Х			[104]
Health Communication Program Cycle	х					Х	х	Х		х	х	х	[105]
Health Promotion Model			х				х			х			[106]
Health Promotion Technology Transfer Process	х					Х	x	Х		X	х	х	[107]
Healthcare Improvement Collaborative Model (HICM)	х						х	Х	Х		х		[108]
Hierarchical Model of Intrinsic and Extrinsic Motivation			Х	х			х			х			[109]
I-Change Model (or Integrated Change Model)			х				х			X			[110-111]
Implementation Effectiveness Model					х		х	Х			х		[112-113]
Implementation Process Model	х					х	х	х	х	х	х	1	[114]
Information Technology Adoption Model (ITAM)		х	х				х	Х		х			[115]
Information-Motivation- Behavioural (IMB) Skills Model of AIDS-Preventive Behavior				X			X			X			[116-118]
Institutional Theory				Х			Х			х			[119]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Integrated Mobile Ecological Model for the Promotion of Physical Activity			Х				x			x	x	X	[120]
Integrated Social-Cognitive Framework			Х	х			X			х			[121]
Integrated Theoretical Model for Alcohol and Drug Prevention			Х	X			x			X	X	х	[122]
Integrated Theory of Drinking and Behaviour			Х	х			х			х	х	х	[123]
Integrating Factors Influencing Smoking Behaviour and The Model of Attitude and Behaviour Change			x	X			x			X			[124]
Integrative Factors Influencing Smoking Behaviour Model			Х	х			х			х			[124]
Integrative Model of Behavioural Prediction			Х				х			х	х	х	[125]
Integrative Model of Health and Attitude Behaviour Change				х			х			х			[124]
Integrative Theory of Health Behaviour Change			Х	х			х			х			[126]
Interactive Systems Framework (ISF) for Dissemination and Implementation	х		Х			x	x				х	х	[127]
Intervention Mapping Framework	Х					х	х	Х	Х	х	х	х	[128-129]
Iowa Model of Evidence-based Practice to Promote Quality Care and revision	х					x		X	x	х	х		[130]
Knowledge Exchange Framework			х			х	х		х	х	х	х	[131]
Knowledge Exchange-Decision Support (KE-DS) Model	Х		х			Х	Х	Х		Х	Х	х	[132-133]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Knowledge Translation Model of Tehran University of Medical Sciences	х		X			X	х			X	х		[134-135]
Knowledge-to-Action (KTA) Framework	х					Х	х	Х	х	х	х	х	[136]
KT Framework for AHRQ Patient Safety Portfolio and Grantees	Х					х	x		x	x	X		[137]
Language Expectancy Theory				х			х			х			[138]
LEAN Methodology and Transformation Process	Х							Х			х		[139]
Lewin's Change Theory	х					х	х		х	х	х		[140]
Model by Davis et al.	х					Х	х	Х	Х	х	х	Х	[141]
Model by Huberman	х					Х	х			х	х	Х	[142]
Model by Landry et al. (or The Ladder of Knowledge Utilization)	Х						x			X			[143]
Model for Improvement	х					Х	х	Х			х		[144]
Model of Community-Based Program Sustainability		х	Х						х			х	[145]
Model of Pro-Environmental Behavior			Х				х			х			[146]
Model of Research Utilization in Occupational Therapy	х					Х	х			х			[147]
Motivation-Opportunities- Abilities (MOA) Model of Consumer Behavior			X	х			х			X			[148]
Multilevel Conceptual Framework of Organizational Innovation Adoption			X				х			X	х		[149]
National Center on Health, Physical Activity and Disability (NCHPAD) Knowledge, Adaptation, Translation and Scale-up (N-KATS)	x					x	Х	Х	X	X	X	X	[150]
Navigation Chart	Х						Х	Х	Х		Х		[151]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Needs-Opportunities-Abilities (NOA) Model of Consumer Behaviour			X				X			X			[152]
NHS Sustainability Model		Х	Х						Х	Х	Х		[153]
Normalization Process Theory					Х		х			Х	Х		[154-156]
Organizational Development Theory	х	Х	X		Х	Х	х	X			х		[157-158]
Organizational Readiness for Change (ORC) Theory			Х		Х	Х	х				х		[159]
Organizational Theory of Implementation Effectiveness			Х		Х		х	X			Х		[160]
Ottawa Model of Research Use (OMRU)	х		X				х	Х		х	х	х	[161-163]
Participatory Innovation Diffusion Model			Х				х				х	х	[164]
Participatory Organization Development (OD) Framework for Scaling Up Quality-of-Care Innovations			X				X					x	[165]
Pathways to Evidence Informed Policy (or Evidence-Informed Policy and Practice Pathway)	Х					х	x			X	X	х	[166]
PEN-3 Cultural Model			х				х			х			[167-168]
Plan-Do-Study-Act (PDSA) Cycles	Х						х	Х		х	х	х	[169]
Political Economy of Health				Х			х			Х	Х	х	[170]
PPRNet-TRIP Quality Improvement Model	х						х				Х		[171]
Practical Robust Implementation and Sustainability Model (PRISM)		Х	Х				x	x	х	х	х	Х	[172]
Practice Change and Development Model			X				х			х	х		[173]
Precaution Adoption Process Model (PAPM)					Х		х			х			[174]
PRECEDE-PROCEED Model	х						Х	Х		Х	Х	х	[175-176]

			Taxonomy				KTA	stage		Ch	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
PRIME Theory of Motivation	H	H H	ПŢ	-	It	v 1 x		~~~~~~	v 1 x		<u> </u>	•1	[177-178]
Priming Theory				X			X X			X X	X	x	[179]
Problem Behavior Theory		x	x	X			X	X		X	х	λ	[179]
Problem Solving Model	х	Χ	X				X						[180]
Process Marker Model							X	X		X			[181]
	Х							Х		X	X	X	L 1
Program-Planning Model	Х					Х	Х	Х		X			[183-184]
Promoting Action on Research Implementation in Health Services (PARIHS) Framework		х	x		х	х	х			Х	х	х	[185-187]
Pronovost's 4E's Process Theory	Х					Х	x	Х	Х	х	х	х	[188]
Prospect Theory				х			х			х			[189-190]
Public Health Action Model for Cancer Survivorship			Х				х			х	х	х	[191]
Push-Pull Capacity Model			х				х				х		[192-194]
Quality Implementation Framework	Х					Х	х	Х		х	х	х	[195]
Quality Improvement Supply Chain Model	Х					Х	х			х	х	х	[196]
Reach Effectiveness Adoption Implementation Maintenance (RE-AIM)		х						x	x	X	Х	х	[197]
Real-World Dissemination			х				х			х	х	х	[198-199]
Regulative Research Cycle	х		1			Х	х	х		х	х	х	[200]
Regulatory Fit Theory				х			х			х			[201-202]
Replicating Effective Programs Plus Framework	Х					Х	х	Х	х	х	х	х	[203]
Research and Policy in International Development (RAPID) Framework			Х				x			X	Х	Х	[204-205]
Research Knowledge Infrastructure			x				х				X		[206]
Risk as Feelings Model				x			х			x			[207]
Self-Determination Theory			-	X			X			X			[207]
Self-Efficacy Theory				X			X			X			[209-211]
Self-Regulation Theory							X			X			[209-211]
Sen-Regulation Theory				Х	L		λ			Х	1	I	[212]

			Taxonomy				KTA	stage		Cha	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor knowledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Sequential Model of Behavioral and Social Change (or The Seven Doors Social Marketing Approach)			x				x			X			[213]
Six Staged Model of Communication Effects	х						х			х			[214]
Social Action Theory			х	х			х			х	х		[215]
Social Change Theory				х			Х			Х	х	х	[216]
Social Cognitive Theory				Х			х			Х			[217-218]
Social Consensus Model of Health Education			X				Х			х	X	х	[219]
Social Ecology			Х	Х			х			Х	х	х	[220]
Social Ecology Model for Health Promotion	х		Х				Х	х		х	х	х	[221-223]
Social Influence Model of Virtual Community Participation			x	X			х			х			[224]
Social Learning Theory				х			х			х			[225]
Social Marketing Framework			х				x				х		[226-227]
Social Marketing Planning Model	х					Х	х	Х		х	х	х	[228-229]
Social Norms Theory				х			х			х		х	[230]
Social Problem-Solving Model for Health Behaviour Change			Х				X			Х			[231]
Soft Systems Theory/Methodology	X					Х	X	X			X	х	[232-233]
Stage Theory of Organizational Change	X					Х	X		Х		X		[234-235]
Stages of Research and Evaluation	х					Х	х	х	Х	х	х	х	[236]
Stetler Model of Research Utilization	х					Х	х	х		х	х		[237]
Sticky Knowledge	х		х			х	х		х		х	1	[238-239]
Structural-Ecological Model			х				х			х	х	х	[240]
Systems Model of Health Behaviour Change				х			Х			х		х	[241]
Denaviour Change				I	1	1				I	I		1

			Taxonomy				KTA	stage		Ch	ange lev	el	
Name of TMF	Process model	Evaluation framework	Determinant framework	Classic theory	Implementation theory	Select and adapt knowledge	Barriers/ facilitators and/ or implement strategies	Monitor know ledge use and/or evaluate outcomes	Sustain knowledge use	Individual	Organizational	System	Reference
Technology Acceptance Model			х	х			х			х			[242]
Technology Adoption Criteria in Health (TEACH) Model (or Technology Adoption Curve and its Critical Success Factors)	Х						x			X			[243-244]
Temporal Self-Regulation Theory				х			X			х			[245]
Ten Steps to Systems Thinking	х						х	х				х	[246]
The Black Dog Institute Integrated Model of Knowledge Translation Exchange	х					х	x	x	х	X	Х	х	[247]
Theoretical Domains Framework			Х				X			х	х		[248-249]
Theories of Change Evaluation Model	X	Х						Х		х	х	х	[250]
Theory of Meaningful Learning (including Model)	Х			Х			х			Х			[251-252]
Theory of Normative Conduct				х			х			Х			[253]
Theory of Normative Social Behaviour				х			Х			Х			[254]
Theory of Planned Behaviour				х			х			Х			[255]
Theory of Reasoned Action				х			Х			Х			[256]
Theory of Research Utilization Enhancement for Occupational Therapists (TRUE-OT)				х			х			X			[257]
Theory of Triadic Influence				х			х			х			[258]
Transcontextual Model of Motivation			х	Х			х			Х			[259]
Transtheoretical Model of Behaviour Change				Х			х			х			[260]
University of Hawai'i Center for 'Ohana Self-Management of Chronic Illnesses (COSMCI) Conceptual Framework			X				x	X		X			[261]
Utilization-Focused Surveillance Framework			х			Х	X	х			х	х	[262]

			Taxonomy				KTA	stage		Cha	ange lev	el	
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Value Belief Norm Theory			Х	Х			Х			х		х	[263]
Western Australia Health	х					Х	Х	х				х	[264]
Network Policy Development													
and Implementation Cycle													
Yin's Routinization Framework	х		Х		Х		Х		х	х	х	х	[265-266]
Total	86	16	97	59	12	61	192	76	41	172	126	96	

Appendix 5. References for 210 TMFs from mapping exercise

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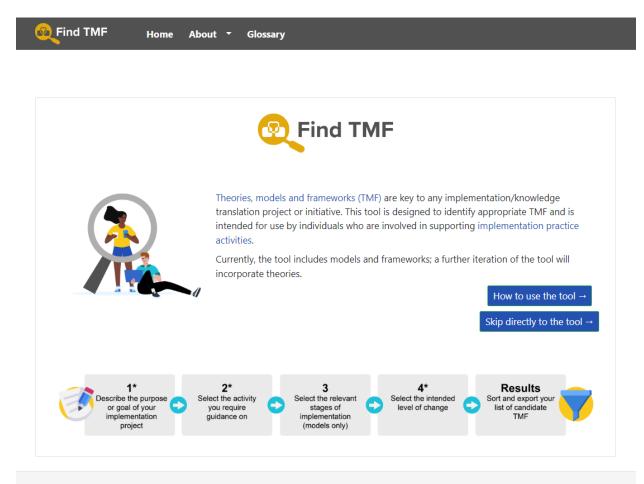
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Appendix 6. Screenshots of final tool homepage and results page

Screenshot of tool homepage



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Screenshot of tool results page

