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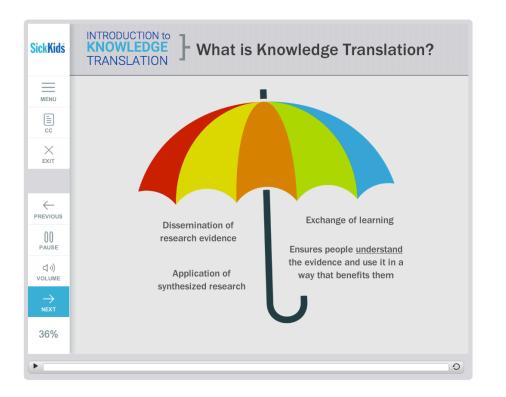
Marilee Nugent, PhD Università degli Studi di Firenze

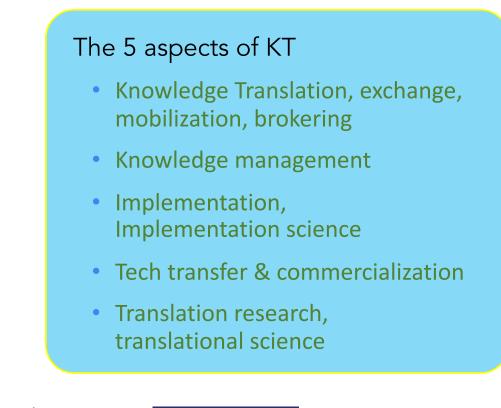


This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement 861570.

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What is KT?





Source: SickKids Learning Institute. (eLearning Module) Introduction to Knowledge Translation

SickKids ACADEMY

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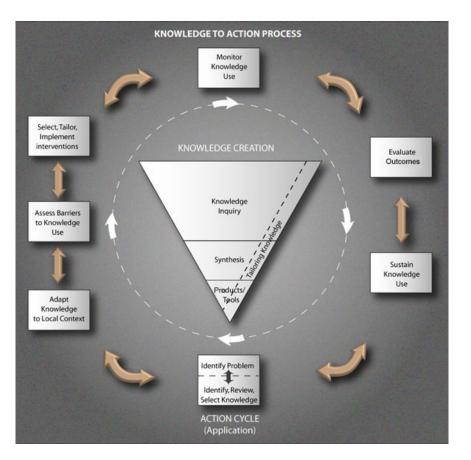


What is KT?

- Dynamic
- Iterative
- Synthesis
- Dissemination
- Exchange
- Processes
- Products & tools
- Ethically sound application of knowledge to benefit society







Knowledge-to-action model for research dissemination (Graham, 2006)



Why do KT?



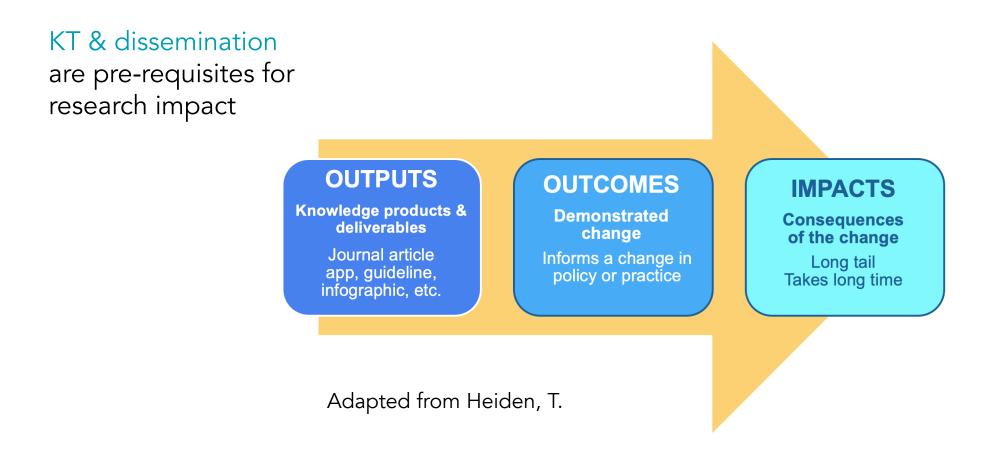
Source: SickKids Learning Institute. (eLearning Module) Introduction to Knowledge Translation



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KT is targeted dissemination & implementation

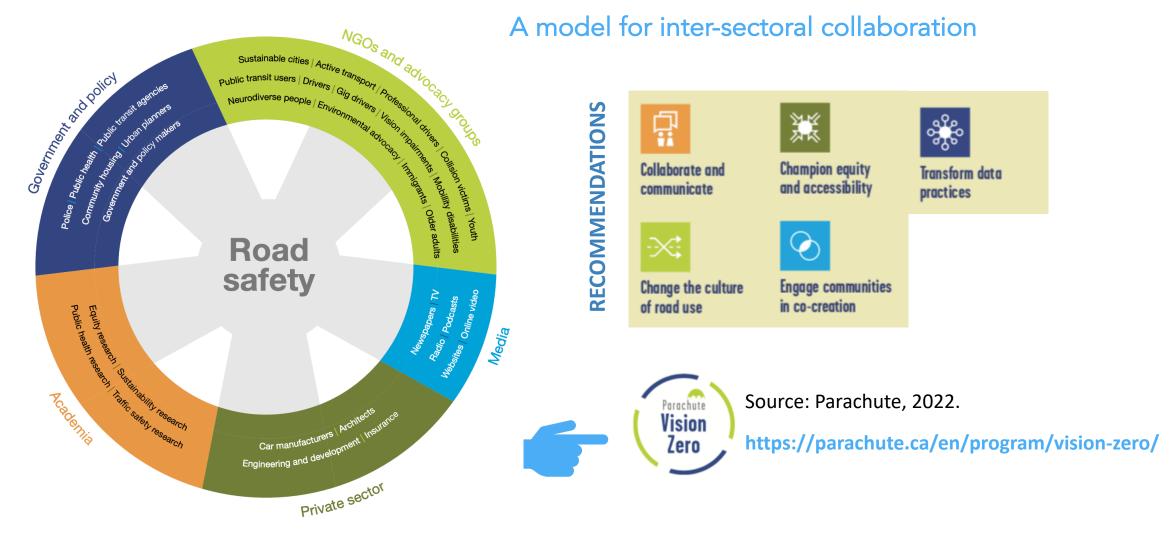


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Motivation for exploring KT of road safety innovation

- Are we taking a big enough view and approach to motorcycle safety?
- Are we reaching the right people with our research?
- Are we delivering the right message(s)?
- Are we using the most up-to-date knowledge & methods?
- Do we understand the barriers and facilitators to the uptake and practical application of motorcycle safety knowledge?
- Are we directing and apportioning our efforts effectively?

INTERSECTIONS OF ROAD SAFETY



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SAF = UPF

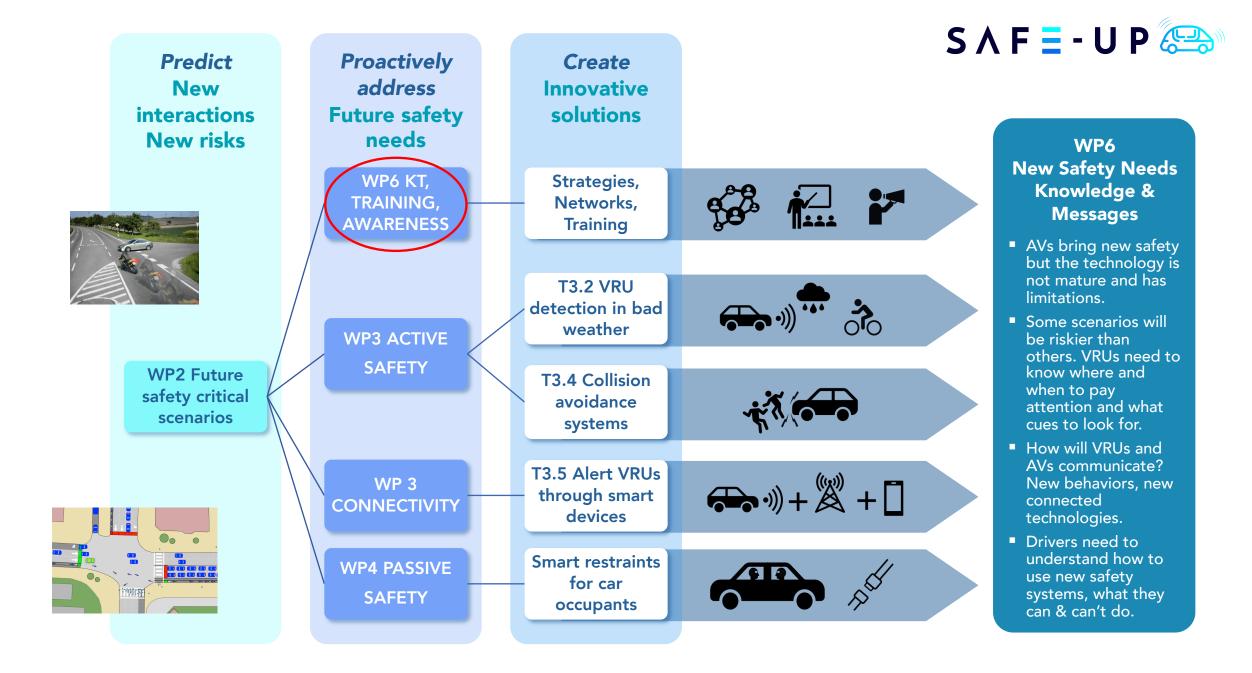
Proactive SAFEty systems and tools for a constantly UP grading road environment H2020 MG-2-7-2019 June 2021 – May 2023



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement 861570.

Nork Package 6

Training activities and awareness creation on future traffic scenarios Marilee Nugent, UNIFI Eleni Chalkia, CERTH/ HIT



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Overview of WP6 Training activities and awareness creation on future traffic scenarios

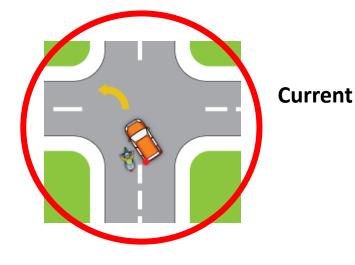
Mission

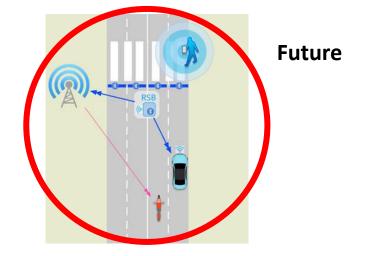
In WP6 it is our mission to increase the potential safety benefit of project research results and innovative safety technology.



Vision:

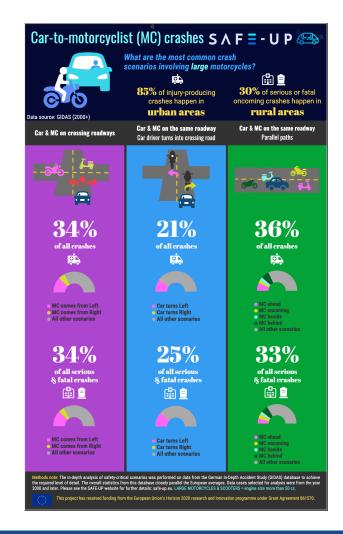
We do this by engaging with potential Knowledge Users and stakeholders to help us link outcomes to user needs, translate results into key safety messages that are accessible, relevant and actionable and develop training and awareness strategies including innovative educational programs and a multimedia library of KTproducts.

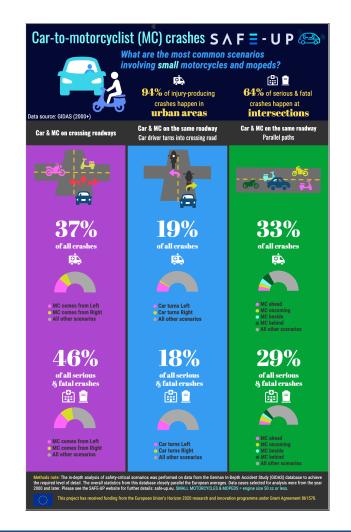




Current Safety-Critical Scenarios in the EU

- Safety-critical scenarios for small and large PTWs in car-to-PTW crashes
- German In-Depth Accident study (GIDAS) – database analysis (2000-2022)
- Bálint, et al., 2021. SAFE-UP report D2.6





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Human causal factors in car-to-PTW crashes (MAIDS)

- Huertas-Leyva, et al., 2021 Human error in motorcycle crashes
- Motorcycle Accident In-Depth Study (1999-2001)
- A methodology based on in-depth data to identify the skills needed and support training interventions for safe riding.
 - Identified scenario types (frequency x injury severity).
 - Identified human errors as causal factors.

| | | | Total | SCP/LD | TIP/LD | TAP/OD | TAP/SD | RE/SD | HS/OD |
|------------|----|------------------|-------|---------------------|---------------------|---------------------|--------|-------|-------|
| | _ | detection | 40.8% | <mark>47</mark> .8% | 56. <mark>0%</mark> | <mark>67.4</mark> % | 50.0% | 21.2% | 13.6% |
| | OV | decision | 12.2% | 12.5% | 16.0% | 15.8% | 15.7% | 9.6% | 11.9% |
| | | exec./compreh. | 1.7% | 1.5% | 0.0% | 2.1% | 3.0% | 1.9% | 3.4% |
| | - | detection | 9.3% | 9.6% | 2.0% | 3.2% | 11.9% | 28.8% | 8.5% |
| | | comprehension | 2.4% | 3.7% | 3.0% | 2.1% | 3.0% | 3.8% | 0.0% |
| î ™ | MC | decision | 13.1% | 11.8% | 9.0% | 3.2% | 14.2% | 11.5% | 25.4% |
| | - | execution | 4.8% | 1.5% | 0.0% | 1.1% | 0.0% | 5.8% | 13.6% |
| 5.P. 9054 | | unknown type | 2.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 1.7% |
| | | view obstruction | 4.4% | 4.4% | 12.0% | 4.2% | 0.7% | 1.9% | 6.8% |
| | | other | 9.0% | 7.4% | 2.0% | 1.1% | 1.5% | 15.4% | 15.3% |

Key components in KT planning

Tool used to guide WP6 activities.

- **Project Partners**
- 2. Degree of Partner Engagement
- Partner(s) Roles 3.
- KT Expertise on Team 4.
- 5. Knowledge Users
- Main Messages 6.
- KT Goals 7.
- 8. KT Strategy(s)
- 9. **KT** Process
- **KT** Evaluation 10.
- Resources 11
- 12. **Budget Items**
- Plan implementation 13.

Knowledge Translation Planning Template[©]



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INSTRUCTIONS: This template was designed to assist with the development of Knowledge Translation (KT) plans for research or non-research projects. It is universally applicable to health and other disciplines. Begin with box (1) and work through to box (13) to address the essential components of the KT planning process. Two e-learning modules are available for additional support: https://bit.ly/2rh0LZc

| (1) Project Partners | (2) Partner Engagement | (3) Partner Roles | (4) KT Expertise |
|---|---|---|--|
| | | * * | Ø |
| Who could benefit from this evidence? Researchers Practitioners/service providers Public Media Patients/consumers Decision makers Decision makers Policy makers/government Private sector/industry Research funders Volunteer health sector/NGO Other: | When will partner or knowledge user (KU) engagement happen? Integrated KT From idea formulation straight through After idea formulation & straight through End of Grant At point of dissemination & project end Beyond the project Note: Not all partners will be engaged to the same extent or at the same point in time. Some will be hired for specific activities. | What will partner(s) or KUs bring to the project? How will they assist with developing, implementing or evaluating the KT plan? | Do you require KT expertise an how will this be accessed? Scientist(s) with KT expertise Consultant with KT expertise Knowledge broker/specialist KT supports within the organization(s) KT supports within partner organization(s) KT supports hired for specific task(s) Note: If your KT involves implementation for practice or behavior change, include an implementation specialist or scientist. |
| Notes | | | |
| © 2008, 2013, 2019 The Hospital for Sick Ci | nildren | Si | ckKids ACADEM |

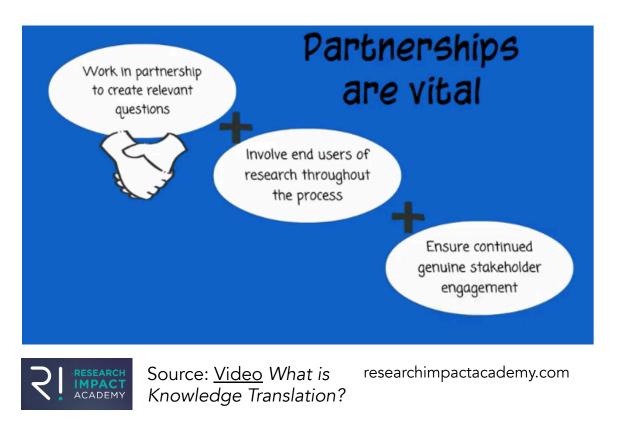
Source: Barwick, M. (2008, 2013, 2019). KTPT[©]

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Engaging Project Partners

- Who can use the knowledge?
- Who can ensure the project's success?
- Best practice integrated KT
 - Partners engaged throughout the research project
- You're are invited to be involved!





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Ad Hoc Safety Partner Network

Currently engaged

IFP - International Federation of Pedestrians

ECF - European Cyclists Federation

FEMA - Federation of European Motorcyclists' Assns

IFZ - Institute for two-wheeled safety

EFA - European Driving Schools Association

POLIS - Cities network on transport innovation

ERTICO - ITS Europe

ETSC – LEARN! Project

ACEM – European Association of Motorcycle Manufacturers

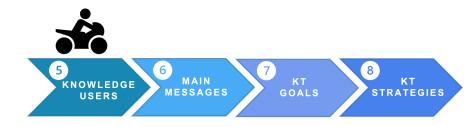
Next phase....



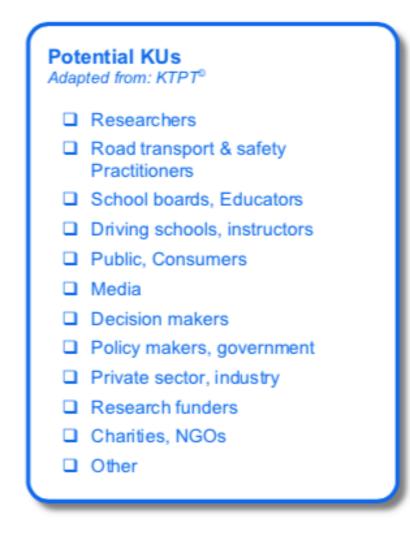
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Using the KTPT – (5) Knowledge Users (KUs)

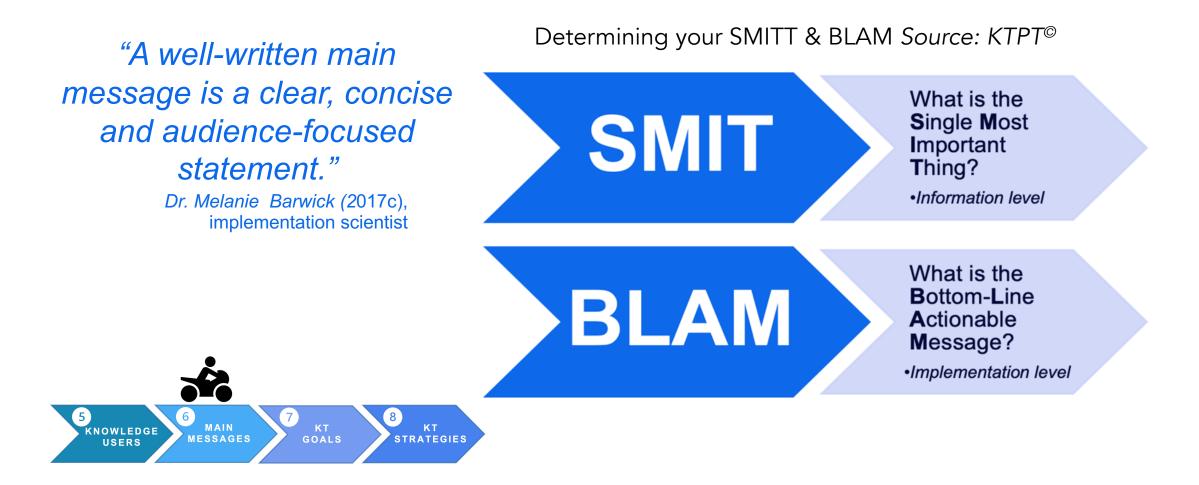


- Target audience(s)
- Not just end users....
- Think of Next knowledge users
- Who needs to know about what you have learned?
- Who is going to be interested in your research findings?





Using the KTPT – (6) Main Message (MM) from results



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Using the KTPT – (6) Main Message (MM) from results

Considerations for developing KT outputs: 1) consider what you're sharing



Presentation Knowledge Research outputs are the data/ingredients for the cake

We organise, summarise and catalogue this to 'bake' into our information cake.

We then present this information in a way in which we feel is most useful and "palatable" to our intended audiences with the intention they will consume it and be able to make use of new knowledge.



5

USERS



SOURCE: http://epicgraphic.com/data-cake/ Data cake metaphor, Mark Johnstone



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Source: Barwick, M. et al. (2021). Knowledge Translation Professional Certificate – course Manual.

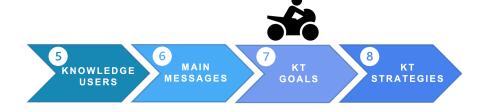




Using the KTPT – (7) KT Goals

"Being clear about why you are communicating your research findings is central to effective KT."

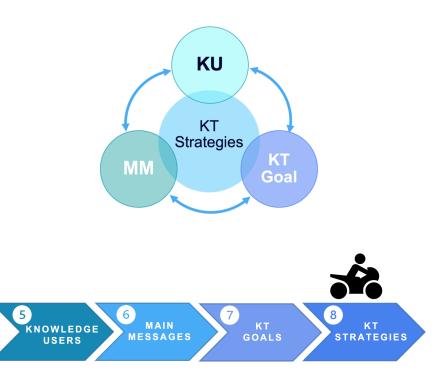
> Dr. Melanie Barwick (2017c), implementation scientist





Using the KTPT – (8) KT Strategies

Selected strategies should be user-centred, aligned with goals and evidence-informed as to potential effectiveness



| Which KT strategies wil | Which KT strategies will you use? Consider your KT Goal(s) and select accordingly. KUs, MMs, KT Goals and KT strategies should align with each other | | | | | |
|---|--|---|---|--|--|--|
| Generate Awareness, In Share Knowledge, Infor | | Inform Research | Facilitate Policy Change | | | |
| Champion/c Consultant Consultant Leadership Collaboration Educational Plain langua Policy brief Grey literatu Publication Workshop, | 1 2 3 ↓ ↓ ↓ Role-Based □ □ - Knowledge Broker □ □ - Champion/opinions leader □ □ - Consultant □ □ - Leadership □ □ - Collaboration/partnership Educational □ - Materials (guide, toolkit, pamphlet) □ □ - Plain language summary □ □ - Grey literature | Audiences 1 2 3 ↓ ↓ Role Based □ □ - Science collaboration □ □ - Network Educational □ - Peer reviewed publication □ □ - Conference □ □ - Workshop □ - Synthesis document □ - Other document Technological □ - Social media | Audiences 1 2 3 ↓ ↓ ↓ Role Based Collaboration/partnership Science policy fellowship, placemer Knowledge broker Educational (also see far left column) Peer reviewed publications | | | |
| - Professiona | | Facilitate Practice or Behaviour Change | Commercialization / Technology Transfer | | | |
| _ | | Note: If your KT goal includes practice or behaviour change you should begin with dissemination goals (share, inform) to set the stage and create buy in. | J = - Patent J = - Technology transfer/commercialization | | | |
| Arts Based K | т | Follow with an implementation plan – see The Implementation Game ¹ and worksheet here: <u>https://bit.ly/333VkyB</u> | Note: See the Technology Transfer Planning Template ² here: <u>https://bit.ly/2Gvp3ru</u> | | | |

LEARNING

INSTITUTE

ONLINE

MOVI

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Example: Translating results on current safety-critical scenarios*

| 5. Knowledge Users | 6. Main message | 7. KT Goals | 8. KT Strategies |
|--|--|--|--|
| Partners Educators, Driving instructors Road users • URUs • Drivers | New findings explain the most frequent and serious crashes between PTW riders and passenger car drivers and the mistakes drivers and riders make. Use this knowledge to anticipate hazardous situations for motorcyclists and to make better choices to reduce risk. | Generate awareness Inform Educate Impart skills, tools Promote behaviour change* | Tailored materials according to KU preferences, needs. Infographics. Videos based on crash reconstructions showing multiple user POV. Interactive learning modules integrating the above materials. |

* Refer to slides 11-12 – What would be your KU, MM, KT Goal?

S A F \equiv - U P \approx Context: What is the current road safety paradigm?



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The Safe System Approach in Action



Research Report

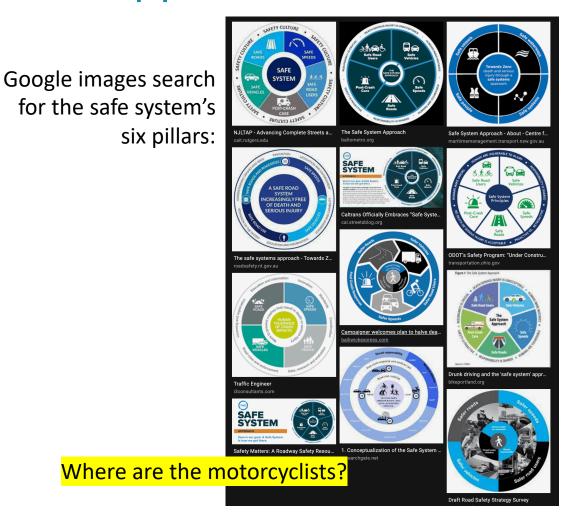
"Today, the Safe System approach is at the centre stage of road-safety policy making at the global, regional and national levels." ITF (2022)

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The Six pillars of the safe systems approach

- 1. Road-safety management
- 2. Safe roads
- 3. Safe vehicles
- 4. Safe speeds
- 5. Safe road-user behaviour
- 6. Post-crash care



Language of road crashes

- Making the message palatable, e.g. to vulnerable mode advocacy groups.
- Word choices shape perception and conceptualization of road crashes.
- Understanding guides our problem statements.
- Alignment with current paradigms.
- Where are the motorcyclists?



Language Matters

| STOP | | GO |
|---|---|--|
| Accidents | - | Collisions or crashes |
| "A car hit a pedestrian." | - | "A person driving hit someone walking." |
| Bikers, Cyclist | - | People biking |
| Pedestrians | - | People walking |
| Drivers | - | People driving |
| Disabled person | - | A person with a disability |
| Transit riders | - | People using transit |
| Transportation Alternatives | - | Transportation Choices |
| "As a cyclist, I" | - | "As a [mom, neighbor, teacher, resident] who often bikes, I" |
| "I bike 8th Street and it stresses me out." | - | "When I drive, bike, or walk 8th Street, I get stressed out." |
| Cycle track | - | Protected bike lane |
| Biking advocates, walking advocates | - | Citizen Advocates or Neighborhood advocate |
| R.R.F.B, Pedestrian Hybrid Beacons | - | Safer ways to cross these stroads! |
| Active transportation | - | Healthy Transportation |

Source: Norte elgruponorte.org

Six language choices that affect how people perceive road collisions

| Language style | Status quo reporting style | Negative implications | Better practice |
|--|--|---|--|
| Word choice | ACCIDENT: Motorcyclist killed in accident on Main Street. | Obscures preventable nature of crashes. | CRASH COLLISION: Motorcyclist killed in <mark>crash</mark> on Main Street. |
| Expression of agency | NO AGENT GIVEN: A scooter rider was hit and killed. | Obscures role of a human actor. | AGENT GIVEN: A scooter rider was hit and killed by a car. |
| Subject and verb tense. | FOCUS ON RIDER: A motorcyclist was hit and killed by a car. | Increases blame for focus of sentence. | FOCUS ON DRIVER: A car hit and killed a motorcyclist. |
| Focus on machines vs. humans | OBJECT-BASED: A car went through a stop sign. | Obscures role of a human actor. | PERSON-BASED: A car <mark>driver</mark> went through a stop sign. |
| Information, data on pre-crash phase | COUNTERFACTUAL STATEMENTS: The moped wasn't there when I looked. | Increases perceived blame for the victim. | (not included) |
| Framing of the problem – micro vs. macro POV | EPISODIC FRAMING: Treats the crash as an isolated incident. | Points to individual faults rather than systemic dangers and solutions. | THEMATIC FRAMING: This is the tenth fatal collision this year. |

Adapted from: Parachute, 2021. Change the language change perceptions: how we talk about road collisions.

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Can our (unconscious) paradigm choice enhance or constrain our approaches to safety solutions?

| | 1900-1920 | 1920-1950 | 1950-1970 | 1960-1985 | 1985/1990-Now |
|-----------------------------|---|---|---|--|--|
| Paradigm | Chance, bad luck | Road devils, accident prone drivers | Road user, vehicle, road | Multi-causal approach | Results of integral road system |
| Approach | What | Who | How: the cause | How: which causes, technical improvements | Multi-dimensional, economic analysis |
| Interventions | Ad hoc | Educate, punish | Engineering, education, enforcement. | Technical solutions for vehicle and road. | Adapt road system to road user. |
| Possible Message Main | If you ride a motorcycle, sooner or later you will go down. Ride at your own peril. | Reckless riders bring misfortune onto themselves! Follow the rules, pay attention, don't speed or else! | Understand the common hazards to motorcycling to reduce your risk (e.g. vehicle maintenance, road surface hazards, common mistakes made by riders and drivers). | Results on the most common crashes should inform design of safety systems to compensate for rider and driver failings (e.g. ABS, CITS). Riders should purchase bikes with current safety technology and practice using it. | Results on common crash scenarios and human causal factors should inform further systems analysis to identify interacting danger conditions and to guide multi-faceted interventions that address the six pillars of safe systems. |

Adapted from: Hagenzieker, et al., 2014. The history of road safety research: A quantitative approach.

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Contextualizing MC research results within current paradigms, best practices, global and local agendas . . .

- What happens to our
 - Choice of target audience?
 - Main Message?
 - Goals for sharing knowledge?
 - Strategies for for realizing our goals?
 - Methods for measuring success? *KTPT (10)*



Our choice of road safety paradigm can have serious safety and ethical implications for the outcomes of intervention development:

"Overstating the role of road-user error may result in a reduced focus on effective countermeasures that address systemic failures in this causal chain." - ITF, 2022 pp. 12-13



Hoboken prioritizes intersection visibility over car parking (Youtube)

Our conceptualization of road danger/safety is influenced by historical bias, which can perpetuated by the language used to communicate about road crashes.

Guardian

How car culture colonised our thinking - and our language

As researchers we have ethical and scientific responsibilities to beware of historical social biases being unconsciously inserted into the research process.

"Safer use of vehicles, effective education and training schemes and increased awareness of all road users."

- Call: H2020-MG-2018-2019-2020 (Mobility for Growth) Is this the most effective KT goal?

THERE ARE ACCIDENTS The Deadly Rise of Injury and Disaster — Who Profits and Who Pays the Price JESSIE SINGER

Deconstruction of victim-blaming discourse changes the narrative on human error in crash causation and redistributes the shares of responsibility according to who has the real power to remove and mitigate road danger.

"Thus, the design and operation of the road transport system should guide the road user to safe behaviour and mitigate the consequences of common human errors." (ITF, 2016 p. 26) ROAD WORK AHEAD

PARADIGM

SHIFT

Some recommendations & paths to explore

- Partner with other unprotected (URU) groups and learn from them, find common goals and objectives for mutual support.
- Build capacity for engagement & leverage community and organizational shared interests.
- Forge stronger links to current paradigms and agendas.
- Utilize research, methods and critical thinking practices from disciplines outside STEM subjects.
- More, better cross-disciplinary research collaboration for knowledge cocreation
- Lean on implementation science.



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The SAFE-UP partners







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THANK YOU!

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Upcoming KT and research impact events and training opportunities

Courses offered through SickKids Learning Institute website

- Knowledge Translation Professional Certificate[™] (KTPT)
 - October 24-November 1, 2022 (online via Zoom)
- Specialist Knowledge Translation Training (SKTT)
 - <u>22 November 2022 (Australia)</u>
- Specialist Knowledge Translation Training (SKTT)
 - January 19-20, 2023 (delivery method to be determined)
- Planning for Implementation Practice[™] (PIP)
 - May 2023 (Two days, dates and delivery method to be determined)

Research Impact Summit 2022 – <u>free online event</u>

• October 26-27 Hosted by Research Impact Academy