Building information and learning experiences through partnerships

Greece 2017

QUT Queensland University of Technology Brisbane Australia

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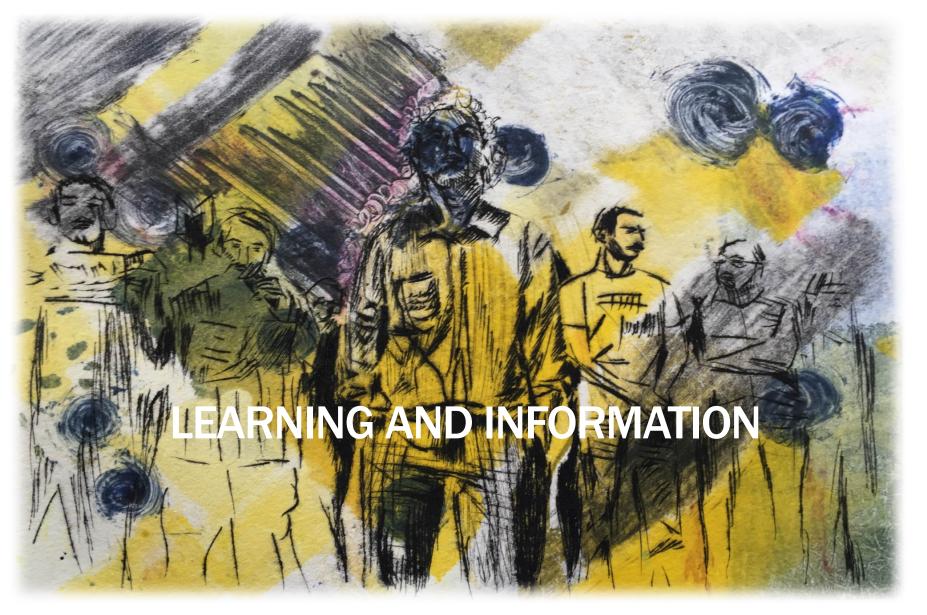
Learning and Information



Creating partnerships Building informed learning communities



Research Into Practice – new futures



Art work Felicity Bruce 2015 Inspired by Milliyet photo

Partnering for IL Education

Rests on building shared understandings of IL & IL Education

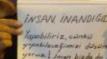


What is IL? ALA CARL

- Information literacy is a spectrum of abilities, practices, and habits of mind that extends and deepens learning through engagement with the information ecosystem.
- understanding essential concepts
- engaging in creative inquiry and critical reflection
- creating new knowledge through ethical participation in communities of learning, scholarship, and civic purpose; and

Framework Draft 3 Nov 2014 Lines 68-78 adopting a strategic view of the interests, biases, and assumptions present in the information ecosystem

What is information literacy?



Slide 1We can talk about information literacy (experiencing information use in different ways) as being about *informed learning* (Bruce 2008).

Photo: http://www.milliyet.com.tr/fotogaleri/47808-yasam-kim-bu-duran-adam-/

Information literacy is about learning

IL education and research follows trends in the broader education sector......exploring innovative pedagogies as well as focusing on the emergence of new technologies and the centrality of students' needs.

While the IL territory is expanding, the boundaries are also blurring;

.....I have heard the view expressed that research into information literacy and learning is about 'learning' not 'information literacy'

Adapted from Bruce (2016)

Information literacy is about learning

....alternate language creates a way of communicating with different audiences or specifies different parts of the agenda:

- information literacies,
- metaliteracy,
- media & information literacy,
- information fluency,
- digital literacy,
- transliteracy
- radical information literacy
- informed learning and inclusive informed learning

(adapted from Bruce, 2016)

Information literacy is about learning

- focus of IL scholars is around formal education workplace and community settings have heightened profiles.
- We have seen new focus on social issues: information literacy in health, disasters & faith contexts; also groups facing specific challenges, such as migrants & refugees.
- many voices are just beginning to be heard, such as those of indigenous peoples....
- many voices remain unheard, those of less empowered groups.... the homeless, the abused and others challenged in their social participation

Adapted from Bruce (2016)

Information *Literacy*

Experienced as

 being aware of different ways of using information when learning; thus learners become more aware of how they may use information in future academic, personal, and workplace learning situations. (Bruce 2008)

At a meta level, using information to learn is experienced as:

- 1. Information awareness
- 2. Sourcing information for learning
- 3. Using information processes to learn
- 4. Connecting information with learning needs
- 5. Building a knowledge base
- 6. Extending knowledge
- 7. Wise use of information

experienced meanings of information literacy: the 7 faces

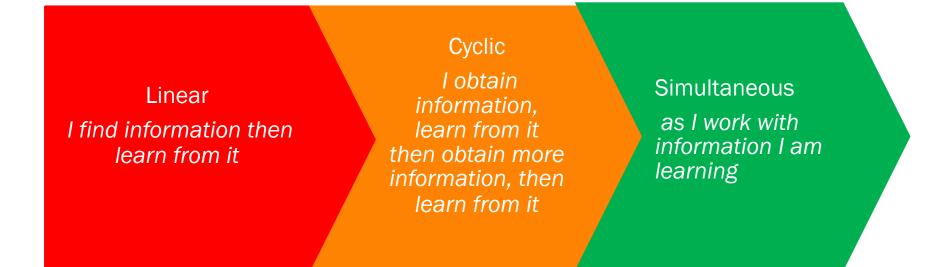
INFORMED LEARNING

From having information capabilities

To the experience of using information to learn

Attending to information and content learning in context together

Students experience the relationship between information use & learning as

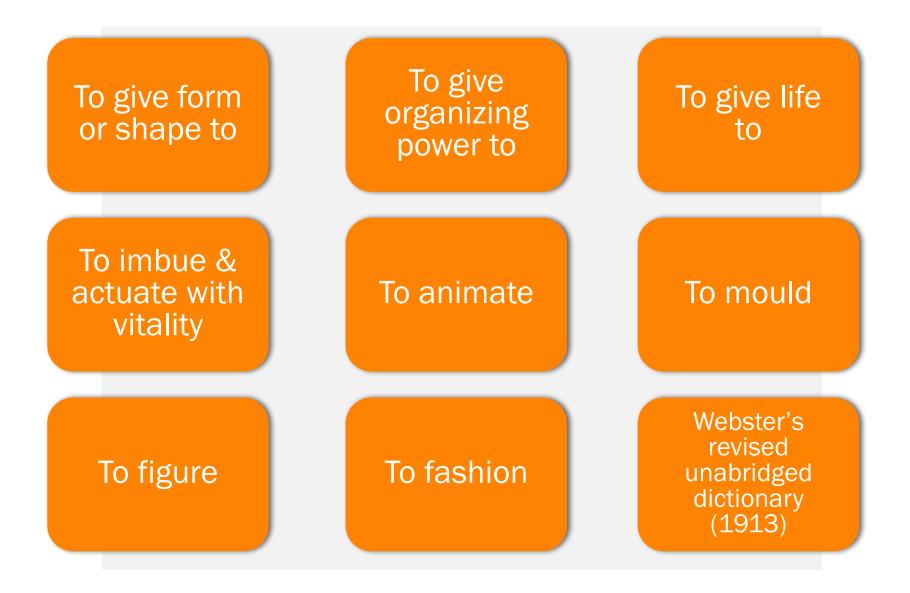


The latter breaks down the seek-find-use distinctions (Lupton, 2008)

linear, cyclic & simultaneous

The Etymology of 'Inform'

Information is transformational!



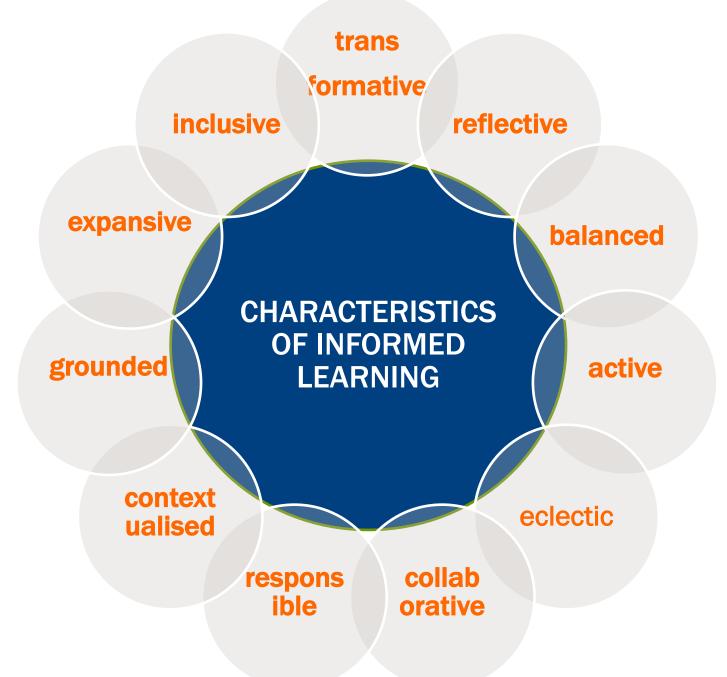
Principles of Informed Learning

Takes into account learners' experiences of information use & subject

Draws on discipline based approaches to information use Brings about changes in learners' experiences of information use & subject

Promotes simultaneous development of discipline & process learning

Adapted from Bruce, 2008



In Informed Learning

Discipline Teachers

- Identify what information practices are important in their subject or professions
- They model those practices
- They embed them as approaches to content learning (~ story ch1)

Librarians

- help teachers & learners
 interpret information
 literacy as using
 information to learn &
 understanding that
 process
- Help identify questions & processes
- Support learning strategies

In Informed Learning

Students

- Use information as an integral part of the learning process
- Reflect on their use of information & its influence on their own learning
- Reflect on their use of information & its influence on helping others learn

- Reflect on their information use in the workplace & community
- Consider & enhance the information experiences of others in work & community spaces

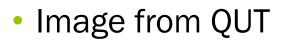
(~story ch6)

Imagine information literacy education in music and dance – Mandy Lupton

- What is the information experience in music and dance
- What do people experience as information?

From Lupton, M. (2014)





Composers' and dancers' information experiences

- Music and dance involve full mind-body experience, integrating cognitive, affective, sensory and kinesthetic information - to express and communicate.
- Information for the composer: feelings, moods, images, ideas, and life experiences;
- Information for social dancers: music, partner's body, emotions generated by the dance, feeling of the floor.

Information literacy education – a journey in the scholarship of learning and teaching



Reflecting on information and learning experiences

When a child learns to ride a bicycle we want them to be able to do more than ride that bicycle. We want them to be aware of their context, those around them.. We want them to share understandings of a bicycle riding community. We want them to be safe and to keep others safe We want the bicycle riding experience to transform their lives in a range of ways

When a student learns to use information we want them to be able to do more than engage in the academic practices we teach. We want them to be aware of their context, the learning community around them. We want them to share the understandings of a learning and information using community. We want them to use information wisely and for the benefit of others. We want the information using experience to transform their lives in a range of ways.

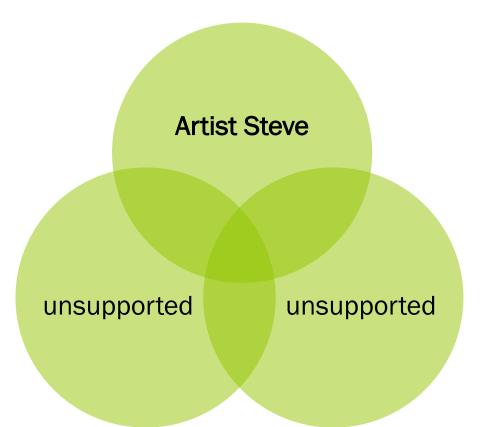
- Focus on experiences of using information to learn..
- those of specific disciplines, professional groups or communities..
- contextualises and lends
 transformational meaning to 'skills', and 'threshold concepts'.

Information

Technology

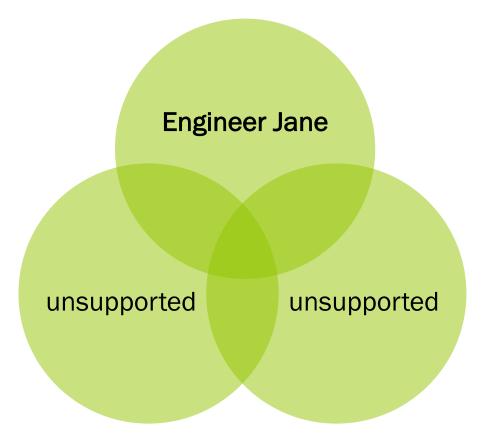
Learning

Information literacy education usually focuses on all three and is enhanced by **strategic learning partnerships**

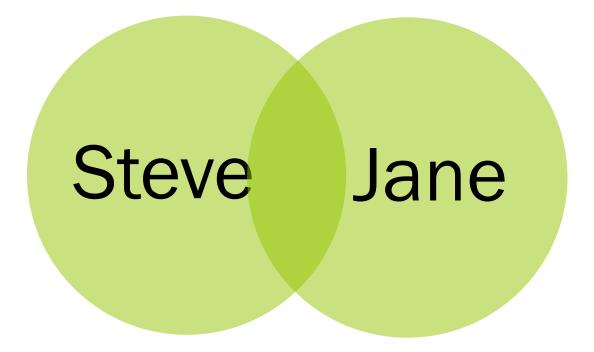


Imagine Steve - a new academic wanting to help his students keep learning post graduation. He believes it is important for artists to explore the work of other artists, to recognise and be in touch with whatever might inspire art, and to journal or document their journeys.

Steve creates learning circles to share explorations and inspirations weekly and to collate an electronic portfolio recording learning.



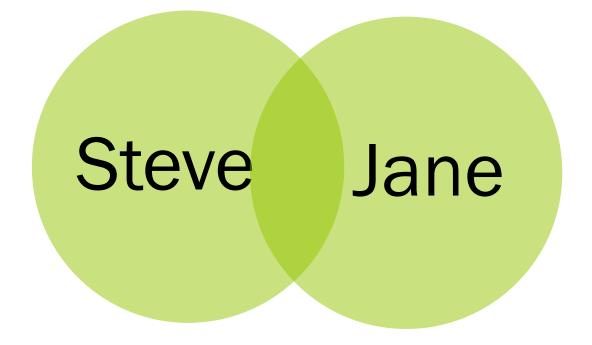
Imagine Jane - She asks her students to work towards a student-managed conference for which they will write and present their own papers, invite key industry players and researchers as keynote speakers, and publish proceedings of the day on the web.



Both have identified **key information practices** in their profession and found ways of integrating these practices into the learning experience.

The practices reflect the way in which informed learning is experienced in their professions.

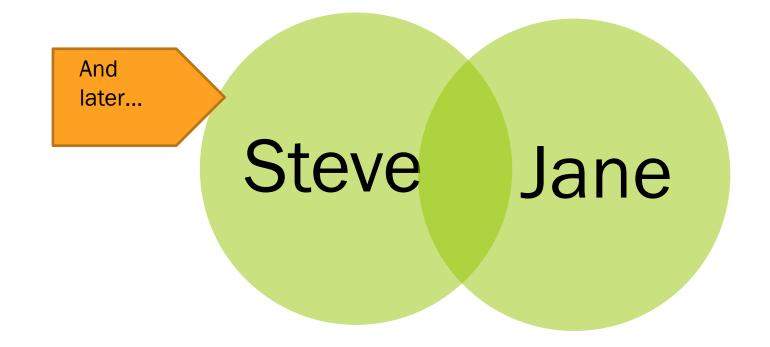
Perfect building blocks for information literacy education



Steve and Jane recognise that quality interaction with the information environment is the cornerstone of learning.

Discipline mastery is achieved through the processes of creative and reflective information use.

Once students recognise what information is and how they are using it they can be in charge of their information environment...



Steve asks his class to research the impact of drought and create artworks to display in local community spaces

Jane asks her class to prepare briefings for a child care center wanting to be more waterefficient, including resources for parents and care-givers.

Students will work with the client groups. What could they learn about the experience of information use and learning in work and community spaces through this assessment design? (Bruce, 2008, p. 107)

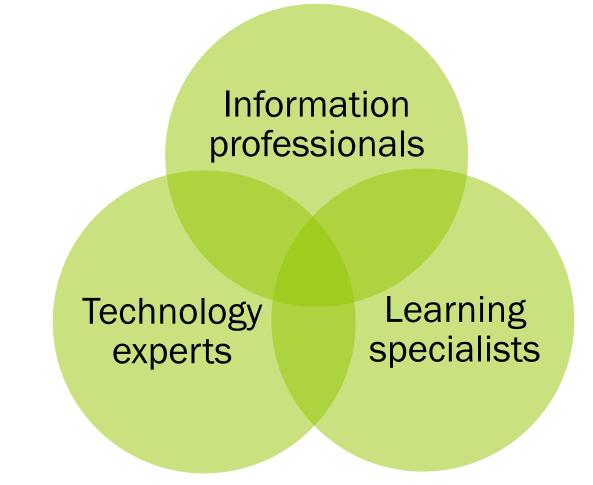
CREATING PARTNERSHIPS BUILDING INFORMATION AND LEARNING EXPERIENCES

Art work Felicity Bruce 2015 Inspired by Milliyet photo

Partnering for IL Education

Discipline educators Info professionals Students Industry Academic developers Funders Researchers



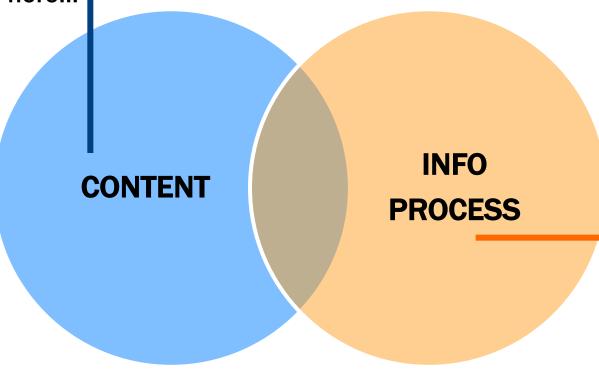


Imagine Steve and Jane working alone, or effectively supported by..... The university at large. Imagine Steve and Jane becoming program coordinators and working with colleagues across the university to integrate information literacy education across entire programs of study... (adapted from Informed Learning 2008)

Building Partnerships

Using Dual Lenses

- Discipline & professional expertise
- Academics and industry partners typically use this lens...
- Students may also be focused here...



- Information use experiences that are embedded in context
- Librarians typically use this lens
- Need to understand discipline & learners approaches to information use
- The lenses can be brought together in curriculum planning, design, evaluation, development programs...

partnering goes beyond collaboration

Purposes of collaboration?

Teaching collaboration is only one dimension of potential partnerships & should not be the only end goal

Keep in mind

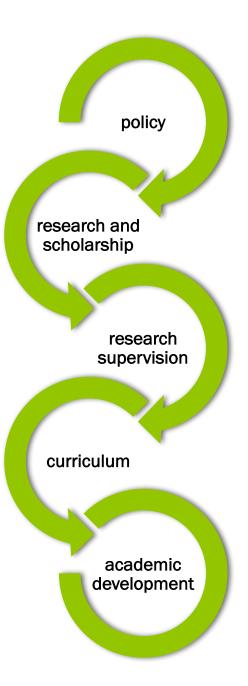
..curriculum design.. ..policy design ..peer review ..researching teaching ..lesson design ..Assessment design ..participation in physical and virtual learning communities

partnering goes beyond collaboration

What happens when you take focus off 'teaching' Librarians become academic developers creating visions, supporting, inputting, influencing, researching, creating materials for use by others.. The library while integral to learning is not usually funded to teach

Partnerships Critical Dimensions

Bruce, C. 2001



The Partnership Dynamic

Where more dimensions are represented in any institution/context, the dynamic is stronger

Strong partnerships/ high impact is likely when all dimensions are working together

Partnerships spanning the university provide strength

e.g. college wide curriculum projects – design & evaluation, university wide research into an issue or process, cross university development opportunities or research

Principles of Awareness Raising & Partnership Building

- Inclusiveness no exclusions!
- Comprehensive reach across the organisation
- Communication management
- Choice of approaches to IL & learning models

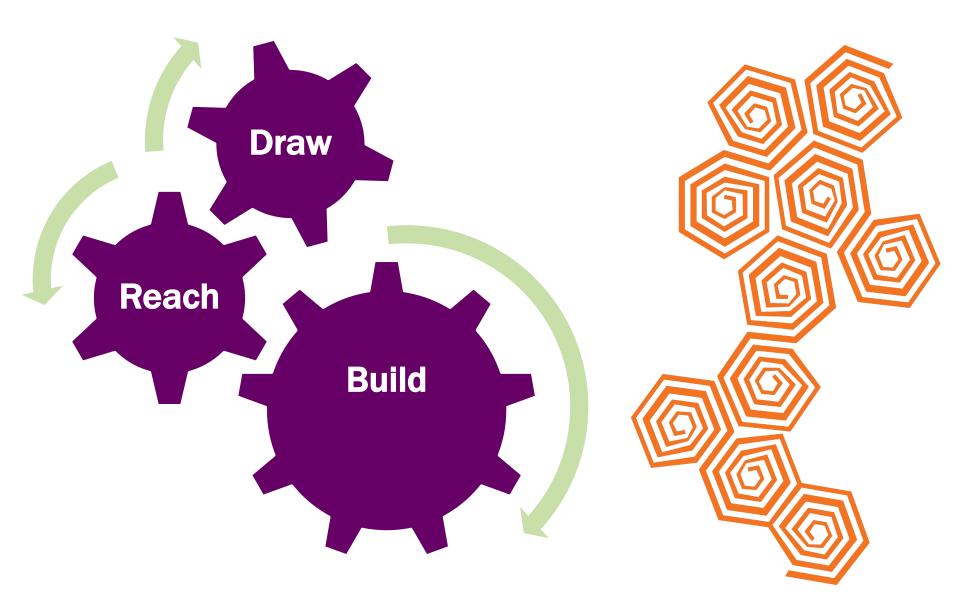
Cooperation across organisational units

Active Participation

Modelling best practices

Evolving Professional Roles





DRAW Attention

To Experience of Using Information to Learn

In the wider academic community – wide range of disciplines and contexts.

In community and workplace contexts – hospitals, emergency services, community health and disaster settings, faith and indigenous contexts

REACH Forward From Skills

- Consider the information experience of members of the community, as well as those beyond the community; including the experience of less represented / marginalised groups
- Take an interest in the broader needs of the learning community and how it might be possible to serve them
- Think and talk about what learning design (and the library) could do to help

BUILD Make Building an Informed Community a Goal

Informed scholars, students and researchers Informed alumni in the workplace Informed members of the community Aware of how they use information to learn

 And aware of how those they serve might use information to learn

How? Building Collective Awareness

- New ways of thinking about IL education
- New ways of practicing IL education

Partner in Academic Development

How can I change (how)IL is viewed: from something taught by the library to something students learn by being introduced to how information is used in the discipline? (Anne Whisken, 2011, see also Whisken, 2017)

Partner Strategically

- Consider directions in the higher education agenda
- Teaching research nexus researching teaching
- Industry community partnerships
- Collaborative learning practices
- Involving students in research
- Social media in teaching and learning
- Learning and learning space design

Partner in Learning Design

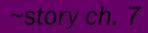
- Identify a small number of learning strategies that encourage information use and awareness
- Encourage assessment designers to ask their students to reflect on their information use, what they have learned through different processes
- When researching for essays students could write about the different forms of information they have used and critique value to their learning
- Embed info practices, e.g. creating current awareness strategies and reflecting on what is learned through the implementation process

USE THE SIX FRAMES!

Anne's strategy

"

Anne adopts action research to create groups of teachers who reflect together on their own practice, design & implement informed learning strategies



Anne Whisken's Questions For Teachers

- How can we make visible the information practices of the discipline/subject?
- What learning is taking place as students are using this information?
- How is information used in your subject area?
- What good information practices do you want your students to learn?
- What experiences will you design so they can learn them?

(Whisken 2011)

Anne Whisken's Questions (... more questions)

What are students learning by using information?

- From this source
- In this format
- For this purpose
- At this level
- In this language
- For this audience

What are they learning about this subject?

- About the use of information in this subject?
- About the use of information generally?

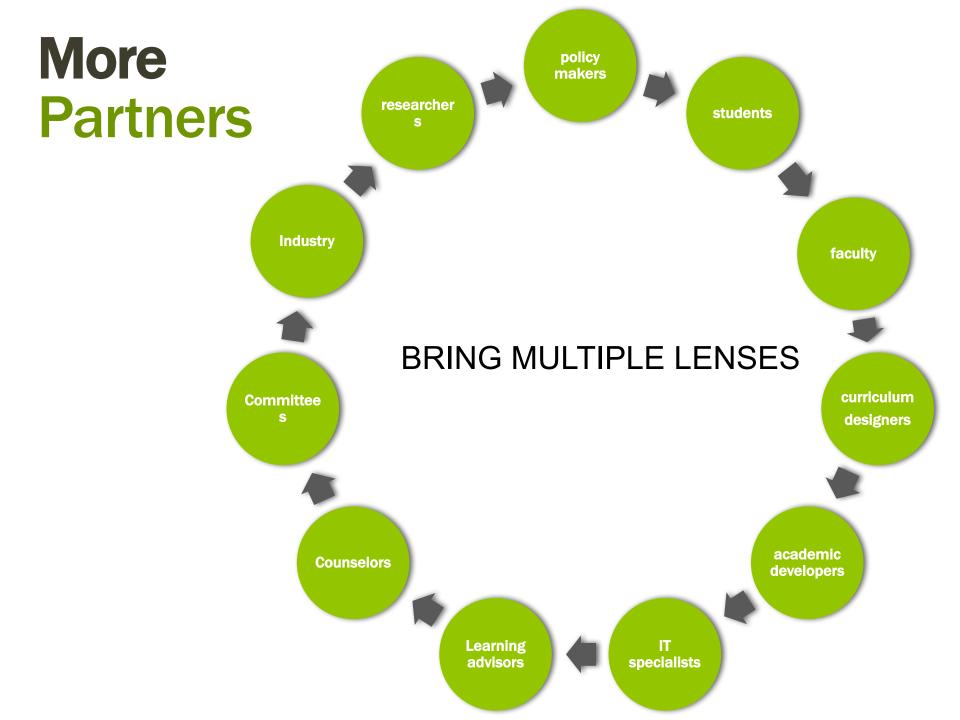
(Whisken 2011)

Partnering for IL education

Scholarly partnerships may be built on shared/or conflicted views of

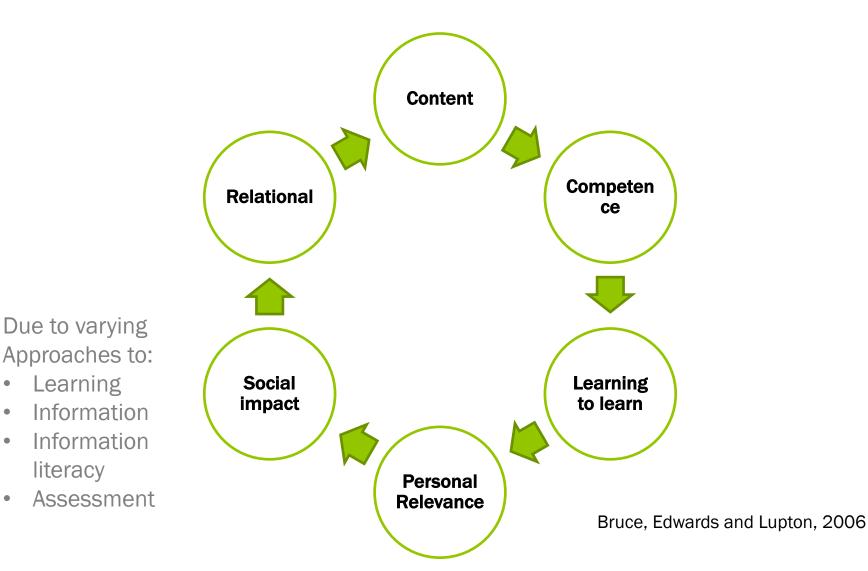
- Information literacy
- Information literacy education
- Learning
- Teaching
- Assessment





Six Frames for IL Education reveal helps & barriers to partnering

•



View of IL in the Content frame	IL is knowledge about the world of information
Competence frame	IL is a set of competencies or skills
Learning to learn frame	IL is a way of learning
Personal relevance frame	IL is learned in context & is different for different people and groups
Social impact frame	IL issues are important to society
Relational frame	IL is a complex of different ways of relating to information

variation across the frames

Teaching & learning in the Content frame	Expert teacher transmits knowledge. Learning - a change in how much is known
Competence frame	Teachers analyse tasks into knowledge & skills; Learners become competent by following predetermined pathways
Learning to learn frame	Teachers facilitate collaborative learning; Learners develop conceptual structure; ways of thinking &reasoning
Personal relevance frame	Teachers help learners find motivation. Learning is finding personal relevance & meaning
Social impact frame	Teachers challenge the status quo. Learning is adopting perspectives that will encourage social change
Relational frame	Teachers helps learners see different perspectives. Learning is coming to see the world in a range of different ways

variation across the frames

Artwork by Felicity Bruce 2015 Inspired by Milliyet photo EARNING EXPERIEN

ICES

Innovative information literacy partnerships

Hong Kong Mooc

Purdue IMPACT

University of the Pacific Library Revisioning



Hong Kong IL Mooc

- All Hong Kong Universities are partnering to build an IL Mooc, that incorporates generic as well as discipline specific modules.
- Competitive funding for academics to design strategies with librarians
- Generic introductions founded on informed learning
- Librarians, academic, researchers, technologists, students, learning designers...



Hong Kong IL Mooc – questions for

courseware design

- How can the connection between information use and content be strengthened?
- What information and learning experiences are represented and how can a wider balance be achieved?
- Which of the six frames have been used across activities and how can a wider balance be achieved?

- Where can learner reflection on information use be built into the design?
- Are there reflection prompts that might be useful for use across discipline areas?
- How can emphasis on community and workplace contexts be built into the designs, including relevant information user research?

Purdue University, informed learning design

- Extensive curriculum work led by Dr Clarence Maybee around simultaneous focus on expanding information experiences and discipline/content learning
- Multiple subject areas including statistics
- Incorporating a partnership between Purdue Libraries, Center for Instructional Excellence and Information Technology at Purdue, called IMPACT

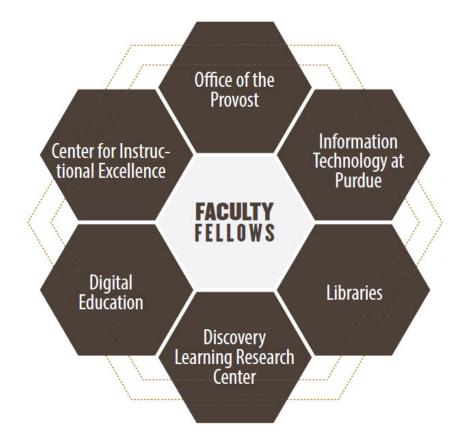


Instruction Matters: Purdue Academic Course Transformation (Flierl et al, 2017) Maybee, C. (in press) IMPACT Learning, librarians at the forefront of change in higher education. Chandos

Purdue University, IMPACT program

Tips for successful course development partnerships

- 1) target high profile educational initiatives,
- 2) focus on student learning (the golden rule),
- 3) develop an awareness of current educational theories,
- 4) use consulting approaches that focus on creating shared goals.



University of the Pacific, library repositioning

- Staff ask "What information and learning experiences are vital to furthering our own work?" and "What information ... experiences do we want to facilitate?"
- Analysing for connections with IL models, to see strengths & gaps
- Librarians, IT, architects, academics, researchers
- A whole of library revisioning, including space and work practice redesign.



Photo: from Uni of the Pacific

Scholarly information literacy education partnerships may be built on shared/or conflicted views of

Information research

- Content related research
- These may be used together to build curriculum with a dual focus



Mary Ann Harlan

Explored teenagers' information experiences while creating online content.

A view of IL through the window of teens' experience of content creation From Harlan (2014)



- Photo from
- http://www.ala.org/support/harlan

- CONTEXT online communities via social media
- •
- Experiencing information involves learning –
- information changed what teens knew, could do and how they represented their world
- As they learned about content creation, teens experienced information variously as: participation, inspiration, collaboration, process and artifact

Information as - (ie they were informed by)

- Participation through participation they developed an awareness of the community, knew its audience and norms
- Inspiration information 'spoke to them' at an emotional level in the creative process
- Collaboration information was shared knowledge and skills that could be pooled to create/transform content

Information as – (they were informed by)

- Process the process of exploring different tools to create content.
 Emotional and physical engagement led to final selection
- Artifact the concrete representation of the content created by teens – games, videos, art, website, blogs, programs

Were associated with information practices

- Gathering practices
 - Serendipitous encountering
 - Focused browsing
 - Directed searching
- Creating practices
 - Participating
 - Copying
 - Modeling
 - composing

- Thinking practices
 - Choosing
 - Evaluating
 - Musing
 - Considering
 - Planning
 - Reflecting

Introducing the QUT Cube – a physical and virtual space



QUT Information Systems School





OUR NEW SPACES

Students love them



QUT Information Systems School





We love them to teach in

OUR NEW SPACES



QUT Information Systems School





Entering the building

Conceptual innovations for information and learning futures



Bruce et al, (July 2017) Journal of Information Literacy Photo: in the QUT Cube April 2017

The expressive 'window'

- Approaches

 information in terms of
 information
 nourishment
- Approaches evaluating information by considering feelings, aesthetics, expression, and identity



Evaluating and creating

- How does this source make me feel?
- What sort of emotions does it evoke?
- Does this source nourish, enrich, excite and inspire me?

- Is this creation an expression of me?
- Is my voice distinctive?
- Will people know this is me?

Information Experience Design

- developing and implement interventions that allow ...people...to experience information and the inform environment ...in a range o increasingly complex ways
- ...offering them a richer, broader and more effective information engagement experience.



- IXD assists

 ...stakeholders ...to
 enable the transferability
 of IL ...(in)to everyday life
 and workplace settings.
- IXD informs the teaching of information literacy for non-traditional contexts

- Phase One: investigating experience foregrounding the information component
- Phase Two: Designing aspects of the information environment to enhance the info experience.

Informed learning design

 Informed learning designlearning involves becoming aware of critical aspects of planned information and learning experiences, and introducing these aspects to students through lessons and assignments



See also Marc Foster (2017) Workplace Info literacy for related work. stage 1, examine past ... interactions or ...evaluations to identify students' experiences; and use conclusions to determine intended changes in students' awareness of using information and discipline content

- stage 2, methods for assessing the changes in students' awareness throughout the course are selected.
- stage 3 design learning activities that foster a new awareness and ability to use information to learn defined in stage one.

Inclusive informed learning spaces

- Physical and virtual spaces that embrace the diverse knowledge, experience and practices that learners bring.
- ...offer a supportive environment for interaction between learners from diverse backgrounds



- ...where they can share information about and with each other.
- Here, learners may safely explore worldwide information sources, differing patterns of thinking and artistic expression.
- Educators encourage the sharing of transcultural perspectives in discussion and assessment pieces. In these ways, spaces for inclusive informed learning encourage participation and generate a common sense of belonging.

Thank you.

Further Reading

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Other reading

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Image References

- Slide 1 <u>http://www.flickr.com_photos</u>
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