"L-functions in Analytic Number Theory" Collaborative Research Group (CRG) Launch Event

EDI and Mathematics: Disruption and Opportunity

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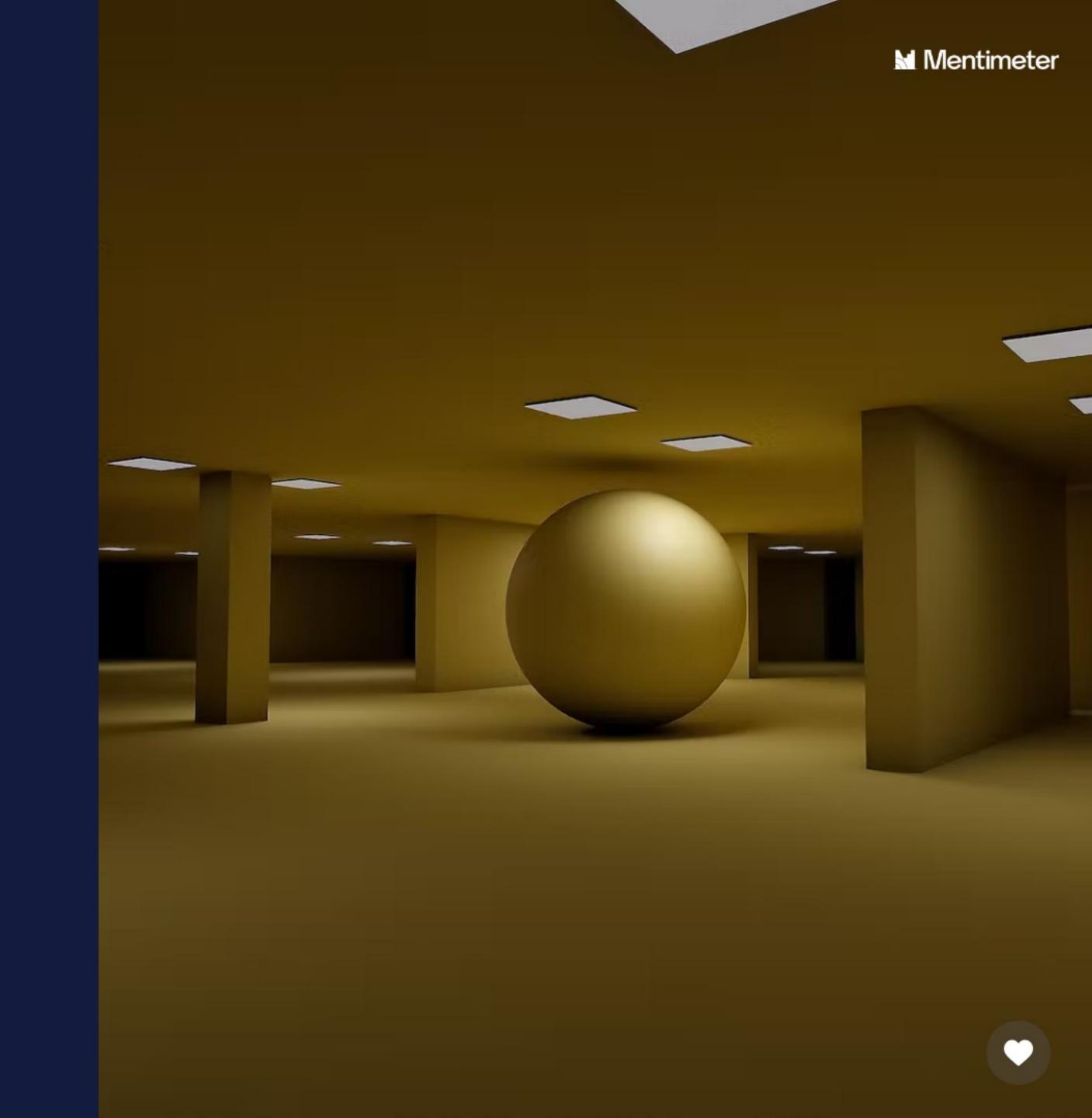
November 19, 2022

Diversity Inclusion Inclusion In Maths

Session Instructions

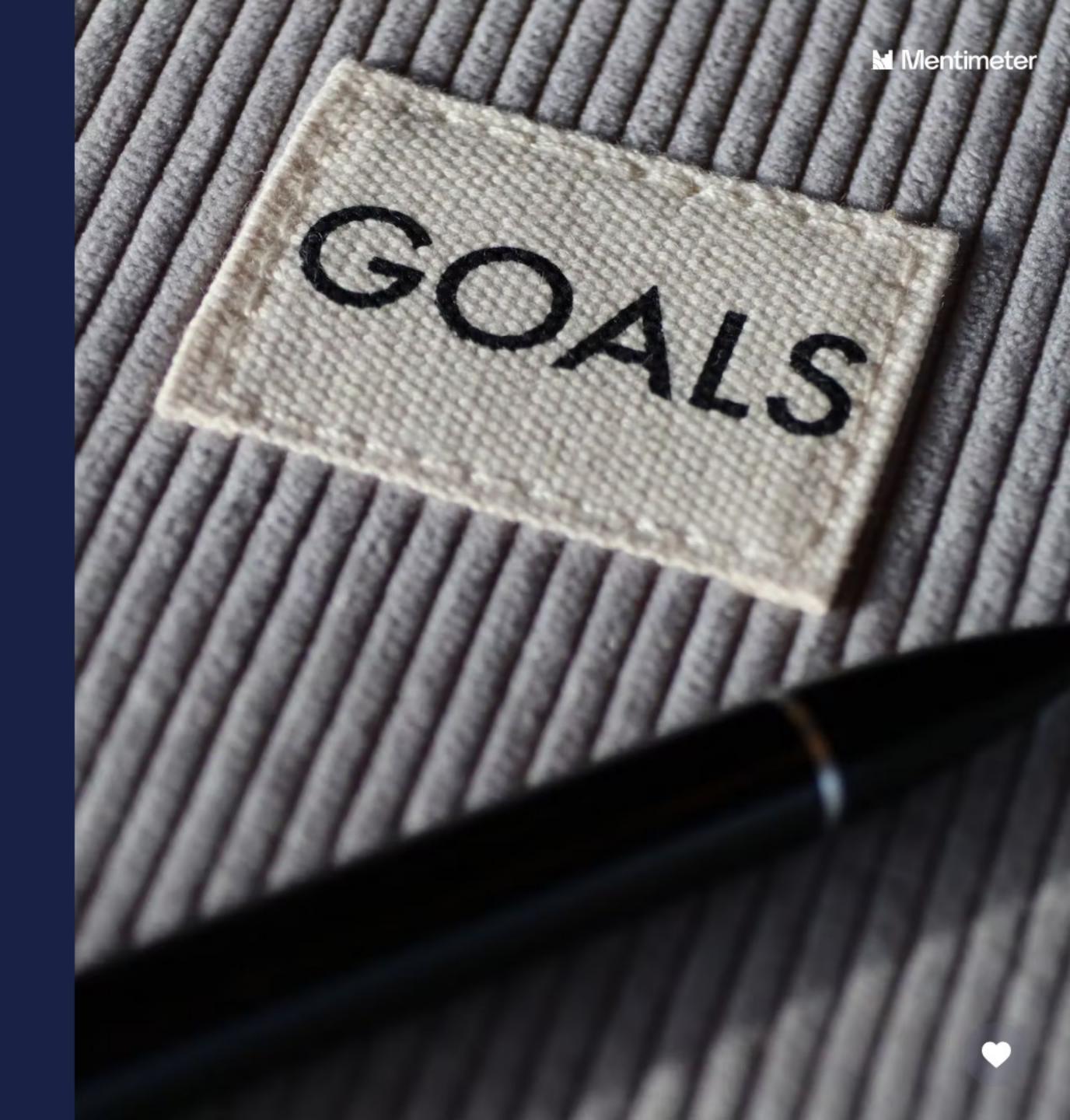
The paradox of education is precisely this—that as one begins to become conscious one begins to examine the society in which [they are] being educated.

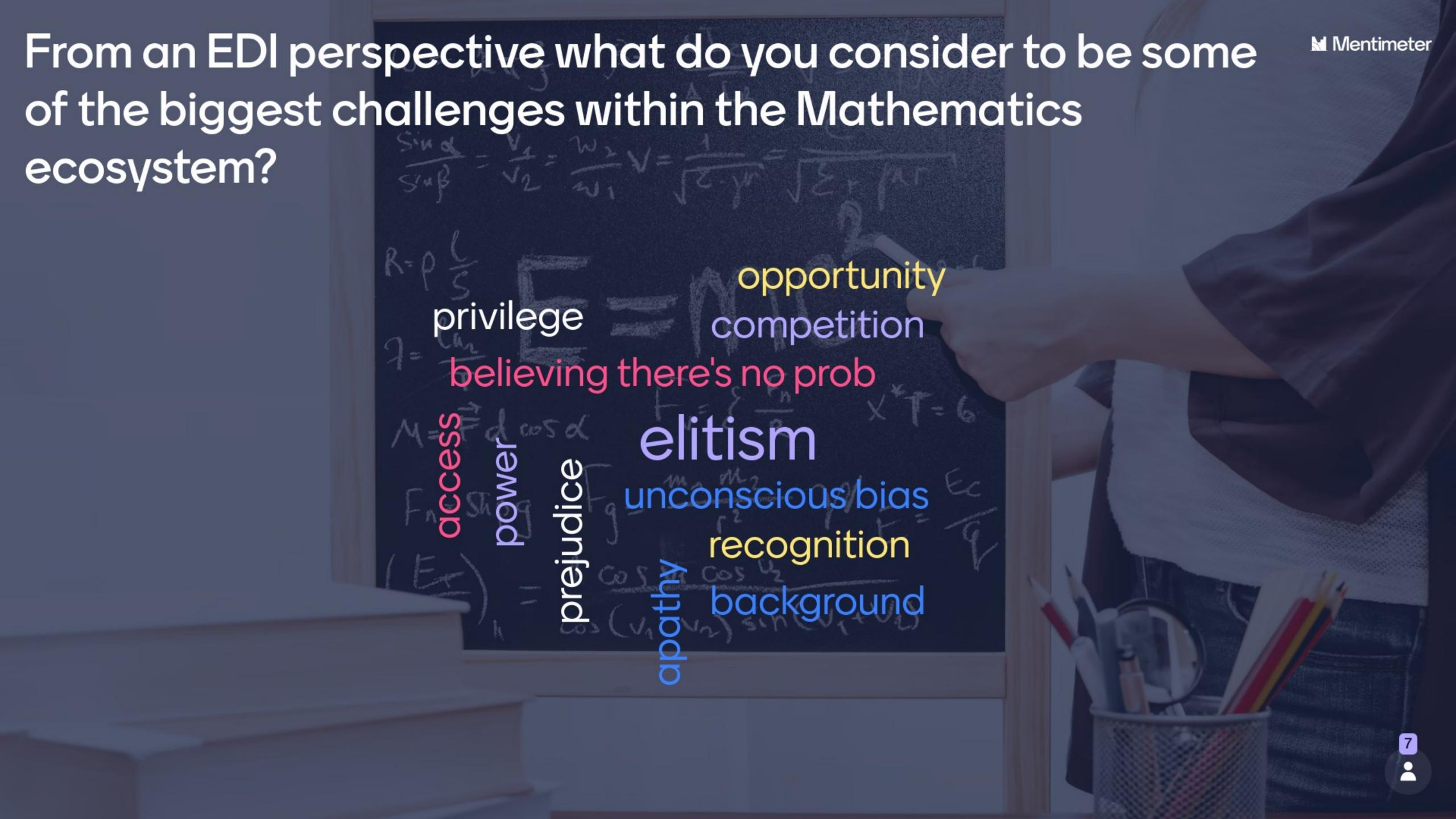
- James Baldwin



Intentions

- Unpack the key concepts of Equity, Diversity and Inclusion,
- Set the context, disrupt the myths and misconceptions of Equity, Diversity, Inclusion, Decolonization(EDID) and antiracist work,
- Provide some practical tools to help foster a more inclusive mathematics ecosystem,
- → Facilitate a conversation on how best to embed an EDID lens into the Collaborative Research Group events.





Key Definitions







DI-VER-SI-TY

All the ways in which people differ.

EQ·UI·TY

Fair treatment, access, opportunity, and advancement

IN-CLU-SION

A variety of people have power, a voice, and decision-making

Racism Defined.....

- Shaibah (2022) defines racism as systems and structures that
 exercise power over one group of people based on skin color,
 implicit or explicit set of beliefs or biases, erroneous assumptions
 and actions based on an ideology of racial superiority"
 - Personal mediated racial discrimination
 - Institutional racism
 - Structural racism



Source: Universities Canada Building a Race-Conscious Institution







Equality is everyone getting a pair of shoes.



Diversity is everyone getting a different type of shoe.



Equity is everyone etting a pair of shoes that fits.



Acceptance is understanding we all wear different kinds of shoes.



Belonging is wearing the shoes you want without fear of judgment.

Equity, Diversity, Inclusion Belonging In Action



Faces of Women in Mathematics : Dr. Eugenie Hunsicker and Irene Linke

Angel complex

This is a US issue

There is no issue here...

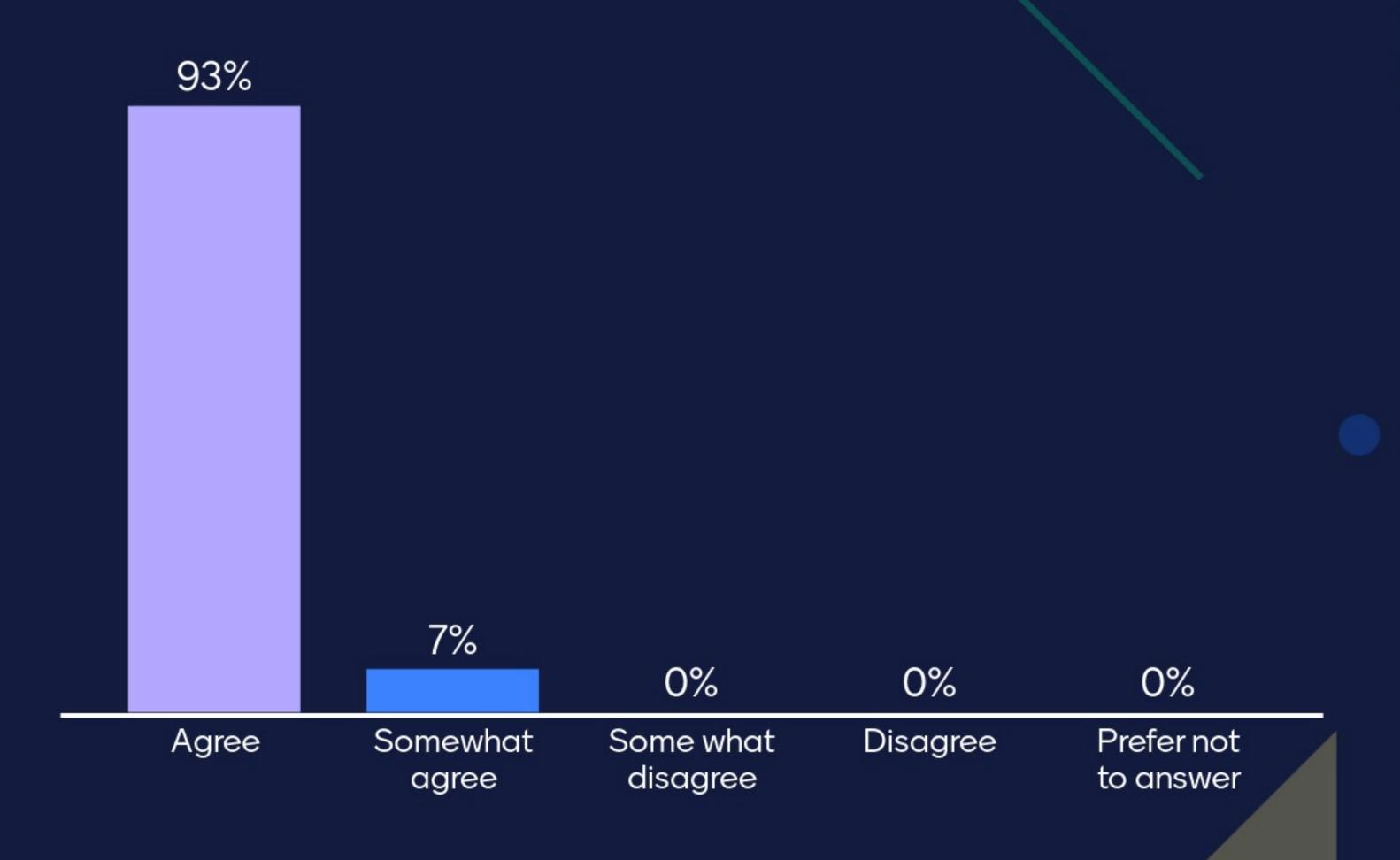
"Wokeness"

Critical race makes us feel bad

Polarizing views on EDI and antiracism work



Do you think that there is a representation issue within the mathematics discipline?







Setting the Context

COVID 19 Pandemic

Death of George Floyd

#Metoo movement

Black Lives Matter

Residential Schools



Setting the context

- "Despite the emphasis on multiculturalism and social equality as public policy, people living in Canada are not always treated equally. Indigenous peoples and those designated as visible minorities generally report feeling less safe than the rest of the population, in some cases are much more likely to be overrepresented in the justice system, and along with sexual minorities"
- The average pay for visible minorities can be as much as 30% lower in similar sized workplaces.
- Underrepresented groups are at a greater risk of physical and mental health outcomes due to structural and institutional racism.

Source: Statistics Canada

In 2010 women accounted for 60% in Biological Sciences, 58% for General and Integrated Sciences, 19% Engineering and 16% Computer Science/Science

Source: Stats Canada

$$2x_3 - 3x_4 = 13$$



Privilege explained - Source: As/Is

Universities are "colonial structures"

- → History of settler colonial past,
- → History of slavery, classism, civil rights movement and indentured servitude,
- Discriminatory and exclusionary immigration practices,
- → Neoliberalism,
- Increase in white nationalist and polarizing ideology.

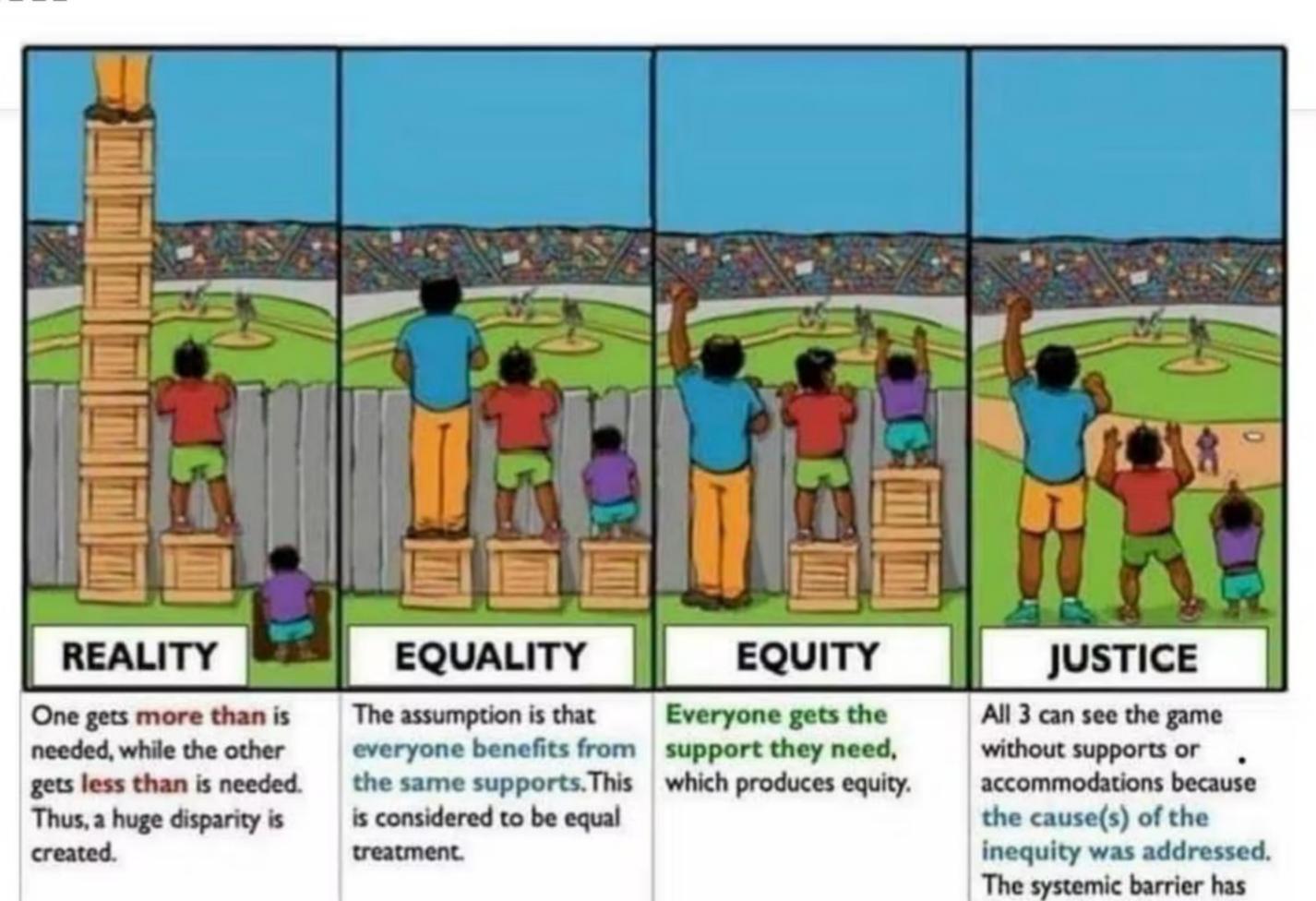


M Mentimeter



Power is always at the centre of EDI issues

What if....



been removed.



Inclusion starts with I

What are some goals you think as an individual you can do to become a better ally, advocate and champion of EDI?





Business and Ethical Case for EDID

- Enhances educational, learning and research outcomes,
- Creation of safe inclusive spaces for all identities, experiences and expertise,
- → Re-examination of institutional policies and processes that historically exclude certain voices, identities and experience,
- Universities have an ethical responsibility to address systemic issues within education,
- → It is about the creation of Inclusive excellence in research, teaching and scholarship.



What does this look like in academia?

- → Inclusive Hiring Practice Cluster Hiring
- → EDI as an institutional priority
- Tri Agencies requiring EDI to be embedded throughout the research process
- More inclusive evaluation process for tenure and promotion
- Creation of EDI roles to support this work



What do you think are some of the most common misconceptions about Equity, Diversity, Inclusion, Decolonization (EDID) and Antiracism work?

lowering standards
antimen no responsible for past
gets better on its own
someone else's problem
unrelated to math
quotas
merit does not matter





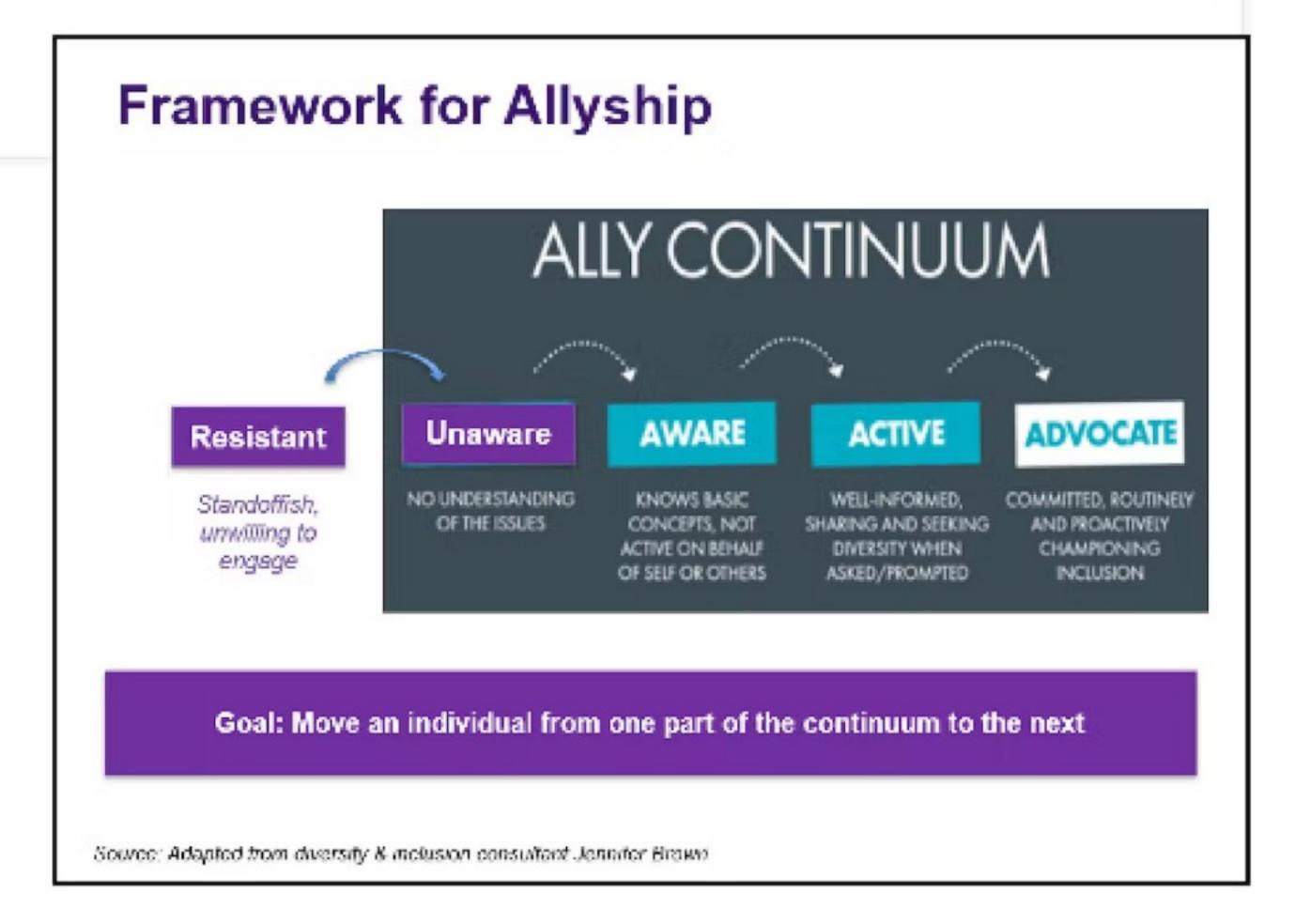


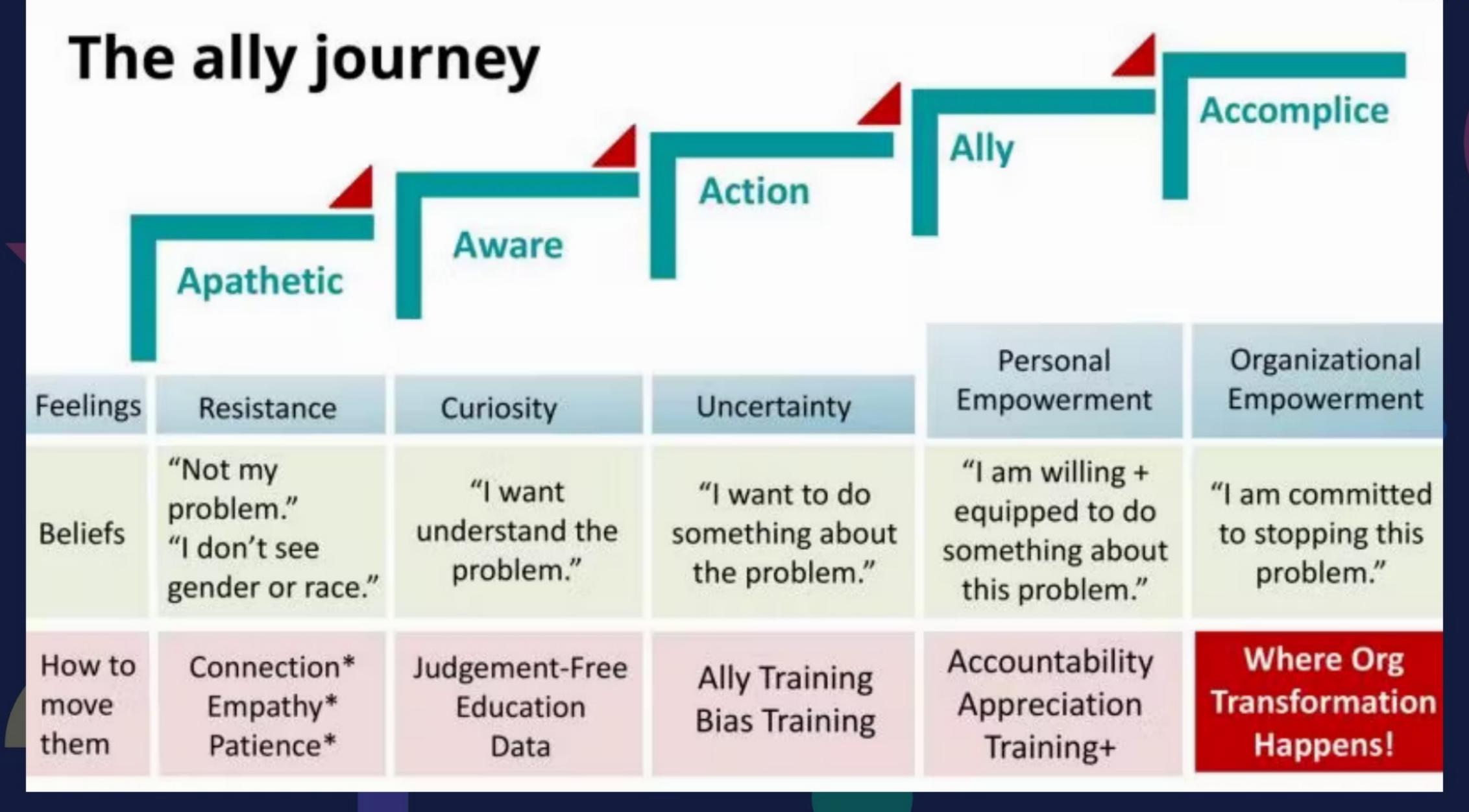






Allyship Continuum





Allyship in Action

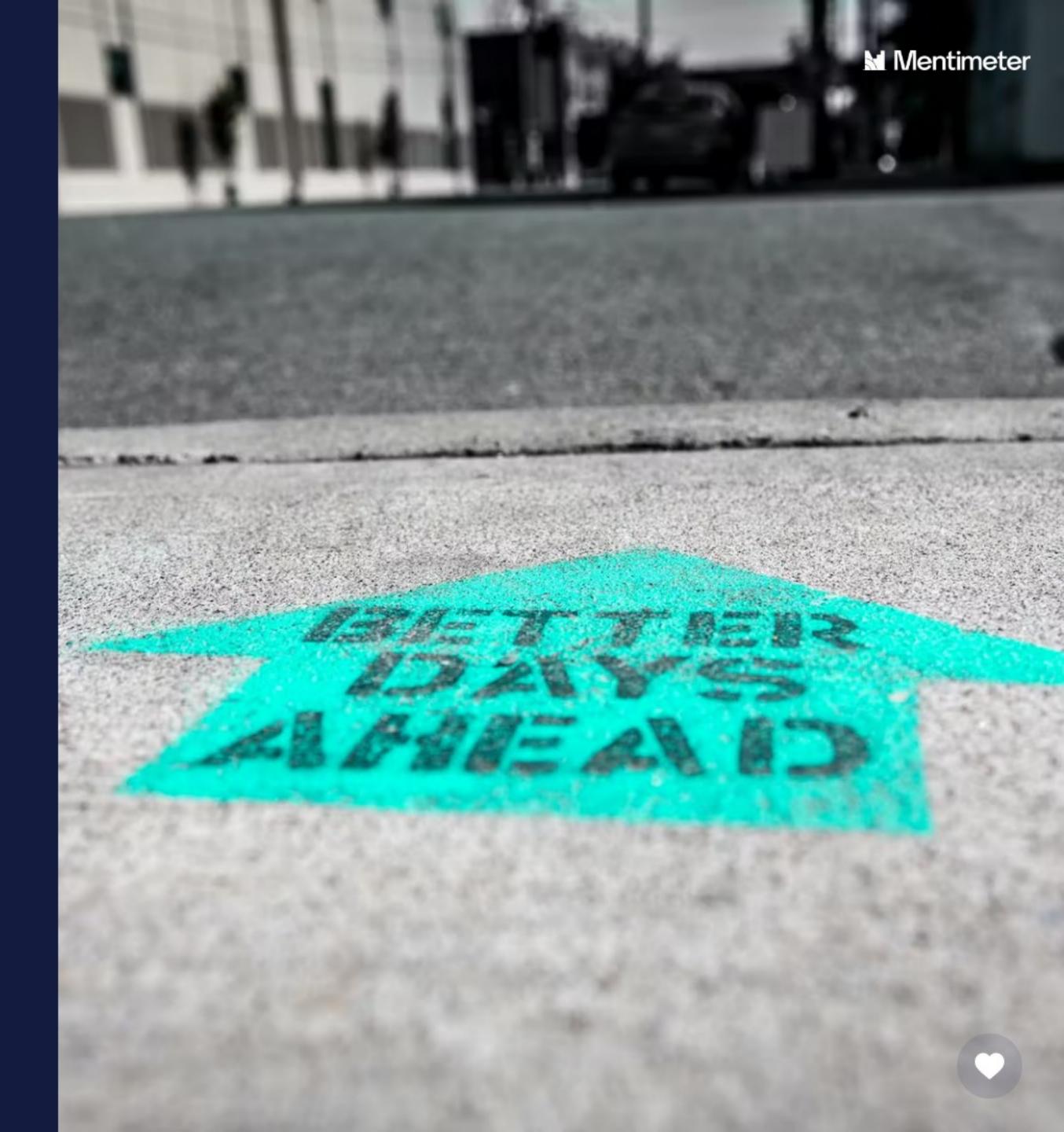
- → Speak up when the person is not in the room,
- Reflect on your power and privilege as straight, white, cisgender, heterosexual male colleagues,
- → Listen to other perspectives,
- Credit your colleagues (women, racialized, Indigenous, 2SLGBTQ, persons with disabilities) fairly for their work,
- → Challenge sexist, racist, homophobic, ableist behaviors,
- → Build a culture of gender and culture diversity.



Stretch Break



Moving Forward





Brainstorming Activity

- → With the focus towards improving inclusivity, what are some guiding principles that should become a part of the CRG events?
- → What does the CRG do well?
- → What could be working better in the CRG and why?
- → What are 1-2 EDI related activities you would like to see?

With the focus towards improving inclusivity, what are some guiding principles that should become a part of the CRG events?

edi embedded from start math is done by people setting up expectations

planned mentorship

giving opportunities

value people

pen calls

make the space lasting relationships

share ideas



What does the CRG do well?

listening to each other expand research network edi is explicit priority this

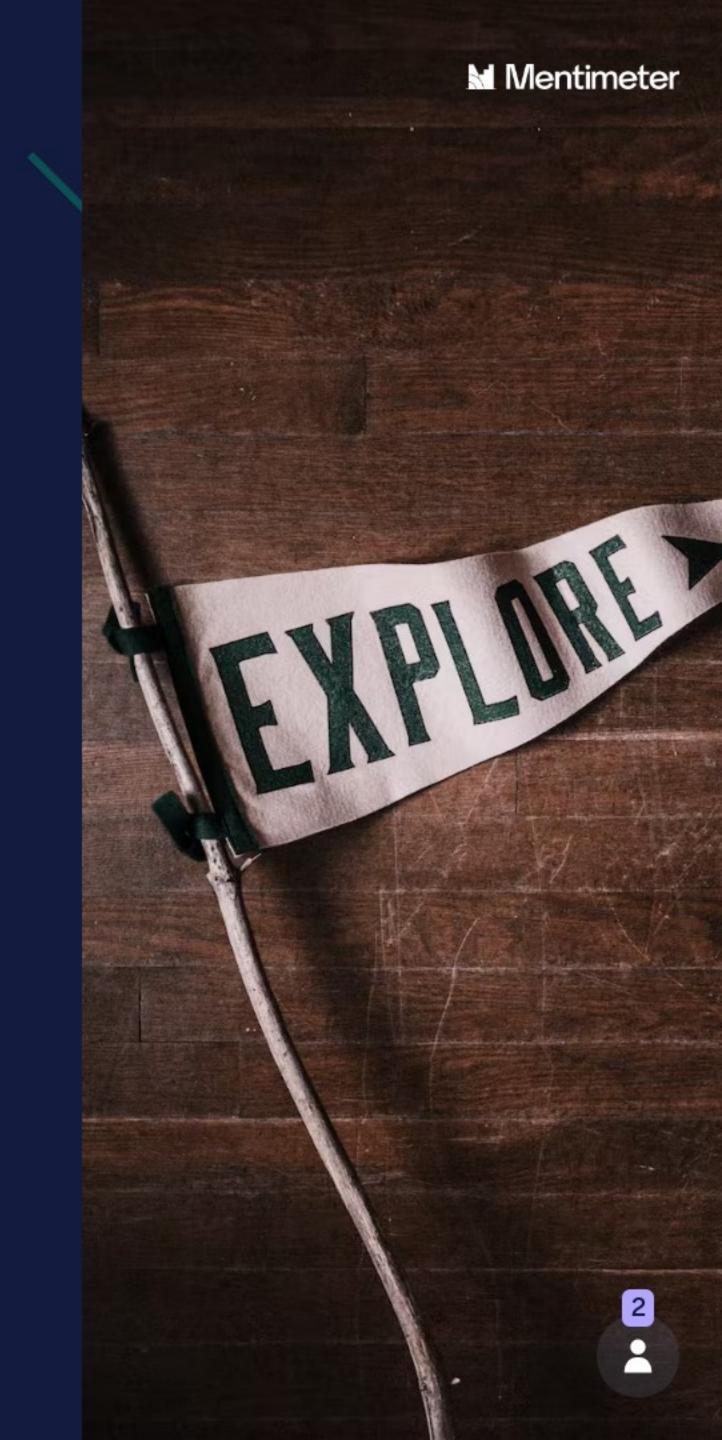


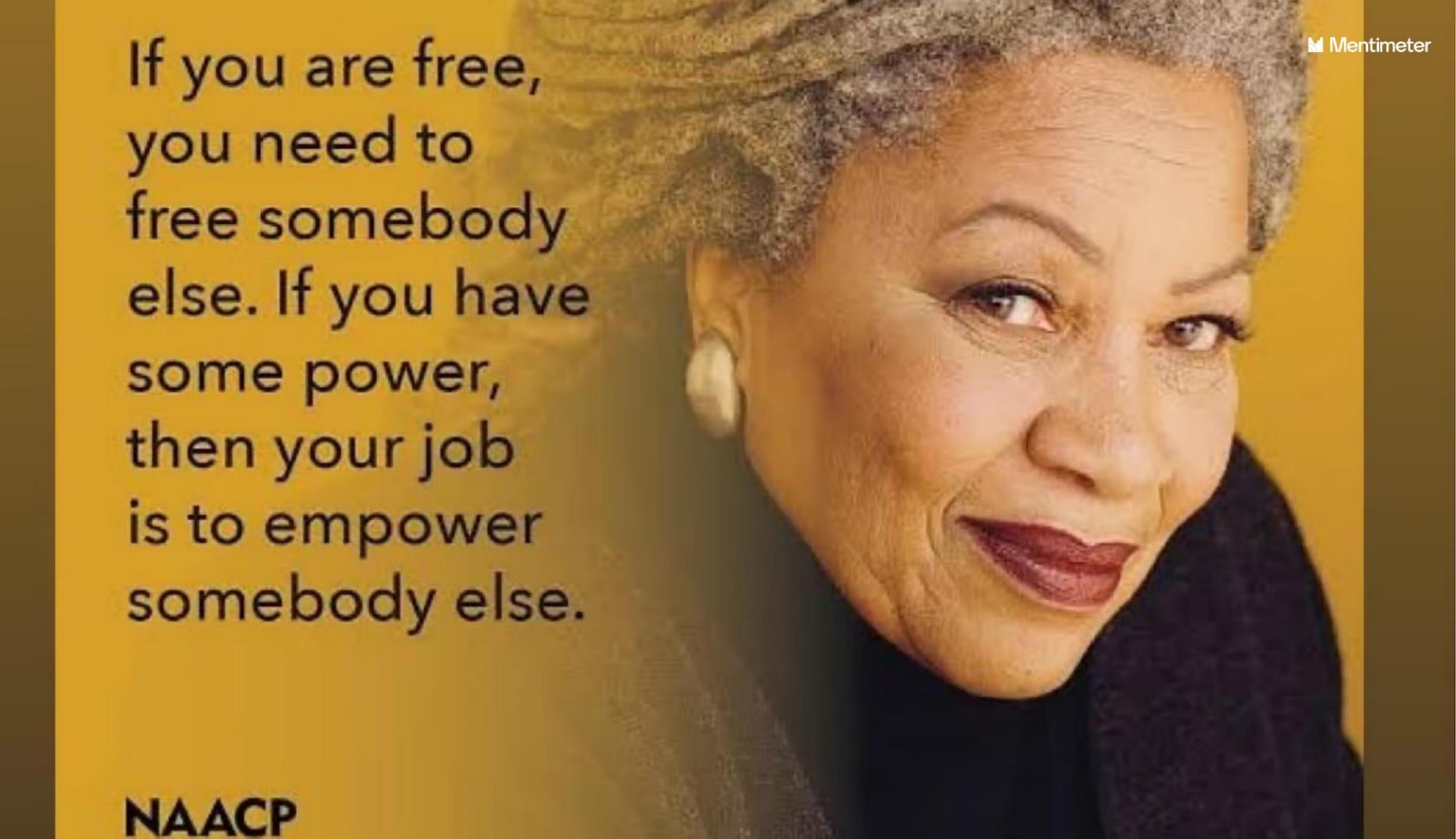
What could be working better in the CRG and why?



What are 1-2 EDI related activities you would like to see?

story sharing sustained mentorship intentional networking historical learning







From Unsplash

