

Using Concept Mapping to Develop an Agenda for Sustainability Research

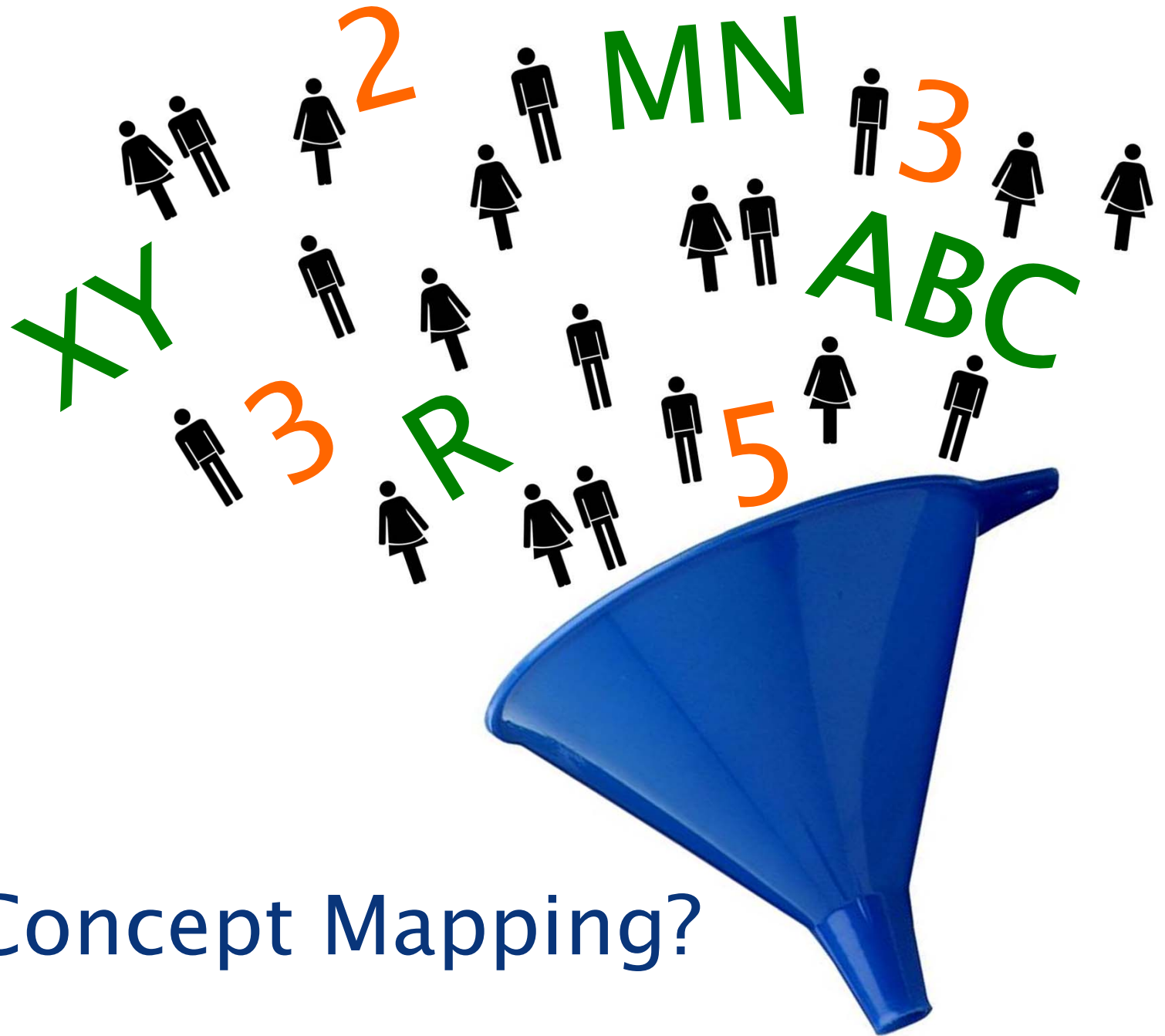
February 8, 2012
Douglas Luke
Annaliese Calhoun

Objectives

- Present results of Concept Mapping project
- Use Concept Maps to guide discussion on developing a research agenda for sustainability

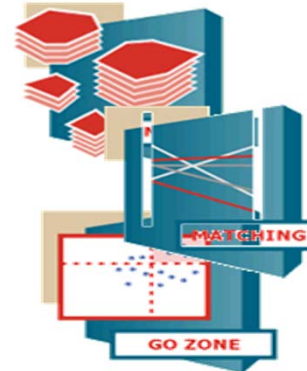
A close-up photograph of a person's bare foot standing on a light-colored metal beam. The beam has several small circular holes along its length. The background is a solid, bright blue color. The text "Laying the groundwork" is overlaid in a dark blue font across the middle of the image.

Laying the groundwork

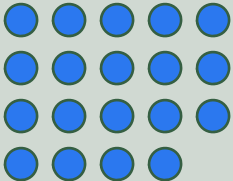


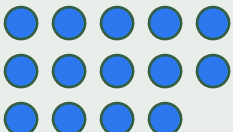

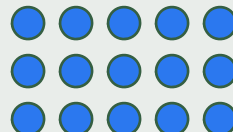
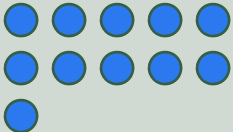
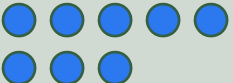
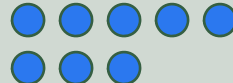


Why Concept Mapping?

Concept Mapping



Range of Invitee Fields

	Public Health	Mental Health	Health-care
Researcher			
Funder			
Policy Leader			

Participation

Brainstorm	Sort	Importance Rating	Challenge Rating
50*	19	18	13

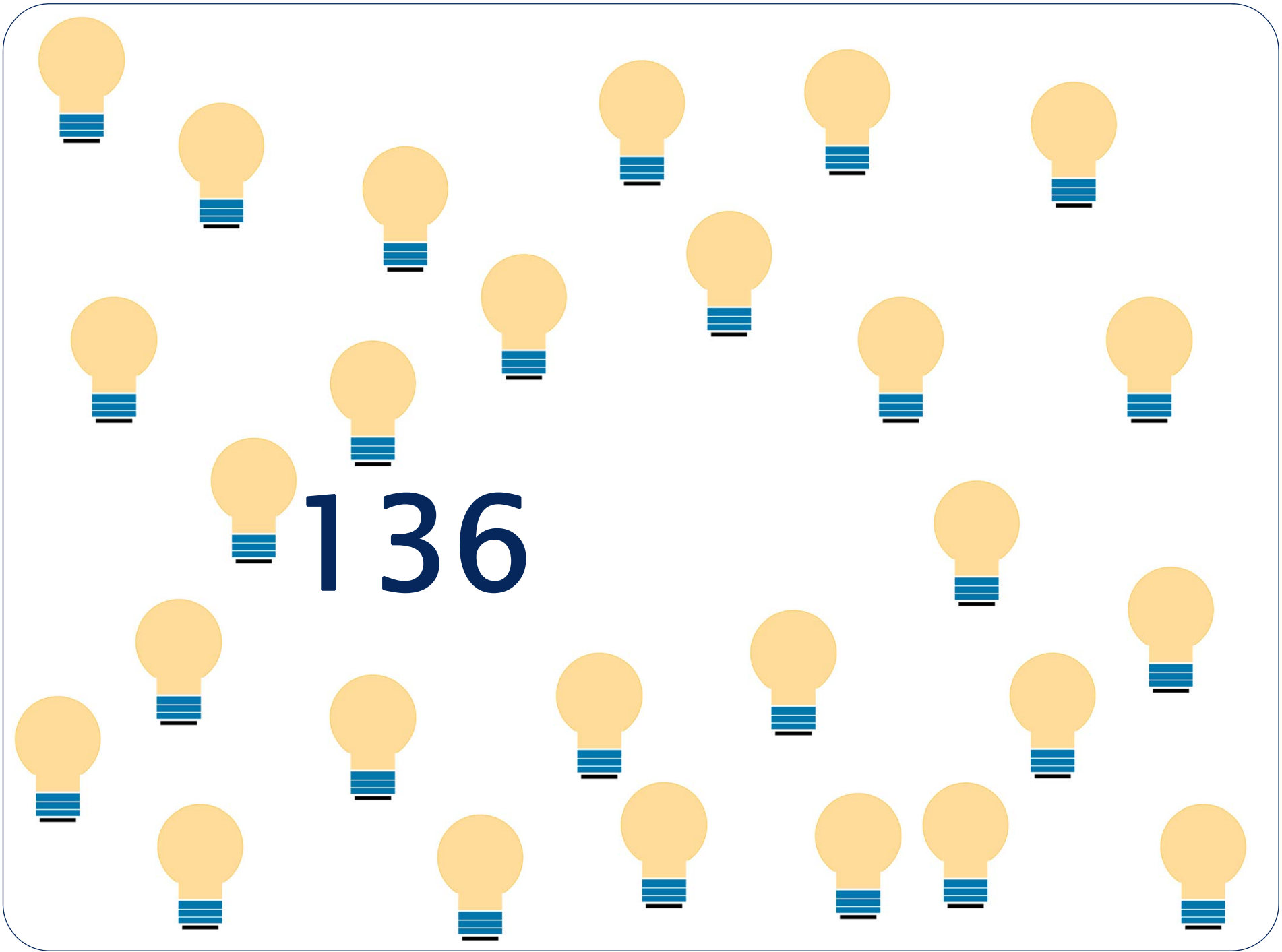
* This number is how many times someone opened the brainstorming page and does not reflect unique participants.



In advancing a program of research on sustainability, an important issue is...

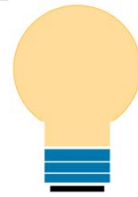
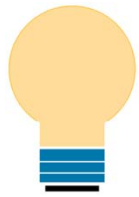
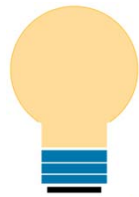
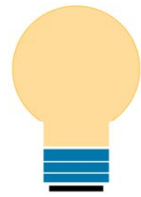
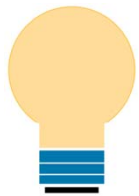
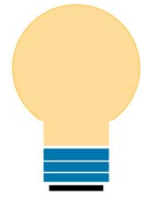
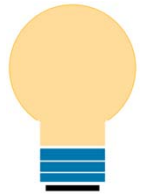
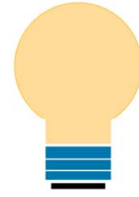
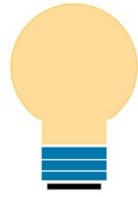
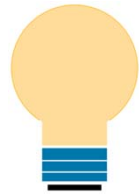
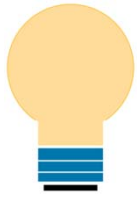
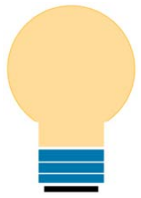


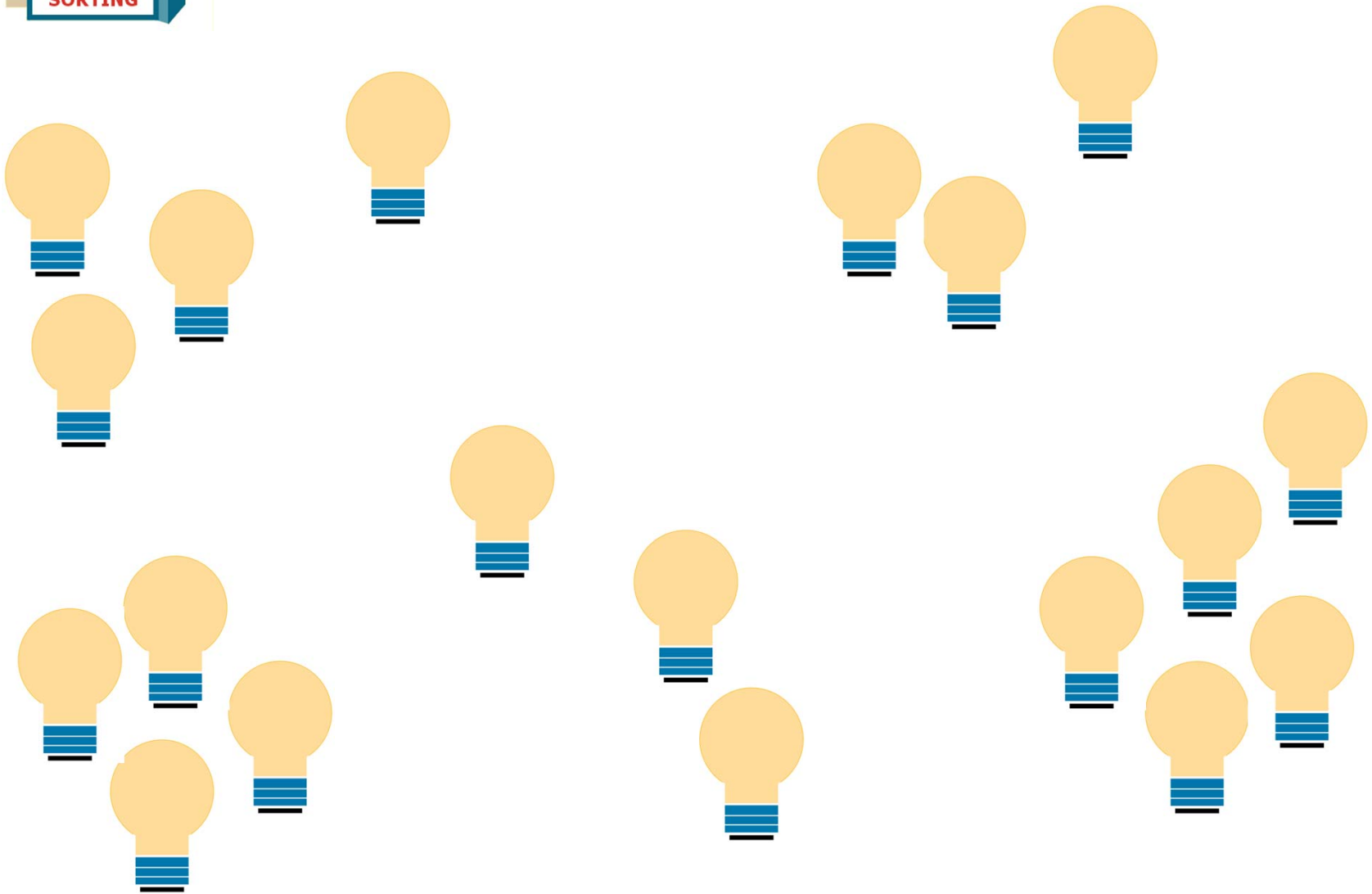
Photo: marttj/flickr

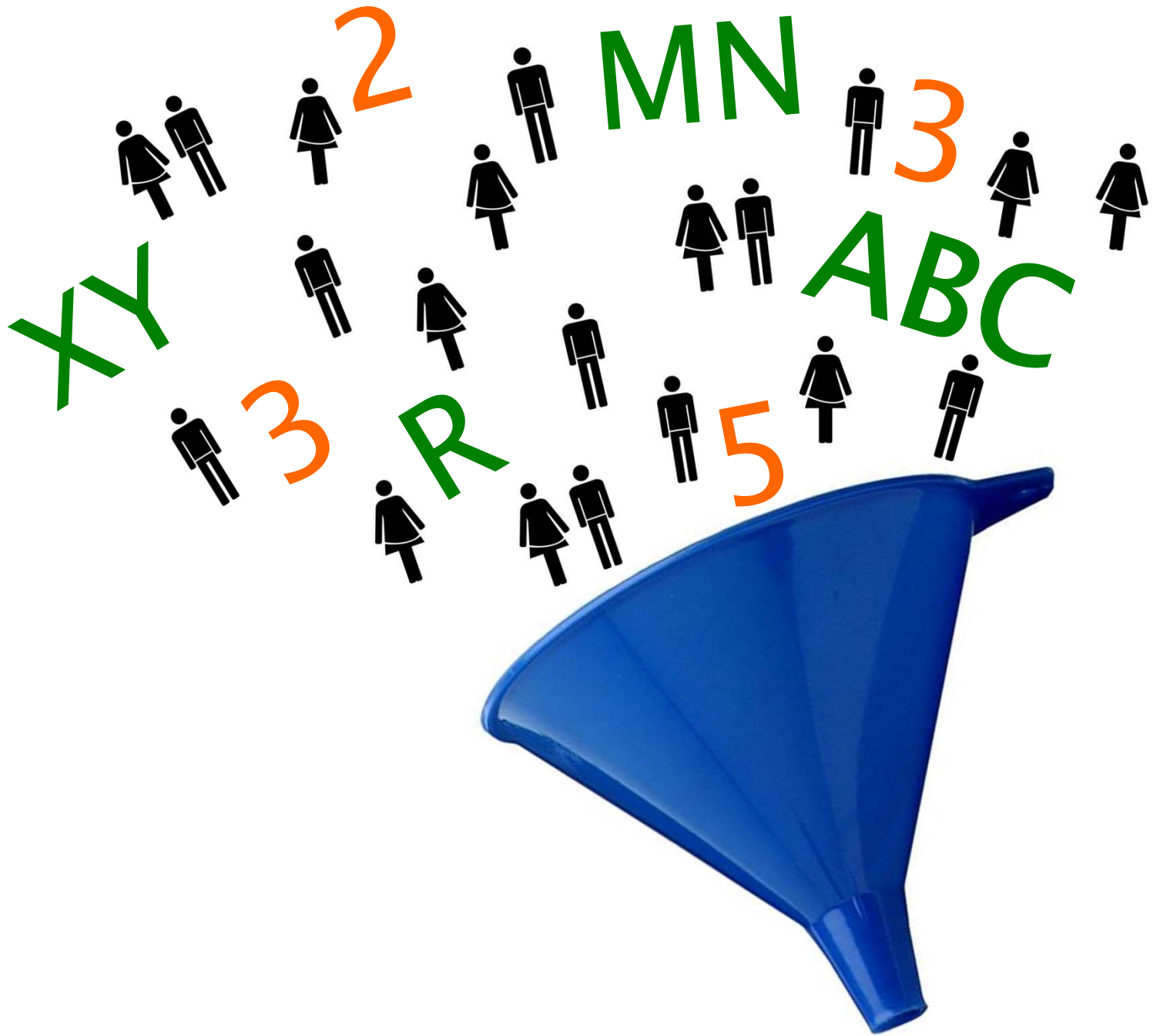


136

136 → 91



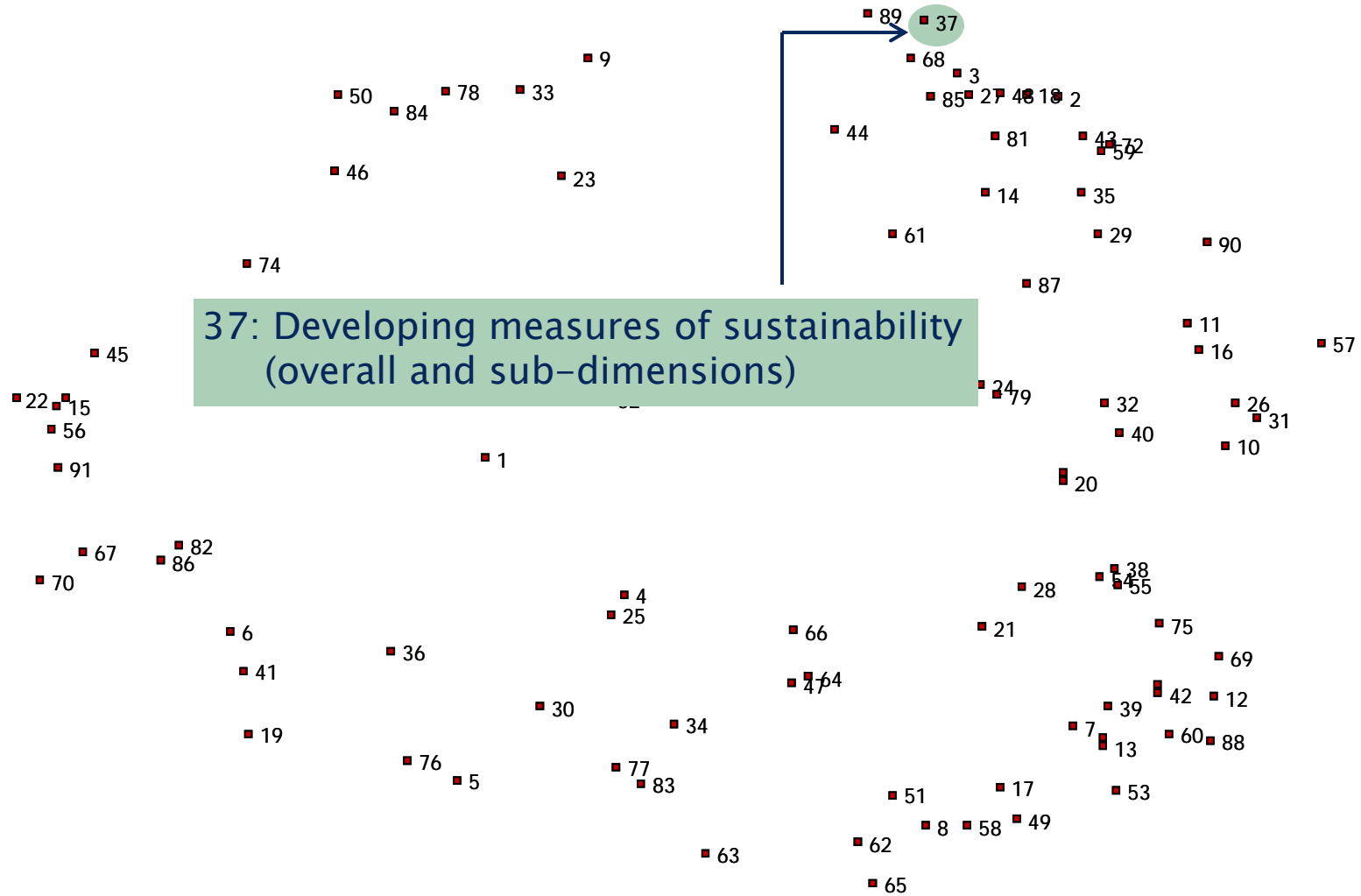




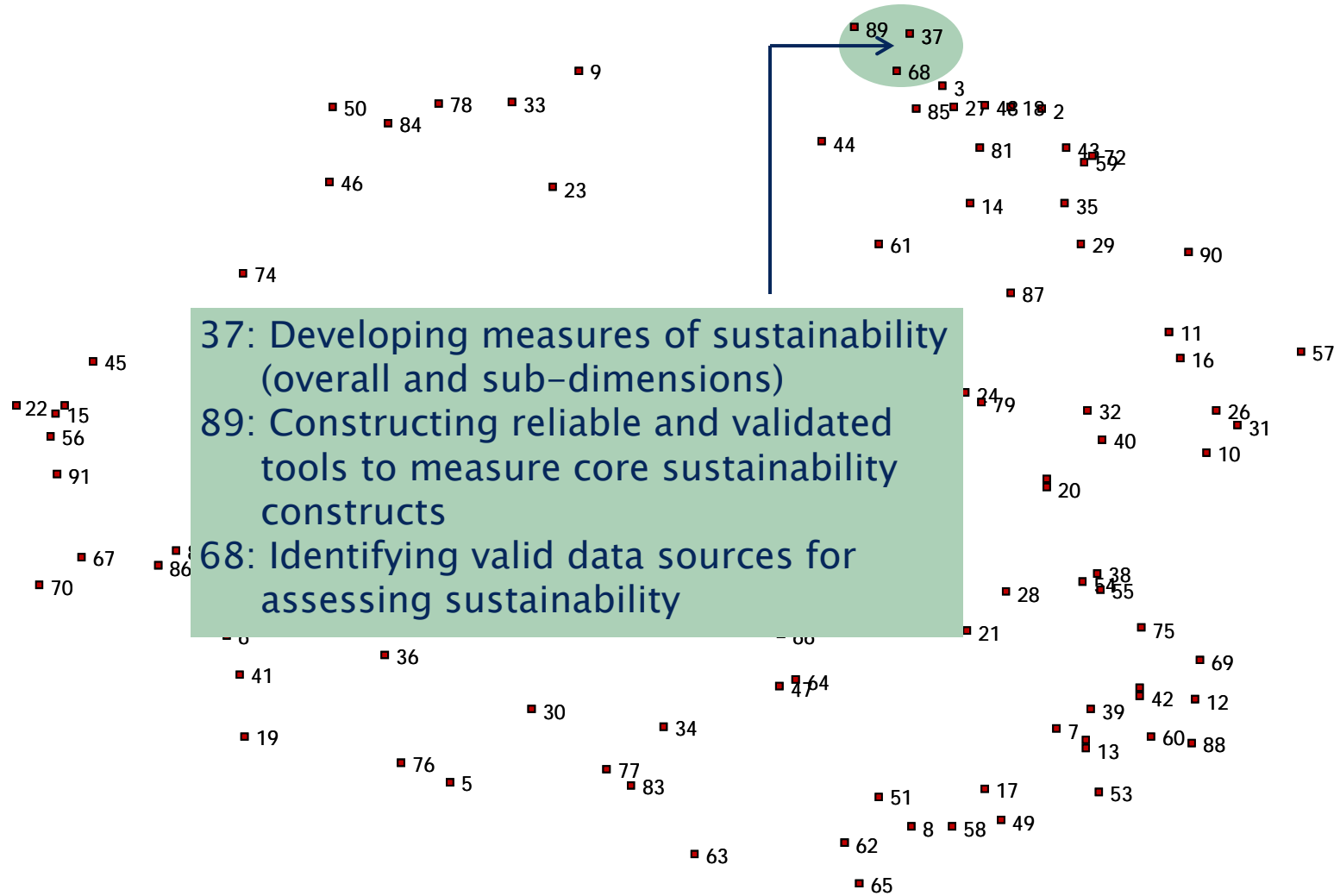
Point Map: This map shows all the statements in relation to one another.



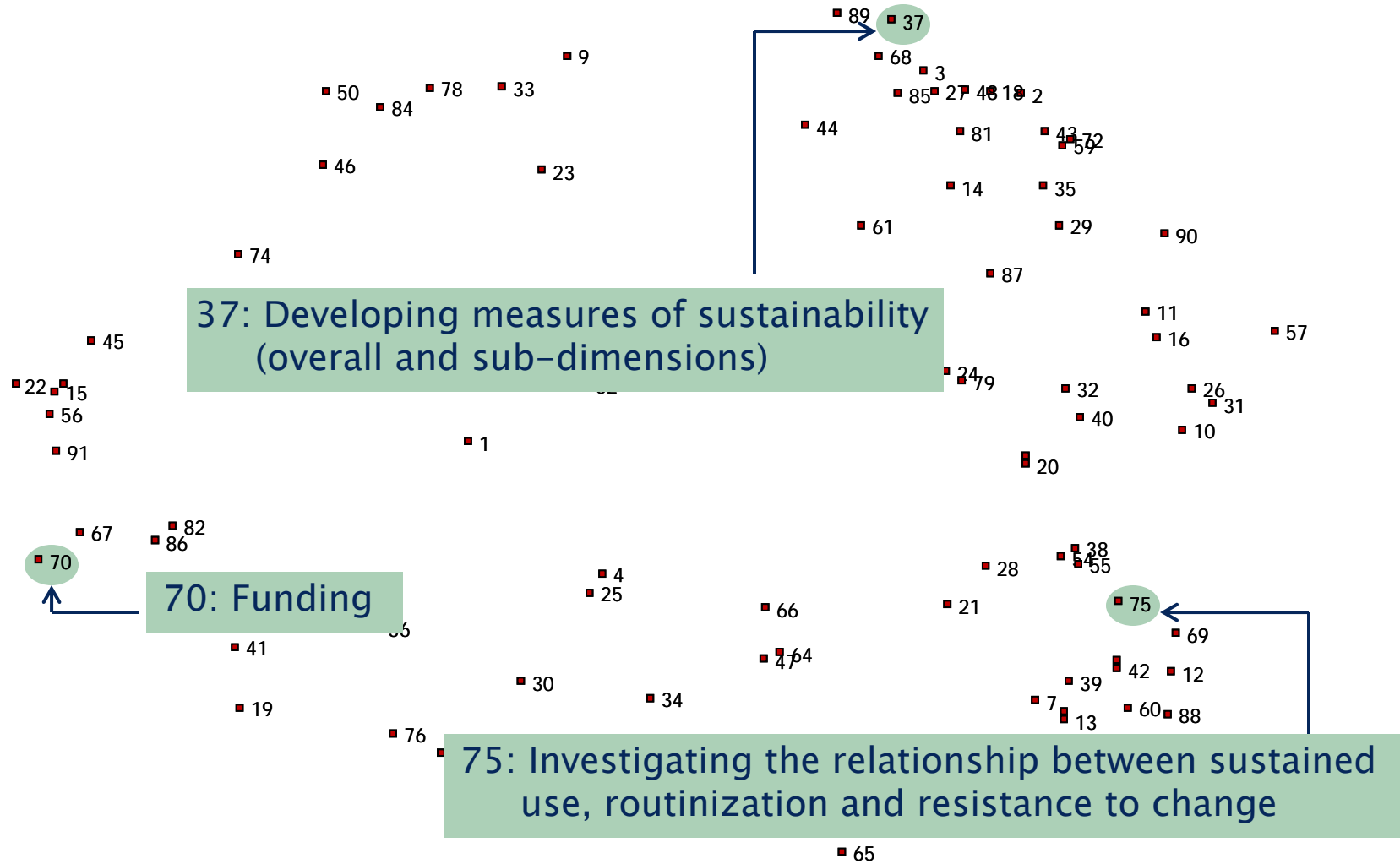
Each point represents one of the brainstormed ideas.



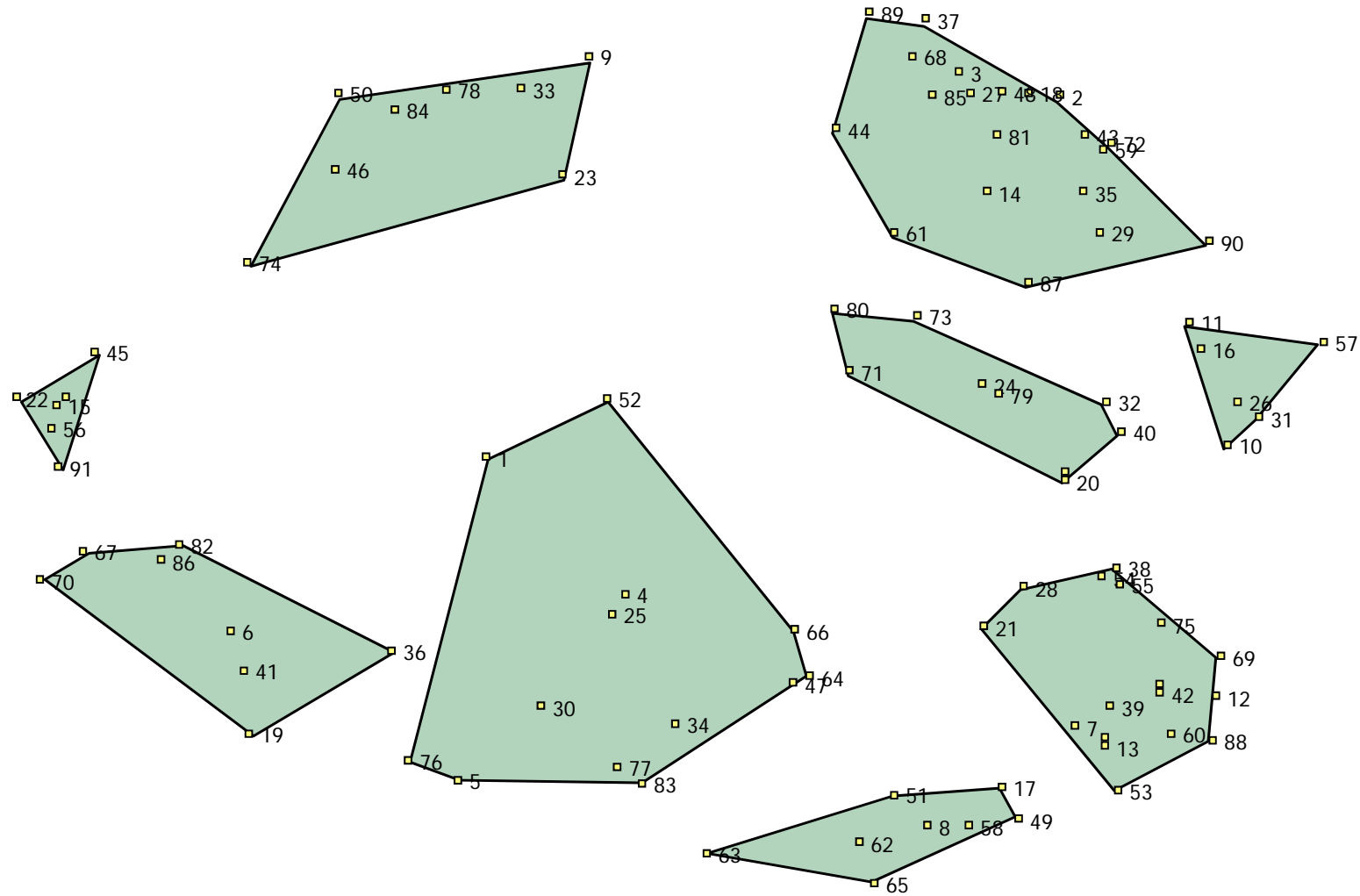
Conceptually similar ideas are in close proximity.



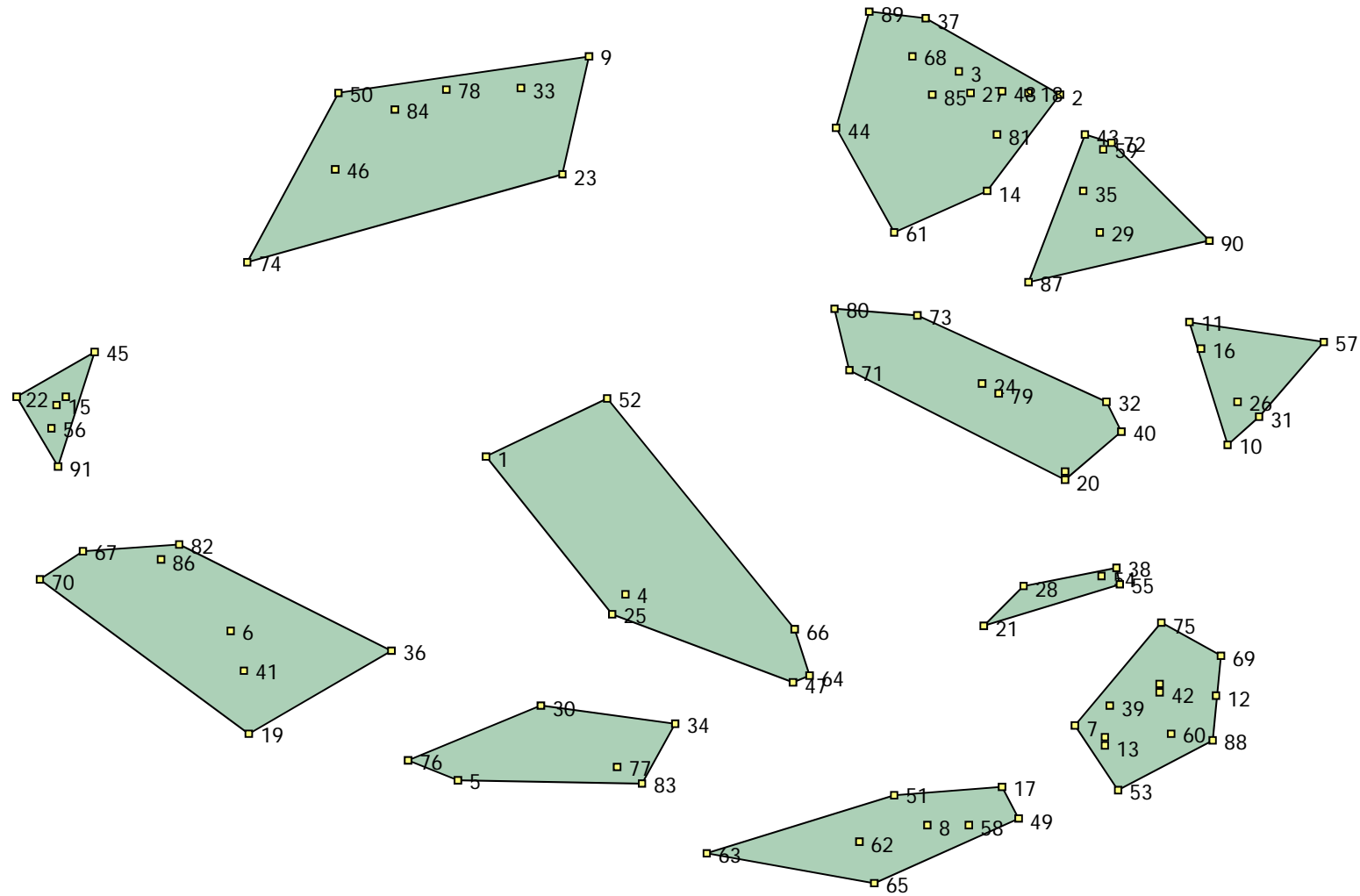
Conceptually different ideas are further apart.



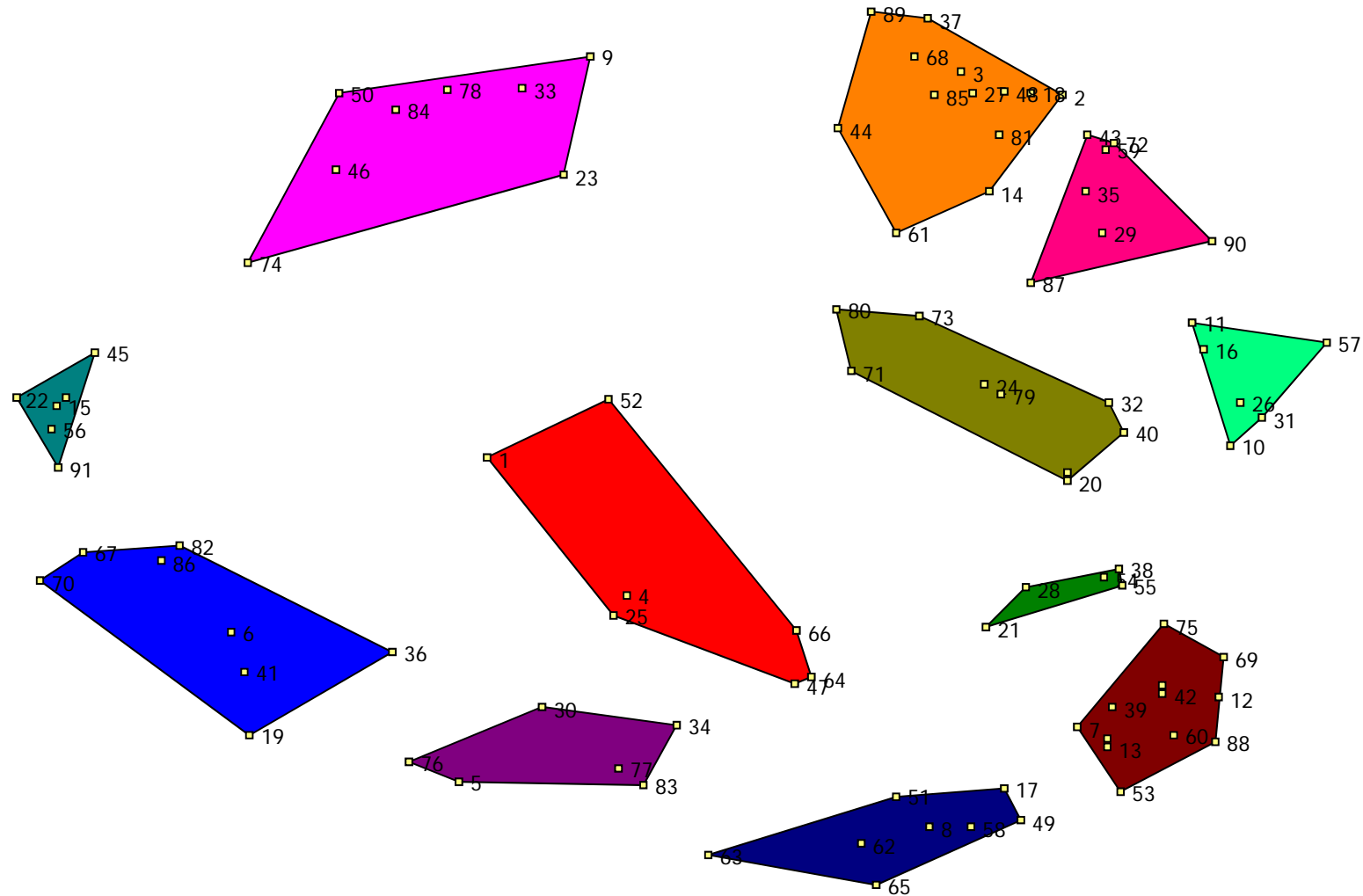
Cluster Map: The ideas are organized into 9 groups...



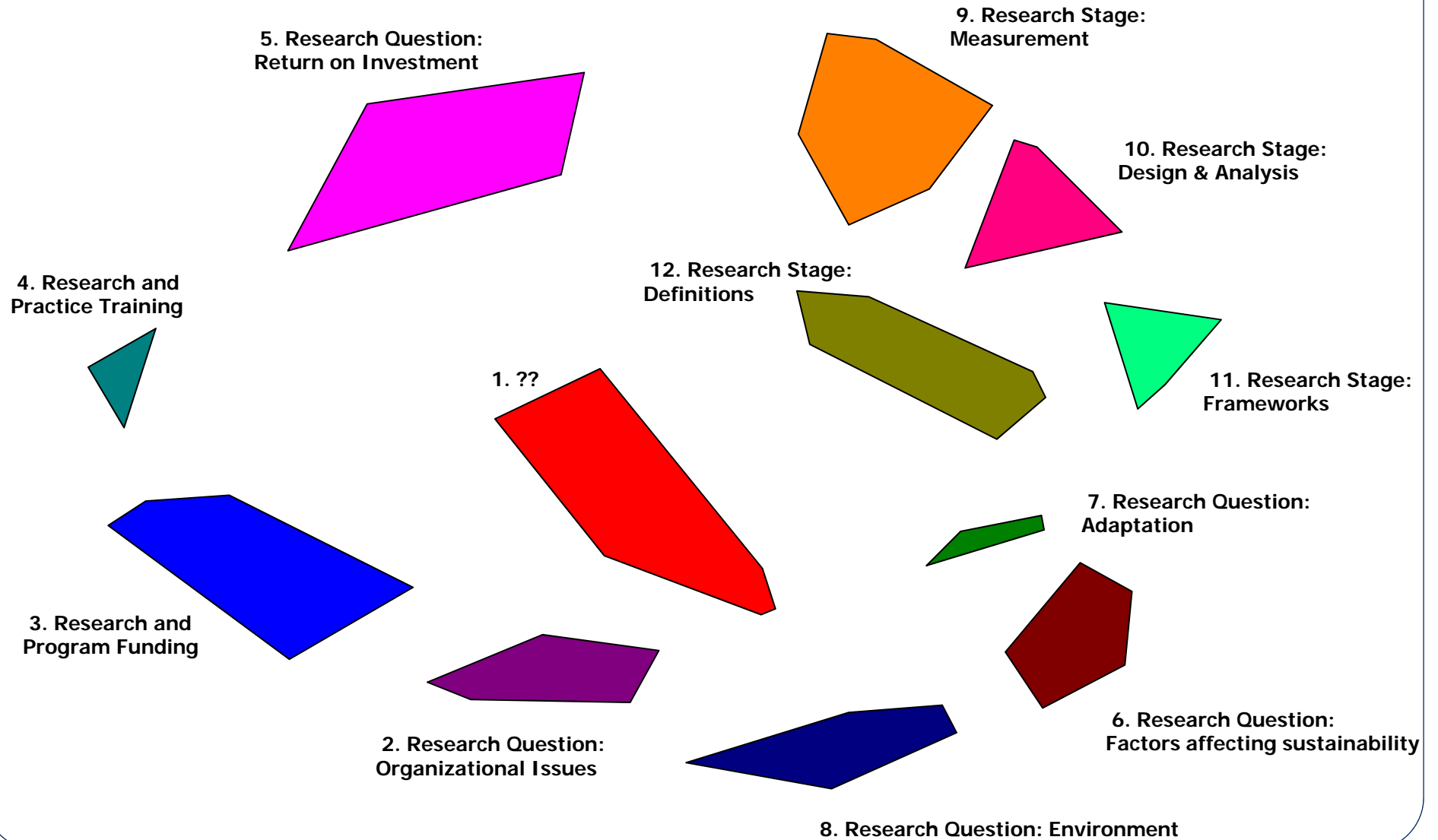
Cluster Map: The ideas are organized into 12 groups...



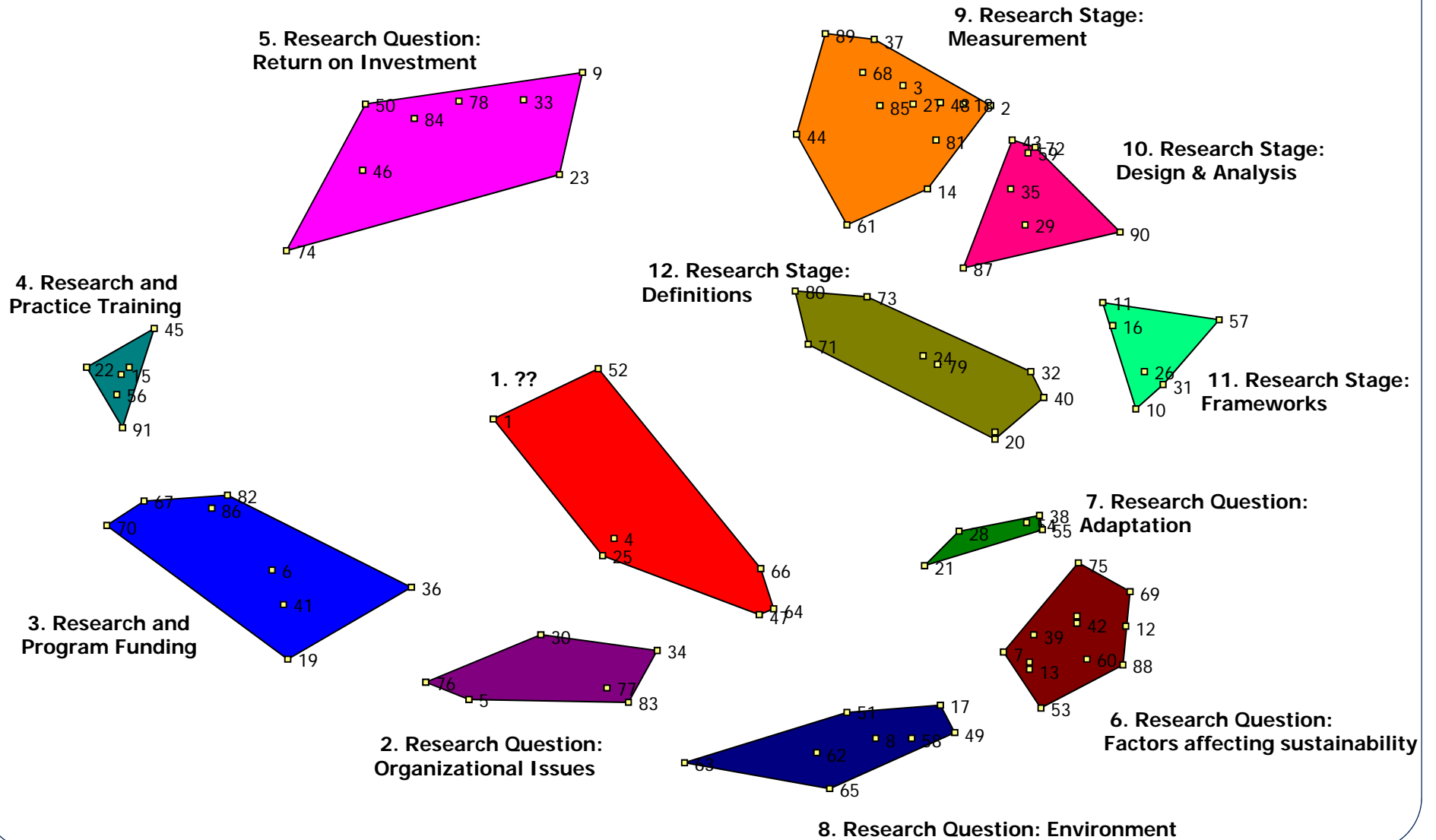
Cluster Map: The ideas are organized into 12 groups...



Clusters are given labels

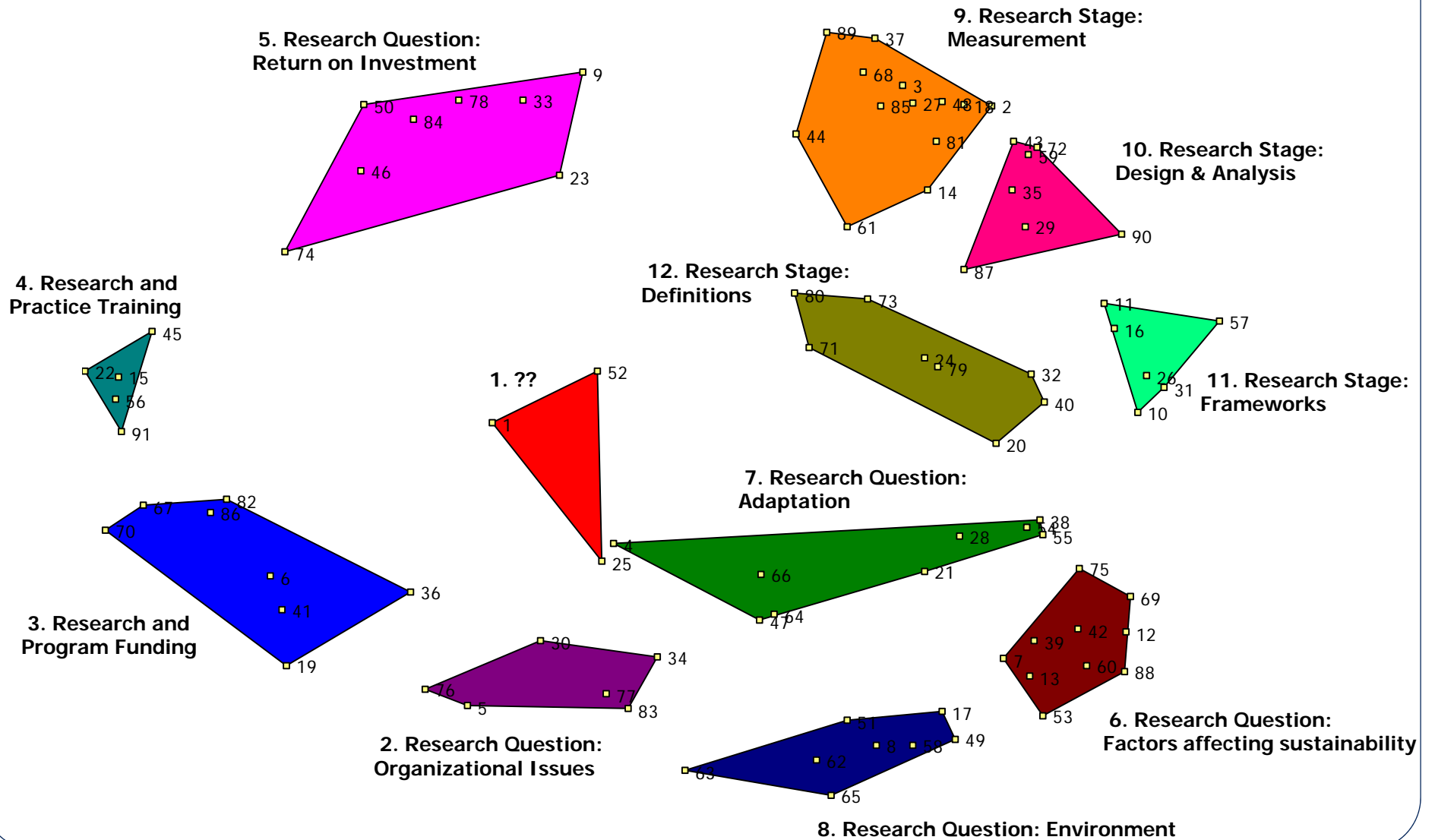


Problematic Cluster

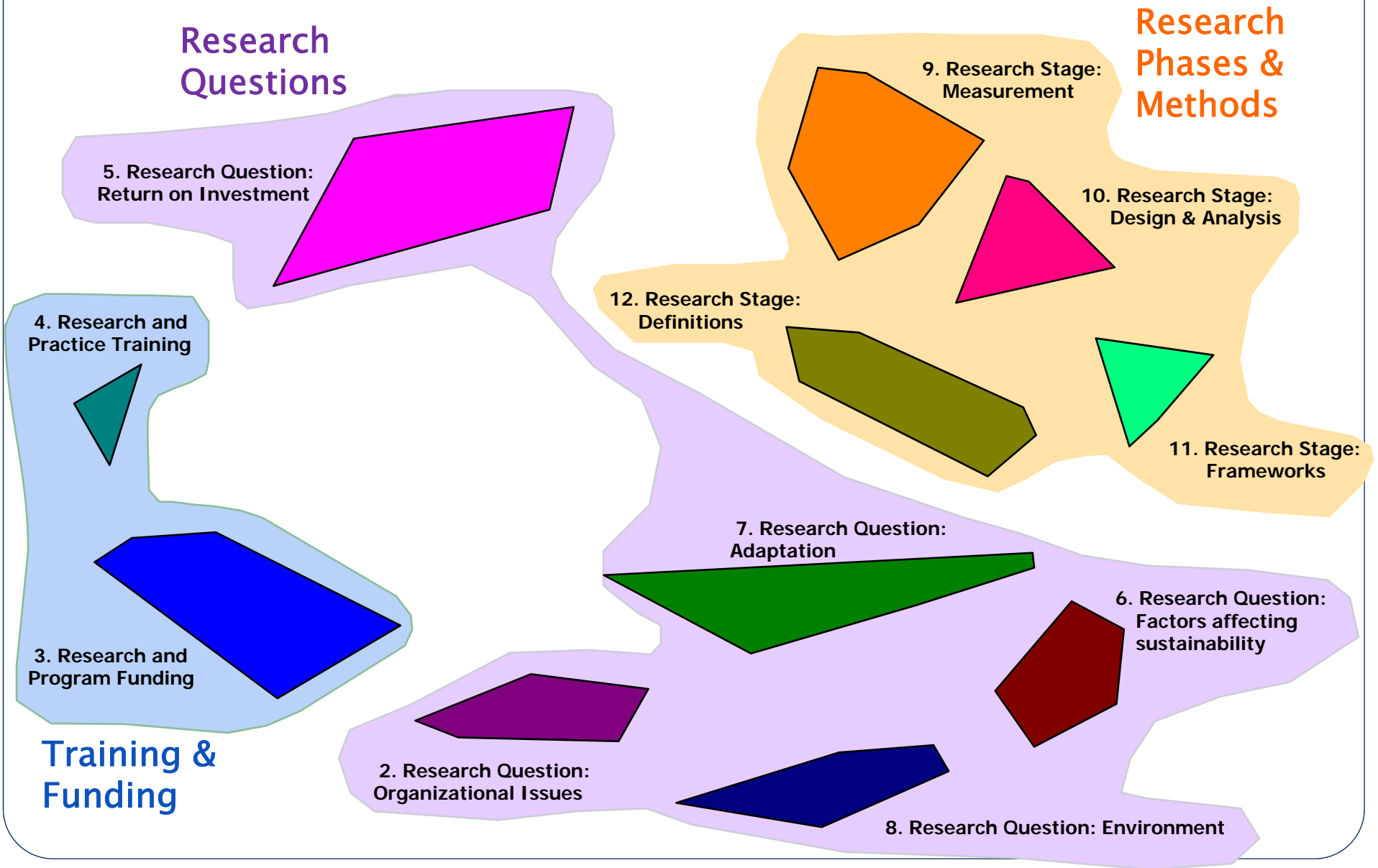


Revised 12 Cluster Point Map

move ideas 4, 64, 47, 66



Clusters by Theme

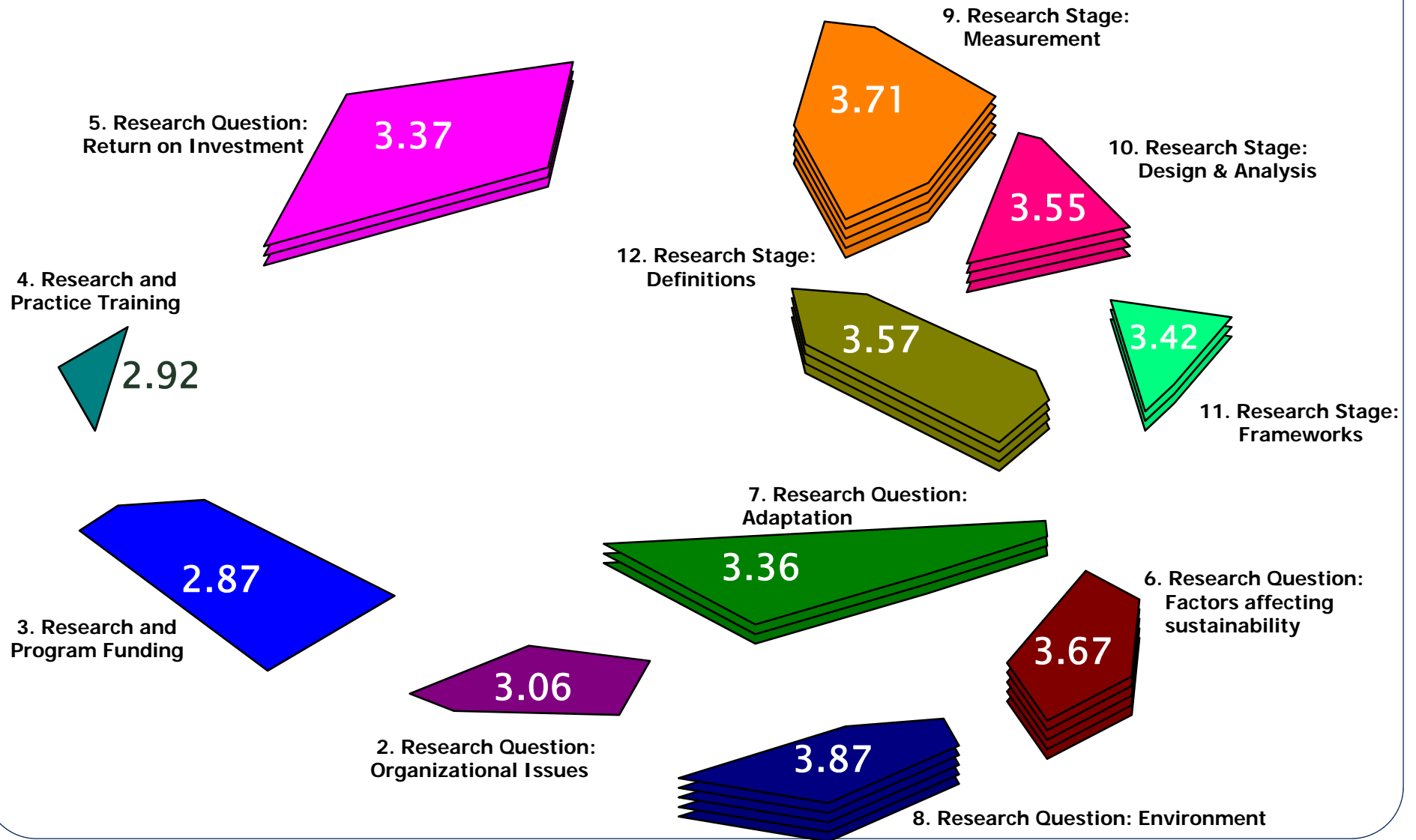




Comparative Ratings

- How *important* do you think this statement is for advancing a program of research on sustainability
- How much of a *challenge* is this statement for the field
- 1 = Not 5 = Extremely

Cluster Rating Map: Importance



High Importance

3.95

RQ: Environment (3.87)

RS: Measurement (3.71)

RQ: Factors affecting sustain (3.67)

RS: Definitions (3.57)

RS: Design & Analysis (3.55)

RS: Frameworks (3.42)

RQ – ROI (3.37)

RQ: Adaptation (3.36)

RQ: Organizational Issues (3.06)

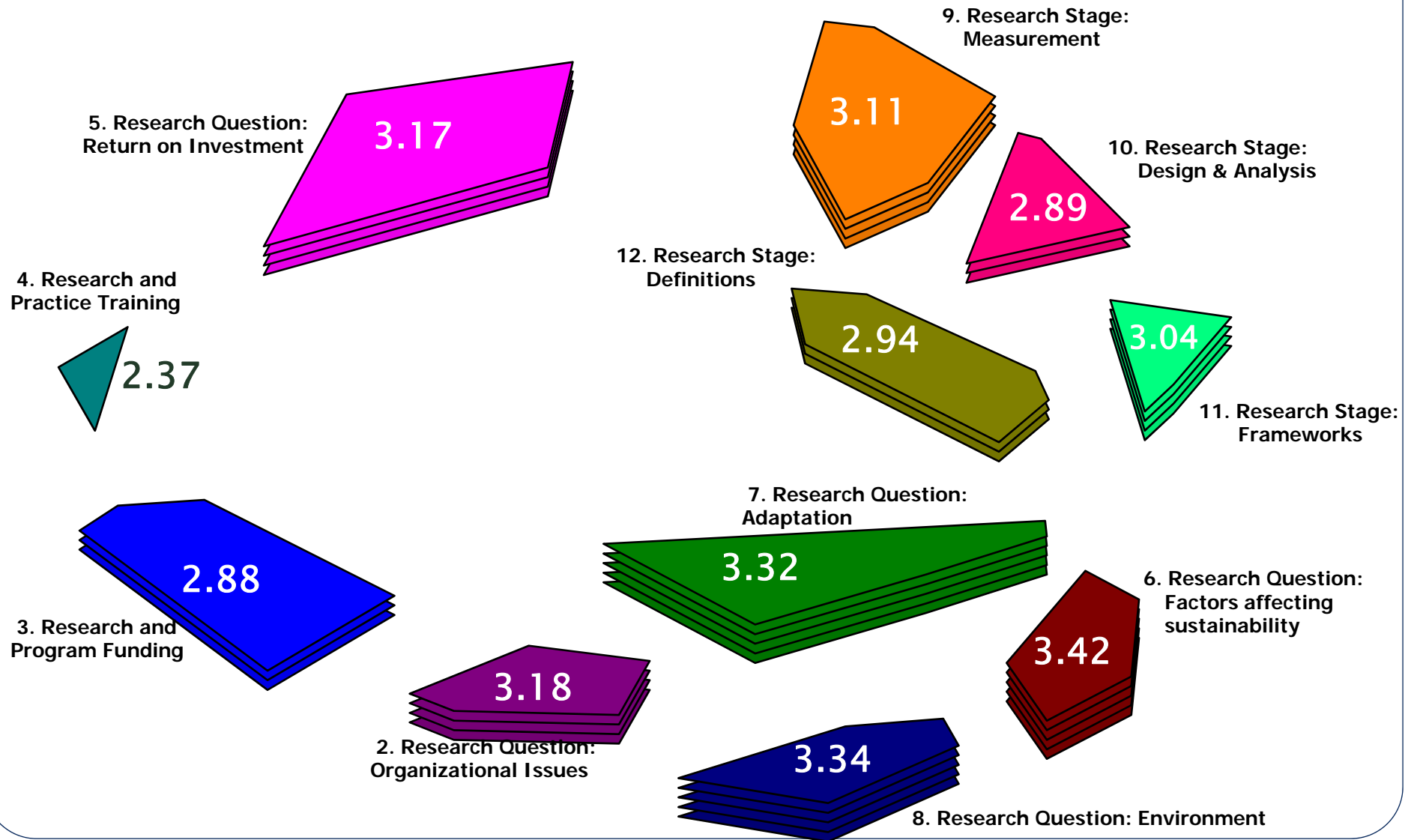
Research Practice & Training (2.92)

Research & Program Funding (2.87)

2.75

Low Importance

Cluster Rating Map: Challenge



High Challenge

3.5

RQ: Factors affecting sustain (3.42)

RQ: Environment (3.34)

RQ: Adaptation (3.32)

RQ: Organizational Issues (3.18)

RQ – ROI (3.17)

RS: Measurement (3.11)

RS: Frameworks (3.04)

RS: Definitions (2.94)

RS: Design & Analysis (2.89)

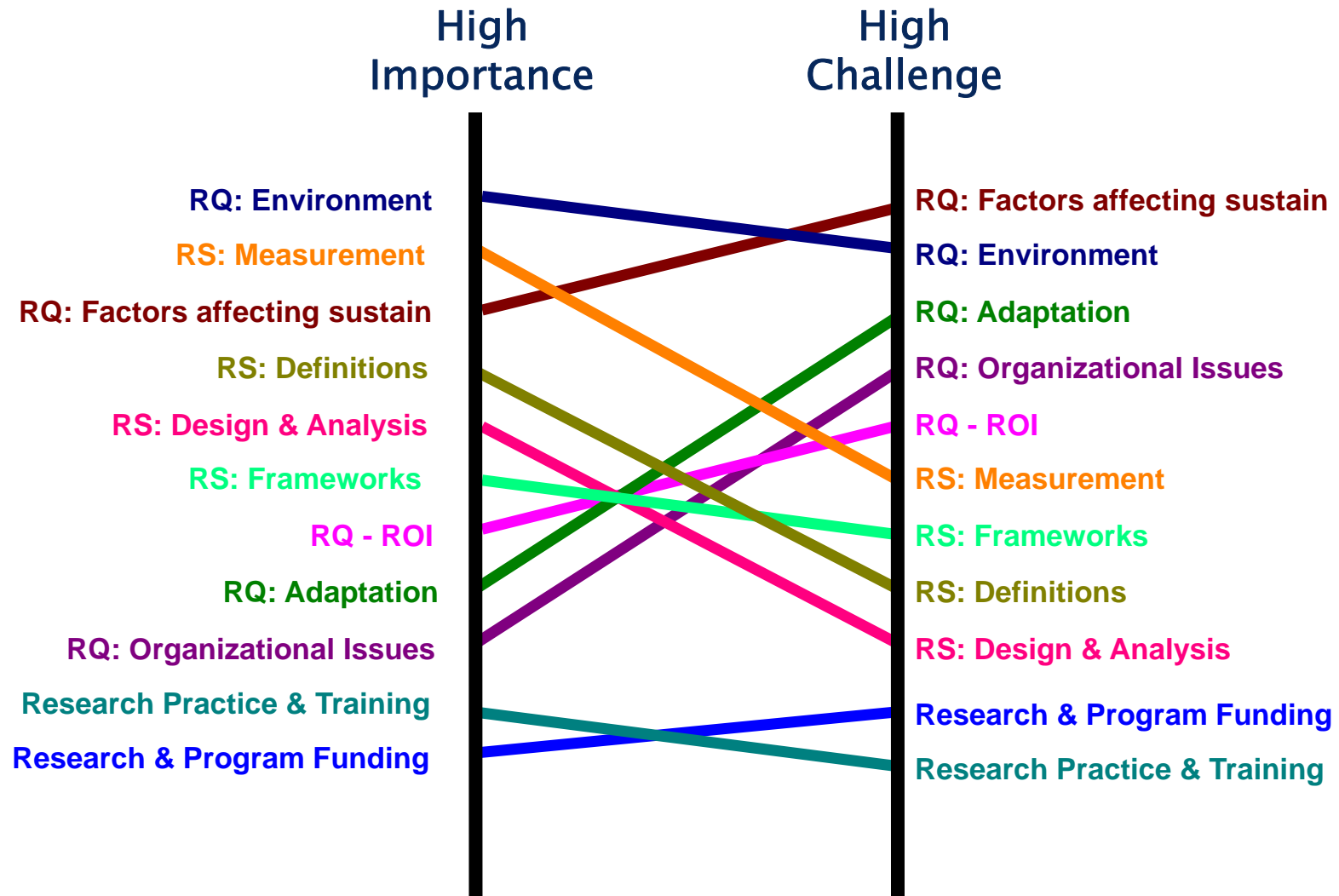
Research & Program Funding (2.88)

Research Practice & Training (2.37)

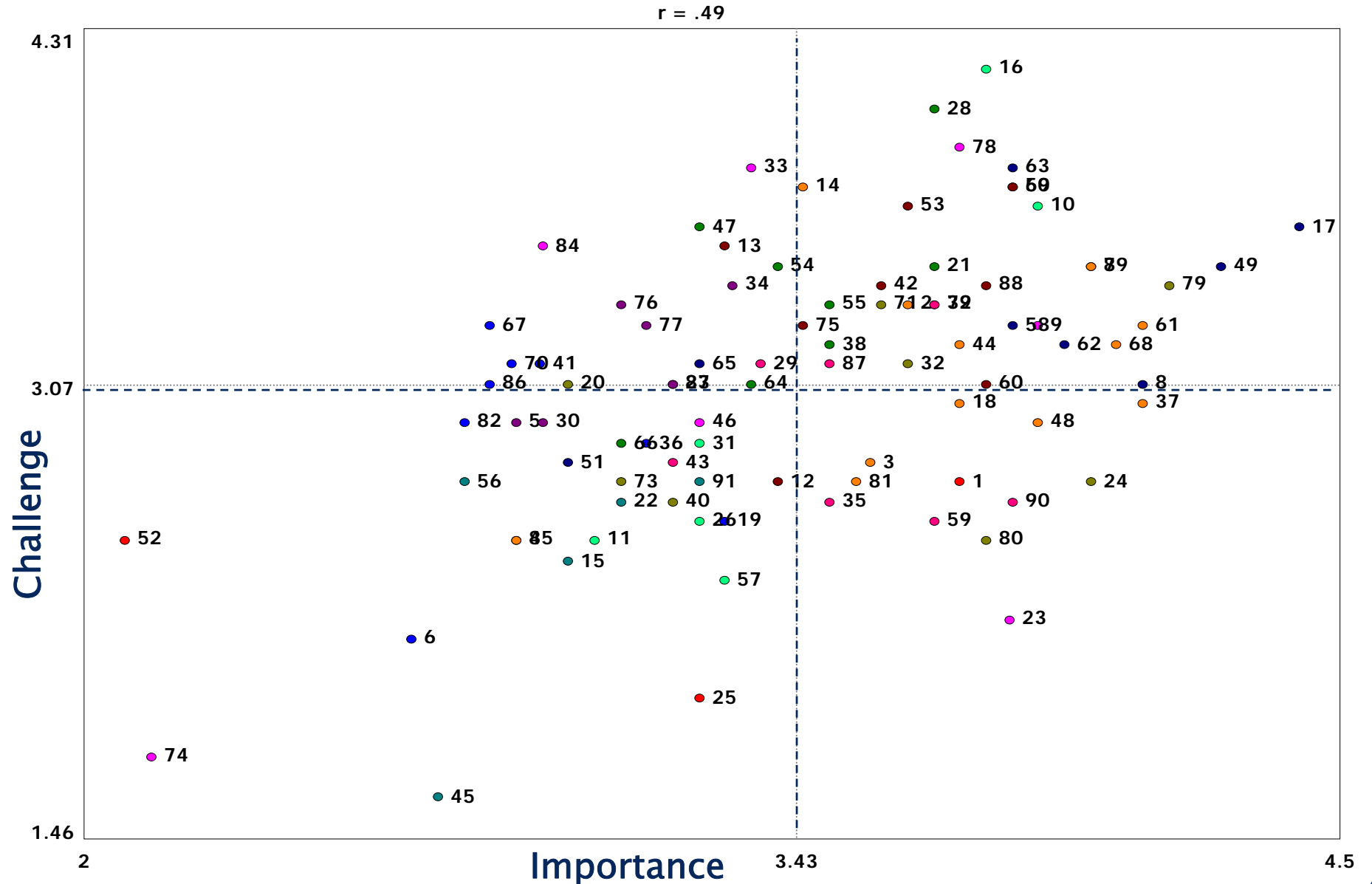
2.15

Low Challenge

Comparing Importance & Challenge

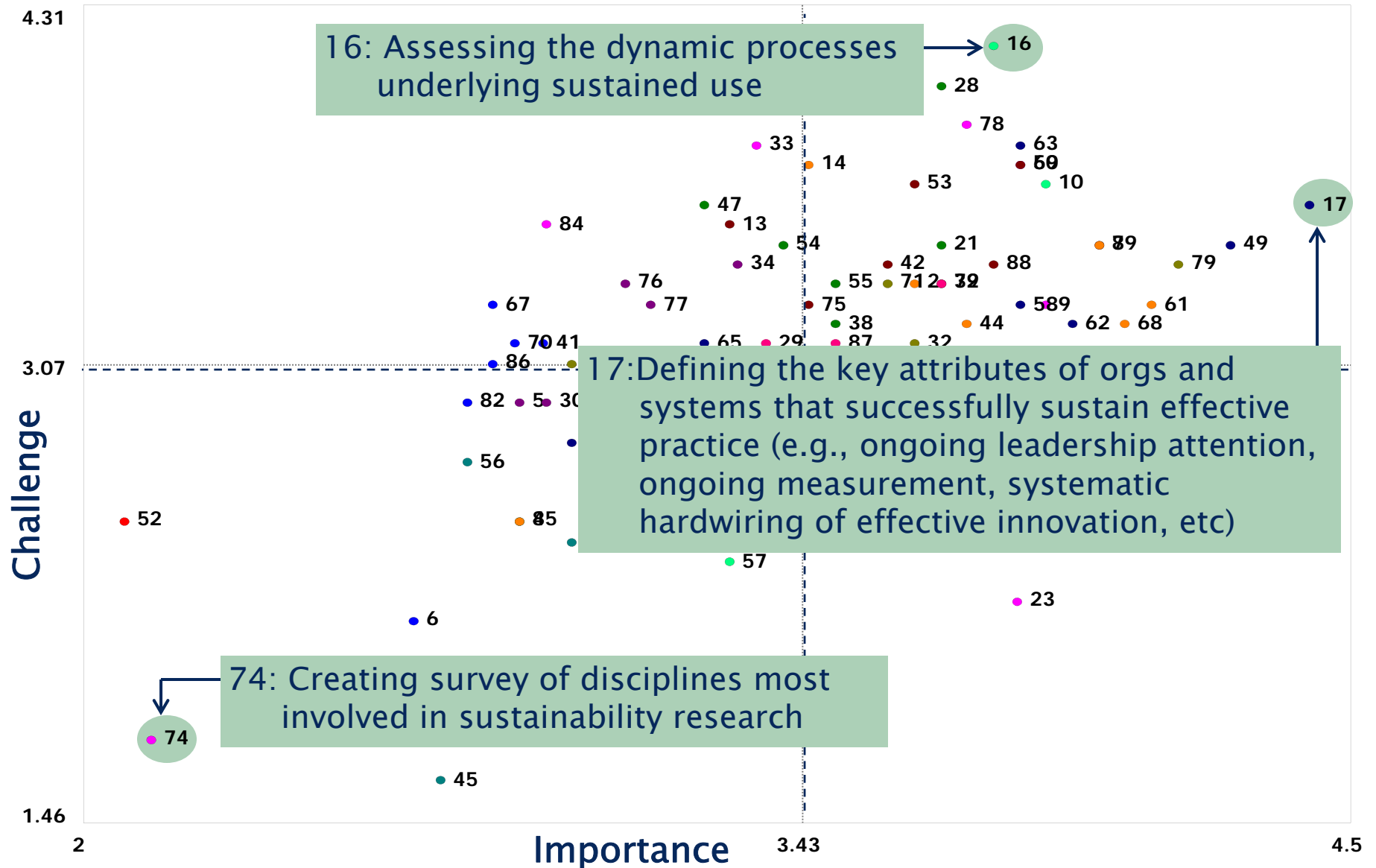


Go Zone, points by cluster color



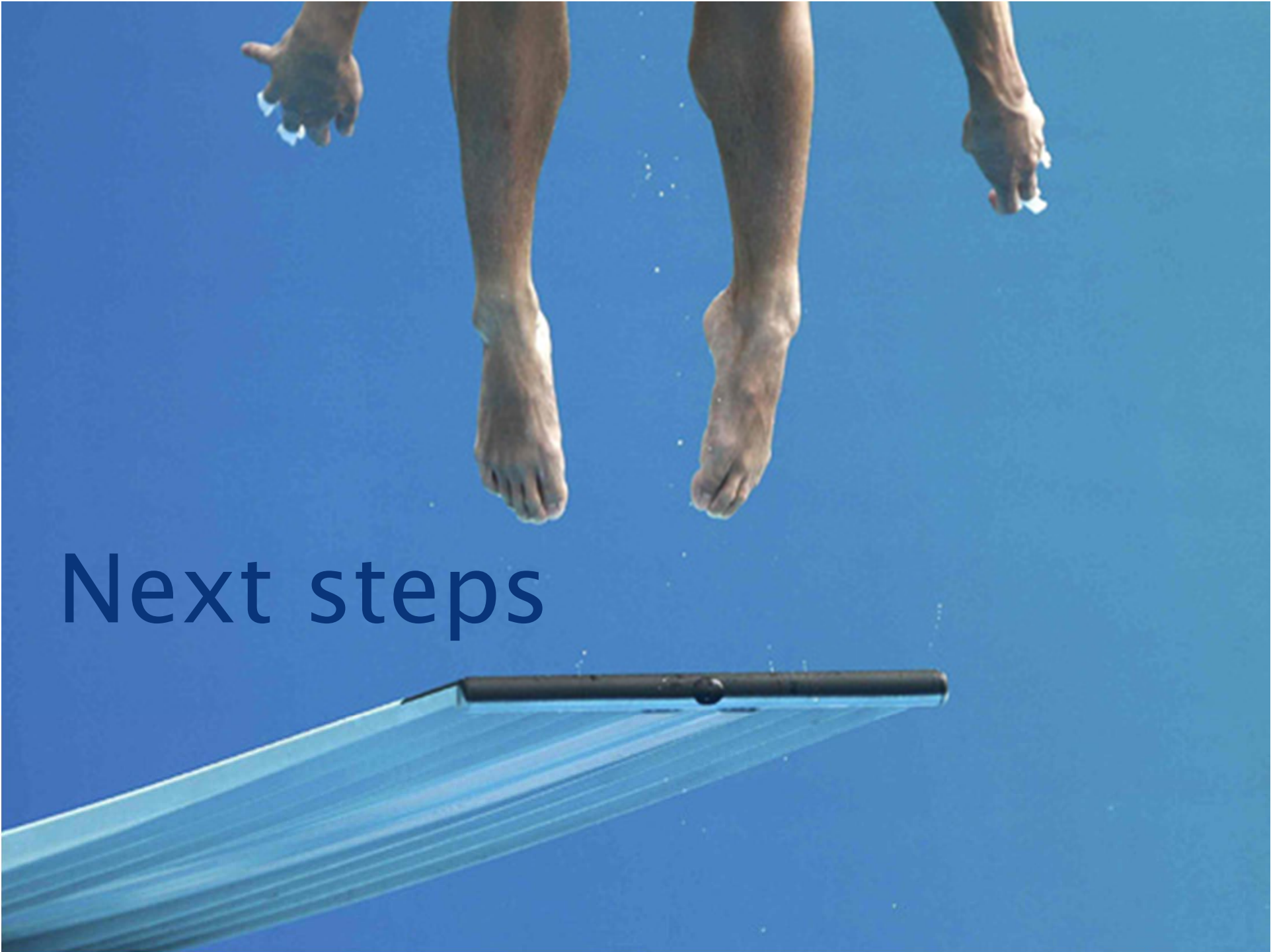
Go Zone, points by cluster color

$r = .49$





Questions

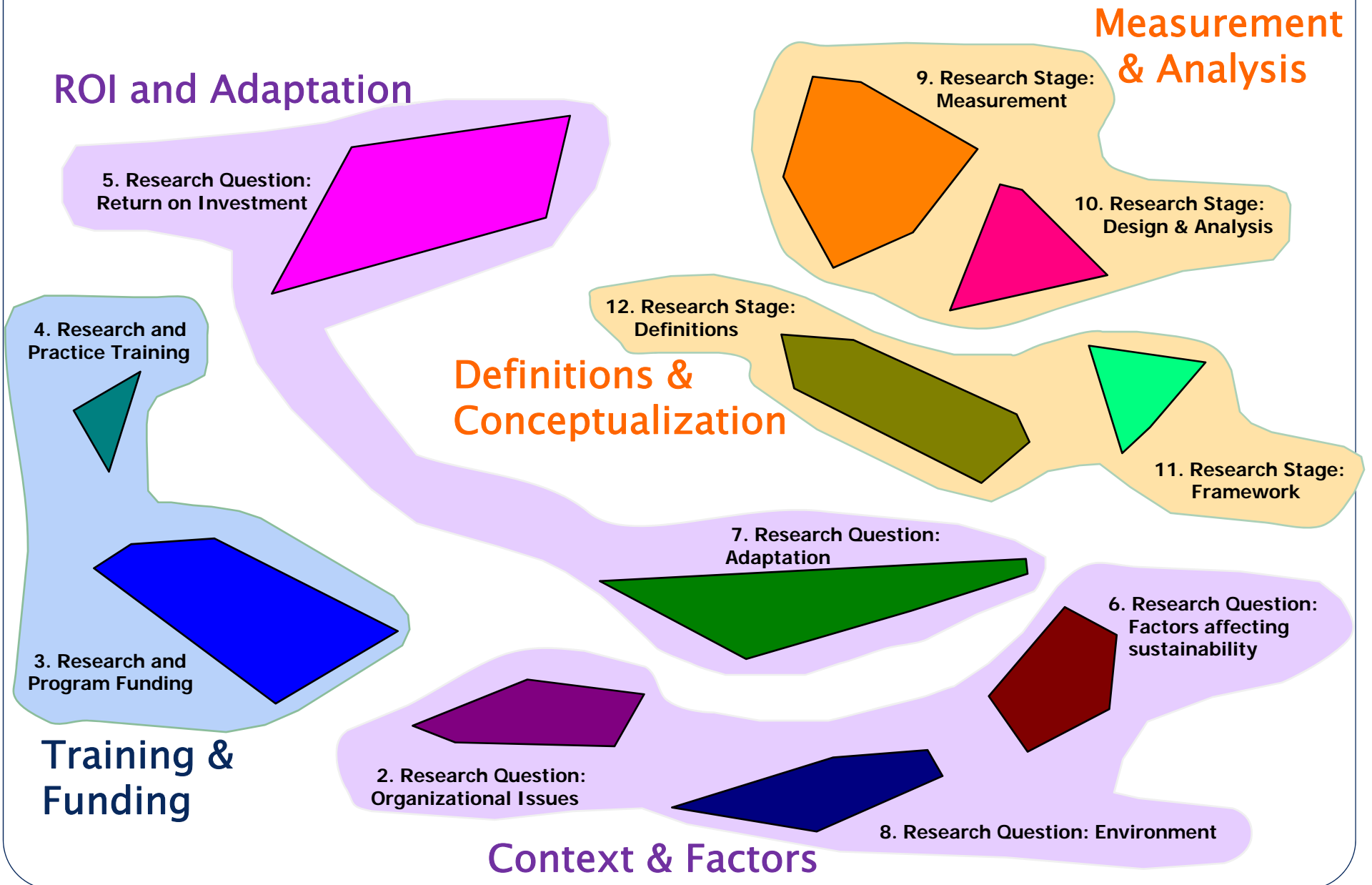


Next steps

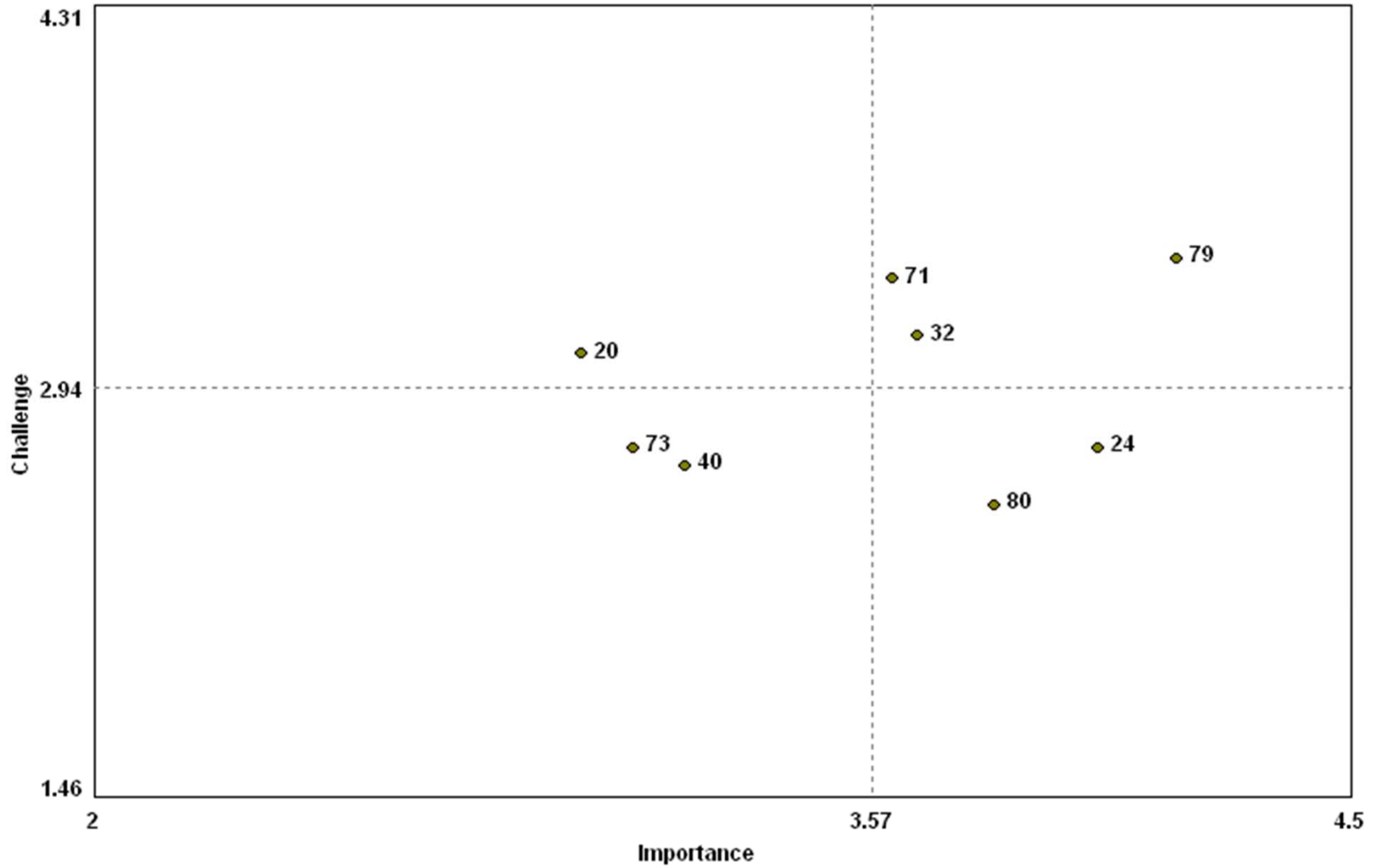
A high-angle photograph of a multi-lane highway. The road is paved and features several lanes with white dashed lane markings and white directional arrows. A solid yellow line runs along the left edge of the road. Several cars are visible on the road, including a red car in the left lane and a white car in the middle lane. On the right side of the road, there is a concrete barrier and a signpost with a sign. The background shows some greenery and a clear sky.

Setting the Agenda

Working Group Themes



Research Stage: Definitions





Working Group Questions

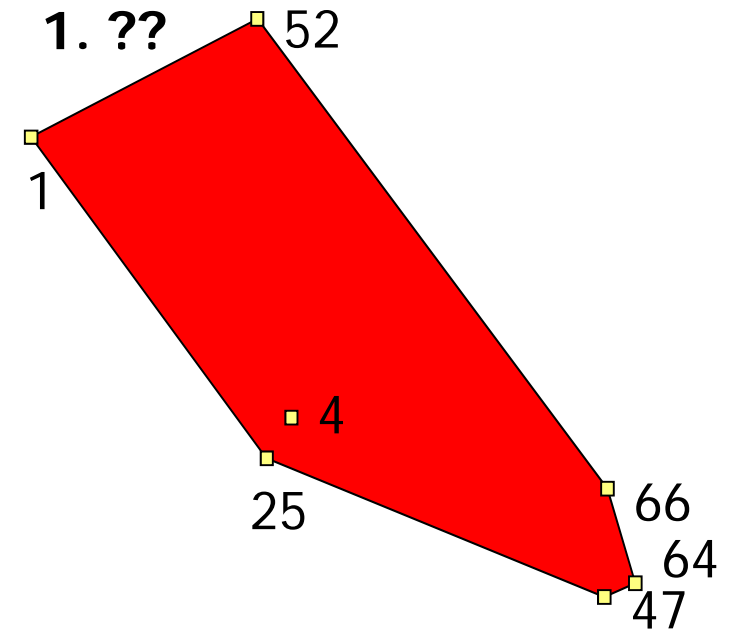
- Is there an important idea/statement missing?
- Would you change any of the importance or challenge ratings?
- What are the top priority issues?



Questions

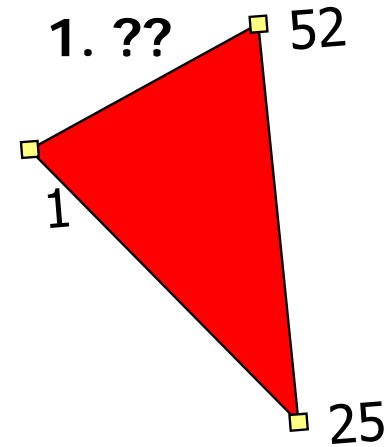
Modifications

- 1: Building an arsenal of lessons learned about sustainability from on-the-ground projects.
- 52: Proposing philosophical statements making explicit the worldview supporting a program of research on sustainability
- 25: Defining the program, evidence-based treatment, or intervention to be sustained
- 4: Framing sustainability as a partnership in which participants continue to adapt an intervention in response to changing conditions, while trying to remain true to its core principles
- 66: Considering how the evidence-based program may change over time
- 47: Determining the core vs. peripheral or adaptable components of interventions
- 64: Understanding the tension between fidelity and adaptation as it pertains to sustained use or feasibility of continued use

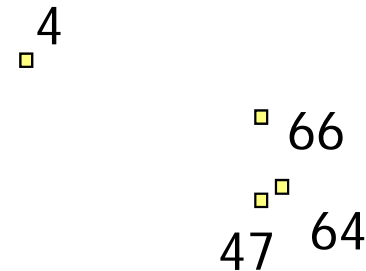


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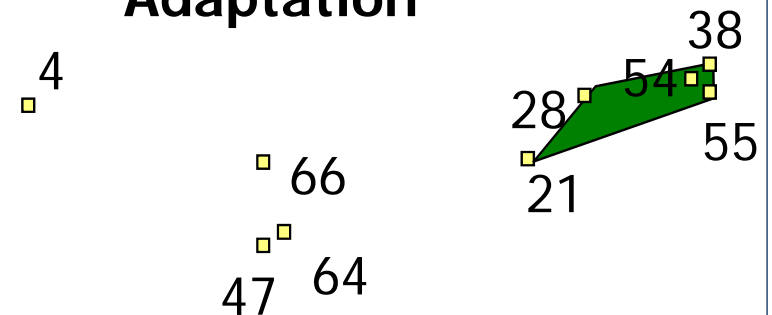


Modifications

- 21: Documenting adaptations and their impact on the effectiveness of evidence-based practices
- 55: Figuring out how to characterize adaptations
- 54: Determining the point at which the intervention or program can no longer be considered sustained because of extensive adaptations
- 38: Understanding the implications of 'partial' sustainability and adaptations
- 28: identifying interventions that effective and cost-effective in fostering sustainability

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7. Research Question: Adaptation



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