

Concerns-Based Adoption Method (CBAM) for Research Data Management (RDM) Education.

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* These slides were used for an in-house research presentation, and as such, they should be treated as preliminary.

Concerns-Based Adoption Method (CBAM)

for Research
Data
Management
(RDM) Education

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Kim Lightle

OSUL Special Assignment 2015

“I just don’t believe in all this altruistic sh*..!”

- Med Center faculty at Data Organization Workshop, 2015



Question:

- **How can I separate the ‘herd’ so that my educational efforts meet their needs?**
 - Ask them what their needs are...
 - Bailey, Charles. 2015. Research Data Curation Bibliography. <http://digital-scholarship.org/rdcb/rdcb.htm>
- **Is this response about ‘data’ or is it about ‘change’?**
 - Framework of change adoption
 - Kim Lightle, Director of the Office of Research, College of Education and Human Ecology

Hypotheses

1. **Can researchers can be differentiated based on their concerns about research data management?**
2. Do research beliefs and attitudes affect their behaviors regarding research data management?
3. Can these beliefs and attitudes be addressed by providing them education that is specific to their concerns?

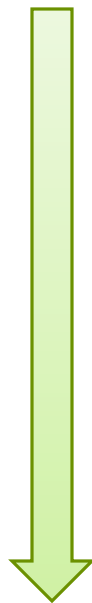
Concerns-Based Adoption Method (CBAM)

Change is hard and is a *measurable process*
Customized education helps

- 1) Innovation – definition of the change
- 2) Stages of Change questions –attitudes/beliefs
- 3) Levels of Use question – activity

CBAM

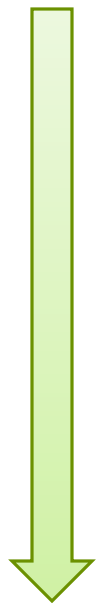
- Seven stages of concern



- **Unconcerned:** Wait, what?
- **Informational:** I need to know more...
- **Personal:** What does this mean to me?
- **Management:** OK, I think I got this now...
- **Consequence:** How does this impact my research/teaching/review?
- **Collaboration:** Wanna work on this together?
- **Refocusing:** We can do it better...

CBAM

- Eight levels of Use



- **Non-use**
- **Orientation**
- **Preparation**
- **Mechanical Use**
- **Routine use**
- **Refinement**
- **Integration**
- **Renewal**

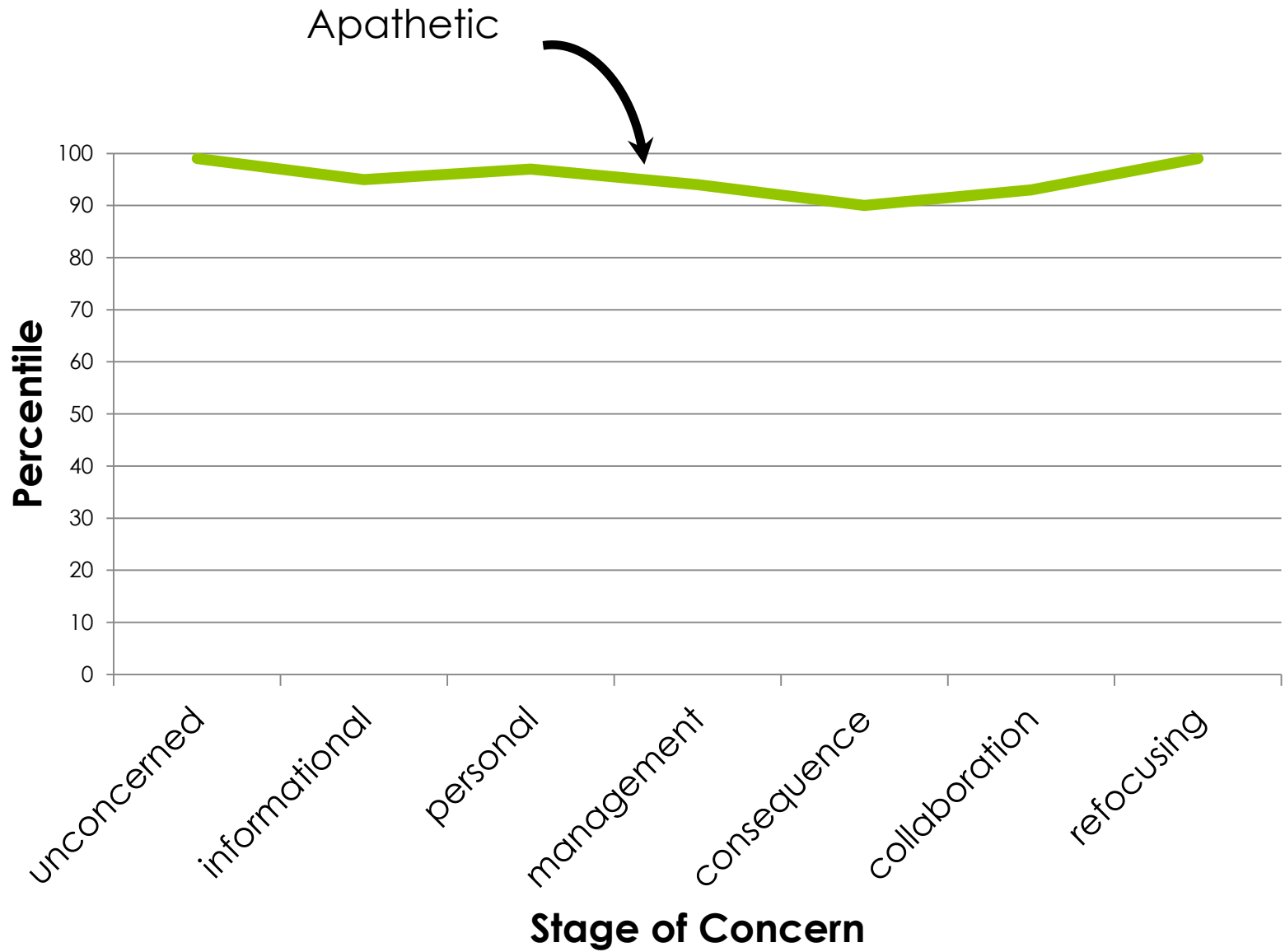
CBAM

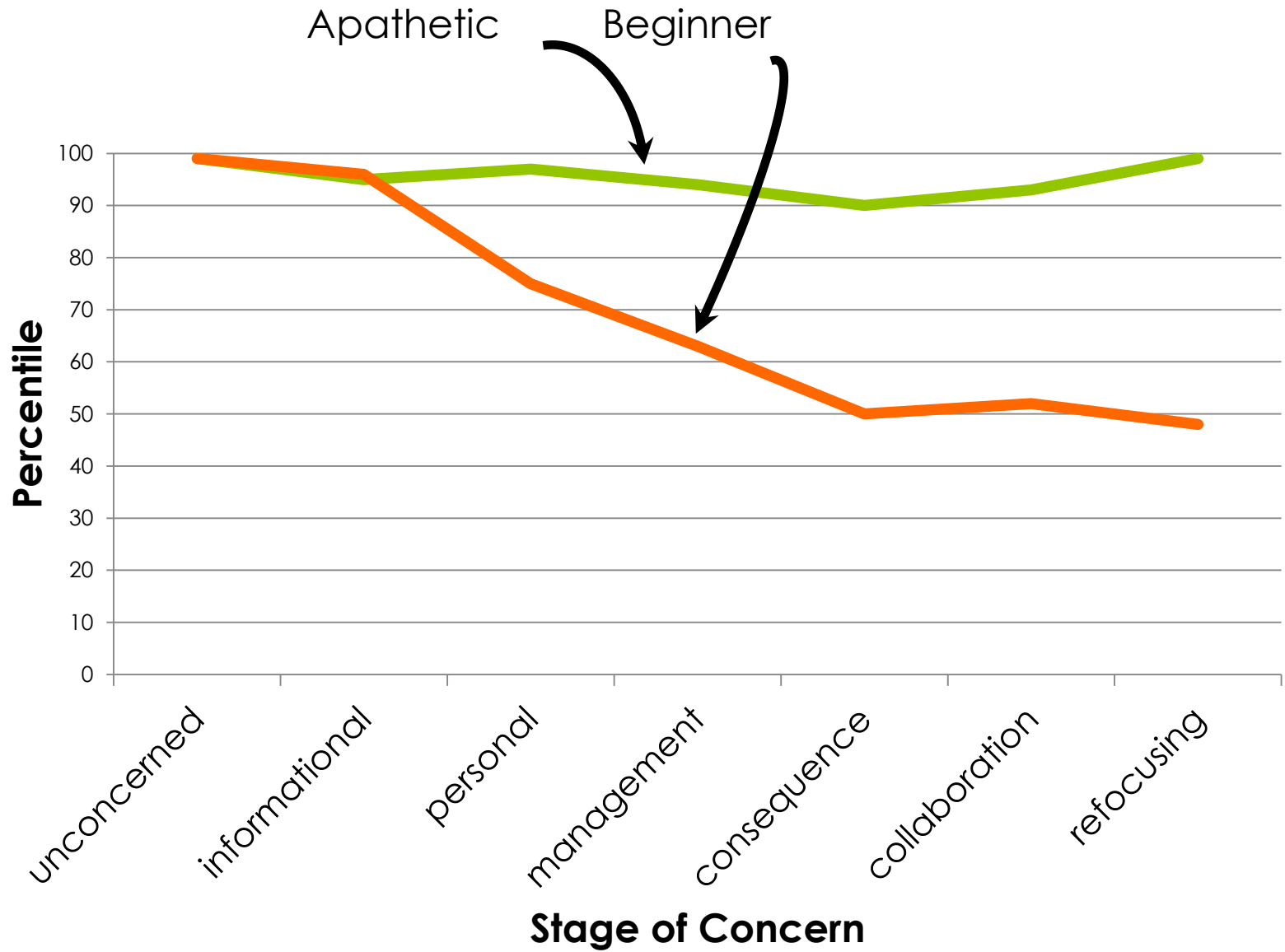
- Define the change (innovation):
 - Managing your research data
- Stages of Concern – 35 questions, 5 for each stage
- Levels of Use – 1 question
- Demographics – 9 questions

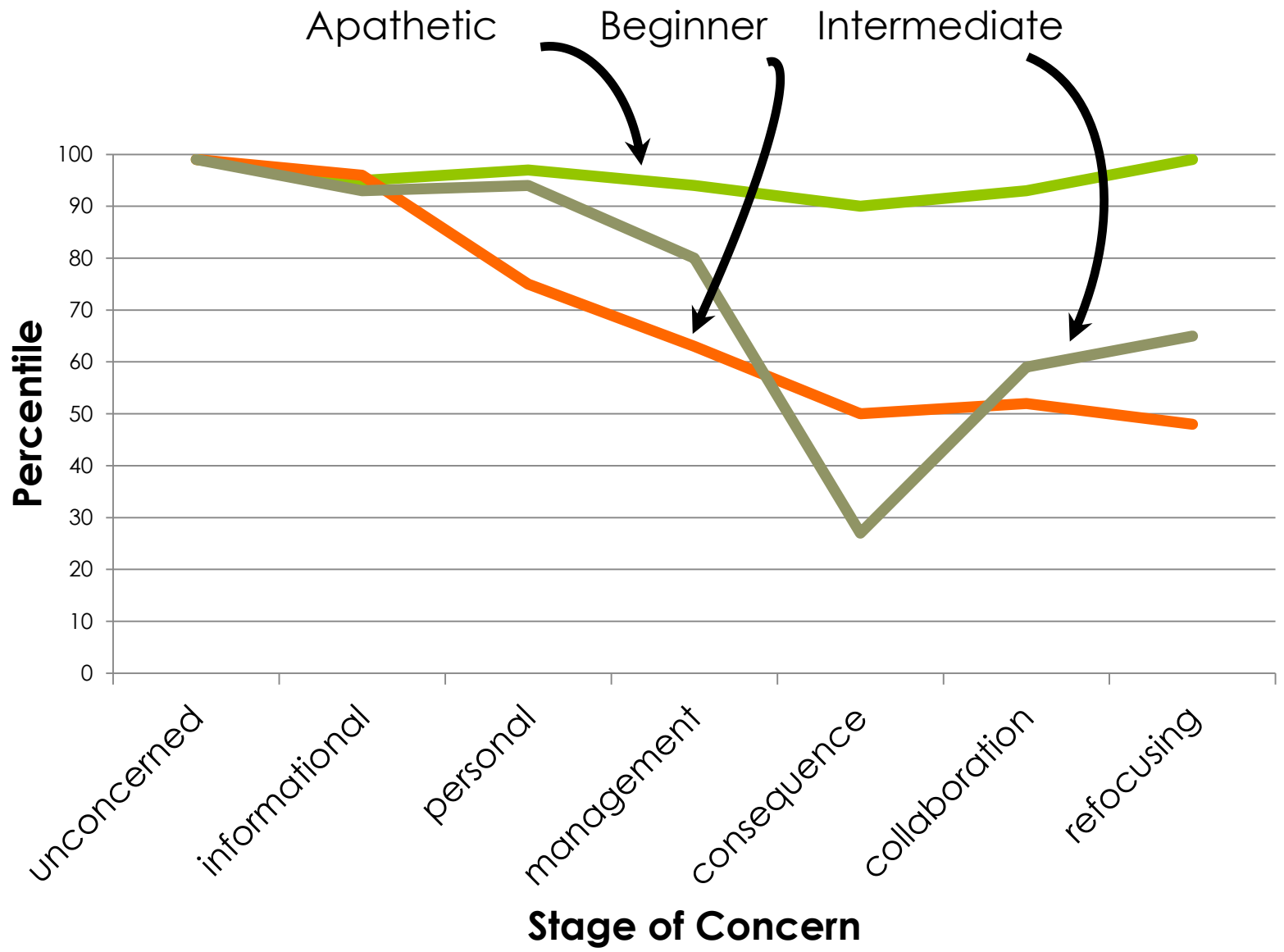
Final Product

- Total = 45 questions, less than 15 minutes

- 1. IRB approval
- 2. Distributed to the Post-doc listserv
- 3. 57 complete responses (104 total)
 - 1. 26 requested customized feedback
- 4. Score according to protocol







Apathetic

Beginner

Intermediate

Percentile

Stage of Concern

unconcerned

informational

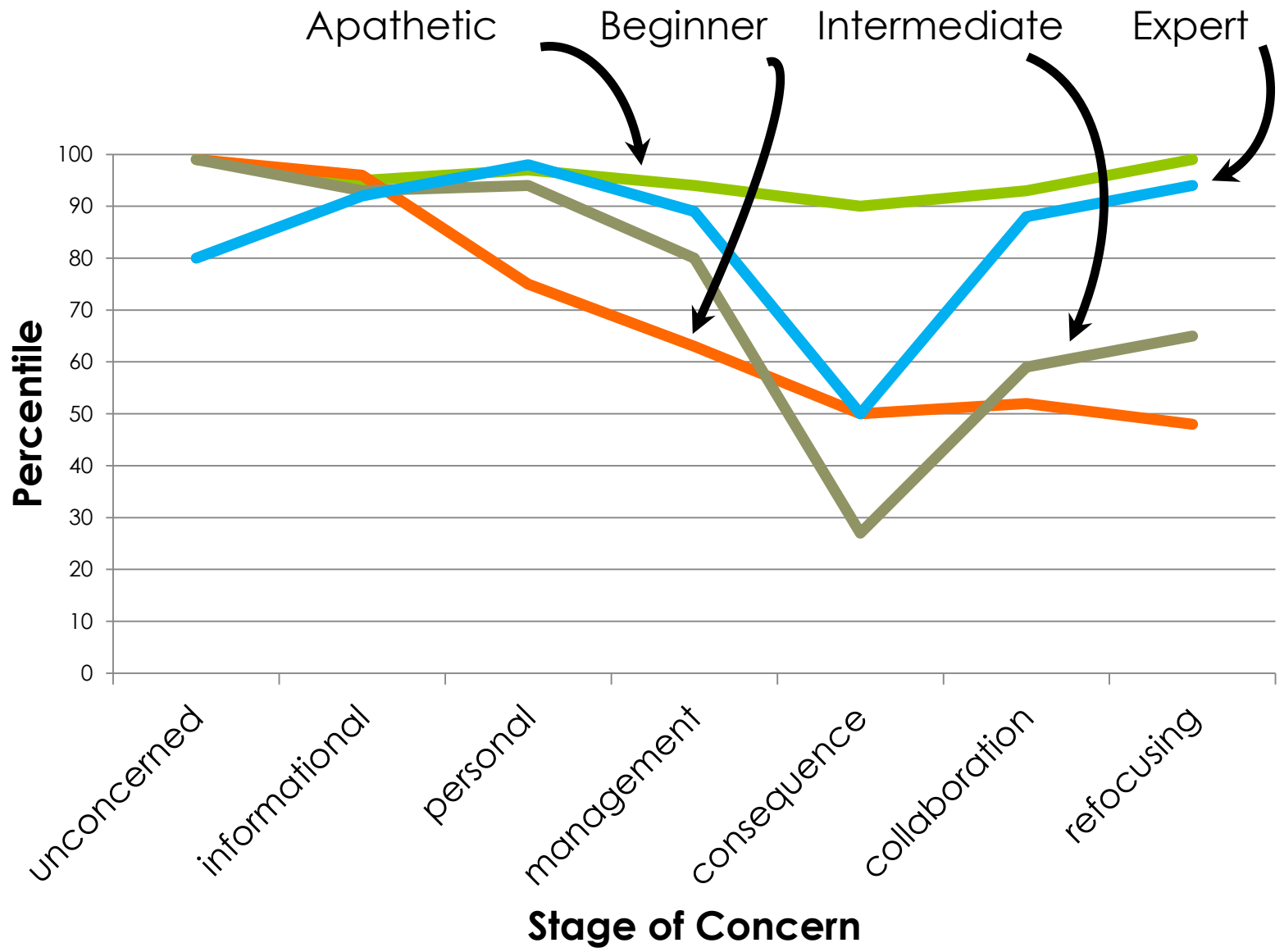
personal

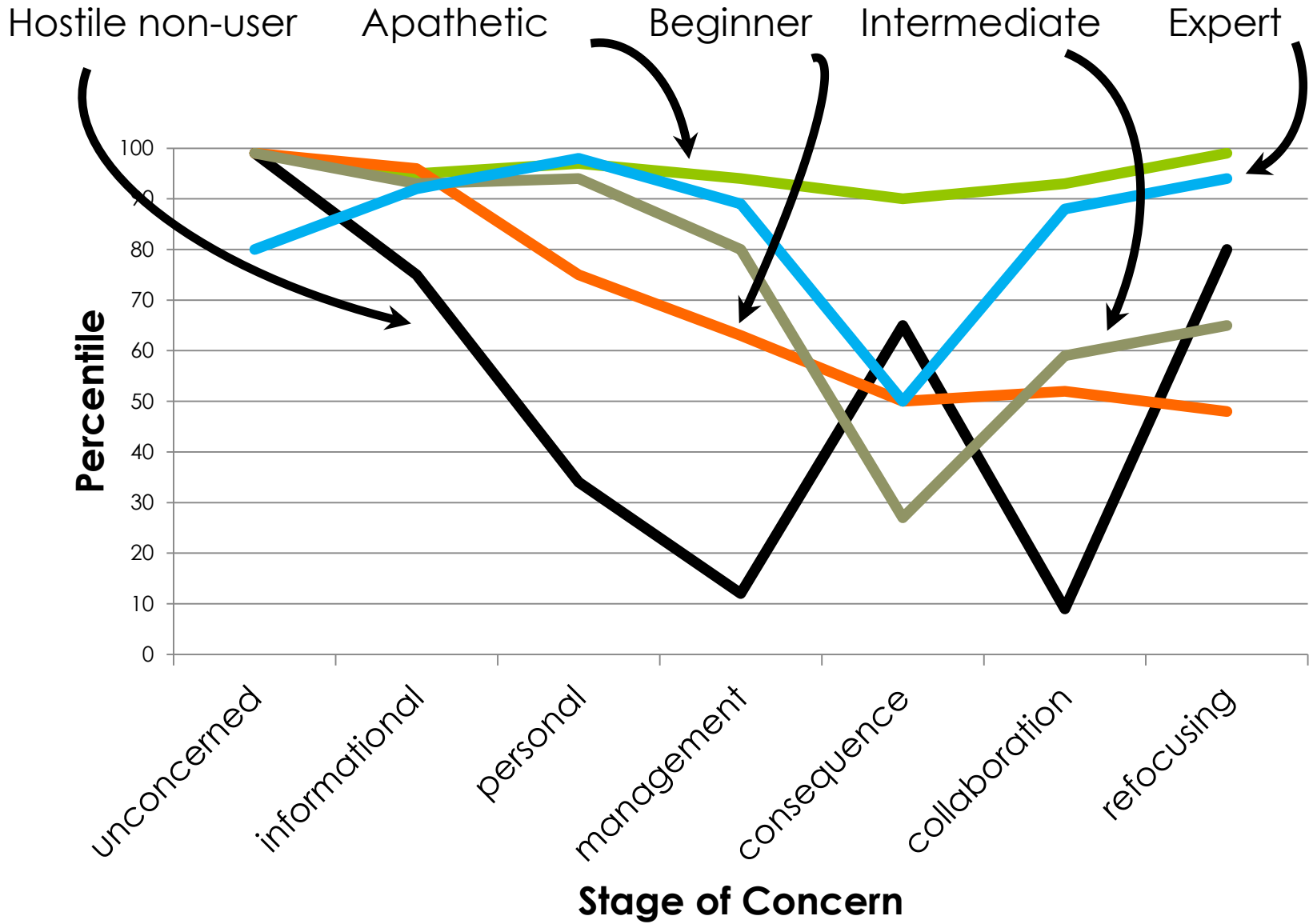
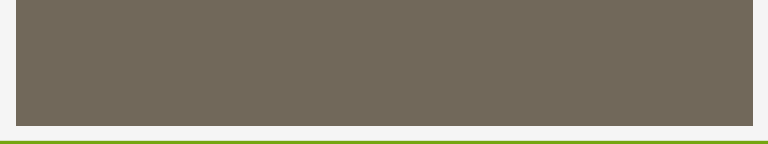
management

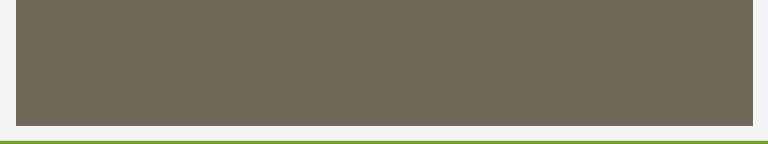
consequence

collaboration

refocusing

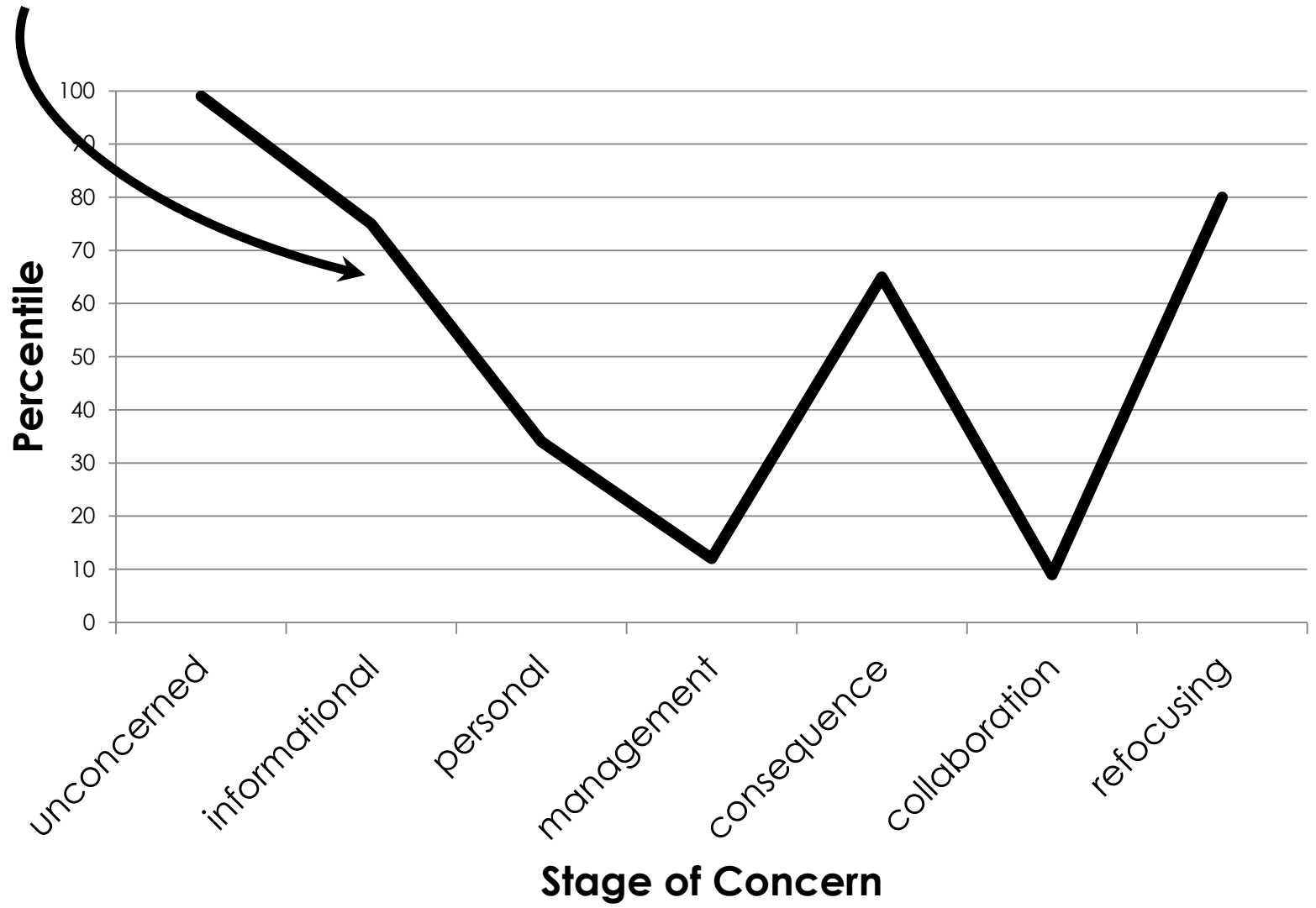






Hostile non-user

“I just don't believe in all this altruistic sh*..!”



Results

	OSU Post-docs
Hostile non-user	8
Apathetic	8
Beginner	16
Intermediate	18
Expert	1
Yet to be determined	6

Levels of Use

Non-user Survival Mastery Impact Innovation

Stages of Concern

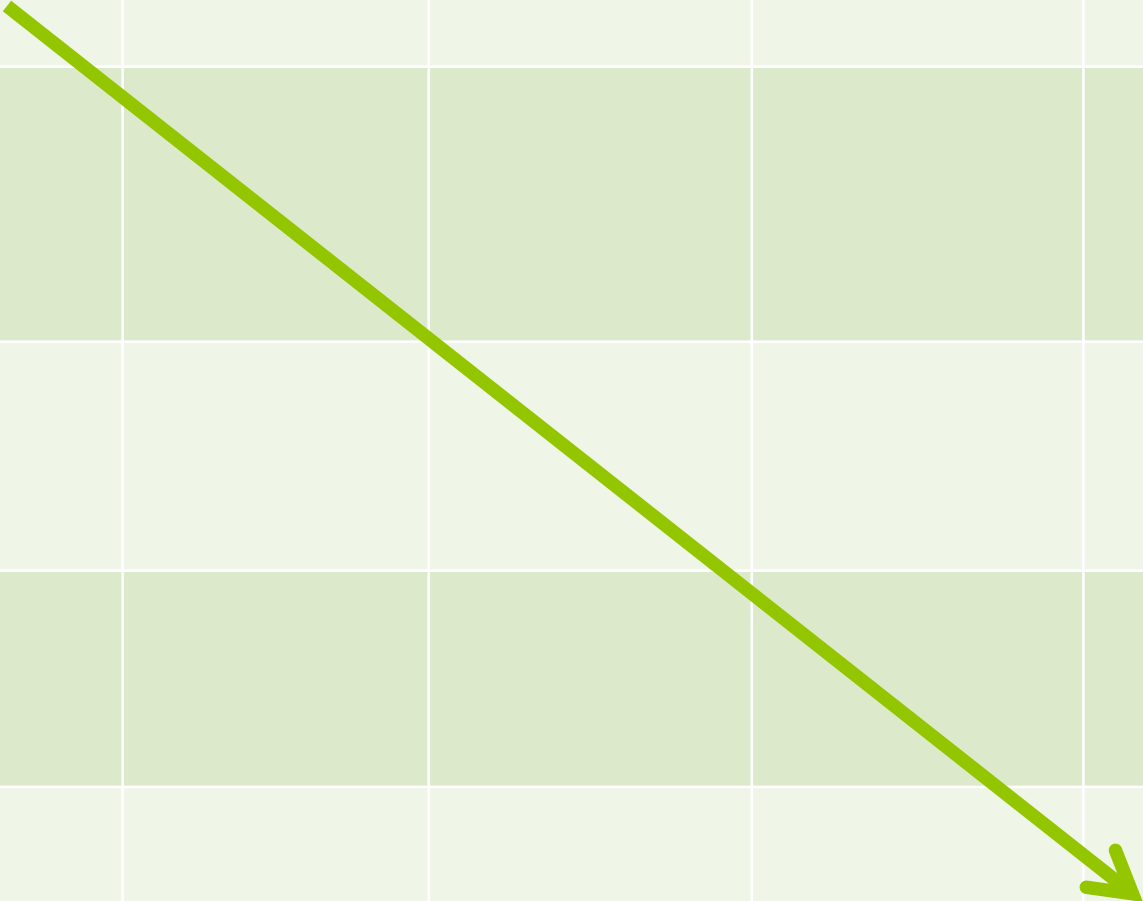
Unrelated

Self-related

Task-related

Impact-related

Beginner



Expert

Next steps

- Confirm reliability and validity
- Deploy to a wider audience
- Possibly shorten

Ultimately

- Customize Research Data Management (RDM) Education according to researchers' Stage of Concern

More information

- Rinehart, Amanda. Getting emotional about data: The soft side of data management services *College & Research Libraries News*, September 2015 76:437-440.
- Hall, G. E., & Hord, S. M. (2001). *Implementing change: Patterns, principles, and potholes*. Boston: Allyn and Bacon.