

KNOWLEDGE BROKERING TO ADVANCE OCCUPATIONAL THERAPY PRACTICE

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#CAOT2018

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Who we are:



Stephanie Glegg, MSc, PhD Candidate, OT (reg)

- **Knowledge Broker Facilitator**
Sunny Hill Health Centre for Children
- **PhD Candidate, Vanier Scholar & Public Scholar**
Rehabilitation Sciences, The University of British Columbia



Ivonne Montgomery, MRSc, OT (reg)

- **OT Knowledge Broker & School Therapist**
Sunny Hill Health Centre for Children



Objectives:



To describe the site-wide **Knowledge Broker (KB) Initiative** at our centre, including:

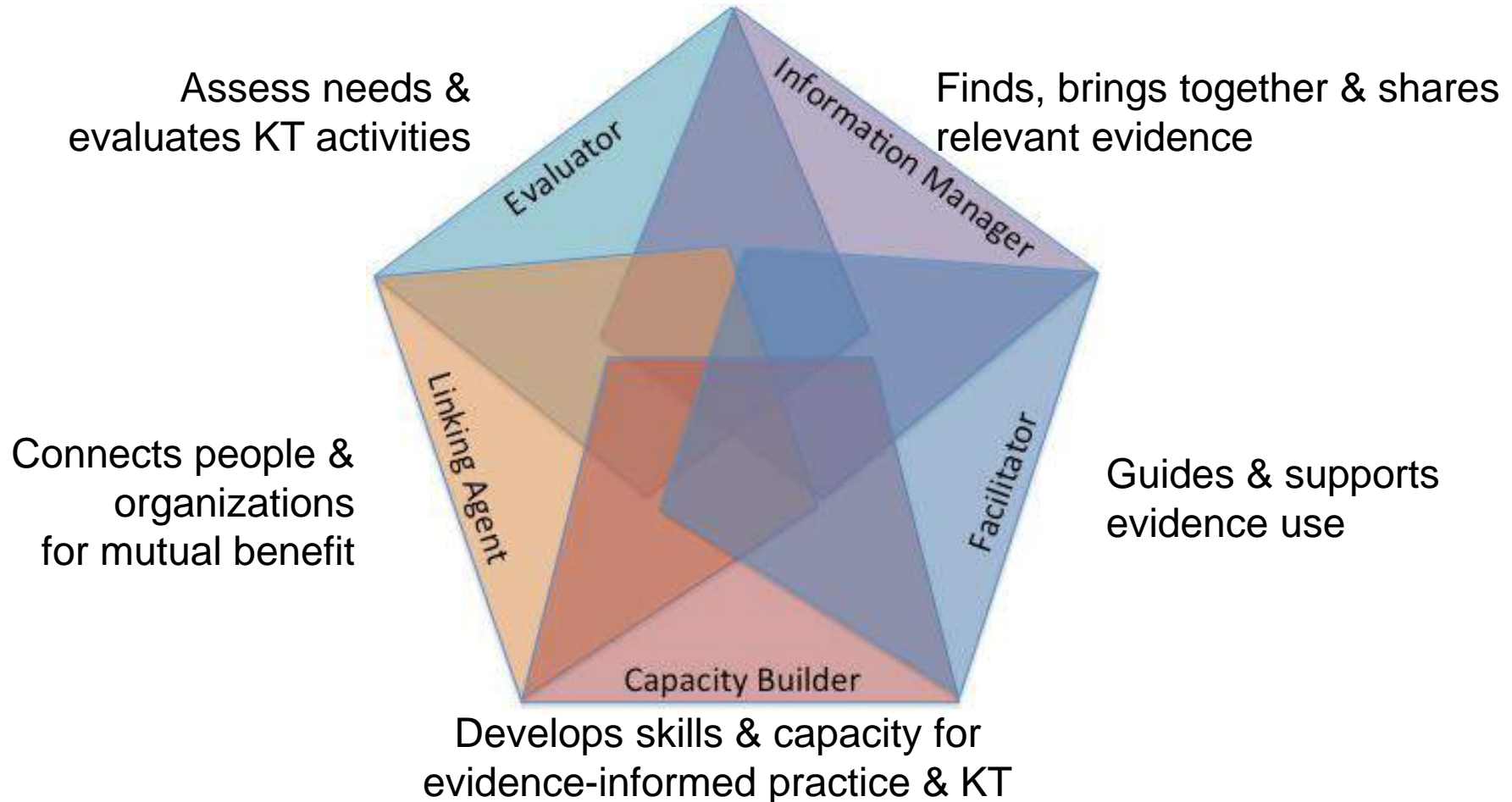
- History & development
- Resources & supports



To share OT Department-specific evidence-informed practice **(EIP) processes and outcomes facilitated by the OT KB**



What is a knowledge broker (KB)?



The KB Initiative at Sunny Hill:

Inception (2005)

- 12 interprofessional or team-based KBs
- Cohort-based training (8 sessions)
- Dedicated time for a common start-up project

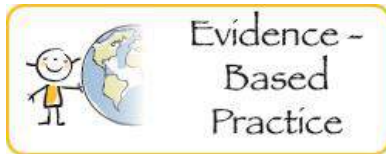
Now (2018)

- 12 KBs
- Online orientation
- E-resources
- Quarterly community of practice (CoP) meetings
- Tailored support based on sector's needs



Evidence Centre

Resources & supports for KBs:



Community of Practice



Sector Workshops

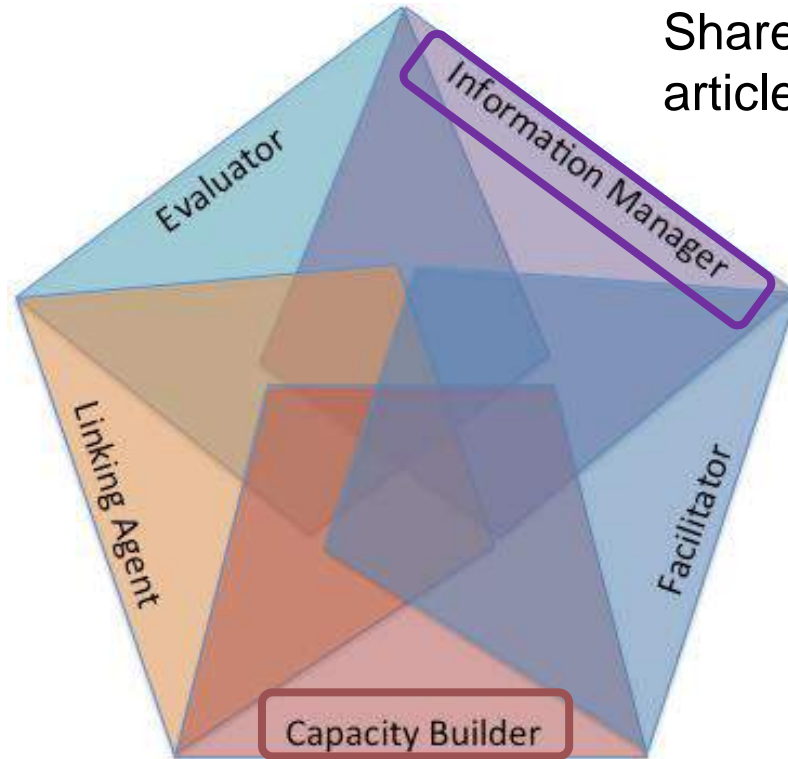


Resource Development



Mentoring

The OT knowledge broker (at inception):



Share relevant
articles & websites

Encourage use of tools & resources
during small group work

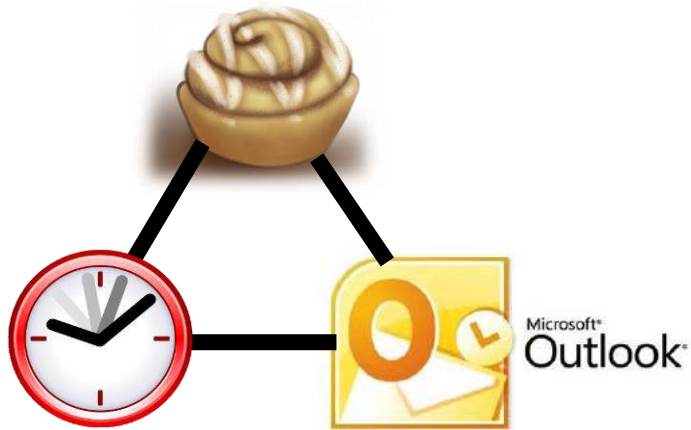
The issue:

Rapid organizational change

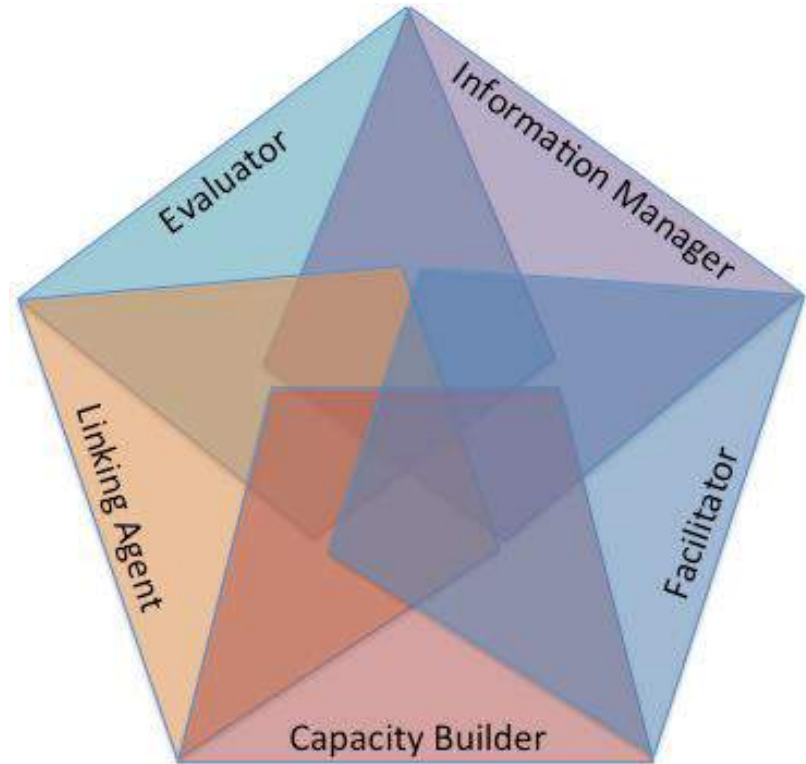
- Poor attendance
- Variable quality of outputs
- Limited follow-through on small group work



The solution:

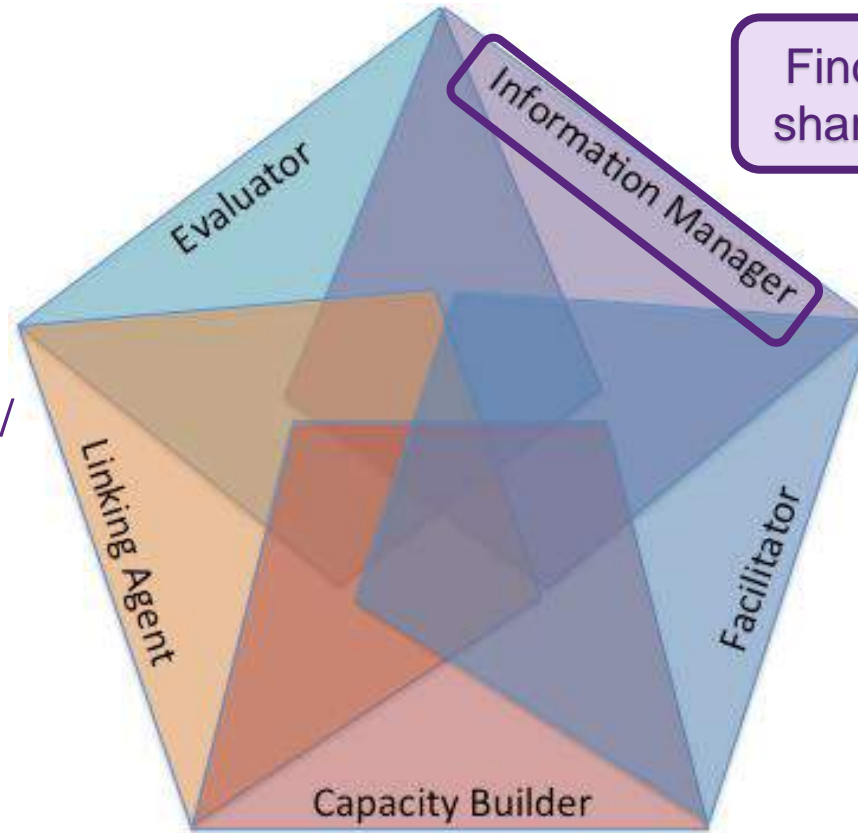


- Incorporate all KB role domains



Information Manager activities:

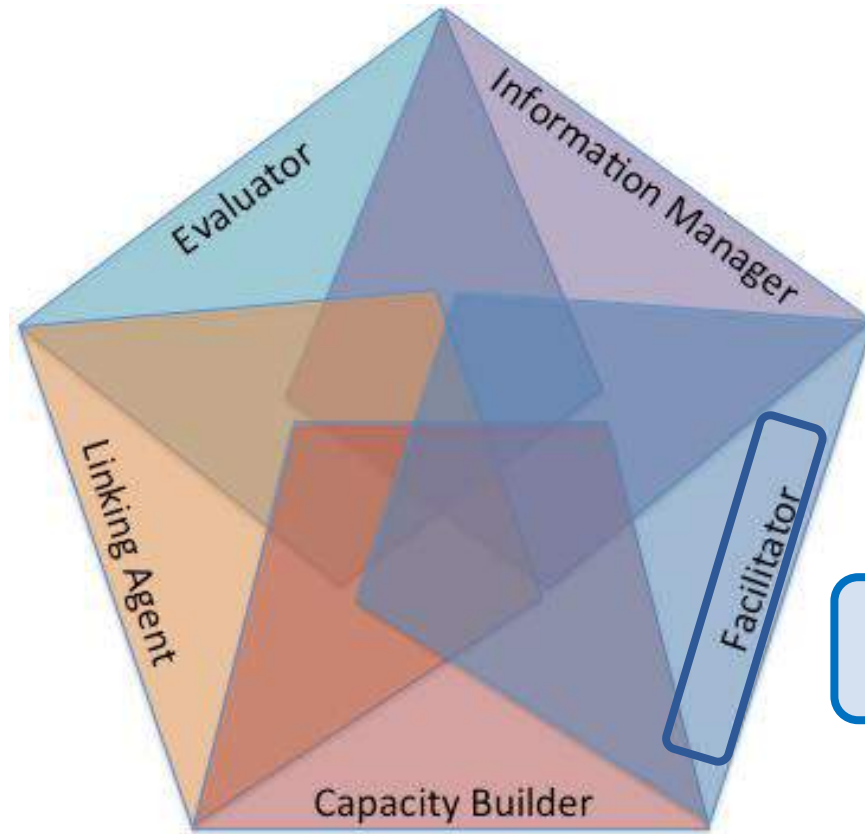
- ✓ “Hot off the press” articles
- ✓ “The Biz”
- ✓ Knowledge product/tool vetting for website
- ✓ ‘Parking Lot’ list



Finds, brings together & shares relevant evidence

Facilitator activities:

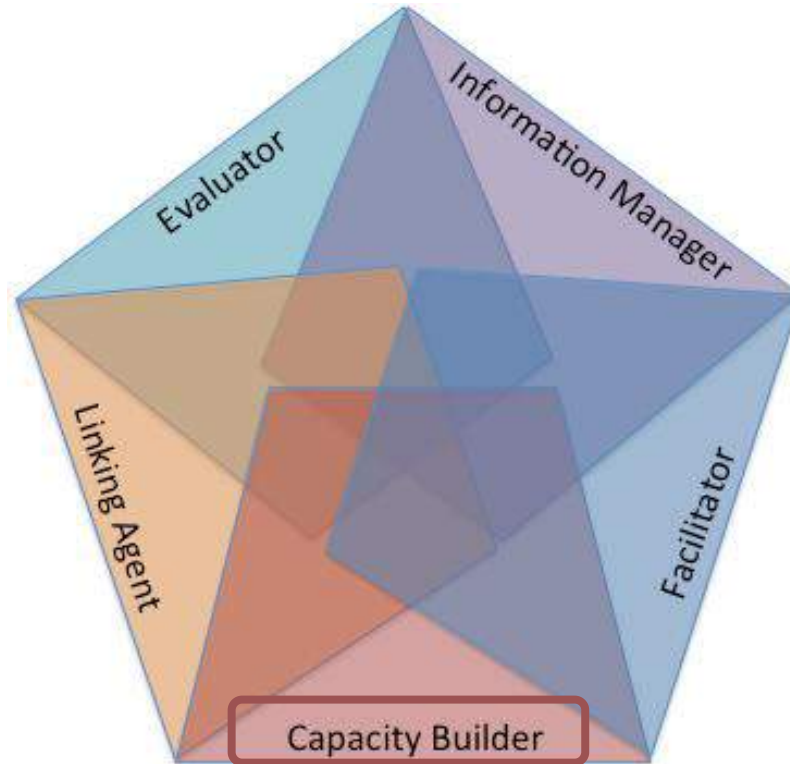
- ✓ Hands-on guided practice in EIP
- ✓ “Show & Tell” of actionable key messages from conferences
- ✓ Facilitate knowledge products & tools
- ✓ Continued use of EBP toolkit to answer clinical questions



Guides & supports
evidence use

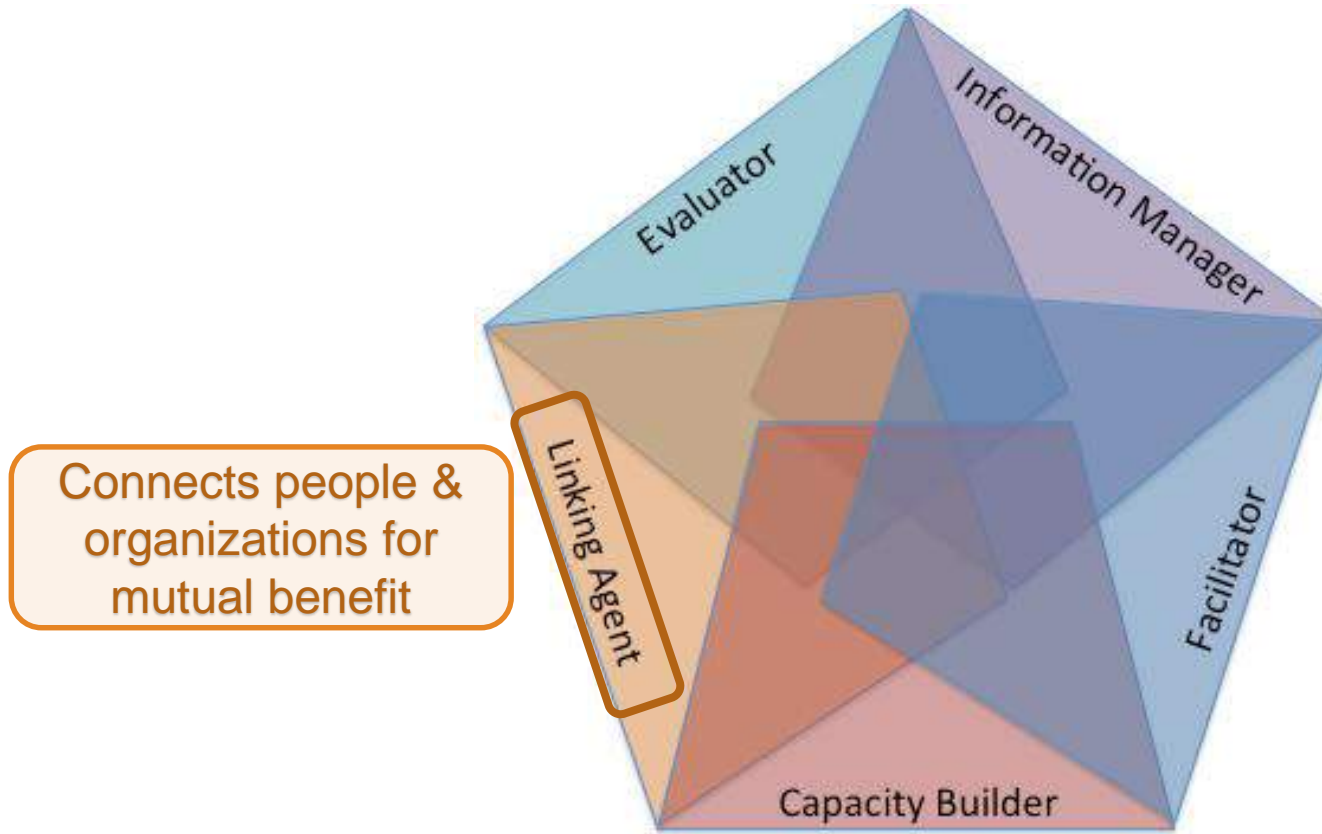
Capacity builder activities:

- ✓ OT Tips & Tricks
- ✓ Clinical inservices
- ✓ Applied EIP workshops
- ✓ 1:1 & small group mentoring



Develops skills & capacity for
evidence informed practice & KT

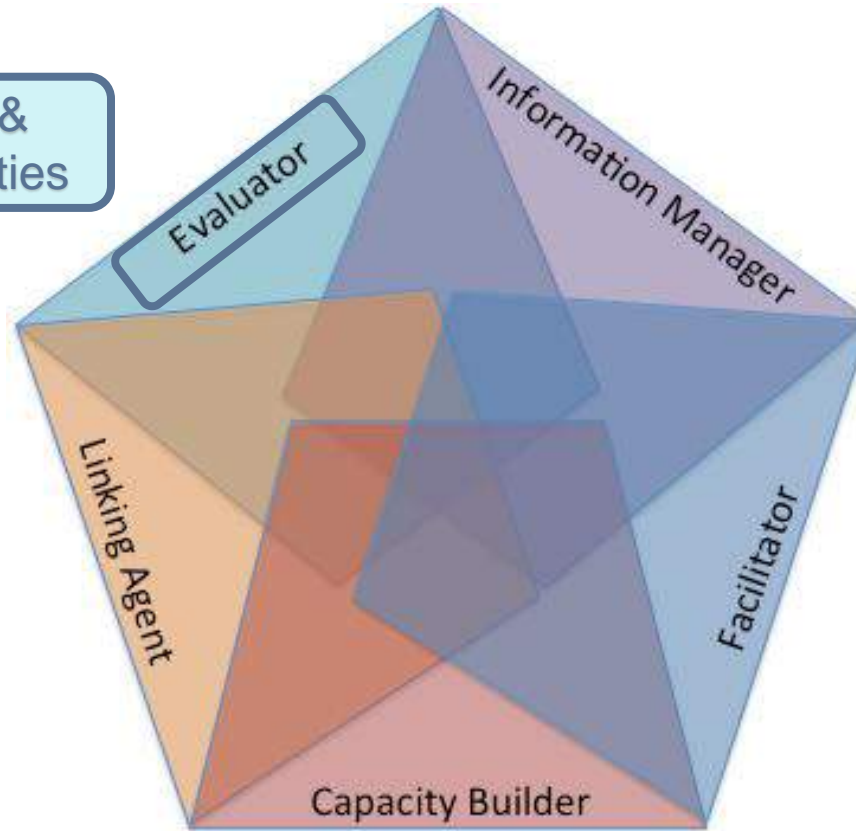
Linking agent activities:



- ✓ Linking OTs with similar interests
- ✓ Annual showcase of individual & group work
- ✓ Regular meetings & connections with other KBs

Evaluator activities:

Assesses needs & evaluates KT activities



- ✓ Ongoing context, process & outcome evaluation of KT
- ✓ Self-evaluation of knowledge brokering

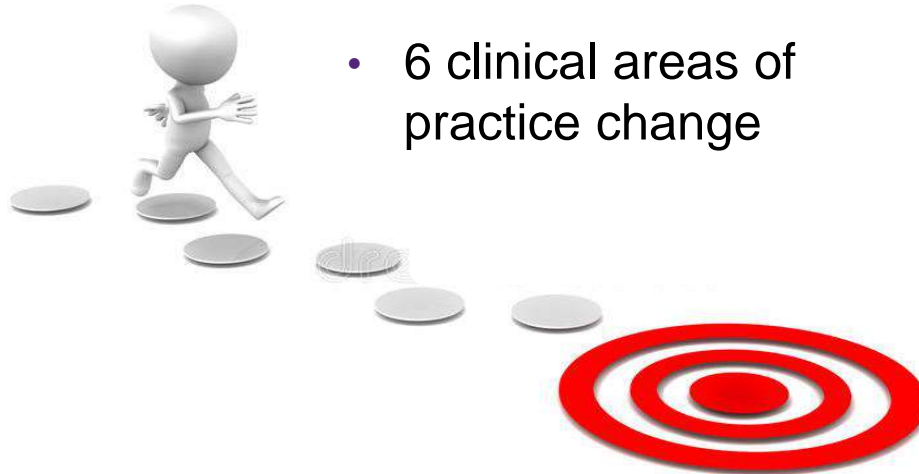
Outputs & outcomes:



- 20 clinical questions answered

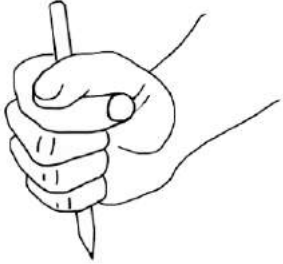


- 24 resources developed



- 6 clinical areas of practice change

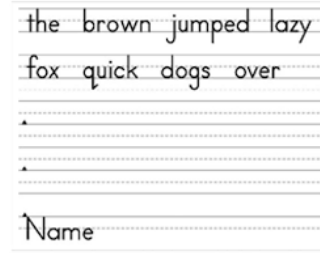
Clinical background questions:



Handwriting &
Pencil Grasp



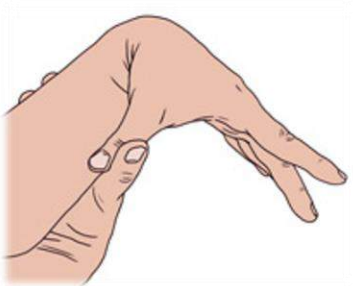
Eye Gaze
Technology



Minnesota
Handwriting Assessment



Pre-printing



Hypermobility



Tremor & Ataxia



Motor Planning



Developmental
Coordination Disorder

Clinical effectiveness questions:



Inflatable Cushions
& Therapy Balls



Weighted
Equipment



Life Skills Training &
Transition Planning



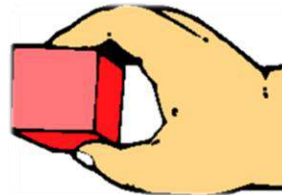
Safety in
Power Mobility



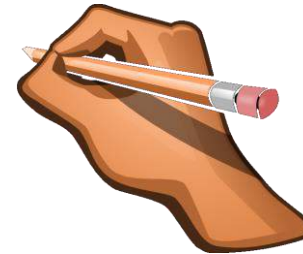
Standing
Frames



Gait
Trainers



Fine Motor
Intervention



Handwriting
Intervention



Cut-out Desks

OT resources developed:



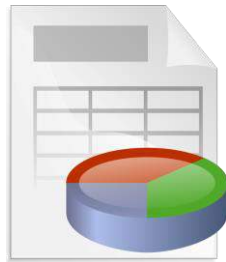
Evidence syntheses
& journal articles



Handouts



Checklists



Data tracking forms



Toolkits

OT resources developed:

Evidence Syntheses



Evidence for Practice (E4P) Syntheses:

- Minnesota Handwriting Assessment
- Management of Developmental Coordination Disorder
- Gait trainers



Critically Appraised Topics (CAT):

Association between:

- Autism & handwriting difficulties



Brief Evidence-Informed Assessment of Research (BEAR):

Effectiveness of:

- Life skills training/transition planning
- Fine motor intervention

OT resources developed:

Traffic Lighting

- Handwriting intervention
- Treatment for developmental coordination disorder (DCD)
- Inflatable cushions
- Therapy Balls
- Weighted Vests
- Standing Frames
- Gait Trainers
- Fine Motor Tremor
- Ataxia in Brain Injury

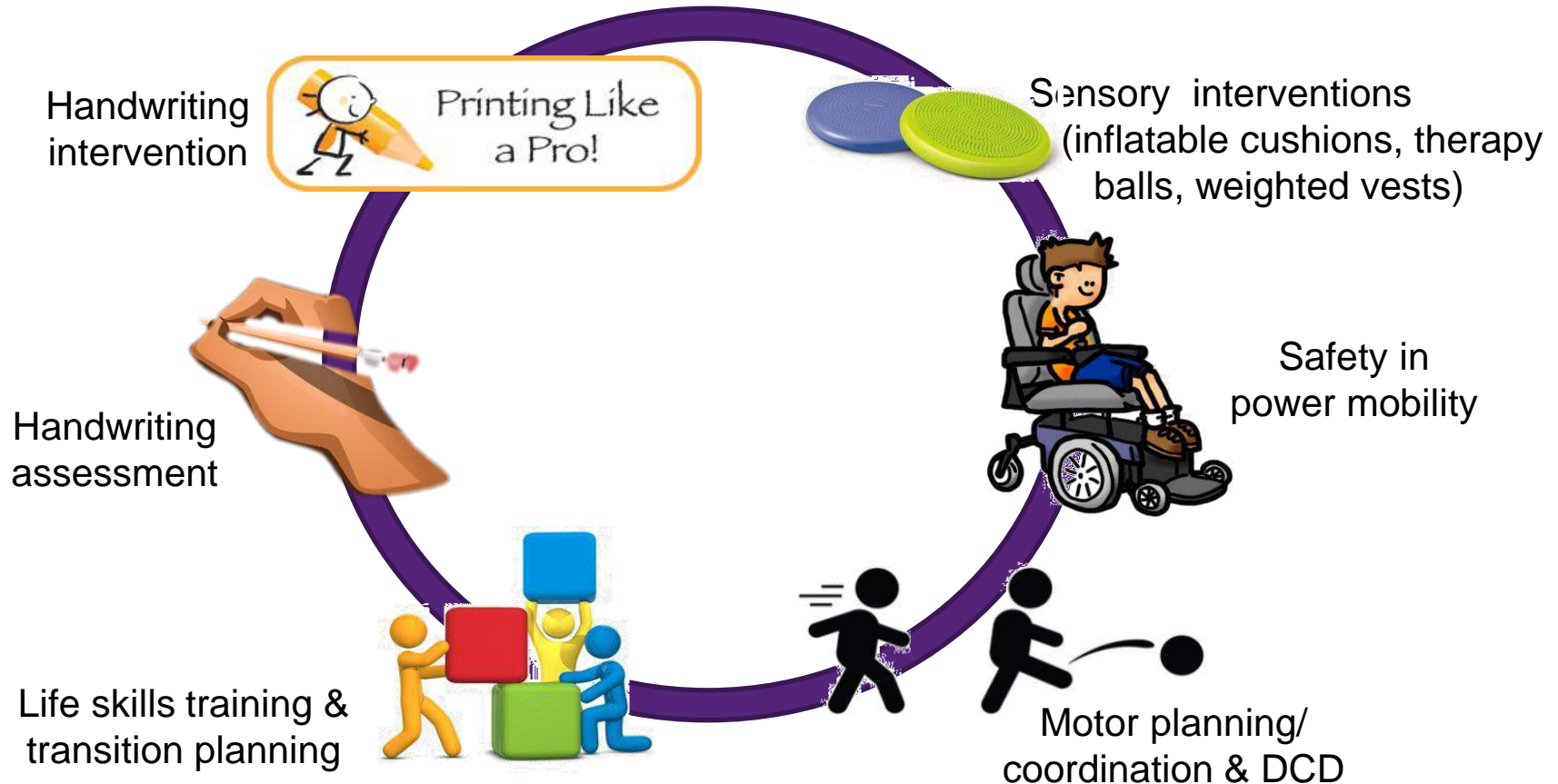


OT resources developed:

Peer-reviewed publications

1. Montgomery I, Zwicker JG. **Applying current research evidence into practice: Development of a handwriting intervention program.** Dyspraxia Foundation Professional Journal. 2011;10:12-20.
2. Zwicker JG, Montgomery I. **Application of motor learning principles to handwriting instruction and intervention.** Handwriting Today. 2012;11:9-19.
3. Glegg SMN, Livingstone R, Montgomery I. **Facilitating interprofessional evidence-based practice in paediatric rehabilitation: Development, implementation and evaluation of an online toolkit for health professionals.** Disabil Rehabil. 2016;38(4):391-0. doi:10.3109/09638288.2015.1041616

Practice Change:



Practice Implications:

- The OTs value KB support
- Strong engagement has returned
- Success in resource development & facilitating evidence use
- Potential for sustainability & implementation at other sites
 - Dedicated time
 - Mentoring
 - Professional development
 - Peer support



References

1. Meyer M. The rise of the knowledge broker. *Sci Commun*. 2010;32:118- 127. doi:10.1177/1075547009359797
2. Conklin J, Lusk E, Harris M, Stolee P. Knowledge brokers in a knowledge network: the case of seniors health research transfer network knowledge brokers. *Implement Sci*. 2013;8:7. doi:10.1186/1748-5908-8-7
3. Elueze IN. Evaluating the effectiveness of knowledge brokering in health research: A systematised review with some bibliographic information. *Health Inf Libr J*. 2015 Sep;32(3):168-81. doi:10.1111/hir.12097
4. Canadian Health Services Research Foundation (CHSRF). The theory and practice of knowledge brokering in Canada's health system Retrieved from: <http://www.cfhi-fcass.ca/migrated/pdf/Theory and Practice e.pdf>. Published December, 2003. Accessed June 19, 2018.
5. Glegg SM, Hoens A. Role domains of knowledge brokering: a model for the health care setting. *Journal of Neurologic Physical Therapy*. 2016 Apr 1;40(2):115-23. doi:10.1097/NPT.0000000000000122.

Thank you!



Evidence Centre

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