LEVERAGING COGNITIVE DIVERSITY FOR HEALTHCARE LEADERSHIP

Health Systems Science Leadership Cohort January 9, 2023

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IN THE
CONTEXT OF
WORK, WHAT
TYPES OF
TEAMS ARE
YOU ON?



- Clinical Practice
 - Research
- Specialty-Specific
- Licensure/Position
 - Administrative
 - OTHERS...
- MORE THAN ONE?



LEARNING OBJECTIVES

- Discuss Adaption-Innovation Theory as it relates to cognitive problem solving preference.
- Differentiate between cognitive effect and affect, and style and level/capacity.
- Compare adaptive and innovative preferences of individuals relative to task and team.
- Define cognitive gap and aspects for coping and bridging across gaps.
- Examine implications for leadership and management of cognitive diversity in health systems.

LEADERSHIP Food for Thought

VISION COMMUNICATION Clarity around accurate and Desired, ideal, or expected outcomes pending barriers. appropriate identification and

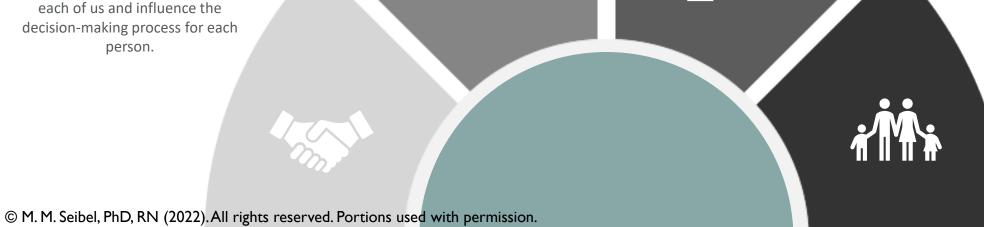
VALUES

Provide the motivating factors for each of us and influence the decision-making process for each person.

TRUST

agreement upon the problem.

Cognitive differences are valued with an acknowledgment of perceived challenges



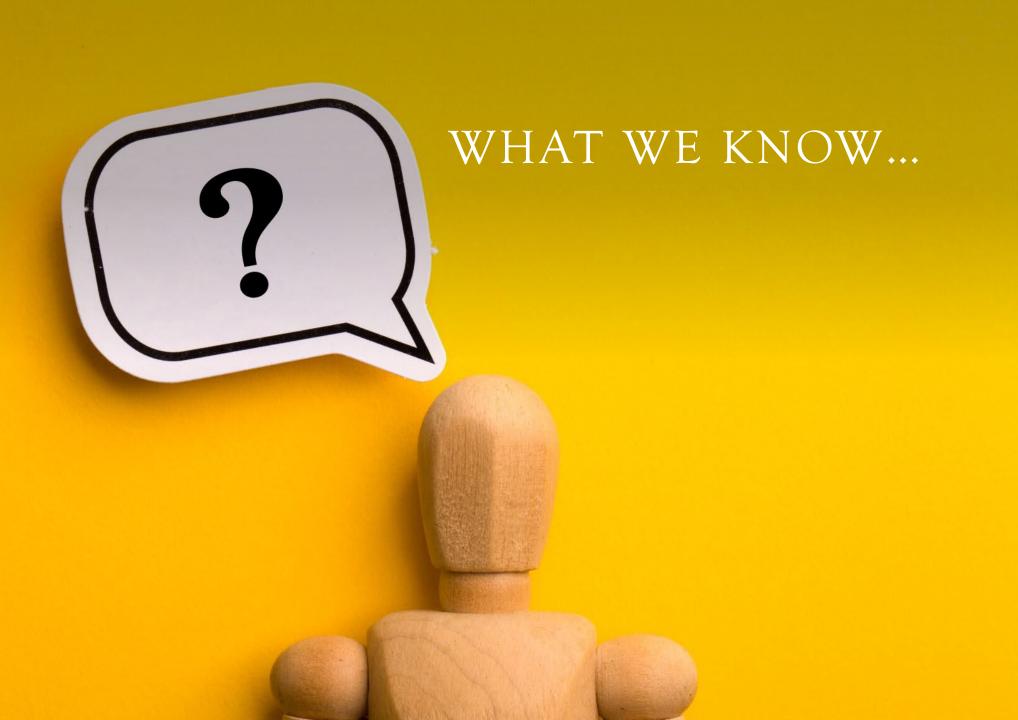
INSTITUTIONAL CORE VALUES

- Collaboration
- Courage
- Commitment
- Compassion
- Curiosity

- Collaboration and Excellence
- Innovation and Discovery
- Diversity, Equity, and Inclusion
- Humanism and Compassion







AS HUMAN BEINGS...



- All people are creative
- All people solve problems

We just do so DIFFERENTLY

ALL PEOPLE ARE CREATIVE

Style
In what way?

How am I creative?

In what manner do I prefer solving problems?



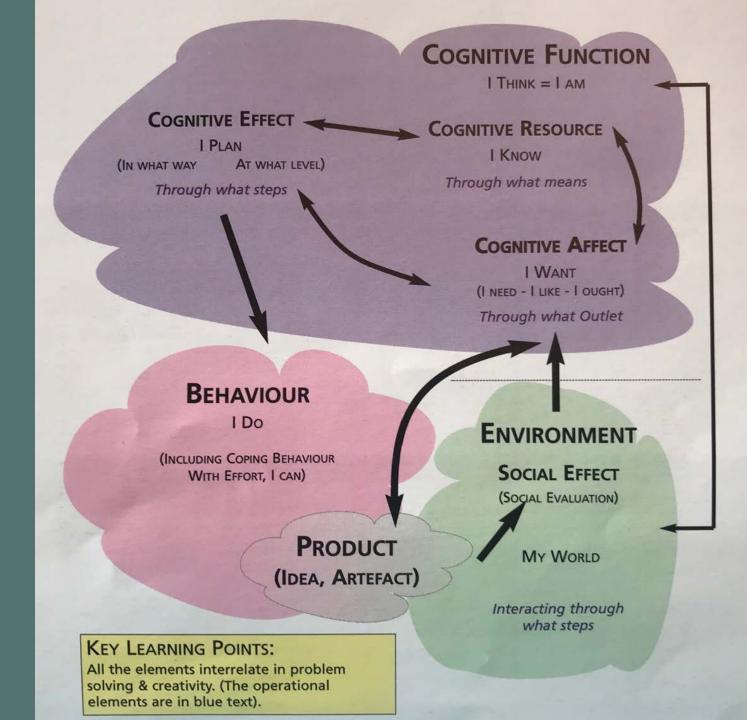
Level

How much?

How creative am I?

How good am I at solving problems?

COGNITIVE FUNCTION SCHEMA





(and it is dependent on our perception of it!)

Ambiguity is a fear amplifier, and COVID has laid bare the public's discomfort. Clinicians and scientists, however, accept ambiguity as part of the scientific process. Whereas clinicians and scientists practice with an acceptable risk, the public may desire a more definitive stance. (Aug 20, 2021) www.Medscape.com

When facing loss, embrace change and don't force closure, a therapist urges. (Jan 5, 2022) npr.org

Berger, L., Berger, N., Bosetti, V., and Smith, R. (2021, Jan). Rational policymaking during a pandemic. Proceedings of the National Academy of Sciences of the United States of America, 118 (4) e2012704118.

FACTORS INFLUCENCING THE OUTCOME OF CHANGE



OPPORTUNITY

Consideration of both process and progress



MOTIVE

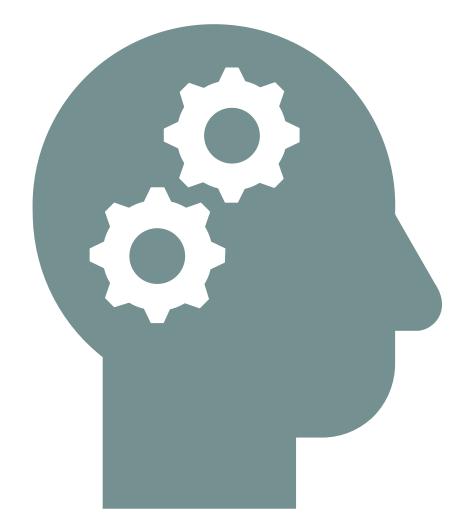
Intrinsic and Extrinsic factors driven by personal, social, and structural implications



RESOURCE

Leveraging personal style and level to achieve outcomes (learning)

STYLE MAY NOT "BE" BEHAVIOR



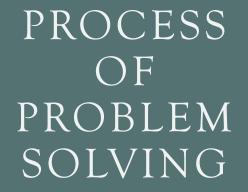
STYLE IS STABLE BEHAVIOR IS FLEXIBLE

PROBLEM SOLVING STYLE DEFINED

The way in which we generate ideas

The way in which we utilize/leverage structure to implement ideas

The way in which we respond to rules and group norms



Perception of the Problem

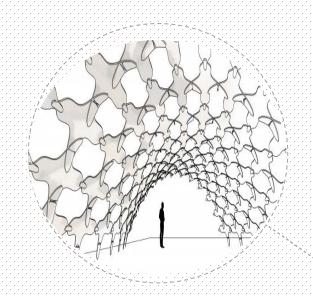
Analysis of the Problem*

Analysis of the Solution

Agreement to Change

Acceptance of Change*

Implementation



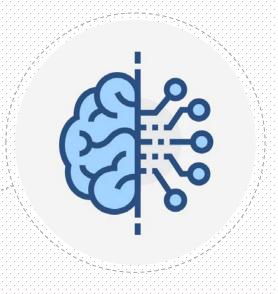
PARADOX OF STRUCTURE

All structures (e.g. rules, policies, expectations, ambiguity) are enabling and limiting.



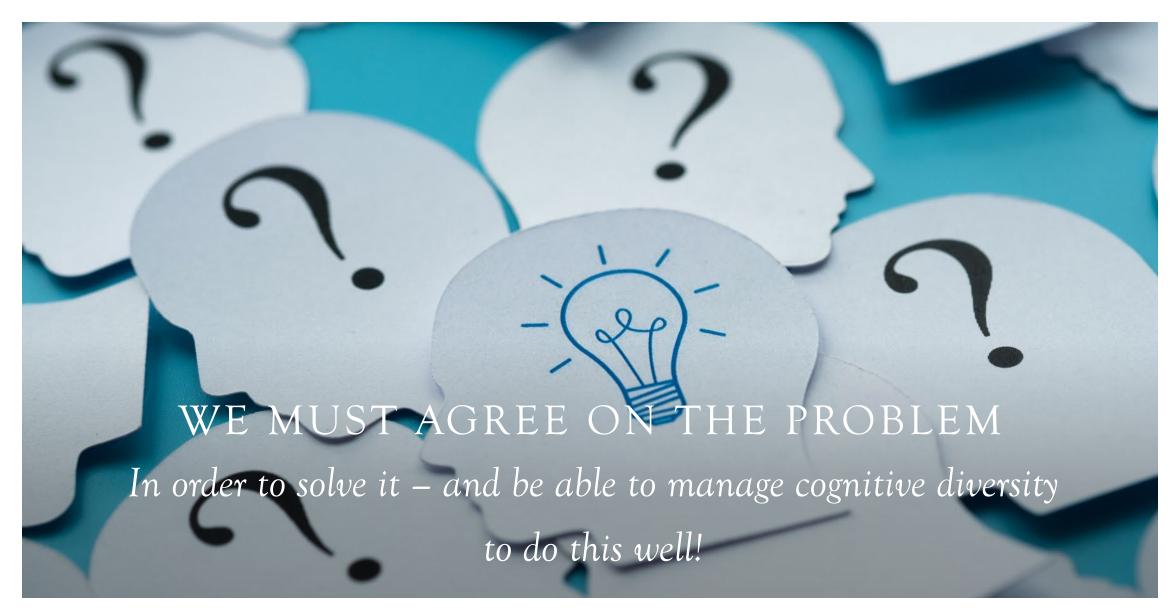
STYLE AND BEHAVIOR

Our style is stable over time, but our behavior is flexible



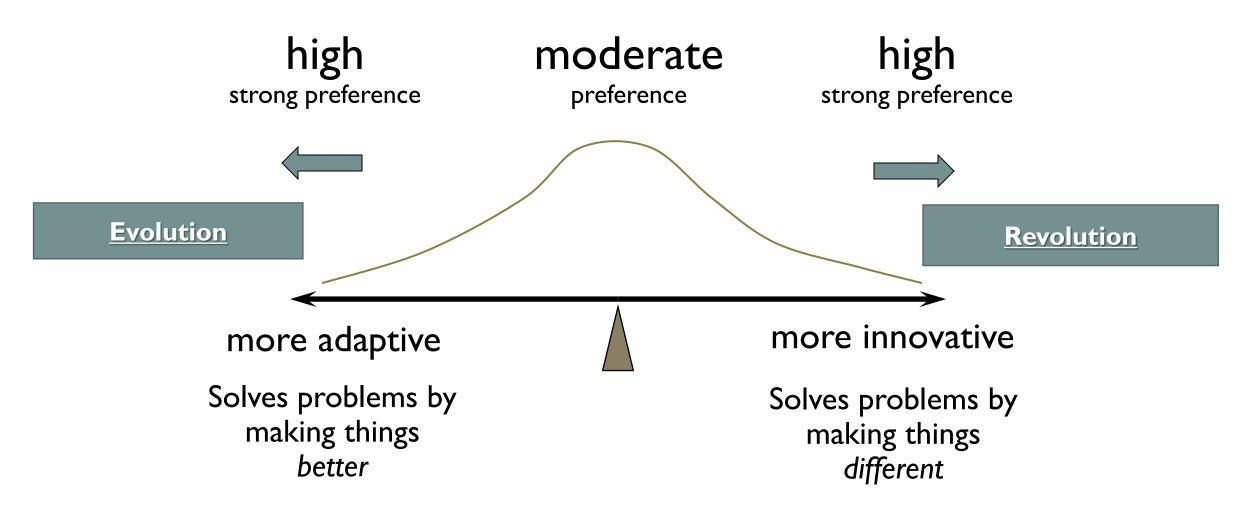
INSIGHT AND FORESIGHT

Learning influences how we perceive a problem (opportunity) and may offer insight for response and foresight for future use



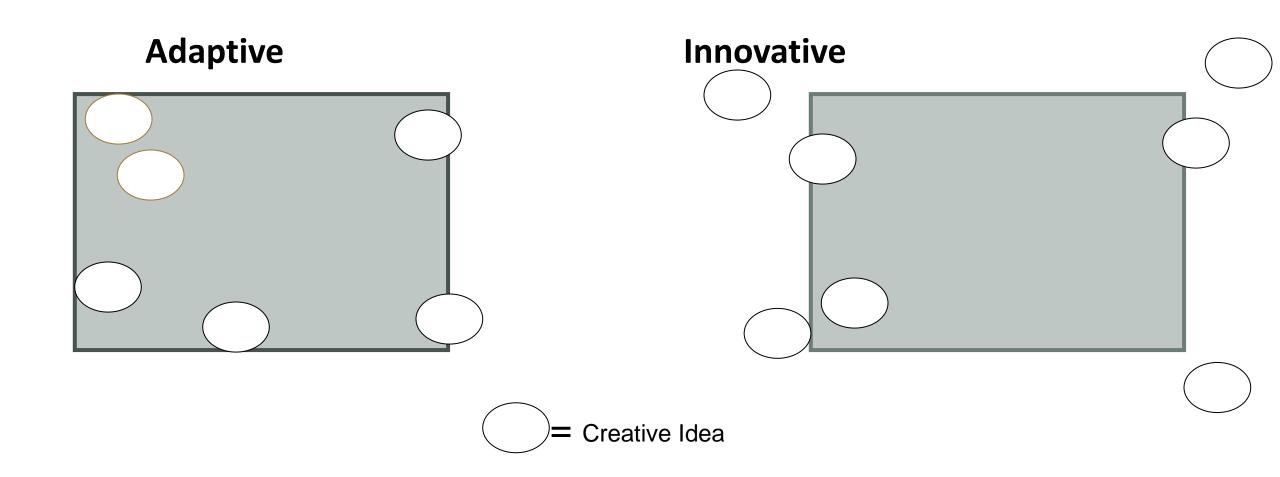
Problem A and Problem B

Adaption-Innovation continuum (KAI)



(CREATIVE) THINKING STYLE IS STABLE

We each have a **Stable** preference [style] for **how** we solve problems, make decisions and use our creativity to manage **change**.



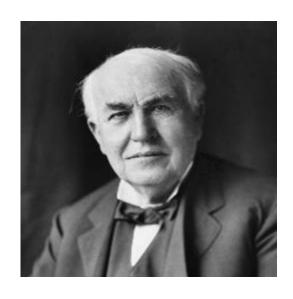
MORE ADAPTIVE CHARACTERISTICS

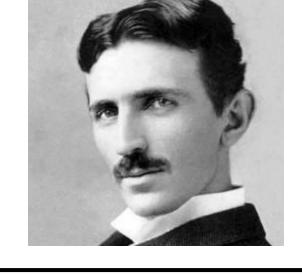
- prefer more structure
- produce targeted ideas
- expect high rate of success
- system improver change agents "better"
- precise; master details
- consistent seen as disciplined/reliable
- sensitive to people and groups
- more prudent risk takers

MORE INNOVATIVE CHARACTERISTICS

- prefer less structure
- proliferate many ideas
- tolerate higher rates of failure
- more radical change agents "different"
- shed details; seen as undisciplined/visionary
- challenge rules and assumptions
- challenge the problem definition
- more daring risk takers

An example...



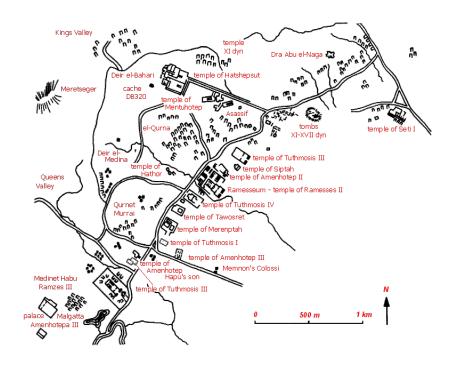


Highly Adaptive THOMAS EDISON

Highly Innovative NIKOLA TESLA



ADAPTION Howard Carter

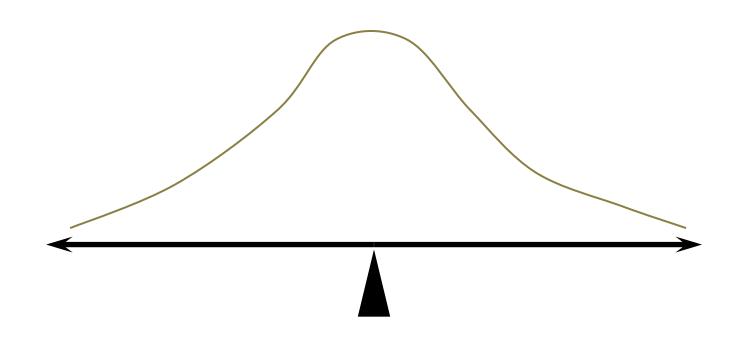


INNOVATION Dick Fosbury

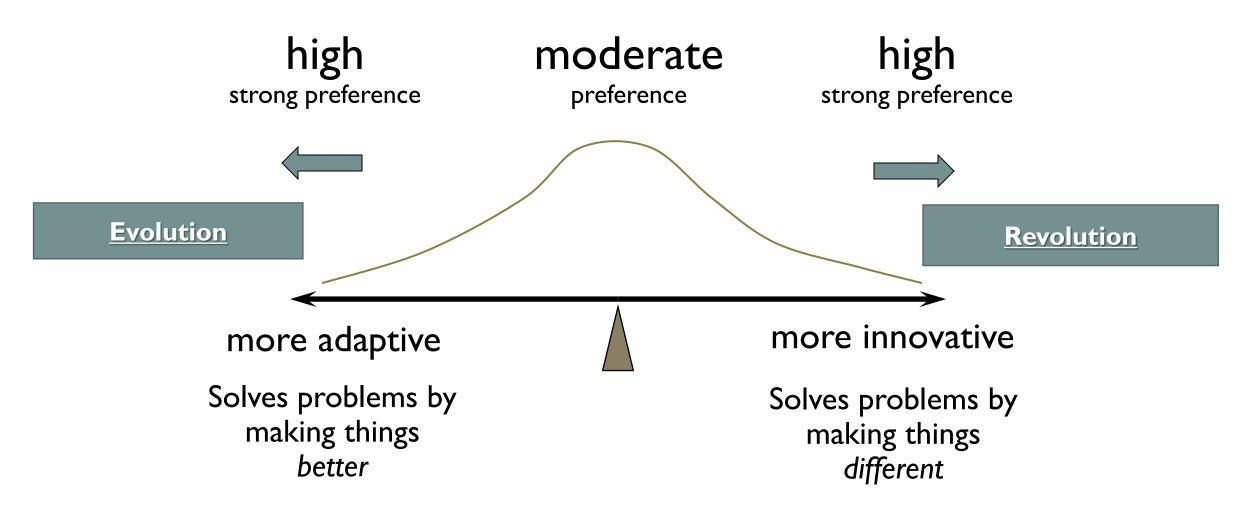




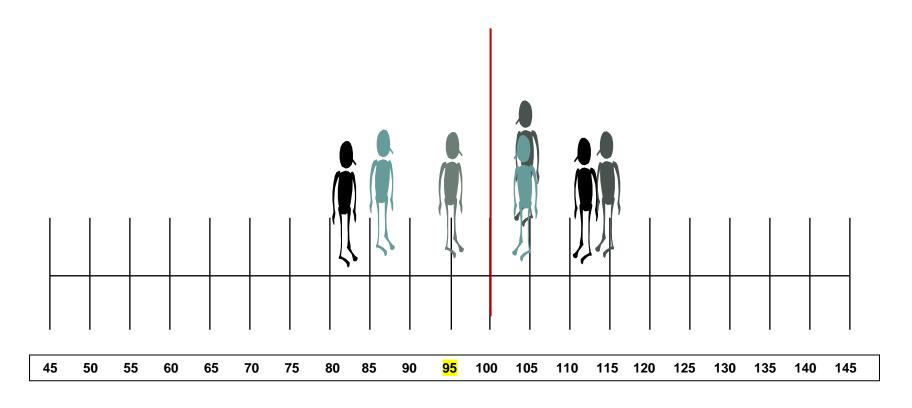
WHERE MIGHT YOU BE ON THE A-I CONTINUUM?



Adaption-Innovation continuum (KAI)



THSS Leadership Cohort: January 2023



Range: 82-115 Mean: 100

TEAM ACTIVITY

- In your team breakout room, discuss the ADVANTAGES and DISADVANTAGES of the cognitive diversity of your team.
- Be prepared to report the highlights of your discussion back to the group.



KAI SUB-SCALES

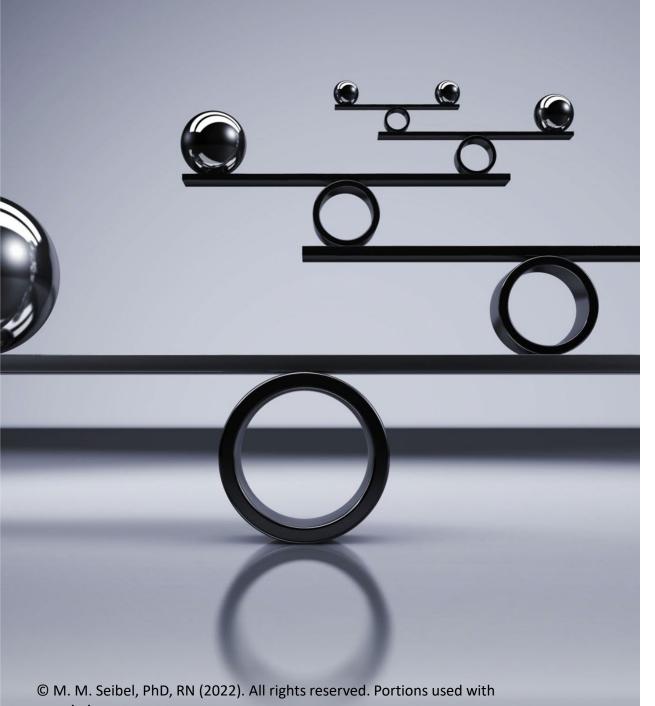
KAI Score = SO + E + R

SO= Sufficiency of Originality

E = Efficiency

R = Rule/Group Conformity

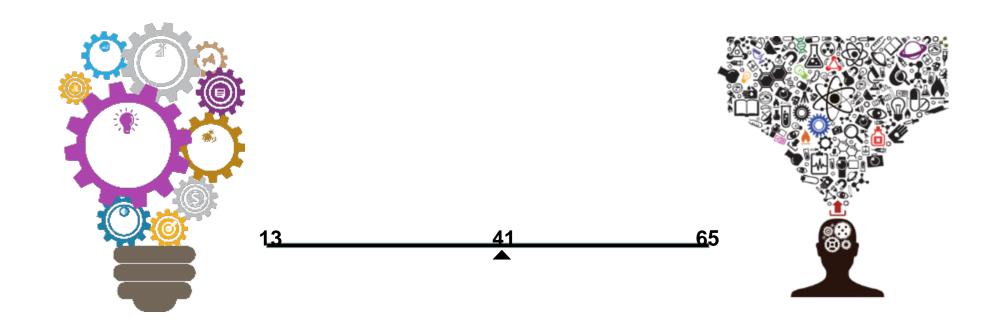




KAI SUB-SCALES

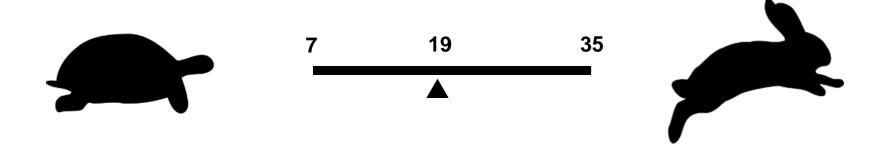
Scores in the subscales are the reason there can be significant variation in preference even with two people that have the same total score.

SUFFICIENCY OF ORIGINALITY



The degree to which we are free or cautious in idea generating situations.

EFFICIENCY



The degree to which we wish to have method, structure and process as we implement ideas and solutions.

RULE/GROUP CONFORMITY



target.com · Out of stock



The degree to which we feel the need to comply with rules and group norms.

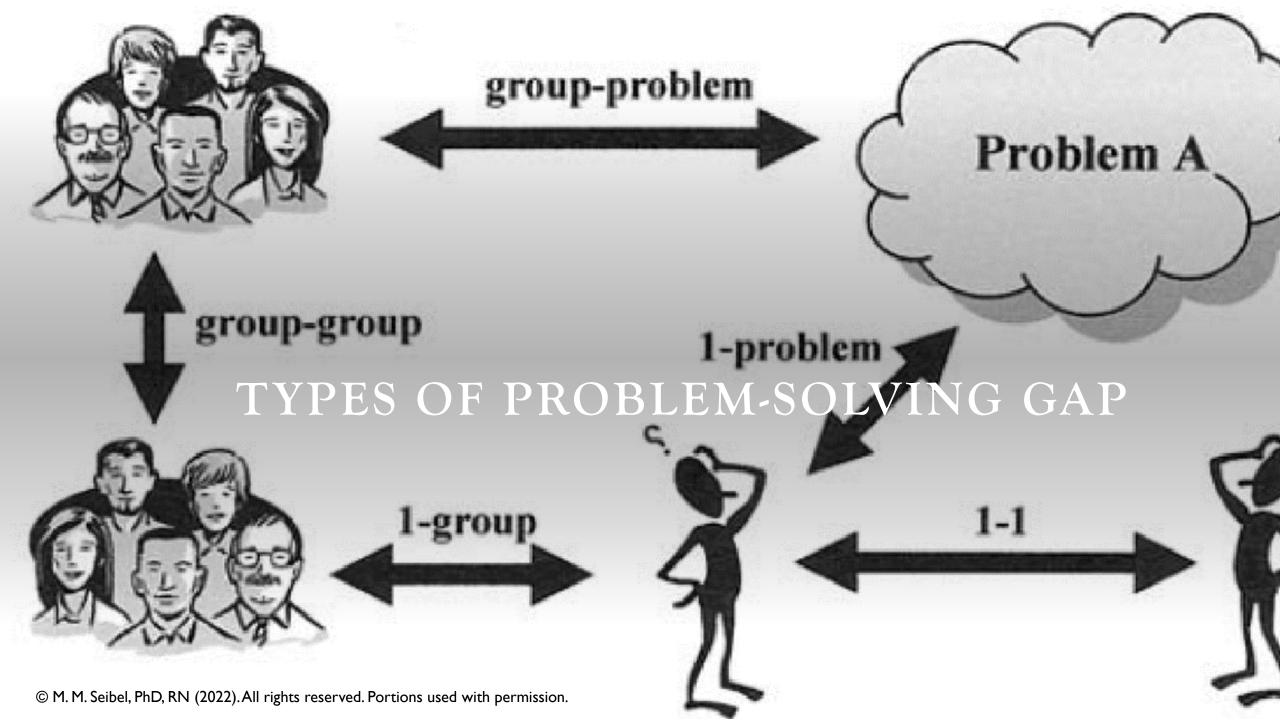
DIFFERENCES ARE A GOOD THING!

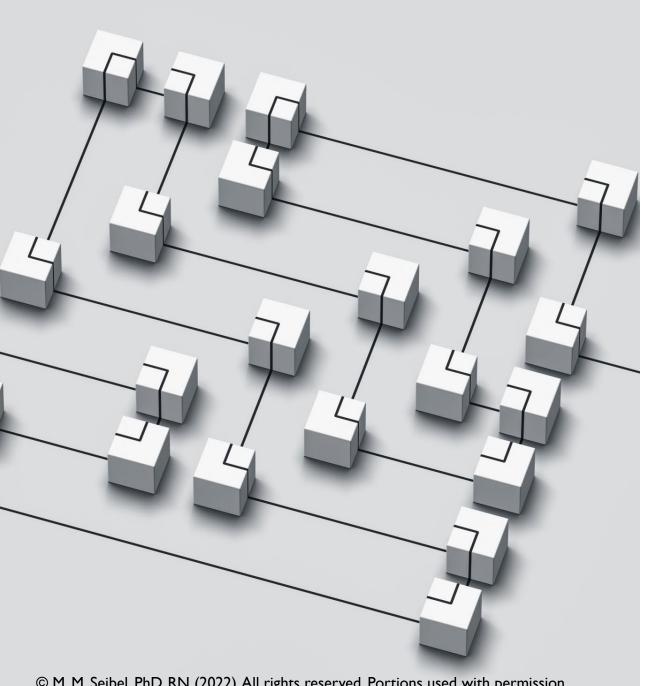
12 IIB

Neither adaptors nor innovators are better than the other at using their creativity when it comes to problem solving or decision making.

In particular situations, different degrees of adaption or innovation may be judged as more appropriate.

Adaptors and innovators may disagree about what is best in a situation, or confuse differences in style as differences in ability.



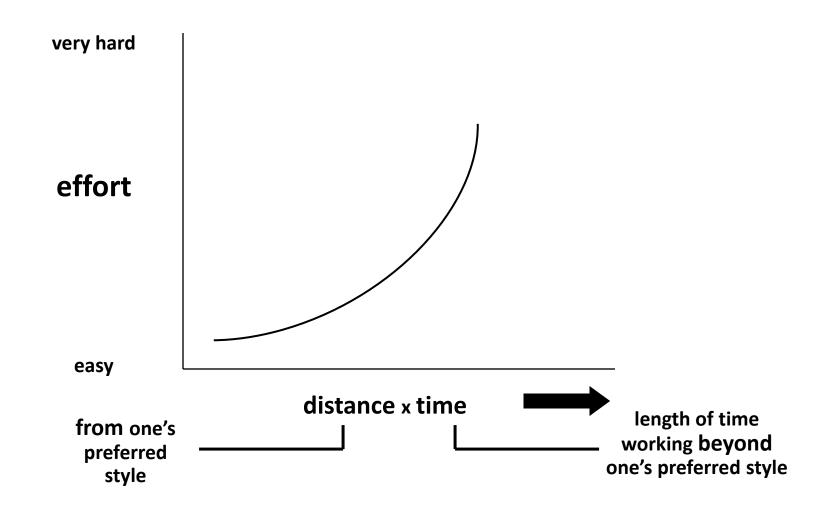


CHALLENGES OF COGNITIVE GAP

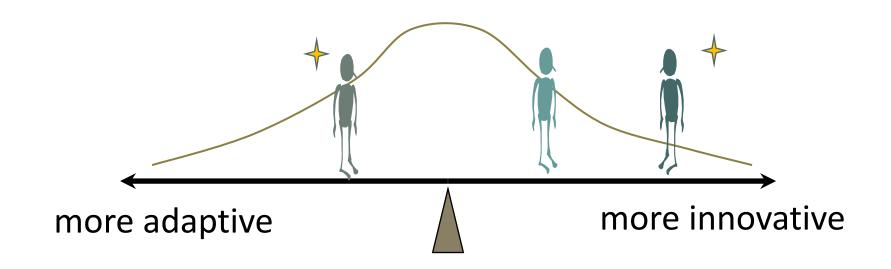
A 20-point style gap between individuals may inhibit:

- Communication
- Working together
- Trust

Coping Behavior



Cognitive Gap in Practice

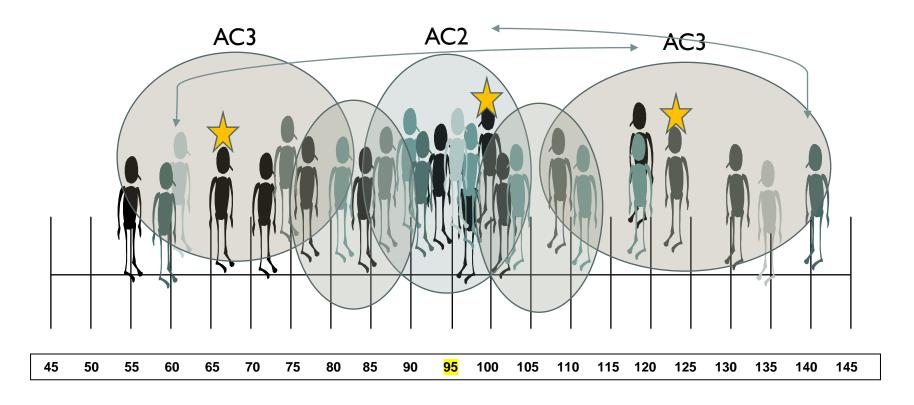


Agents of Change (normal distribution example)

AC1: each of us

AC2: +/- 10 points of the group mean

AC3: >10 points more A or more I than the mean



Bridging

range: 55-140 mean: 95

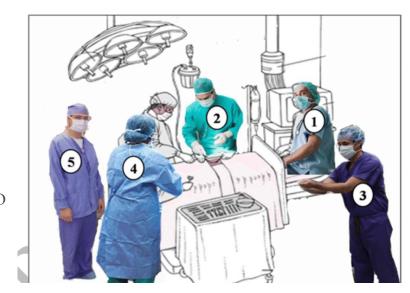
Coping

Leadership

A good leader:

- Gets the best from everyone even in a widely heterogenous team
- Is effective even if located as an AC3
- Uses bridgers to integrate others not easily reached

"Some teams, by their very success, often create new conditions and these new conditions can give rise to needs that the current team is not best equipped to solve. In short, the team's very success is the source of the need to build it anew." (Theory workbook, p. 68).



Applying Your Style...

Use of problem solving acumen to promote communication and an inclusive organization...

- monitor the effects of your own preferences
- effectively manage differences to best engage others
- strive to manage differences in ways that meet the needs of the task

