

KNOWLEDGE TRANSLATION CANADA Application des connaissances CANADA



How to Develop and Critique a KT Plan

Kelly Mrklas, MSc Ian Graham, PhD, FCAHS June 11, 2014

2014 KT Summer Institute Quebec City

Université d'Ottawa | University of Ottawa



uOttawa

L'Université canadienne Canada's university

www.uOttawa.ca



Learning Objectives

- In the next 60 minutes you will learn how to:
- 1. Describe three broad categories of knowledge translation;
- 2. Identify key elements of a strong end of project KT plan;
- 3. Deconstruct and critically appraise a KT plan







Three Categories of KT





Three Categories of KT

Integrated KT research

KT/Implementation Science

- Research approaches that <u>engage potential</u> <u>knowledge-users as partners</u> in the research process.
- requires a collaborative or participatory approach to research that is action oriented and is solutions- and impact-focused.
- The study of how to promote uptake of research/knowledge in decision making

End of project KT

 The researcher develops and implements a plan for making knowledge users aware of the knowledge generated through a research project





End of project KT

Diffusion (let it happen)

Dissemination (help it happen)



⇒ tailoring the message and medium to an audience

Application/Implementation (make it happen)

- moving research into practice/policy if strength of evidence is sufficient
- ⇒ use of a conceptual model to guide application recommended
- ⇒ ...can be achieved through iKT research





So what is KT?

- <u>KT Research</u>:
 - doing research in a collaborative fashion (iKT)
 - the science of translation/implementation research (studying determinants of knowledge use, effective methods of promoting knowledge uptake)

AND

- the <u>Practice</u> of translation:
 - reducing the know-do gap
 - Making users aware of knowledge, facilitating use of it to improve health and health care systems
 - Transforming evidence into practice (knowledge to action)
 - End of Grant KT





Key Elements of KT Plans





What is a KT Plan?

- Links research goals to KT goals
- Operationalizes our intent to enhance, optimize research impact
- Deliberative tool, integral to research process
- Iterative, living documents: should evolve alongside research program (post-award and during project)

(Graham et al., 2013)





Why do I need a KT Plan?

- KT plans = reverse engineer impact
 - Tangible impact on 4P [patients, providers, public and policy] and health systems-relevant questions
 - Consider knowledge user needs → meet the knowledge user where they are at
 - Engage knowledge user in the process
 - Optimize uptake and use of research evidence
- Outlines approach and key elements for action
- KT plans can help enhance grant cohesiveness
- Typically required by funder...





End of Grant KT Plan Components

- Goals
- Audience
- Strategies
- Expertise
- Resources



(Wilson et al., 2010; CIHR, 2012; Graham et al., 2013; Mrklas (2012) - KT Plan Template)





End-of-Grant KT Factors: Goals

- Two typical goals of end-of-grant KT activities: raising awareness and promoting action
 - KT goals must be appropriate for nature of the research findings and target audience(s).

Bottom line: clearly state and justify your proposed KT goals. Can be linked to research objectives but <u>must be discrete and present</u>.



Factor Key Questions Options KT goals could include: Are the KT goals clear, concrete and well justified? increase knowledge/awareness inform future research Are your KT goals appropriate to the ٠ inform/change attitudes potential research findings and target inform/change behaviour Goals audience(s)? inform/change policy inform/change practice inform/change technology other: Target audiences ceuld include: Dees the plan consider all potentially relevant audiences? general public community-based and not-for-profit Are the audiences precisely defined organizations in terms of their sector, roles, healthcare professionals/service provide responsibilities and decision-making health system administrators/managers needs/opportunities industry/venture capital group Audience media (print, TV, etc.) Does the plan demonstrate a patients/consumers thorough understanding of the policy-makers/legislators proposed target audience(s), private sector including the current state of their research funders knowledge in the research area and researchers their needs and preferences for using other: knowledge? URL: http://www.cihr-irsc.gc.ca/e/documents/k



End-of-Grant KT Factors: Audience

Applicants should identify the individual(s) and/or group(s) who should know about research findings.

- Demonstrate detailed understanding of knowledgeuser audience(s)
- Be aware of the current state of the audience's knowledge, how they tend to use knowledge and formats in which they prefer to receive information.

Bottom line: clearly identify and justify your target audience(s), including representative knowledge users on your team



Appendix A: End-of-Grant Knowledge Translation Plan Worksheet

| Factor | Key Questions | Options |
|----------|---|--|
| Goals | Are the KT goals clear, concrete and well justified? Are your KT goals appropriate to the potential research findings and target audience(s)? | KT goals could include: increase knowledge/awareness inform future research inform/change attitudes inform/change behaviour inform/change policy inform/change practice inform/change technology other: |
| | | |
| Audience | Does the plan consider all potentially relevant audiences? Are the audiences precisely defined in terms of their sector, roles, responsibilities and decision-making needs/opportunities | Target audiences could include: general public community-based and not-for-profit organizations healthcare professionals/service providers health system administrators/managers industry/venture capital group media (print, TV, etc.) |
| | Does the plan demonstrate a thorough understanding of the proposed target audience(s), including the current state of their knowledge in the research area and their needs and preferences for using knowledge? | media (print, TV, etc.) patients/consumers policy-makers/legislators private sector research funders researchers other: URL: http://www.cihr-irse-ge.ca/e/documents/kt_ |



End-of-Grant KT Factors: Strategies

Choose methods to reach the identified audience(s) and deliver on KT goal(s) that are <u>appropriate</u> to the nature of the research results.

- End-of-grant KT strategies fall into three categories
 diffusion, dissemination, application
- Nature of target audience(s) and type(s) of evidence determine choice of strategies

Bottom line: strategies should support KT goals, adapt knowledge to your audience's needs, context



| F | actor | Key Questions | Options |
|------|-----------------|--|---|
| Str | rategies | Are the strategies appropriate to achieve the knowledge translation goals? Does the plan take into consideration the context in which the knowledge is to be used? If appropriate, is there a plan to adapt the knowledge for each specific audience? Have mitigating factors been considered that might affect the applicability of the research findings or the effectiveness of the planned KT activities? Does the plan consider barriers and facilitators to knowledge use? Are key messages clearly identified? | Strategies could include: Diffusion conference presentations peer reviewed publications peer reviewed publications (open access journal/archive) technological provision/upgrade web-based activities (postings, wikis, blogs, podcasts, etc.) other: Dissemination arts-based KT activity audit and feedback communities of practice decision-supports (<i>e.g.</i> , web-based) develop new educational materials/ sessions dissemination events/courses (<i>e.g.</i> , conference, symposium, CME) engage champion(s)/opinion leader(s) financial intervention or incentive interactive small group meeting/workshop knowledge broker involvement media release/outreach campaign networks/networking patient-mediated intervention performance feedback plain language summaries reminders social marketing summary briefings to stakeholders other: |
| URL: | JRL: http://www | (CIHR, 2012) .cihr-irsc.gc.ca/e/documents/kt_lm_ktplan-en.pdf | Application Working with knowledge-user(s) to: adapt knowledge for use commercialize identify barriers to the use of findings tailor messages and interventions to promote use other: |



End-of-Grant KT Factors: Expertise

Specific expertise might be required to deliver on identified strategies. For example:

- development of specialized products might require IT, communications, or other experts
- reaching audiences that are difficult to engage might require intermediaries (e.g., knowledge brokers)
- expertise represented should be driven by KT goals, audiences and strategies

Bottom line: demonstrate you have appropriate level of expertise on team to complete the end-of-grant KT



| Are all necessary participants involved to achieve the stated goals? Is there sufficient description of participants' KT expertise and/or past activities to assess the team's ability to execute the proposed strategies? Where appropriate, does the team plan to collaborate with members of plan to collaborate with me | i · 17 · |
|--|----------|
| Are all necessary participants involved to achieve the stated goals? Is there sufficient description of participants' KT expertise and/or past activities to assess the team's ability to execute the proposed strategies? Where appropriate, does the team plan to collaborate with members of | |
| Is there sufficient description of participants' KT expertise and/or past activities to assess the team's ability to execute the proposed strategies? Where appropriate, does the team plan to collaborate with members of the value of the val | als in |
| Where appropriate, does the team website developer/IT expert | |
| its target audience(s)? | |
| Necessary resources could include: | |
| Does the budget allocate adequate financial support to implement the design/layout | |
| plan? plan? writer/editor) | ert, |
| Resources Consumables mailing and postage media development and release open access publication fees production/printing teleconferences/travel web-related costs (blogs, podcasts, v website development/maintenance) | |
| (CIHR, 2012) URL: http://www.cihr-irsc.gc.ca/e/documents/kt_Im_ktplan-en.pdf URL: http://www.cihr-irsc.gc.ca/e/documents/kt_Im_ktplan-en.pdf | |



End-of-Grant KT Factors: Resources

Applicants should demonstrate that the proposed KT activities can be delivered

 Financial resources, human resources, and/or access to resources should be considered

Bottom line: demonstrate the end-of-grant KT plan can be accomplished with available resources



| Expertise | Are all necessary participants involved to achieve the stated goals? Is there sufficient description of participants' KT expertise and/or past activities to assess the team's ability to execute the proposed strategies? Where appropriate, does the team plan to collaborate with members of its target audience(s)? | Expertise required could include individuals in the following roles: knowledge broker community leader KT specialist management public relations volunteer website developer/IT expert other: |
|-----------|---|---|
| | Does the budget allocate adequate financial support to implement the plan? | Necessary resources could include: <u>Human Resources</u> design/layout fees for professional expertise (e.g. knowledge broker, KT specialist, IT expert, writer/editor) |
| Resources | (CIHR, 2012) URL: http://www.cihr-irsc.gc.ca/e/documents/kt_Im_ktplan-en.pdf | Consumables mailing and postage media development and release open access publication fees production/printing teleconferences/travel web-related costs (blogs, podcasts, wikis, website development/maintenance) workshops/meetings/networking costa other: |



An iKT approach to end of project KT

- Engaging knowledge users* in developing and executing KT plans to:
 - Help craft the research messages so that language, format appropriate for intended audience
 - Gain insider knowledge about credible messengers
 - Suggest potential KT strategies attractive to their colleagues
 - Use existing communication channels to reach colleagues

*to understand the knowledge use context and culture





Critical Appraisal of KT Plans







Judicious Knowledge Translation

- Decisions about extent and ambitiousness of KT plans should be guided by:
 - Reliability
 - Validity
 - Strength and significance of the findings
- Be wary of: single small studies, poor methodological quality, or low evidence strength
- Key messages: tailored to be easily assimilated by knowledge/end users







Tips for end-of-grant KT

- Expected research findings, target audience and KT strategies must match
- KT activities/messages are tailored to audience needs
- Assume KT will change, grow as research advances...
 - But assume the budget won't!
- Potential key messages OK, but not necessary at submission

(CIHR, 2012; Graham et al., 2013) (Mrklas (2012 & 2013) – UC KT Consult Service: Collaborative Research and Innovation Opportunities (CRIO) Prep)





Critical Appraisal – The KT Sniff Test

- Unclear KT goals (or goals that are not discrete from research goals with one exception...KT projects!)
- Lack of linkage between KT and research goals
- Poorly built/articulated knowledge-to-action gap
- Non-specific strategies, words without content
- K that is not ready for T

(CIHR, 2012; Graham et al., 2013; Mrklas (2013 & 2014) - UC KT Consult Service: Collaborative Research and Innovation Opportunities (CRIO) Prep)





Critical Appraisal - The KT Sniff Test (2)

- Incongruent or misused language
- Too much (or too little) KT doing everything to everyone
- Budgets and expertise that don't match proposed activity
- 'Placeholder' engagement with knowledge-users
- Incongruent level of detail between research proposal and KT plan
- Lack of evaluative rigor for proposed KT activity, inappropriate or superficial metrics

(CIHR, 2012; Graham et al., 2013; Mrklas (2013 & 2014) - UC KT Consult Service; Collaborative Research and Innovation Opportunities (CRIO) Prep)





Some Translation Resources







General KT Resources

- Knowledge Translation in Health Care: Moving from Evidence to Practice, 2nd Edition (2013) by Straus, Tetroe, Graham (Eds.)
- Chapter-based Overviews of KT in Health Care (CIHR slide decks) http://www.cihr-irsc.gc.ca/e/40618.html#toc
- CMAJ KT Series 182(2), Feb 9, 2010 under 'Reviews'

iKT and End of Grant KT Resources, Developing KT plans

- •<u>http://www.cihr-irsc.gc.ca/e/documents/kt_Im_ktplan-en.pdf</u> (KT Plan Elements and How To)
- •http://www.cihr-irsc.gc.ca/e/45321.html

Real-World Examples – KT in Action

- http://www.aihealthsolutions.ca/rtna/ktcasebook.php
- •http://www.cihr-irsc.gc.ca/e/documents/kt_lm_ktplan-en.pdf
- http://www.cihr-irsc.gc.ca/e/38764.html
- http://www.cihr-irsc.gc.ca/e/41594.html
- http://www.cihr-irsc.gc.ca/e/30739.html
- http://www.cihr-irsc.gc.ca/e/30660.html
- •http://clahrc-sy.nihr.ac.uk/theme-knowledge-projects-casebook.htm

AIHS KT Casebooks Examples of iKT KT casebook End of project KT KT in population/public health Health services/policy KT South Yorkshire KT Casebook







• CIHR Knowledge Translation and Commercialization Website

cihr-irsc.gc.ca/e/29529.html

- **KT Clearinghouse Website** (ktclearinghouse.ca)
 - KT Knowledge Base
 - Interactive Knowledge-to-Action cycle
 - Models/Theories, Learning Resources, Glossary

KT Canada Website (ktcanada.net)

- KT listserv (click *subscribe* in the grey bar)
- KT Canada National Seminar Series Sept-May, 2nd Thurs of month 10-11MT
- STIHR Fellowships, KT Summer Institute Competition (Spring deadline)





KT Resources (3)

• Writing Letters of Support

www.cihr-irsc.gc.ca/e/45246.html

• Applying to Integrated Knowledge Translation Funding Opportunities at CIHR: Tips for Success

ktclearinghouse.ca/ktcanada/education/seminarseries/2011/20110908

• Operating Grant: Knowledge to Action - Tips from the Chair and Reviewers

www.cihr-irsc.gc.ca/e/44246.html

• Top 10 Tips for PHSI Success

www.cihr-irsc.gc.ca/e/38778.html





Funding for End of Project KT

- KT should be budgeted for in each grant application or initiative
 - CIHR
 - Planning/Dissemination Events grant now called "Institute Community Support (ICS) Program"
 - Other Jurisdictions
 - \cdot For example:
 - AIHS Conference grant
 - AIHS Knowledge-to-Action (KTA) grant



I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do Leonardo da Vinci



