

Knowledge Mobilization Ontology interest group

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JIRA issue

Unable to locate Jira server for this macro. It may be due to Application Link configuration.

Goals

1. To support networking and collaboration among well-established research teams and knowledge users to further the application and mobilization of knowledge
2. To improve engagement between researchers and between community members and researchers by promoting mutual awareness and describing common areas of interest and expertise
3. To enhance ability for the University and for the Community to discover emergent/informal and formal communities of practice within multiple sectors.
4. To explore how researcher and community networking can be employed to meet other objectives.

To this end the working group aims to:

1. Model **Public/Community persons** and groups as well as collaboration(s) between them and university researchers.
2. Model **forms of collaboration(s)** between the Public/Community persons and groups and university researchers
3. Model activities that take place between the public and the researchers (this will become more granular.)
4. Model **outputs of collaboration(s)** between the Public/Community persons and groups and university researchers

Definitions

Knowledge mobilization:

The ever-evolving Harris Centre definition of knowledge mobilization: ... is about putting available knowledge into active service to benefit society. Both research knowledge and experiential knowledge are worth sharing for the benefit of all. KMB is always about **knowledge exchange** and it should be mutually beneficial.

This is the one most often used in Social Sciences and Humanities Research Council context: "... the process of creating value or a value stream through the creation, assimilation, leveraging, sharing and application of focused knowledge to a bounded community." (Bennet, Alex and David Bennet. *Knowledge Mobilization in the Social Sciences and Humanities: Moving Research into Action*. Frost, West Virginia, USA: MQI Press, 2007.)

The Scottish one is a bit more inclusive: "... embeds knowledge generation (creation) and knowledge use within the core structures of community and organizations." (Clark, G. and L. Kelly. *New Directions for Knowledge Transfer and Knowledge Brokerage in Scotland*. Edinburgh: Scottish Executive Social Research, 2005)

Knowledge Broker:

For the purposes of the current Yaffle development, a broker is a person with an academic institution affiliation who moves an idea through its life cycle.

Outputs

The research products (reports, papers, presentations, etc...) produced by university or public researchers. May also be called **Collaborative Artifacts**.

Outcomes

The measure of impact on society.

Ontology under development, with definitions and examples

[Knowledge Mobilization Ontology](#)

Use cases

1. Capture community needs systematically and match them with student/faculty interests

2. Leverage research or materials for academic or corporate endeavors
3. Promote the meaningful involvement of communities in translational research

Related Material

[Yaffle Relational Database Schema \(PDF, 2.75 Mb\)](#)

[KnowledgeMobilizationOntology.v2.vue](#)

[KnowledgeMobilizationUseCaseSample.vue](#)

[KnowledgeMobilizationUseCaseSample.vueProv-O Ontology](#)

From Memorial:

Primary Use Cases

The following use cases describe normal uses of the Yaffle application. A VIVO backend would need to support these cases.

1.0	Use Case	Example
Title Yaffle KM - ISF . pdf	Public submits Research Opportunity into Yaffle. The goal is to match Public with Researchers. Matches can be made by Broker(s) and using the following criteria: Research Interests, Expertise, Publications, and Research Projects	Transmission Link on Labrador coast
Pre condition	Idea articulated by Public Group and entered into system by a person in that Group as a Research Opportunity	The directors of the regional economic development boards in the area write and submit a Yaffle.ca research opportunity and follow up with a phone call to the Harris Centre. Local fishermen express concern with the proposed transmission link, essentially a high power cable laid on the ocean bottom of their fishing grounds.
Act ors	<ul style="list-style-type: none"> Public (Group) Application (Yaffle) Authentication (MUN Login) University Staff (Brokers) University Faculty 	<ul style="list-style-type: none"> Executive directors of two Regional Economic Development Boards in the area. Regional Economic Development Boards are classic QUANGOs (quasi-autonomous non-governmental organizations) set up to coordinate and foster regional economic development. At the time, there were 20 such organizations around the province of Newfoundland and Labrador. Harris Centre institutional knowledge brokers: The role is to broker research opportunities between community and Memorial university researchers. Researchers: Initially, an oceanographer, and eventually a business professor as well.

Steps	<ol style="list-style-type: none"> 1. Idea/Opportunity is emailed to the University (Harris Centre) then articulated in a phone call. 2. Public person is directed to online application (Yaffle) 3. Public identifies/clicks Guest User in Authentication system 4. Public creates Guest User account in Yaffle 5. Idea/Opportunity is entered into Yaffle as Opportunity 6. Broker staff match Public with Researcher based on Research Interests, Project work, Publications 7. Broker initiates collaboration between Public and Research 8. Broker documents Opportunity as Project 	<ol style="list-style-type: none"> 1. The Harris Centre Knowledge Mobilization staff use Yaffle.ca to find a Researcher with the Ocean Sciences Centre who agrees to meet with the community. 1. The researcher addresses the immediate concerns of the fishermen in a town hall meeting event 1. Following the meeting with the residents, the researcher agrees to take a look at the engineering data provided by the public utility. He prepares a short report outlining his concerns. The executive directors of the local REDBs use the report to support their application to the federal government to secure funding that would allow them to conduct appropriate environmental assessment studies.
Variation Scenario		

2.0	Use Case	Example
Title	<p>University Staff (Broker) enters a Research Opportunity into Yaffle on behalf of public.</p> <p>The goal is to match Public with Researchers. Matches can be made by Broker(s) and using the following criteria: Research Interests, Expertise, Publications, and Research Projects</p>	Creating stronger tourism links between Burin Peninsula and St. Pierre et Miquelon
Precondition	Idea articulated at a University Regional Workshop and entered into system by University Staff (Brokers) as a Research Opportunity	If one decides to visit St. Pierre et Miquelon, the self-governing territorial overseas collectivity of France, via maritime link, there is no other way to do that but to traverse most of the Burin Peninsula to take a ferry from Fortune. During the regional workshop in the area, several people expressed interest to build stronger tourism links between the two regions and cross-promote the tourist sites in both areas. The opportunity was entered into Yaffle.ca by a Harris Centre staff member.
Actors	<ul style="list-style-type: none"> • University Staff (Brokers) • Application (Yaffle) • Public (Group) • University Faculty 	<ul style="list-style-type: none"> • Tourism operators, local economic development staff, St. Pierre et Miquelon tourism development officers • Harris Centre institutional knowledge brokers: The role is to broker research opportunities between community and Memorial university researchers. • Researchers and students. Head of the Tourism Department at Grenfell Campus of Memorial University and his undergraduate class

Steps	<ol style="list-style-type: none"> 1. Idea/Opportunity is emailed to the University then articulated in a phone call. 2. Idea/Opportunity is entered into Yaffle as Opportunity 3. Broker staff match Public with Researcher based on Research Interests, Project work, Publications 4. Broker initiates collaboration between Public and Research 5. Broker documents Opportunity as Project 	<ol style="list-style-type: none"> 1. The Harris Centre Knowledge Mobilization staff promoted this particular opportunity within the Tourism Department 2. The department head took it on as a service learning opportunity for his senior undergraduate class. 3. The class will travel to the area, meet with the public stakeholders and develop several possible options for better marketing and cooperation opportunities between the regions.
Variation Scenario		

3.0	Use Case	Example
Title	<p>Public browses Research Opportunities and Projects in Yaffle and contacts a Researcher</p> <p>The goal is to identify and locate Researchers.</p> <p>Matches can be made by Public using the following criteria: Research Interests, Expertise, Publications, and Research Projects, Research Opportunities.</p>	
Precondition	<p>Public has a research need.</p> <p>Public user accesses Yaffle online and browses Projects and/or Opportunities or searchers by Keyword</p>	
Actors	<ul style="list-style-type: none"> • Public (Group) • Application (Yaffle) • University Faculty 	
Steps	<ol style="list-style-type: none"> 1. Public person browses Projects and Opportunities in Yaffle. 2. Public finds a Researcher with research interests that meet their needs and identified by Research areas, expertise, Projects 3. Public person contacts Researcher by email or phone 4. System (Yaffle) logs contact has been made between Public and Researcher, Date of contact. 	
Variation Scenario		

Additional Use Cases

The following use cases describe requirements of an enhanced system.

4.0	Use Case	Example
Title	Public person creates a Profile listing Expertise (User can enter data on research, outreach, teaching, interests, expertise)	
Precondition	Authenticated Logged into Application (Yaffle)	
Actors	<ul style="list-style-type: none">• Public (Group)• Application (Yaffle)• Authentication (MUN Login)	
Steps	Public logs into Yaffle Public user describes his/her Expertise	
Variation Scenario		

5.0	Use Case	Example
Title	University Staff identifies him/herself as a “Broker”	
Precondition	Person has designated Broker status University staff logged into system	
Actors	<ul style="list-style-type: none">• Application (Yaffle)• University Staff (Brokers)	
Steps	Broker staff describes themselves as Brokers in the system.	
Variation Scenario		

6.0 (See 1.0)	Use Case	Example
Title	Application tracks and displays Lineage of an Idea	Transmission Link on Labrador coast
Precondition	A Research Opportunity spawns additional Research Opportunities	<p>The Directors of the regional economic development boards in the area attend a Regional Workshop. They express a need for more information on a provincial project.</p> <p>Harris Centre Staff (Brokers) document the need and enter it into Yaffle as a Research Opportunity and follow up with a phone call to the Harris Centre.</p> <p>Local fishermen express concern with the proposed transmission link, essentially a high power cable laid on the ocean bottom of their fishing grounds.</p>
Actors	<ul style="list-style-type: none"> Application (Yaffle) University Staff (Brokers) 	<ul style="list-style-type: none"> Harris Centre institutional knowledge brokers: The role is to broker research opportunities between community and Memorial university researchers. Researchers: Initially, an oceanographer, and eventually a business professor as well.
Steps	<p>Public creates three related Research Opportunities</p> <p>Broker staff match Public with Researchers</p> <p>Opportunities documented as Projects by Brokers</p>	<p>They get their funding and create three additional Yaffle.ca research opportunities: impact on the nascent tourism industry; impact on municipal infrastructure; impact on fisheries.</p> <p>The HC knowledge mobilization Staff use Yaffle to identify appropriate expertise and brokers all three projects between the oceanographer who has taken on the initial Project and agreed to stay on to conduct the impact study on the fisheries and marine mammals in the area and Faculty of Business Researcher who agrees to take on the impact or tourism and municipal infrastructure portions of the work.</p>
Variation Scenario		

7.0	Use Case	Example
Title	System (Yaffle) tracks status of an Idea from Opportunity to Project Displays as "Brokered"	
Precondition	A Research Opportunity has been brokered.	
Actors	<ul style="list-style-type: none"> Application (Yaffle) University Staff (Brokers) 	

Steps	Broker staff match Public with Researchers Opportunities documented as Projects by Brokers	
Variation Scenario		

Yaffle Knowledge Mobilization -ISF diagram

[YaffleKM-ISF-20140818-.vue](#)