

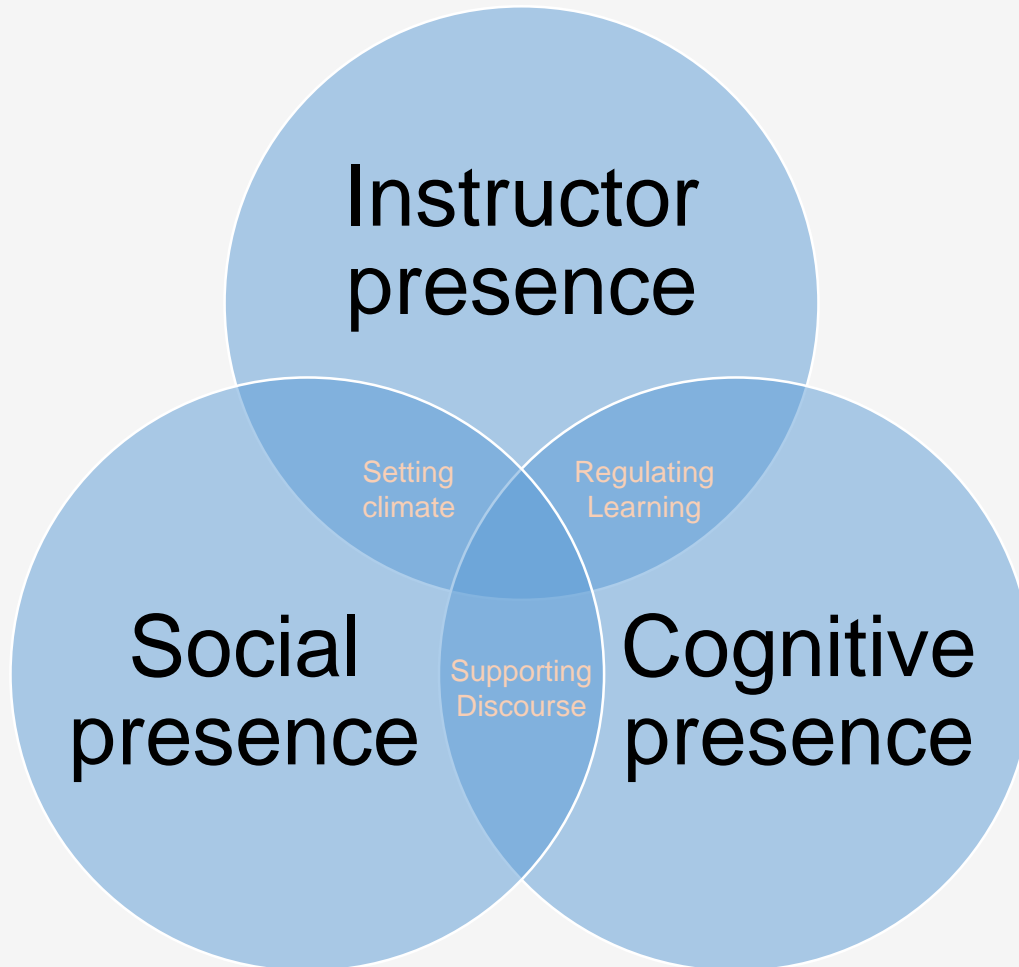


Contextualized Community of Inquiry Framework for Blended Learning Environments

Sharon Tan, Oteng Ntsweng, Oh Lih Bin, Lu Wei Quan, Lek Hsiang Hui
National University of Singapore
Department of Information Systems and Analytics

Funded by Centre for Development of Teaching & Learning, NUS

Overview of the Community of Inquiry Framework



Additional Presences

- Autonomy presence
- Emotional presence
- Instructor social presence
- Learning presence
- Distributed teaching presence

Kozan & Caskurlu 2018

Source: Garrison, Anderson, & Archer 2000

What Don't we Know?

Need for practical strategies & guidelines for how to actualize the presences (Fiok 2020).

Researchers have been urged to advance the COI framework in BL contexts (Ma et al. 2021).

Little is understood about the 'affordances' of different instructional technologies & how they might be exploited in learning and teaching context (Conole & Dyke 2004; Veryaeva & Solovyeva 2021).

Research Objectives

1. Identify essential COI presences in BL contexts;
2. Identify a comprehensive set of instructional technology affordances; and
3. Map the affordances to the COI presences, experiential, & learning outcomes they fulfill.

Research Method

- **Case study**
 - Semi-structured interviews with 9 faculty
 - Focus group with 14 students
 - Publications detailing experiences of faculty in other departments
 - Webinars/seminars

Blended Learning: Common Technologies



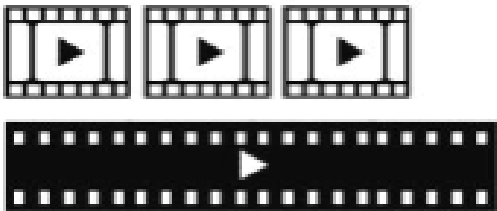
In-person FtF+ online synchronous



Online synchronous



Discussion boards & synchronous chats



Pre-recorded videos



Webex Meetings

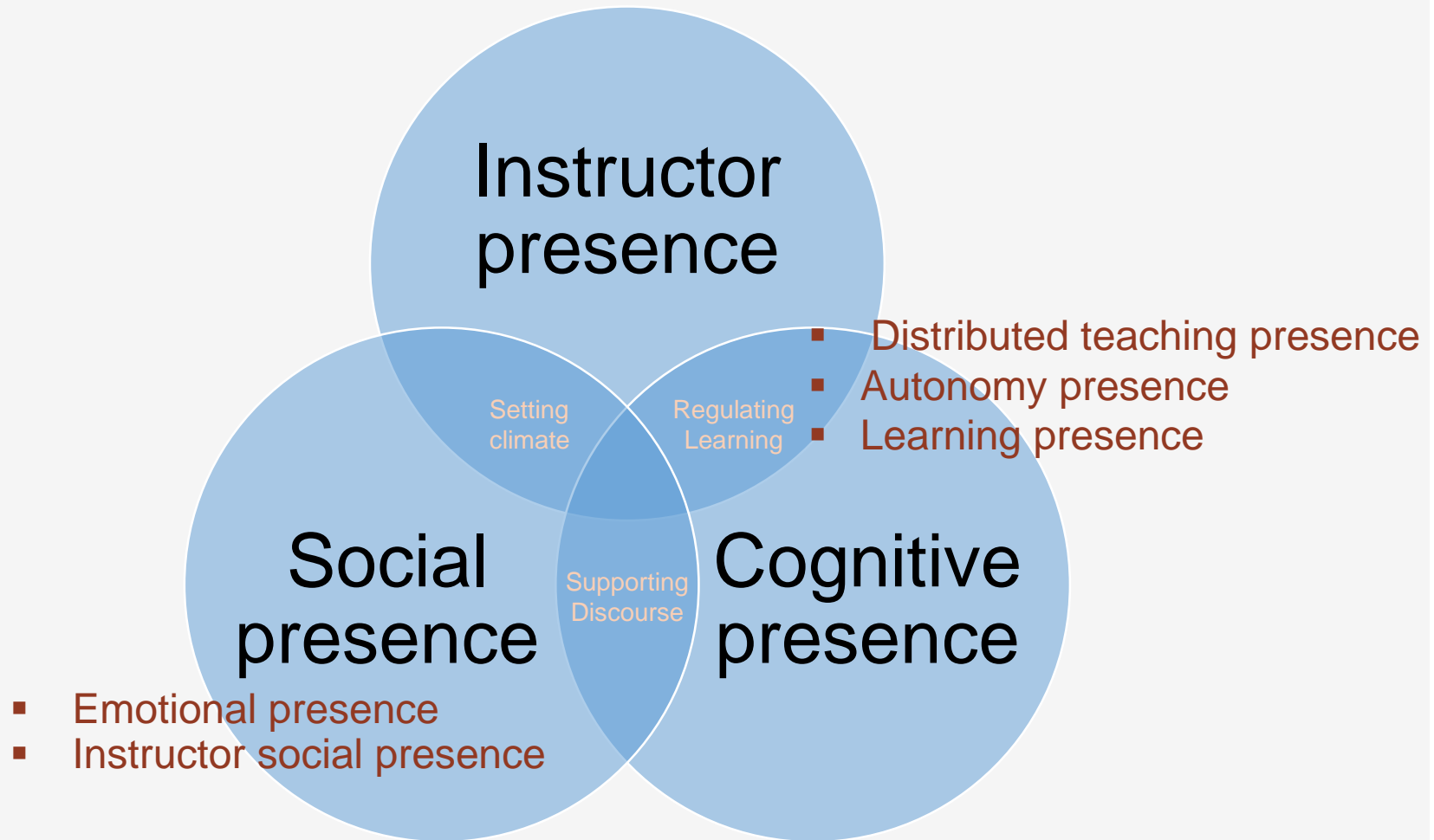


Blended Learning: **Technological Affordances**

- Accessibility
- Speed of change
- Diversity
- Communication and collaboration
- Reflection
- Multimodal and nonlinear
- Risk, fragility and uncertainty
- Immediacy
- Monopolization
- Surveillance
- Competitiveness
- Personalization/identity
- Feedback
- Stimulation and encouragement

Action possibilities of
educational technologies

What are the essential presences in Blended Learning Contexts?



How might educational technologies be used to actualize Col presences?

Social Presence

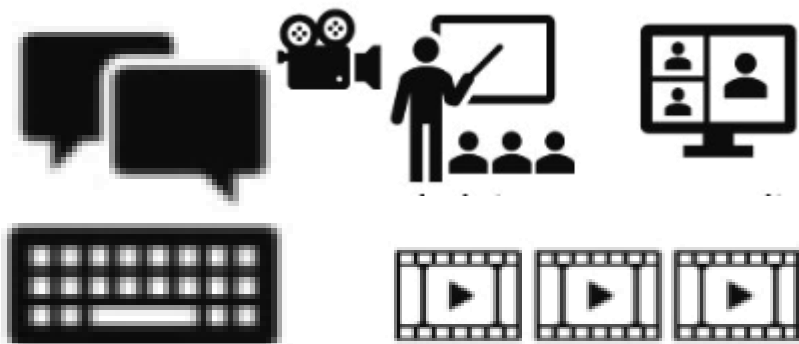
- Interpersonal communication: emotional expression, self-expression, humor
- Open communication
- Cohesive communication

| Affordances | E.g., of Educational Tech Features | E.g., of Tools |
|--------------------|---|--|
| Personalization | Profile pictures, biographies, & other identifying information. | Canvas LMS Flipgrid |
| Encouragement | Users collaboratively like or comment threads on discussion forums. | Piazza discussion forum |
| Collaboration | Whiteboard, annotations | Zoom |
| Communication | Chats, Voice, Video, Emoticons | Zoom, MS teams, Piazza discussion forum |

Instructor Presence

- Instructional design & organization
- Direct instruction
- Facilitating discourse

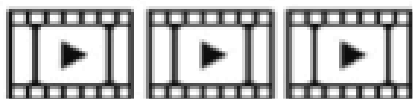
Multimodal, nonlinearity & Diversity



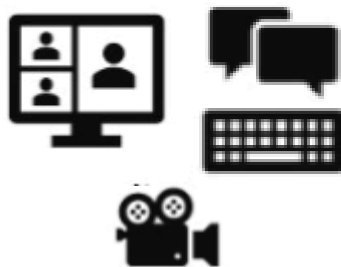
Accessibility

- Gradebook
- Progress Tracking
- Activity Dashboard
- Class Summary

Speed of change



Feedback

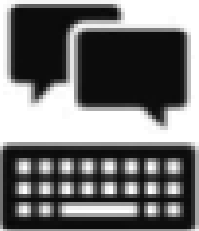


Immediacy



Cognitive Presence

Reflection



SCHEDULE OF PLACEMENT/ORGANIZATION ACTIVITIES
 PERIOD: JANUARY 2024
 SESSION: JANUARY 27 - 31ST 2024

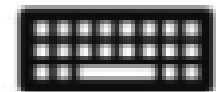
| NO. | DATE | TIME | SECTION | SUBJECT | LECTURER |
|-----|--|-------------|---|---|--|
| 1 | Monday January 22 ND 2024 | 08:00-09:00 | Plastic Surgery Meeting/Room 02 Floor | Exploration of Paediatrics | Prof. Dr. David L. Pambakutan, Jr., SpPl, SpCh |
| | | 09:00-09:30 | Joint-Orthopedic/General Surgery Meeting Room | History of the development of Surgery | Prof. Dr. Pambakutan, Jr., SpPl, SpCh |
| | | 09:30-09:50 | SBPT | With procedures and regulations on the SBPT | Isabel Howard Jr., SpOth |
| 2 | Tuesday January 23 RD 2024 | 08:00-09:00 | Practices of Orthopedic Surgery | | Isabel Howard Jr., SpOth |
| | | 09:30-10:30 | Practices of Breast Surgery | Recent New SBPT (Introduction) | Shey Aye L. B., SpCh |
| | | 10:00-11:00 | Practices of Urology Surgery | Recent New Surgery Medical Record | Amaciontan, Jr., SpU |
| | | 12:00-12:30 | Practices of General Surgery | Recent New Procedure | Chrisy Immanuel Jr., SpCh, KBO |
| | | 12:30-13:30 | Practices of Plastic Surgery | | Isabel Howard Jr., SpOth, KBO |
| 3 | Wednesday January 24 TH 2024 | 08:00-09:00 | Outpatient Surgery Medical Record | Medical record procedure Procedure for emergency patients in the room Recent procedure New Services (SBPT, etc) Education for residents in the SBPT | Isabel Howard Jr., SpOth, KBO |
| 4 | Thursday January 25 TH 2024 | 08:00-09:00 | SBPT Meeting Room Introduction | Medical SBPT emergency PPT New Management (SBPT SBPT in SBPT) | Isabel Howard Jr., SpOth, KBO |
| | | 10:00-11:30 | Recent Surgery Meeting Room | SBPT Surgical Unit | Prof. Dr. Raulino/Isabel Jr., SpCh |
| | | 12:00-13:00 | SBPT Lecture/Room | Continuation resident management | Dr. Immanuel Jose Sagaran Jr., SpPl, SpCh |
| 5 | Friday January 26 TH 2024 | 08:00-09:00 | SBPT | | Isabel Howard Jr., SpOth |
| | | 09:30-10:30 | SBPT | How to communicate for handling patients Patient Care Fee | L.O. B. Amaciontan, Jr. SpCh, SpPl |
| | | 10:00-11:30 | SBPT | | Isabel Howard Jr., SpOth |
| | | 12:00-13:00 | SBPT | SBPT Meeting Room | Isabel Howard Jr., SpOth |

Competitiveness & Stimulation

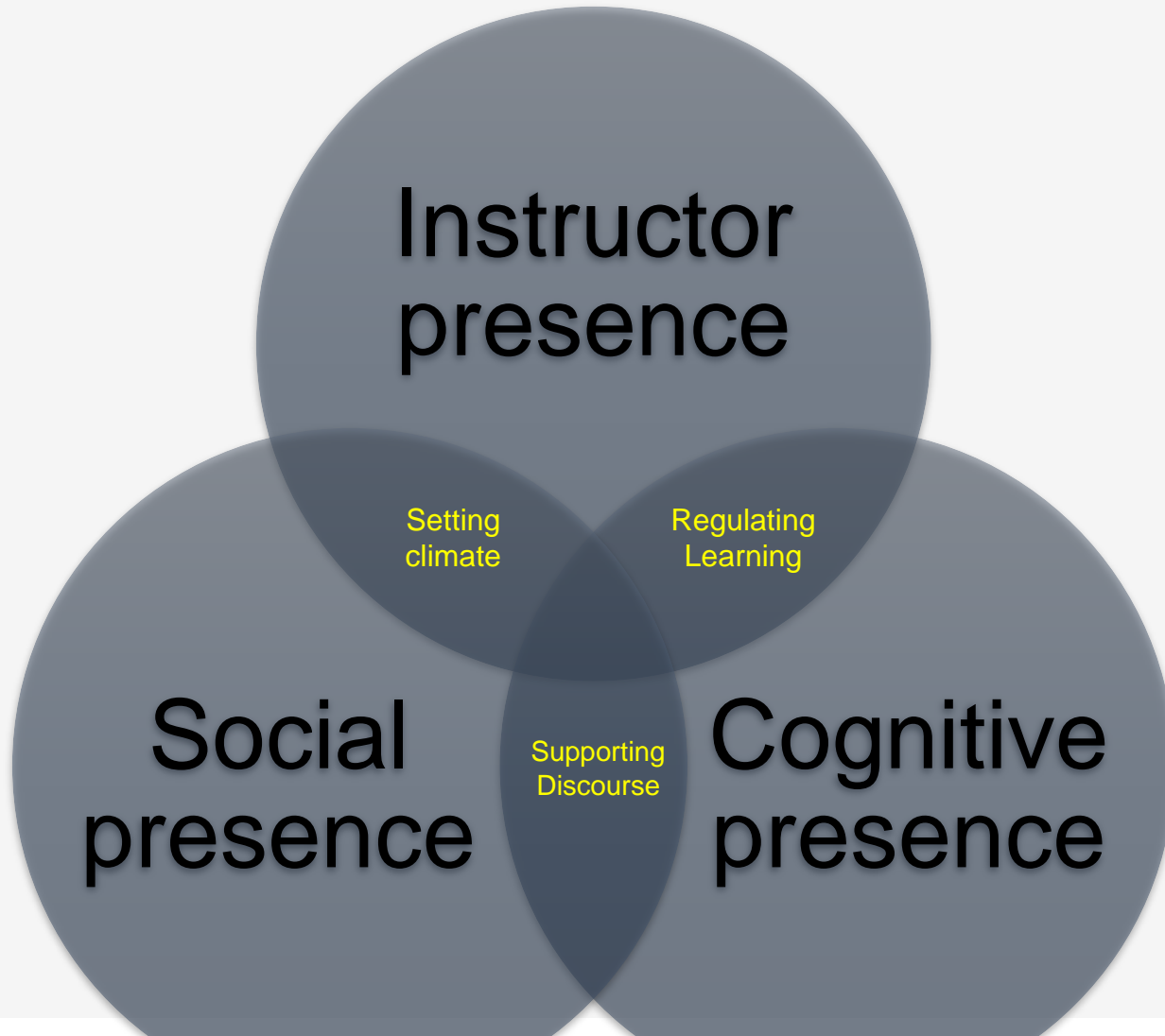
Kahoot!



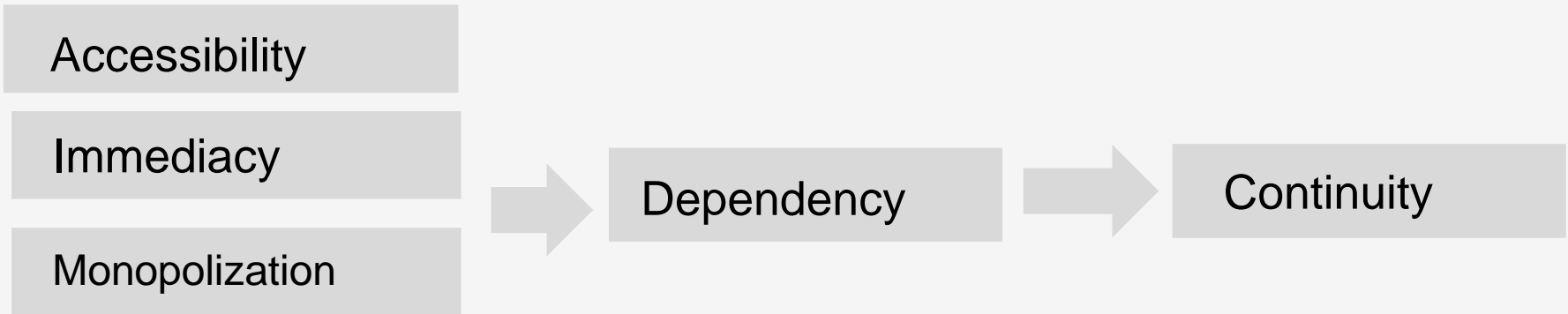
Feedback



Towards practical strategies & guidelines for how to actualize the presences



Dependency



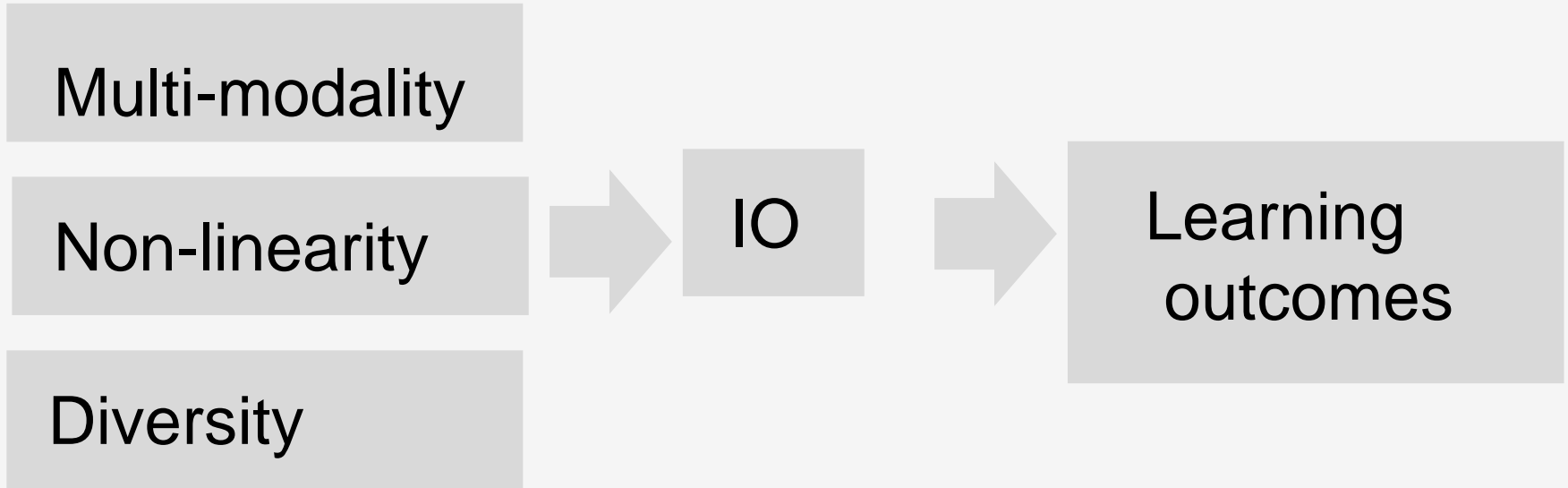
- Backup tools for LMS
- Backup materials for non-proprietary online learning platforms e.g., Datacamp

Risk, fragility & uncertainty

Instructors must pre-empt and devise mitigation strategies for unintended consequences that could derive from social presence affordances such as self-expression and use of humor.

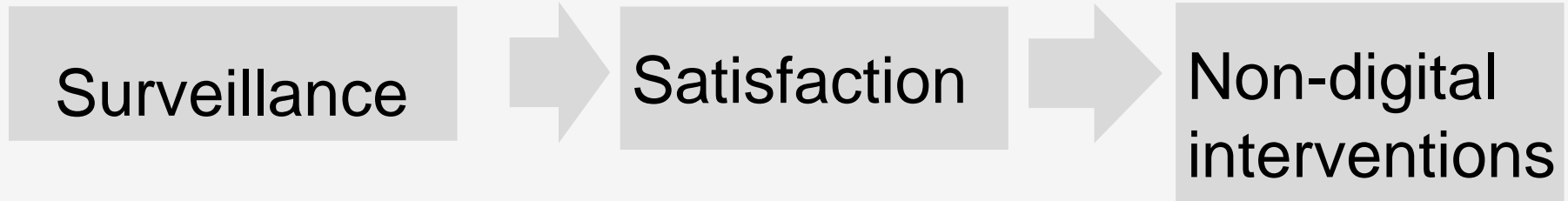
- E.g., Only enable authenticated users to avoid Zoom bombing.
- E.g., Anonymity in discussion forums can facilitate non-academic discourse.

Information Overload



- Inherently heavy
- Clear cognitive map/course walk-through.
- Preparing materials to be e-friendly.
- To be effective, educational technology must afford desired interactions for engagement in meaningful discourse.

Surveillance



- Student groups
- Anonymity in discussion forums
- Chat groups with teaching assistants (i.e., not instructors)
- Instructors should be optimally visible in different modes of interaction

Feedback

- Typically an issue in online synchronous classes.
- Tools such as Polleverywhere/ Kahoot.

Social Presence

- Challenge in large classes.
- Organize FtF meetings before going online.
- Encourage FtF consultation.



School of Computing

issotl22

At the Intersections of SoTL:
Transfer and Transformation, Diversity and Inclusivity

NOVEMBER 2-5, 2022

SYLX OKANAGAN NATION | KELOWNA, BC CANADA
HOSTED BY UBC'S OKANAGAN CAMPUS



Centre for Development
of Teaching & Learning

Contextualized Community of Inquiry Framework for Blended Learning Environments

<https://coi-tool.surge.sh/>

Funded by Centre for Development of Teaching & Learning, NUS