



**SIG 5:
Applying
LA
in
Educator
Practice**

AGENDA:

- AERA (10 min)
- revisit learning + analytics (10 min)
- activity instructions (5 min)
- divide & conquer (1 hour)
- break (10 min)
- share out (50 minutes)





PARK GRILL

W. STATE ST.

ROOMS



ANALYZE DATA IS INFORMING DECISIONS THIS DATA NEEDS TO BE OPEN AND AVAILABLE

LEARNERS SHOULD OWN + CONTROL THEIR OWN LEARNER ANALYTIC PROFILES

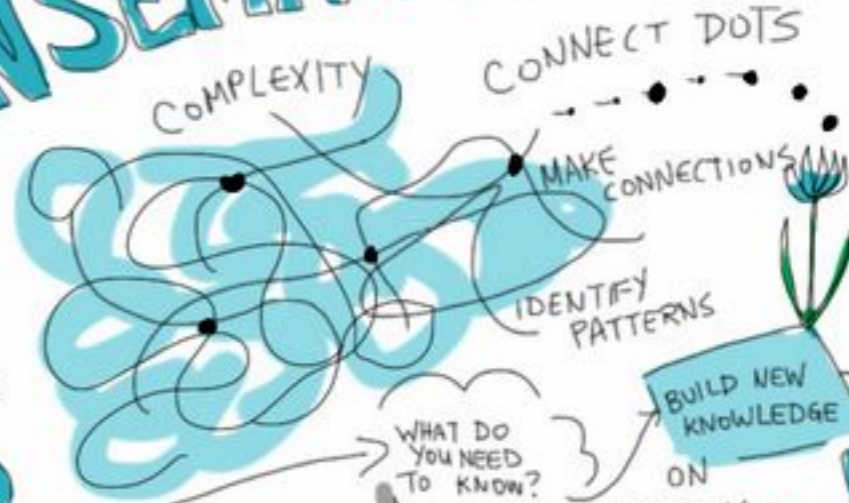


INTERVENTIONS
REPOSITORY OF ALGORITHMS

OPEN PLATFORM



SENSEMAKING



LEARNING ANALYTICS

TREND ANALYSIS

WHAT DO YOU NEED TO KNOW?

WHAT DO I KNOW?

RELATIONSHIP

BUILD NEW KNOWLEDGE ON EXISTING KNOWLEDGE

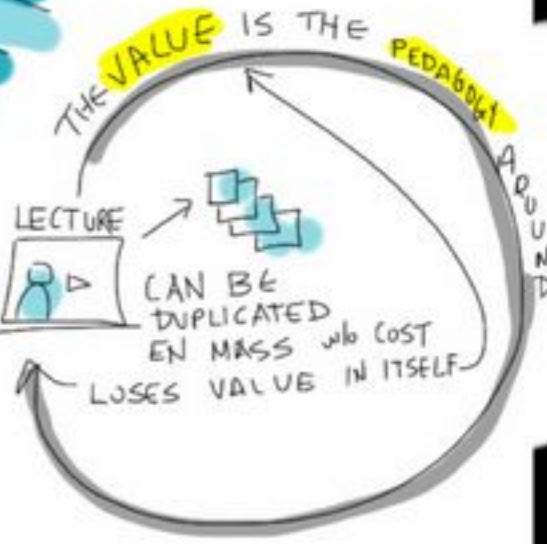
LEVERAGING EXISTING WORK

CROSS POLLINATION



STRUCTURAL ANALYSIS

WHEN THE DATA EXCEEDS COGNITIVE ABILITY TO UNDERSTAND



CONTENT CENTRED → SHIFT → LEARNER CENTRED

ADAPTIVE LEARNING

*NOT TALKING ABOUT ACADEMIC ANALYTICS i.e. ENERGY CONSUMPTION etc

ACTIVITY

- break into 3 groups: higher ed, k12, for-profit

ACTIVITY

- in 3 groups: higher ed, k12, for-profit...
- grounding discussion (10 minutes)
 - the videos & readings for this week
 - which videos/readings from the semester were most applicable to your sector

ACTIVITY

- choose one member's context to create your LA application plan (5 min)

ACTIVITY

- define the proposal (40 minutes):
 - context
 - desired impact
 - data collection
 - analysis
 - feedback loop
 - timeline

ACTIVITY

- context (who, what, where):
 - stakeholders
 - resources
 - learning setting

ACTIVITY

- desired impact:
 - need or opportunity
 - why is LA the right approach

ACTIVITY

- data collection:
 - what learner data will the system collect

ACTIVITY

- data analysis
 - processing and presenting data
 - e.g. discourse analysis, social network analysis...

THE 4 LEVELS OF LEARNING ANALYTICS



1

Descriptive

What has happened? Look at facts, figures, and other data that give you a detailed picture.

2

Diagnostic

Why did it happen? Examining the descriptive elements (above) allows you to critically assess why an outcome happened.

3

Predictive

What will happen? Given the same or different elements, what would the outcome be?

4

Prescriptive

What should I do? How can a specific outcome be achieved through use of specific elements?

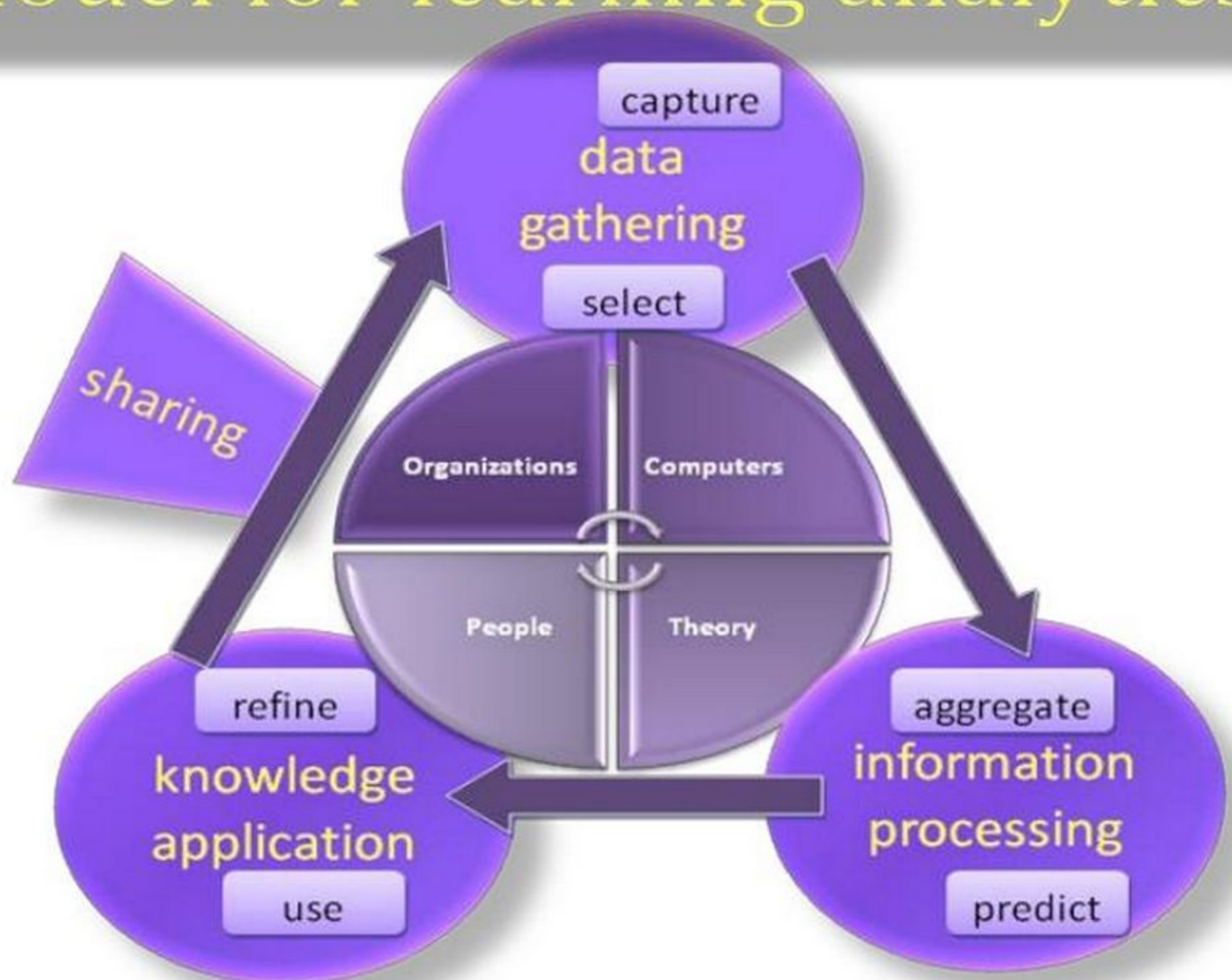
ACTIVITY

- timeline:
 - what learner data will the system collect

ACTIVITY

- diagram:
 - illustrate the feedback loop

model for learning analytics



awareness

data

(self-)reflection

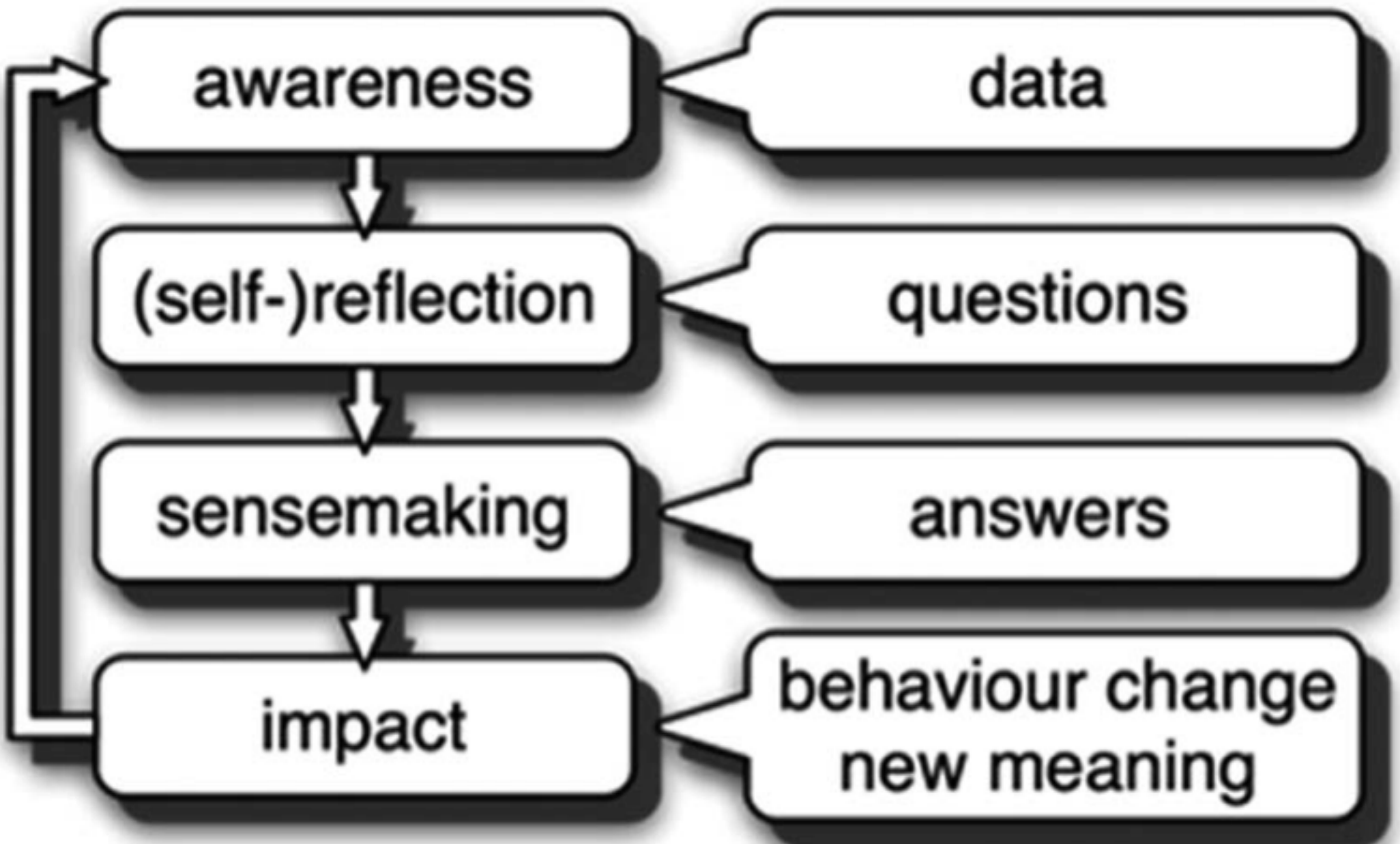
questions

sensemaking

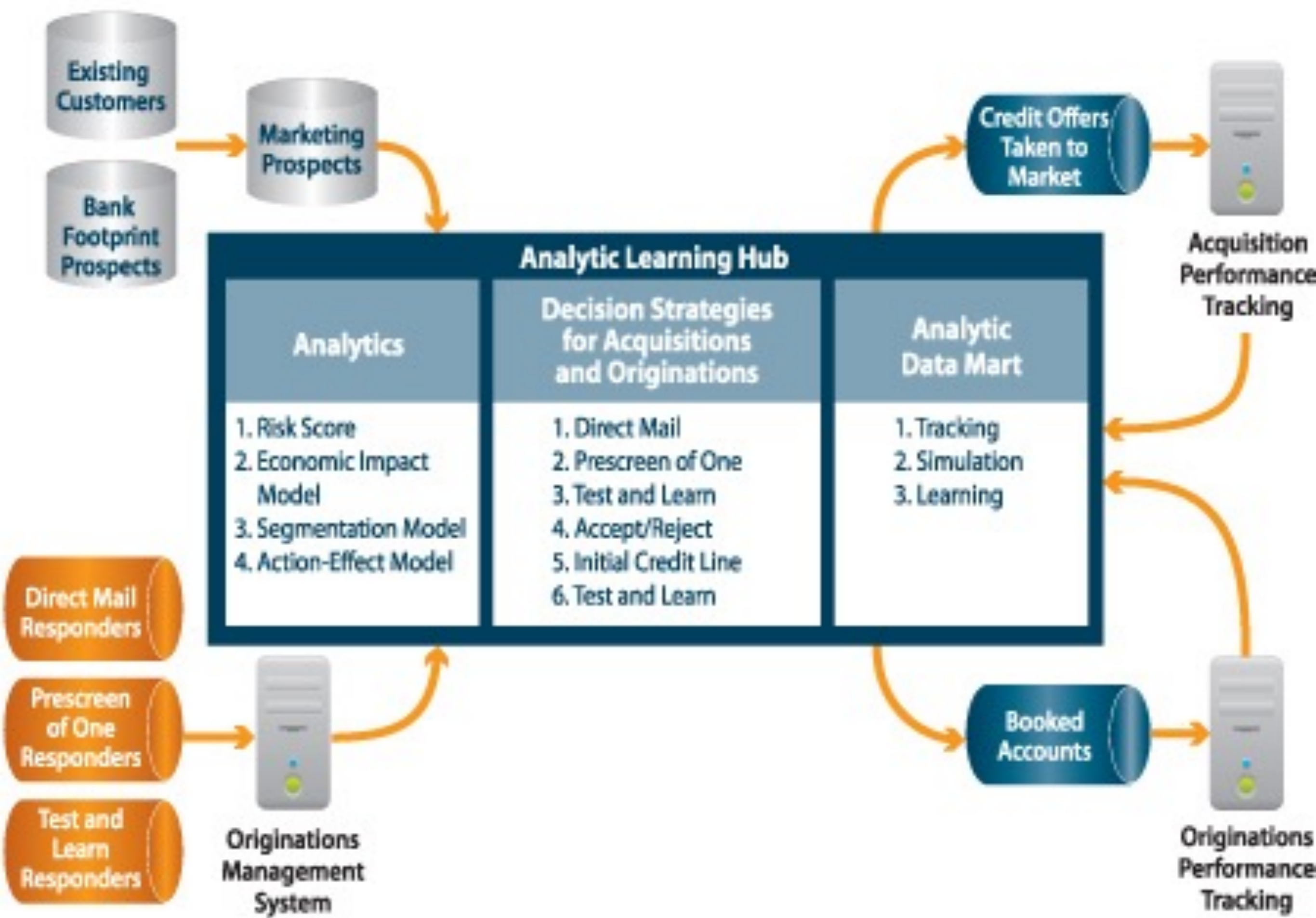
answers

impact

behaviour change
new meaning



analytic learning loop threaded through both processes



ACTIVITY

- present to group:
 - every group will have 10 minutes to present
 - every person in the group must present equal amounts (time/content)
 - we will be holding you to a time limit
 - you must present on all the structural components in the activity: grounding/proposal/diagram



PRESENT

- every group will have 10 minutes to present
- every audience participant is required to share 1 question & 1 comment through our backchannel: <https://todaysmeet.com/LAUMN>
- moderators will choose questions and comments to ask group