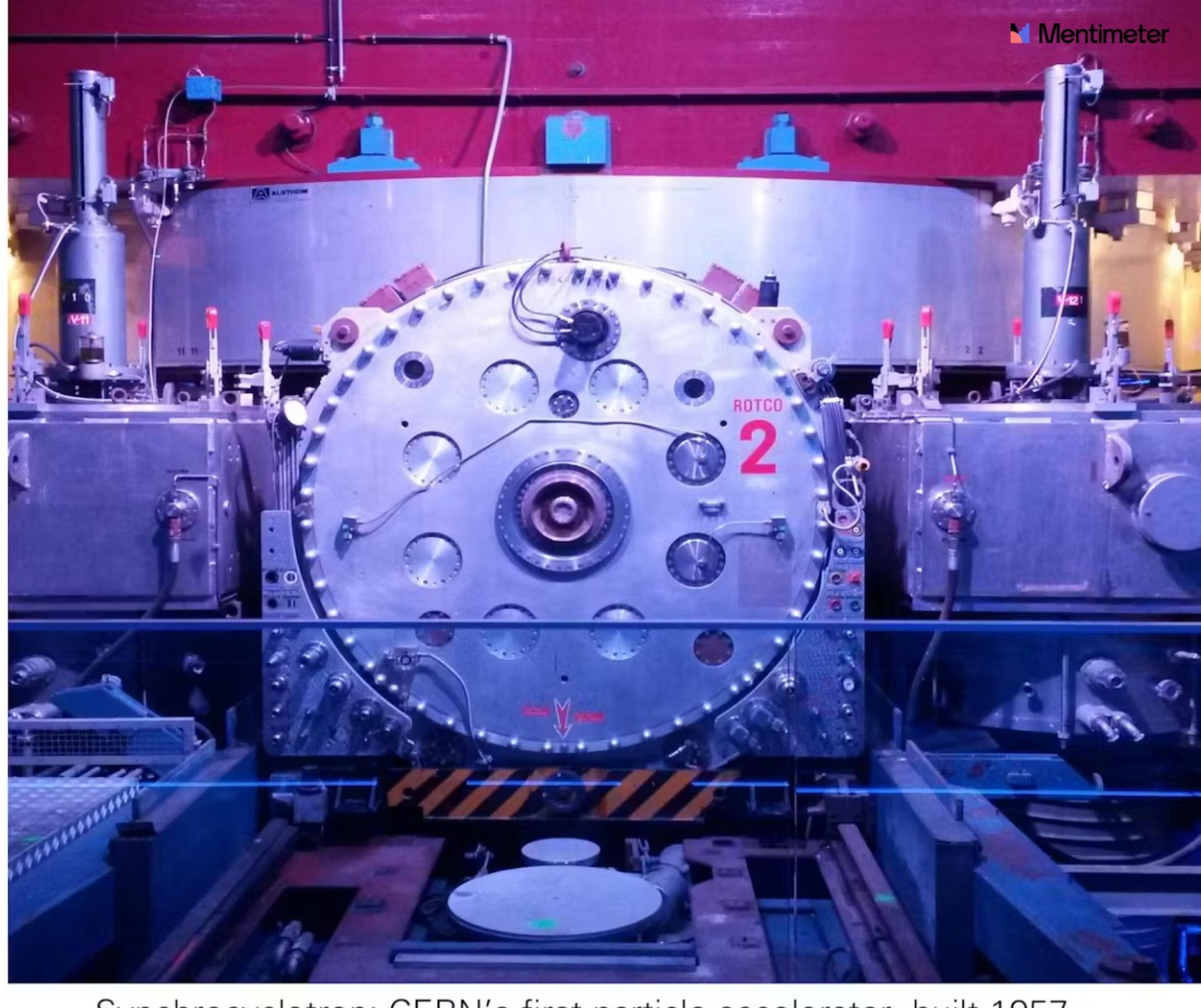
# Mind spinning. Feet standing still.

Shedding light on invisible differences.

#### Louise Carvalho

Diversity & Inclusion Programme Leader, CERN

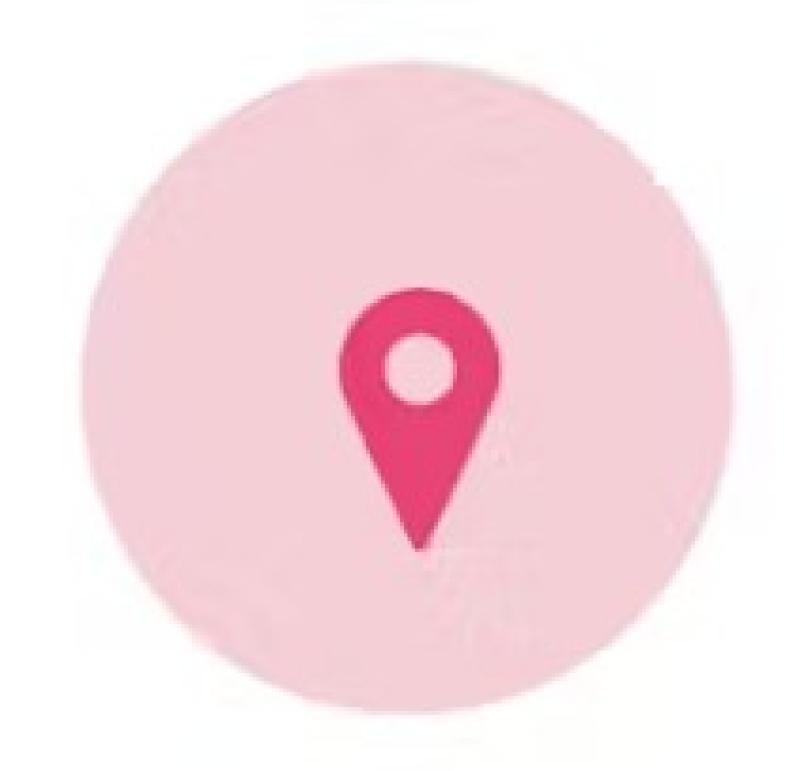
Physics Days 2025, University of Oulu 27 March 2025



Synchrocyclotron: CERN's first particle accelerator, built 1957

# Overview





CERN: WHERE
WHAT
WHO



OUR FIRST DIVERSITY TARGET









NEURODIVERSITY INCLUSION



TAKEAWAY MESSAGE

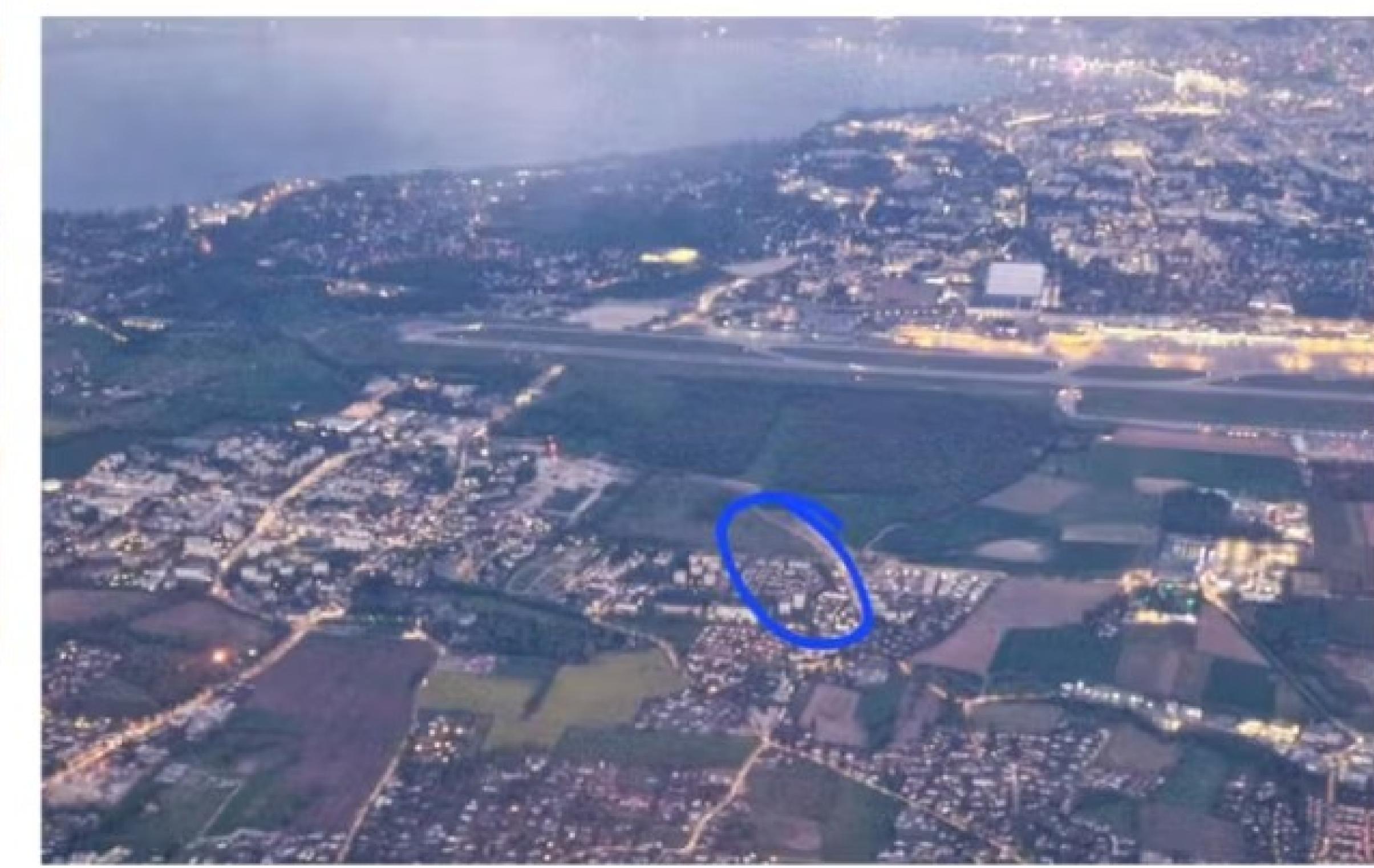


# "Conseil Européen de la Recherche Nucléaire": CERN European Organization for Nuclear Research



World's largest laboratory for particle physics

Our goal: to understand the most fundamental particles and laws of the universe



## Science for Peace

founded in 1954 with 12 European Member States

#### 24 Member States

Austria – Belgium – Bulgaria – Czech Republic Denmark - Estonia - Finland - France - Germany Greece Hungary – Israel – Italy – Netherlands – Norway - Poland - Portugal - Romania - Serbia -Slovakia Spain – Sweden – Switzerland – United Kingdom

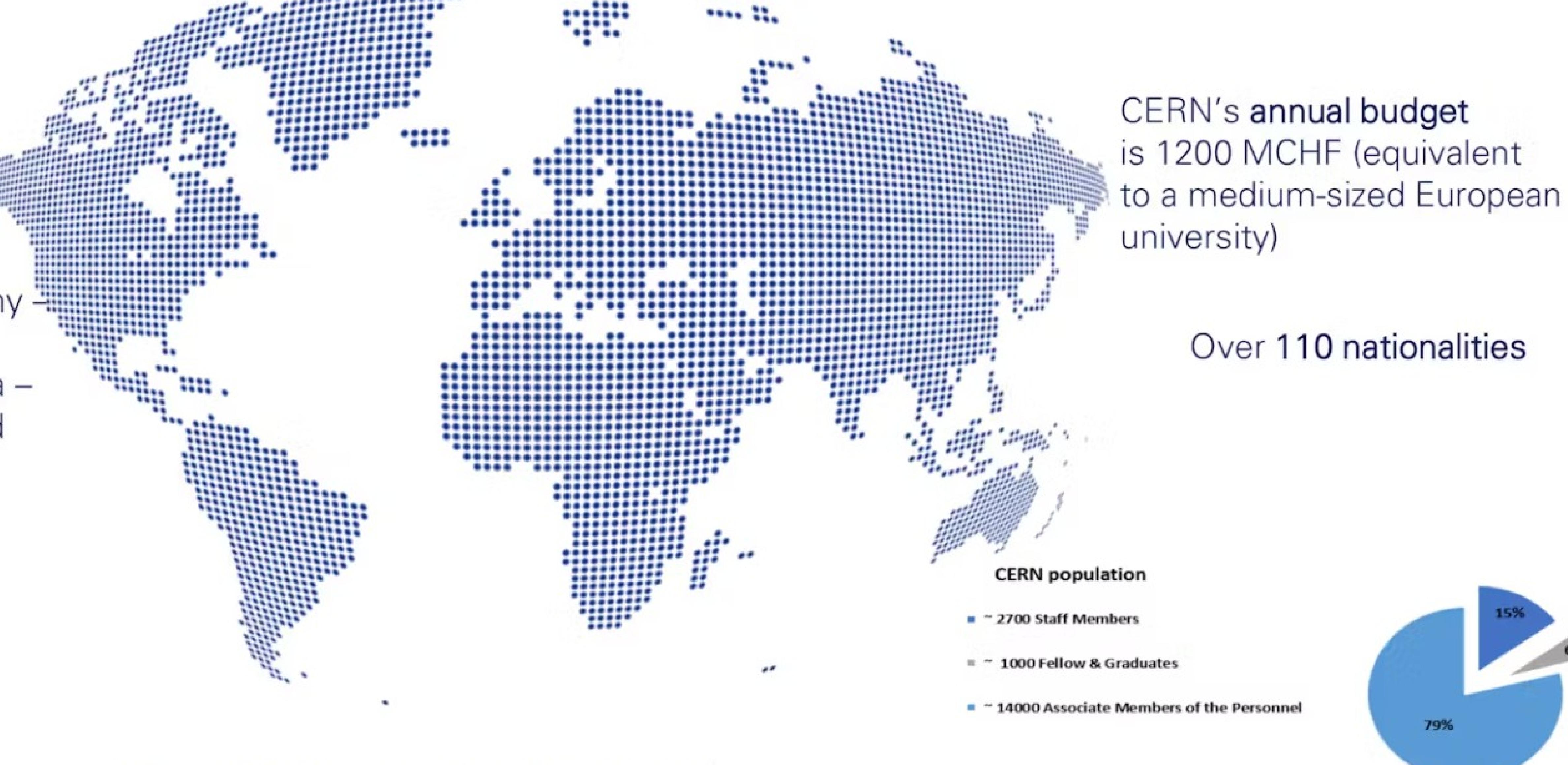
3 Associate Member States in the pre-stage to membership Cyprus - Slovenia

#### 8 Associate Member States

Brazil - Croatia - India - Latvia - Lithuania -Pakistan - Türkiye - Ukraine

#### 6 Observers

Japan - USA + European Union - UNESCO JINR (currently suspended)



\*\*\*\*

#### Around 50 Cooperation Agreements with non-Member States and Territories

Albania – Algeria – Argentina – Armenia – Australia – Azerbaijan – Bangladesh – Belarus – Bolivia Bosnia and Herzegovina – Canada – Chile – Colombia – Costa Rica – Ecuador – Egypt – Georgia – Honduras Iceland – Iran – Jordan – Kazakhstan – Lebanon – Malta – Mexico – Mongolia – Montenegro – Morocco – Nepal New Zealand – North Macedonia – Palestine – Paraguay – People's Republic of China – Peru – Philippines – Qatar Republic of Korea – Saudi Arabia – Sri Lanka – South Africa – Thailand – Tunisia – United Arab Emirates – Vietnam

# diversity IS excellence

#### Accessibility & Inclusion

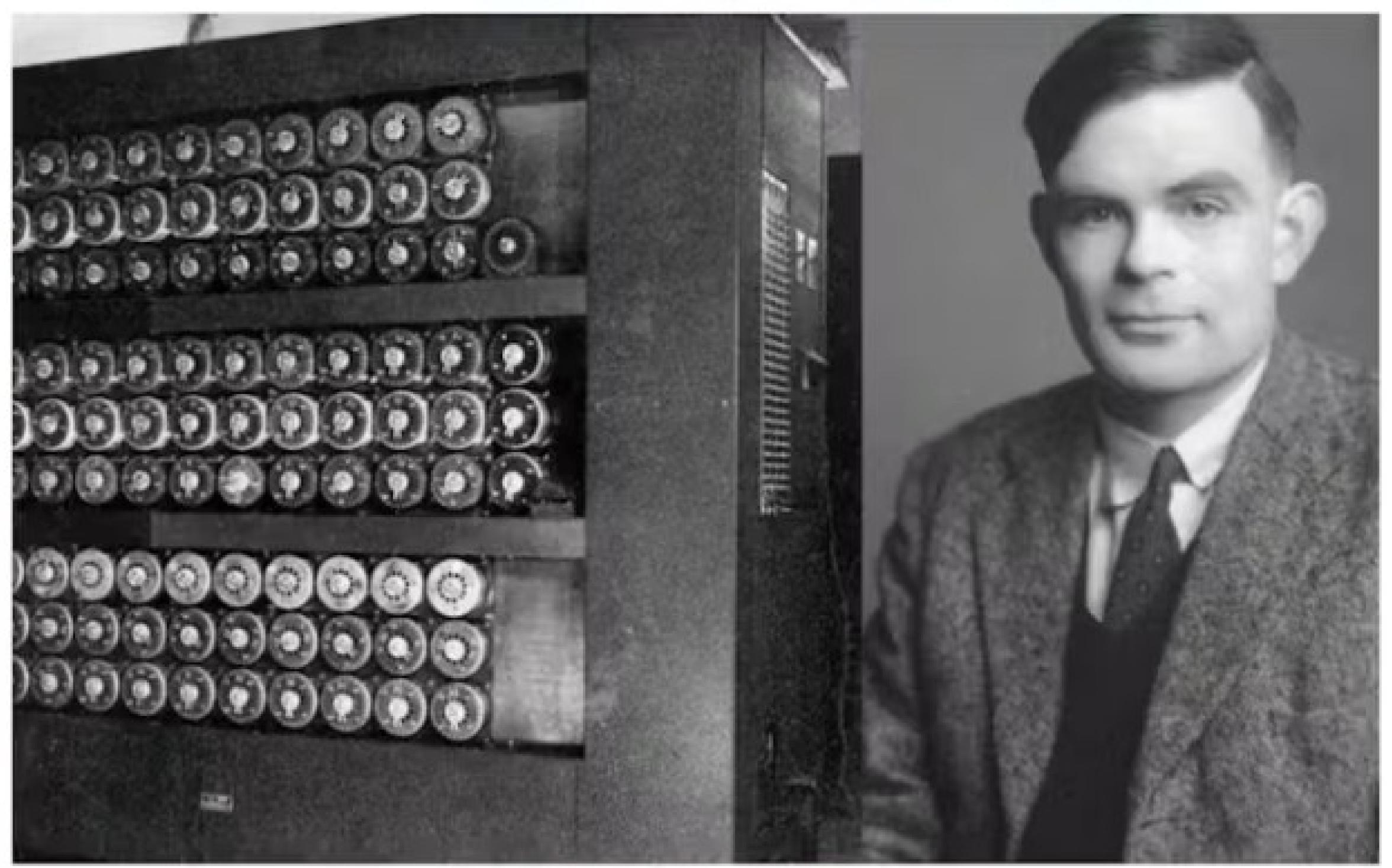


→ Maria Salomea Skłodowska-Curie



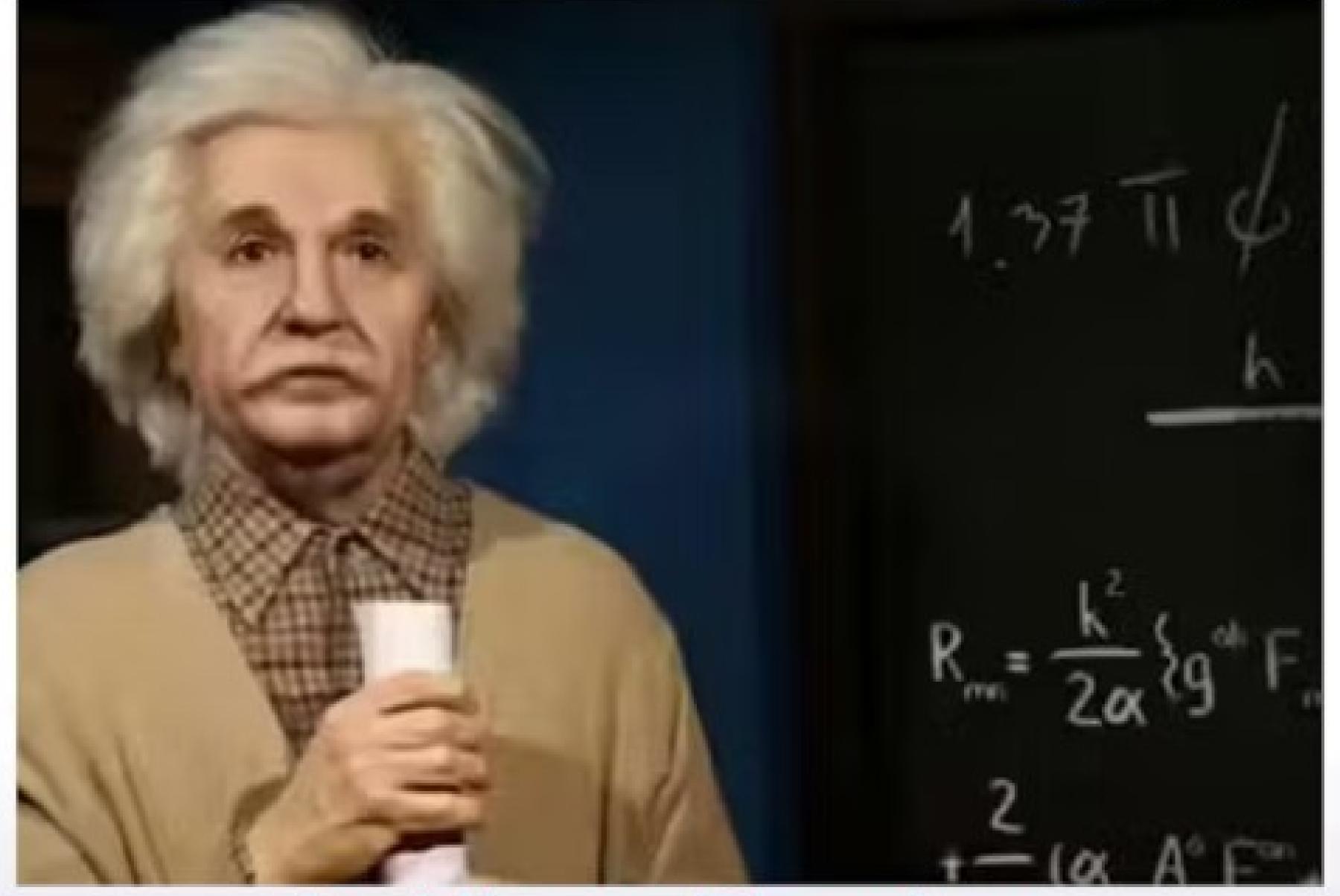
Stephen Hawking

#### LGBTQ+ inclusion



Alan Turing

#### Neurodiversity (?)



-> Albert Einstier

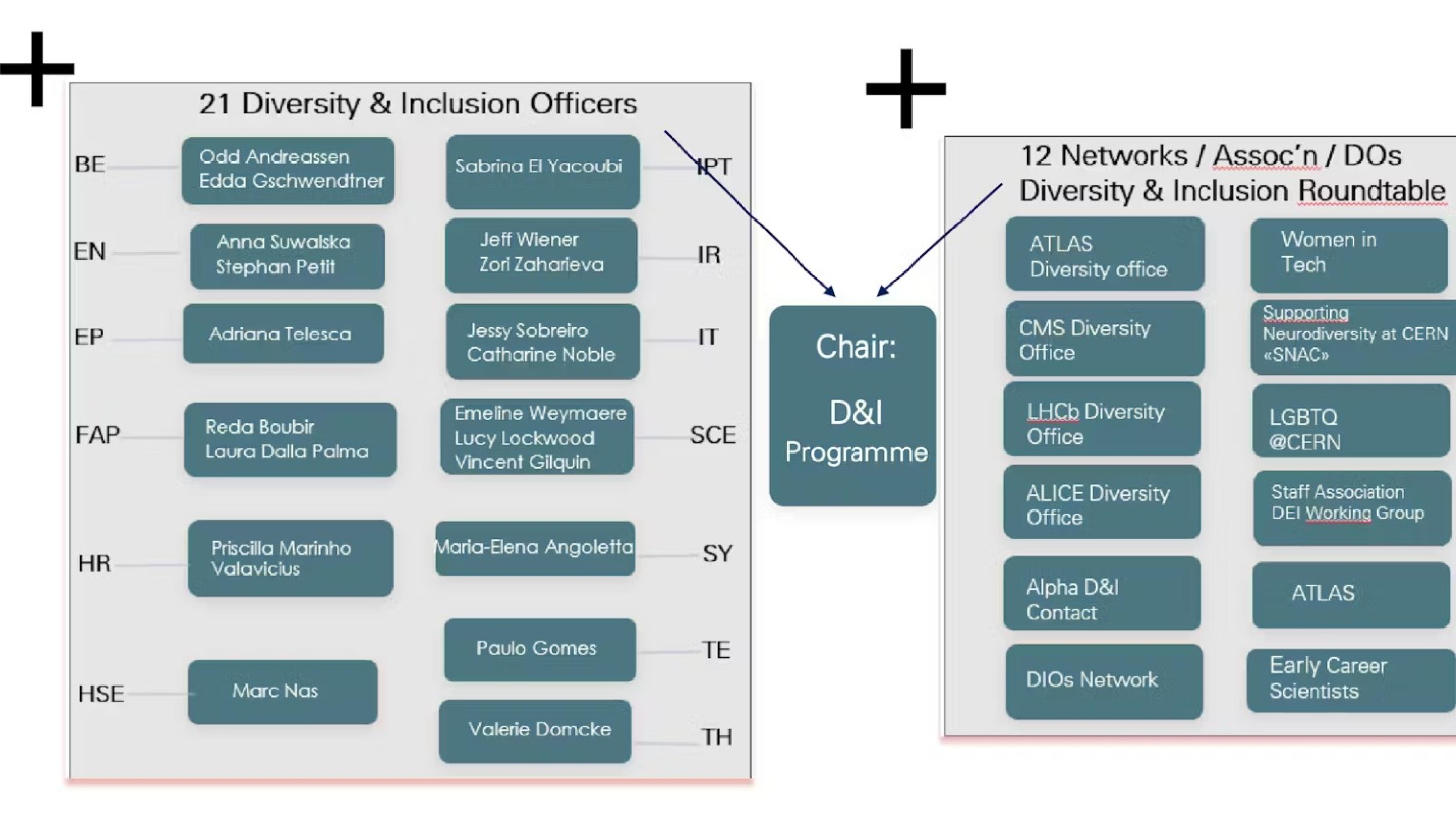
# Diversity & Inclusion Programme: since 2012 timeter



Louise Carvalho D&I Programme Leader (+ Legal Adviser, HR)



D&I Officer Under recruitment



Women in

Neurodiversity at CERN

Tech

Supporting

«SNAC»

LGBTQ

@CERN

Staff Association

ATLAS

Early Career

Scientists

DEI Working Group

### Diversity @CERN Volunteer Networks

#### WIT

supporting advocating for women in STEM

#### ACTIVITIES:

- guest talks
- weekly news
- mentoring
- gender diversity initiatives

wit-matters@cern.ch



#### LGBTQ+

fostering LGBTQ+ inclusion

#### ACTIVITIES:

- weekly lunch, R1 behind
   Grab N Go, Tues @12h:
   join us!
- events: LGBTQ in STEM
   day, Geneva Pride

Igbtq.secretary@cern.ch



#### SNAC

"Supporting Neurodiversity at CERN"

#### ACTIVITIES:

- webinars
- social meet-ups
- share experiences
- policy proposals

neurodiversity.contact @cern.ch



#### DISABILITY

supporting persons with (in)visible disabilities

#### ACTIVITIES:

- seminars
- take part in disability studies
- · accessibility advice

contact-disability@cern.ch



CERN Diversity Networks aim to:

- · promote a respectful, inclusive, and discrimination-free workplace
- foster awareness of equal opportunities
- offer resources and a platform for work-related discussions

Scan the QR code to learn more!

# GENDER target (aspirational) GOAL With a particular focus on women in STEM: from 21% in 2020 25% in 2025

#### OUR VISION

scientific excellence through diversity and inclusion

#### OUR GOAL

to increase the nationality and gender diversity of Staff & Fellows ("MPE") population by end-2025

25 by '25

NATIONALITY indicator
(not a cap not a quota)
Wentimeter
GOAL

With a particular focus on under-represented MS and a more balanced return by 2025:



address nationality clusters

and increase our conscious efforts toward nationality diversity in recruitment & retention

#### Success Factors:



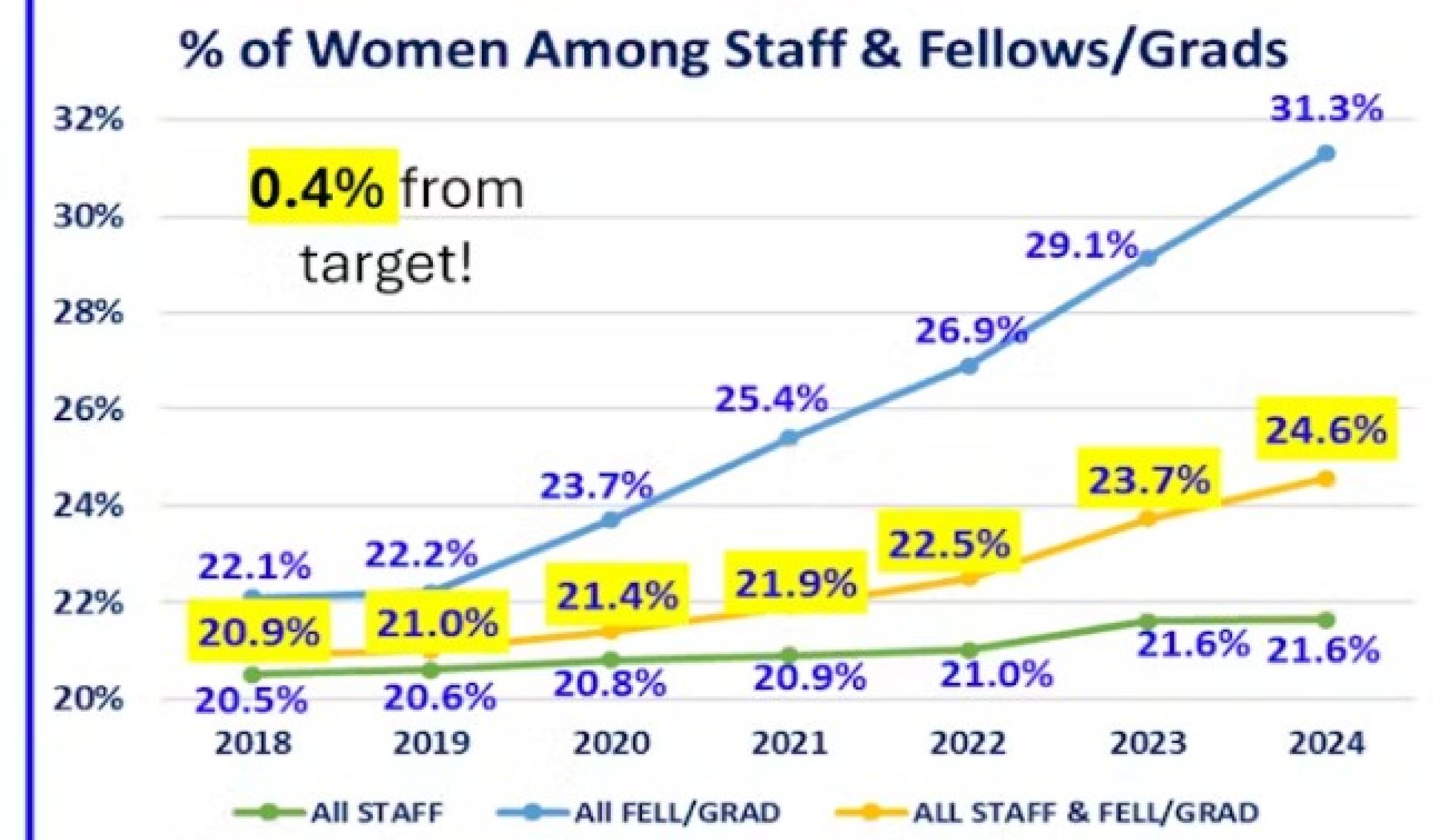
- Enlarged Directorate endorses 25by'25 Strategy (2021)
- Dept Heads appoint D&I Officers (DIOs)
- Dept Heads approve Fitness Plans
- Introduces "Conscious Hiring" (nationality)
- Mandatory training: inclusive leadership
- Dept Heads communicate 25by'25 updates
- D&I Programme
- Stakeholder engagement
- Lead & support DIOs
- Implements 1st D&I Review Exercise (2021)
- Workshop: Transforming Bias
- Workshop: Inclusive Language
- Theatre Forum on sexism
- Nationality clusters deep dive

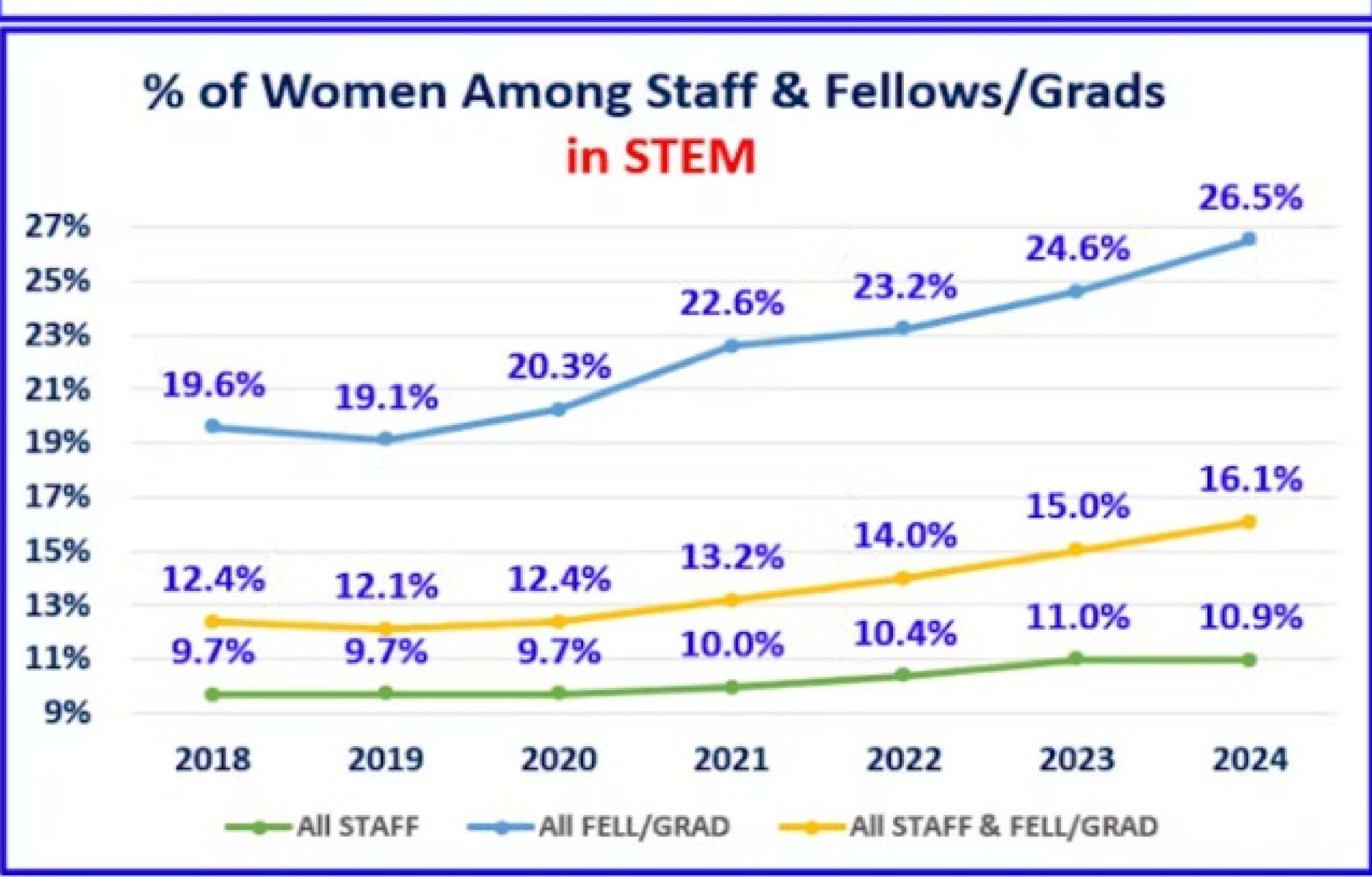


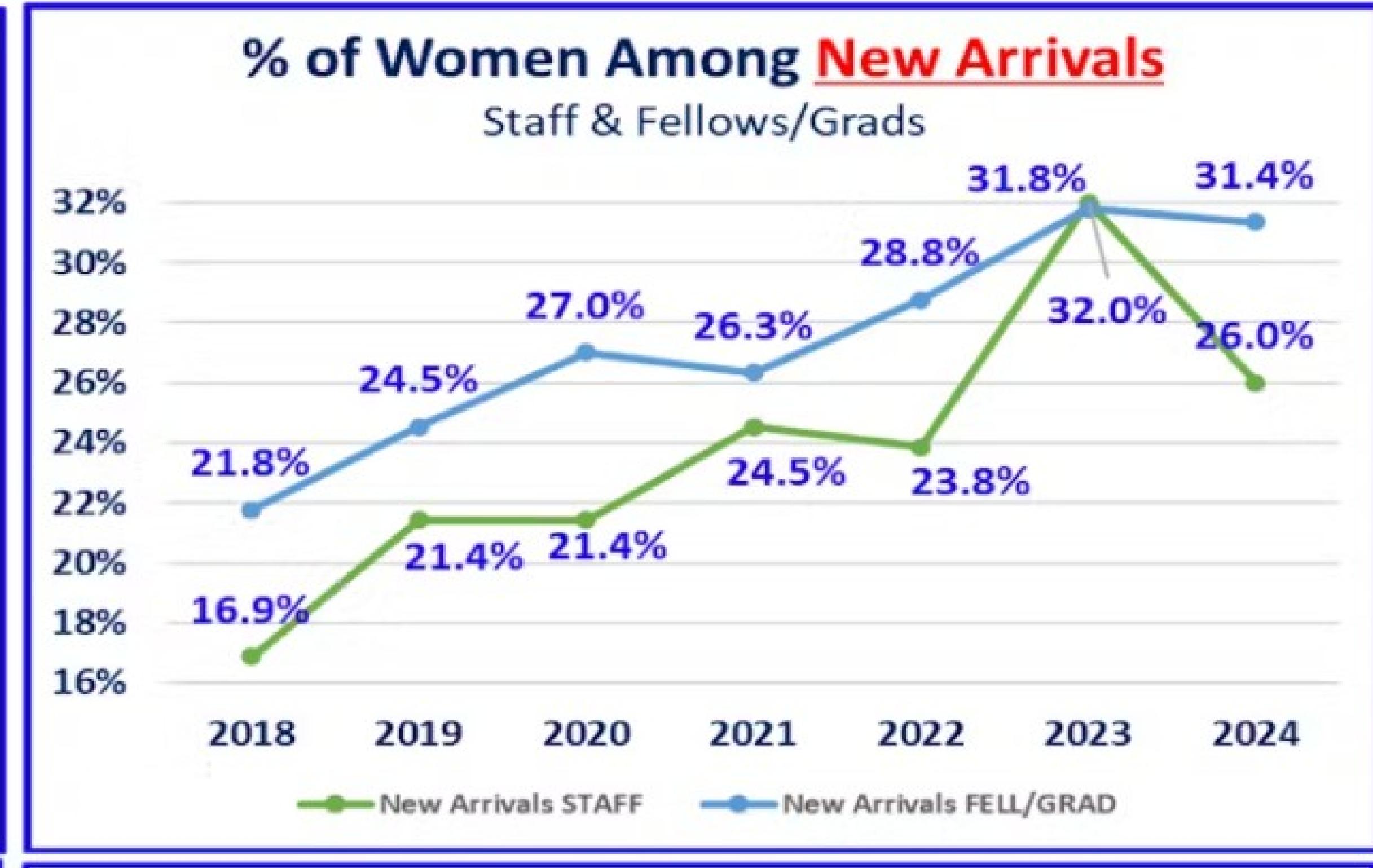
- Developed Nat / Gen Population Dashboards
- Developed Recruitment Dashboard
- Developed Conscious Hiring Dashboard
- Rolled out "Active Bystander" training
- Ensures inclusive Vacancy Notices
- Target sourcing diverse candidates
- Carries out MPE Exit Survey



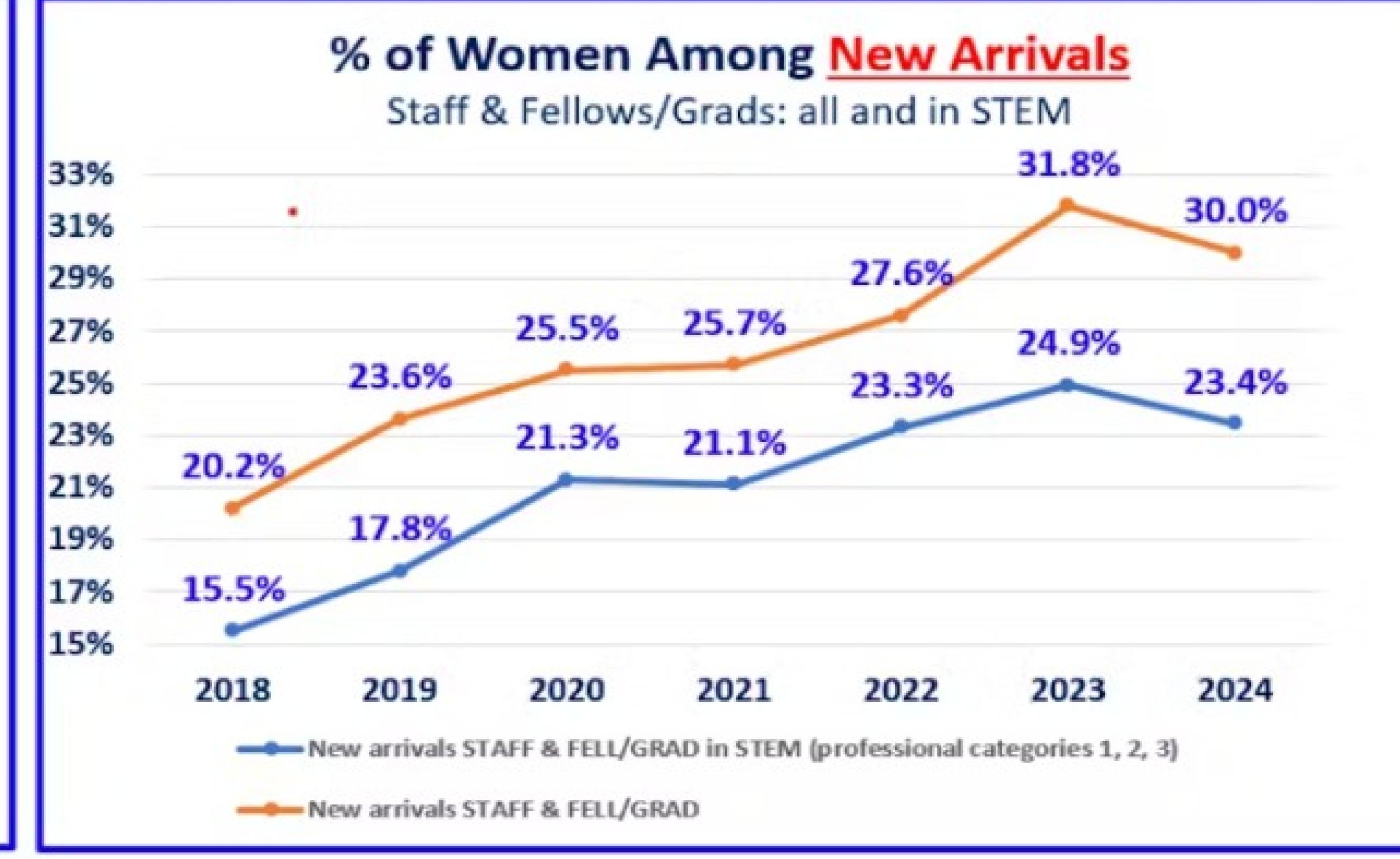
- DIO monthly meetings
- DIOs engage Management Boards
- Publish newsletters & Dept webpages
- Organise newcomer welcome sessions
- Initiate new D&I actions





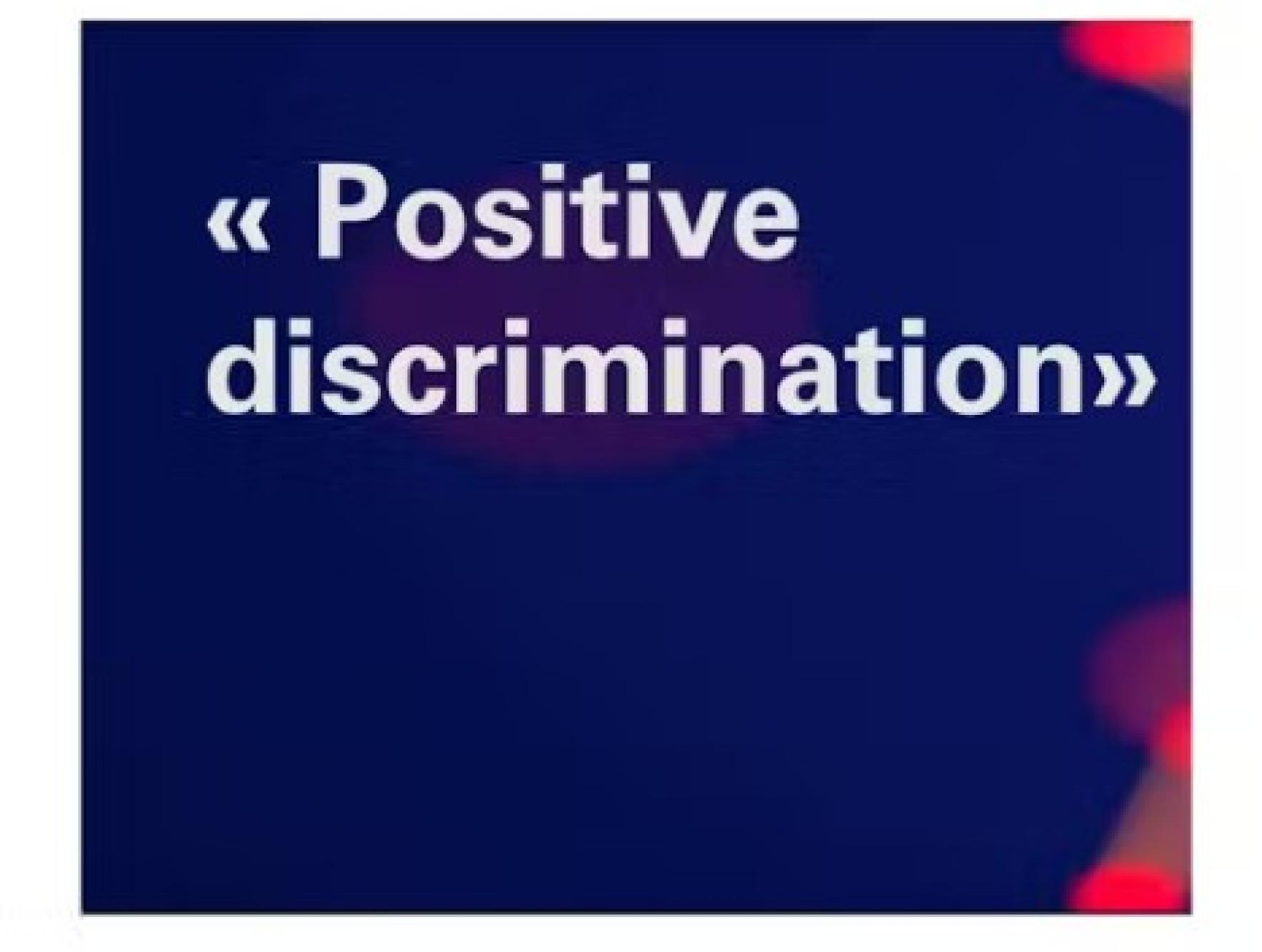


Accelerating diversity at CERN



Source: HRT Dec 2024

# Resistance & Myth Busting



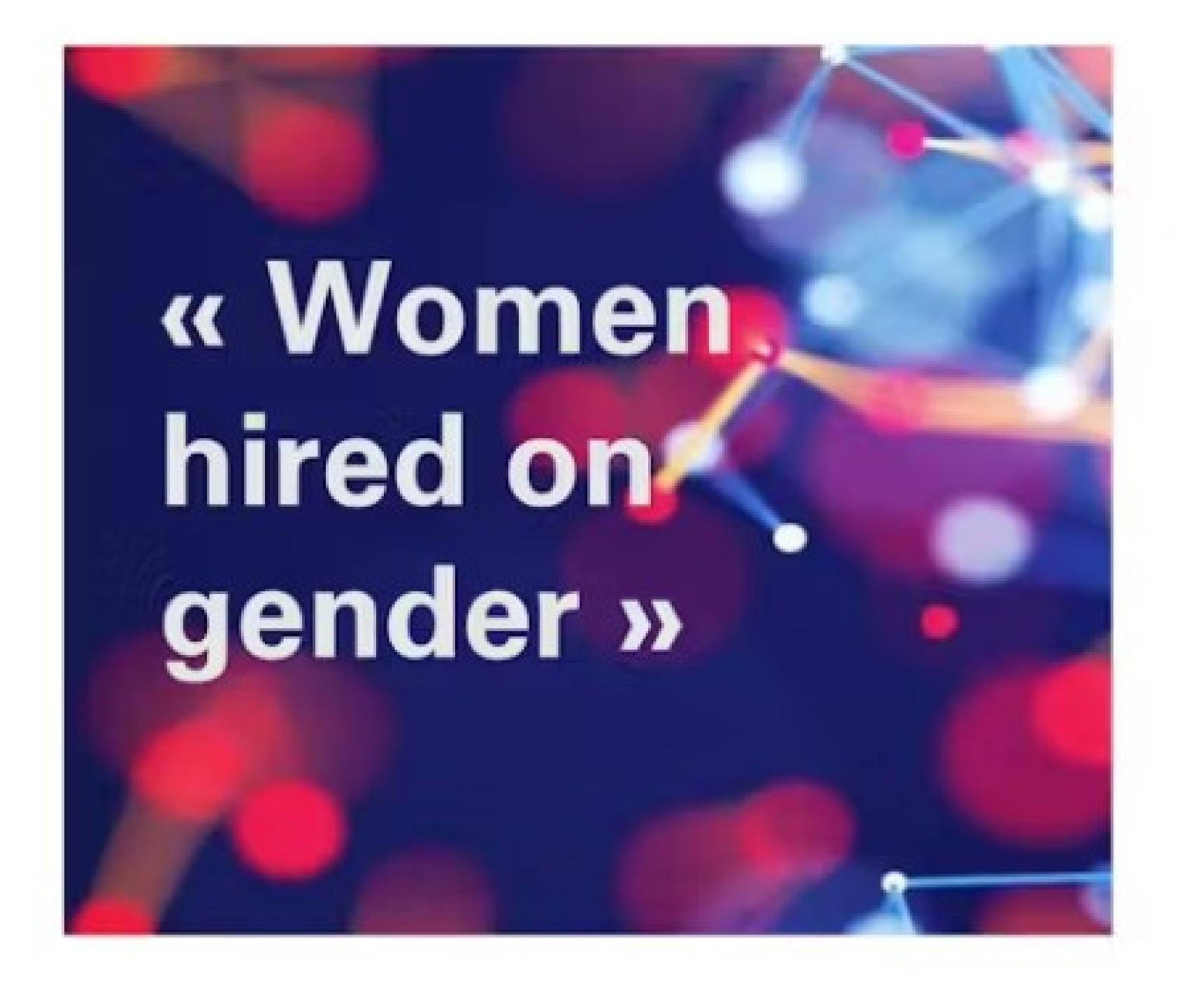
Response:

Eliminating systemic barriers



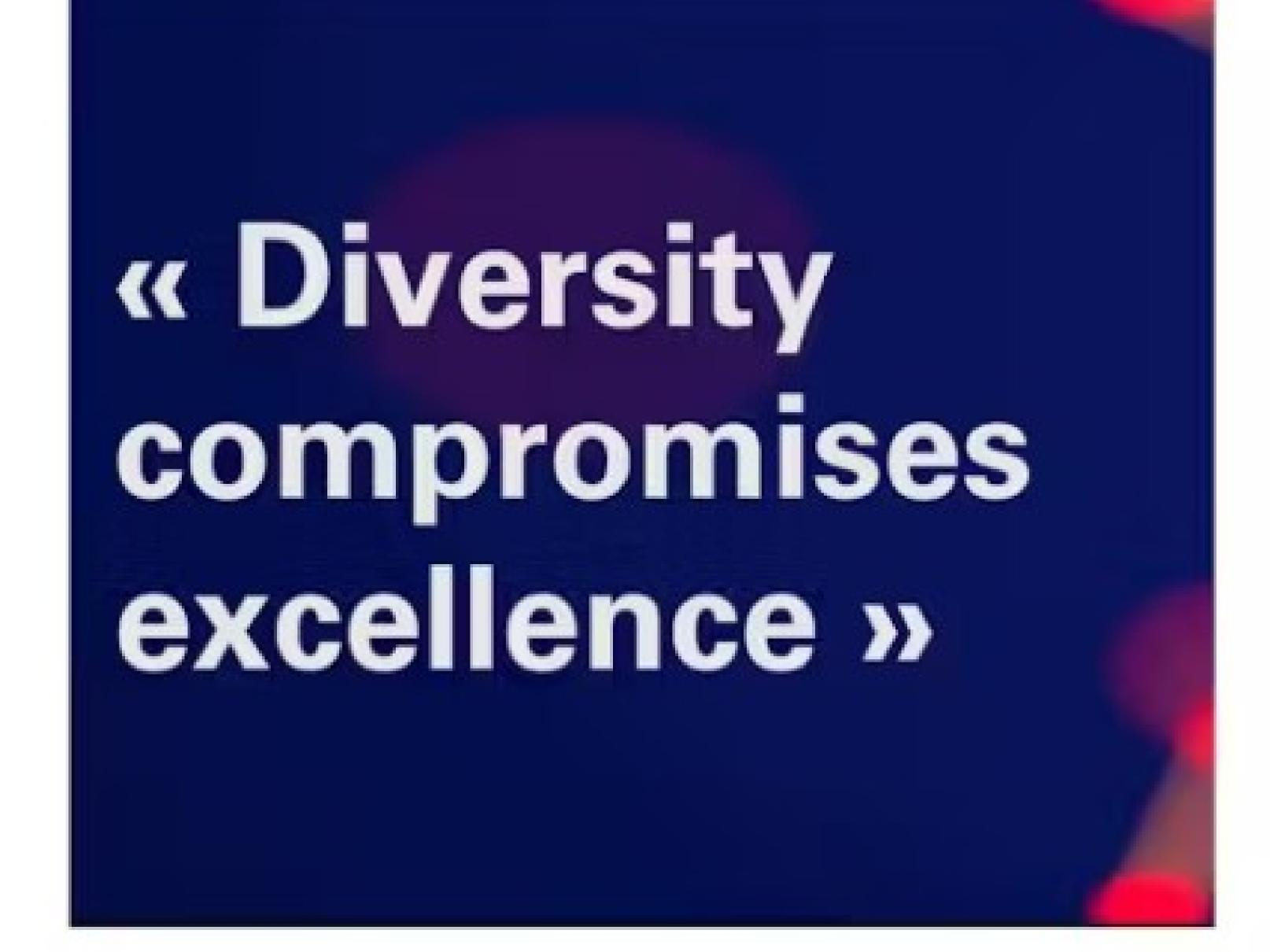
Response:

Target is aspirational



#### Response:

Transforming longstanding bias against women in STEM



#### Response:

Diversity stimulates excellence

## Mentimeter: Invisible Dimensions Poll

Go to: <u>www.menti.com</u>

enter code: 5152 7406

- On-line browsing or internet activity requires the IP address of the device in use
- Participation in a Mentimeter (or similar) on-line poll allows the audience to vote directly via the internet browser using a mobile phone or computer, and to view the results in live-time.
- No log-in, or provision of e-mail address is required to participate.
- Participation is deemed as "pseudonymous" (CERN IT Chief Security officer)
- Choose the questions you wish to answer



Info on pseudonymous personal data here: ICO guidance on pseudonymisation

Mentimeter **privacy policy** here : <a href="https://help.mentimeter.com/en/articles/1937769-terms-of-use-gdpr-and-personal-data-protection-in-mentimeter">https://help.mentimeter.com/en/articles/1937769-terms-of-use-gdpr-and-personal-data-protection-in-mentimeter</a>



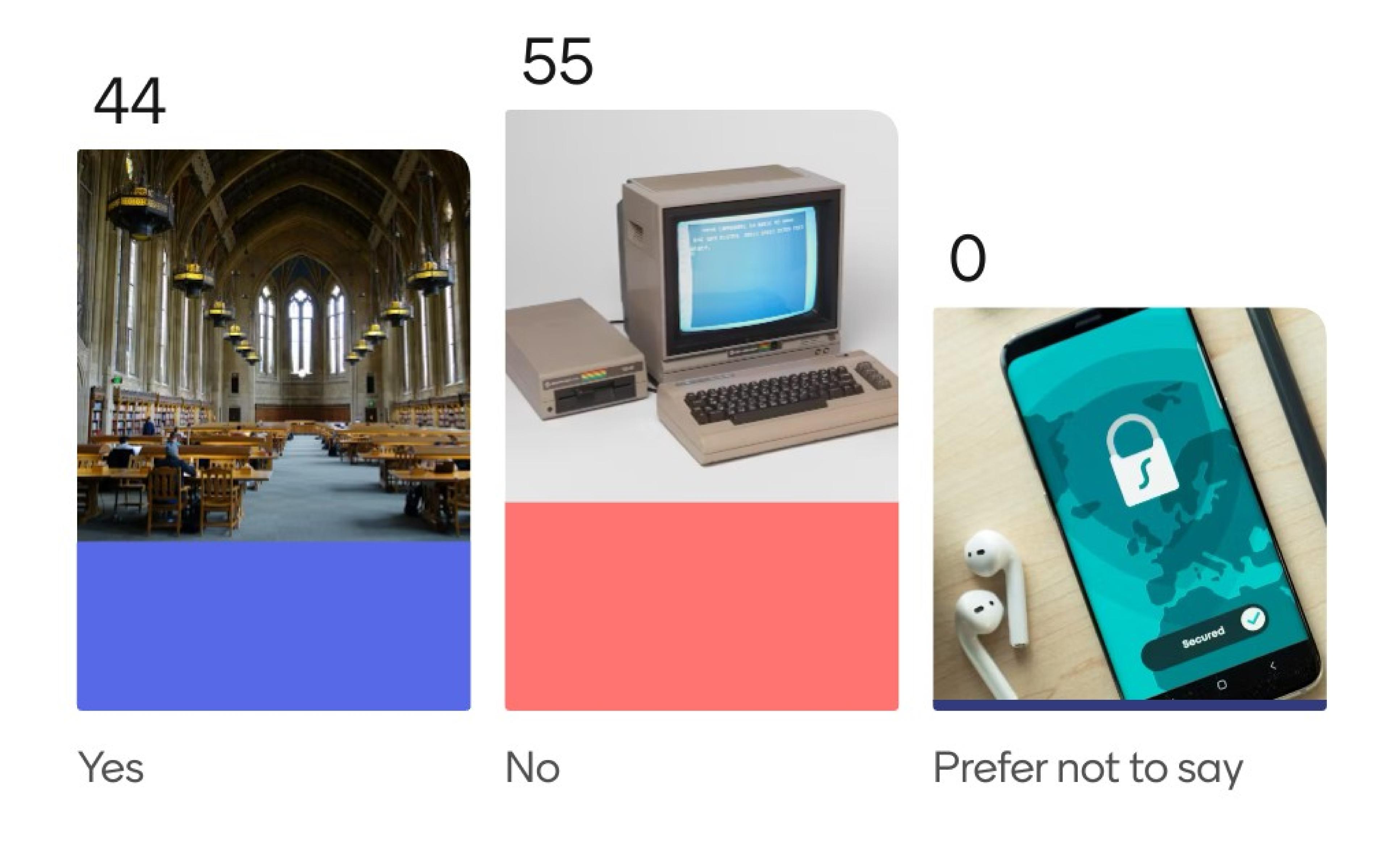
# My native language(s) is / are:

111 responses



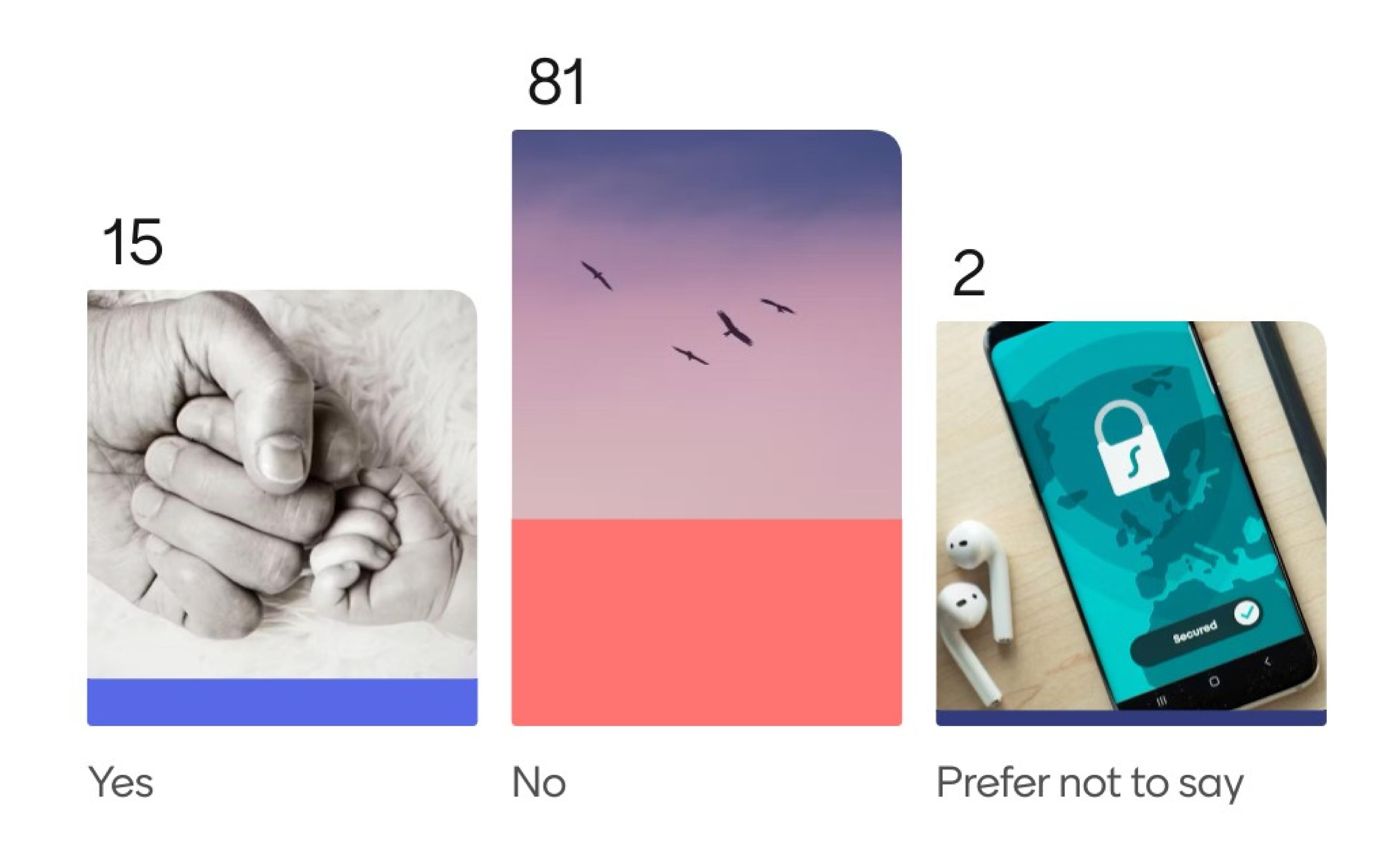


# I am the first generation in my family with an advanced (university) education





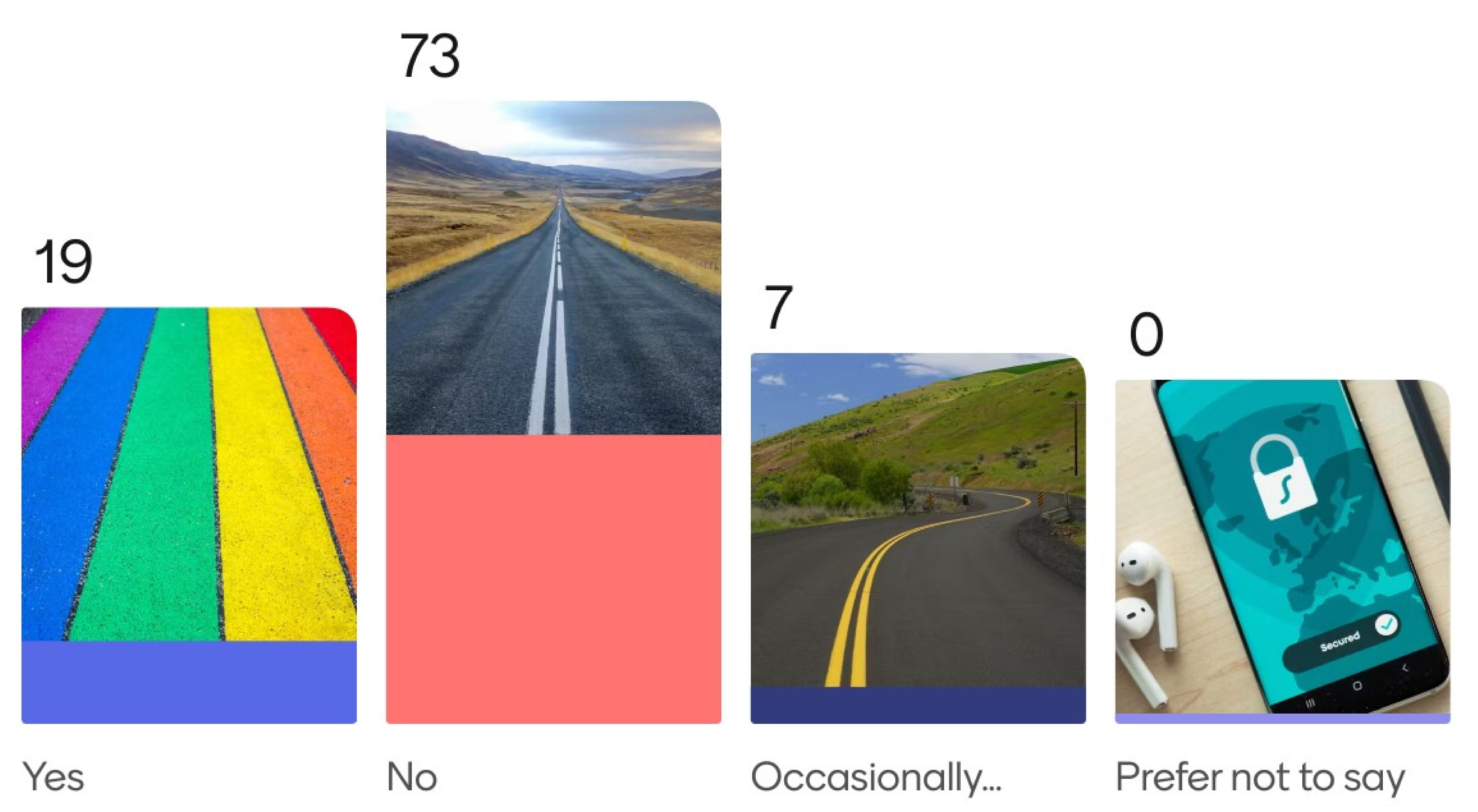
# I am providing (or will provide) **financial assistance** to my parent(s)

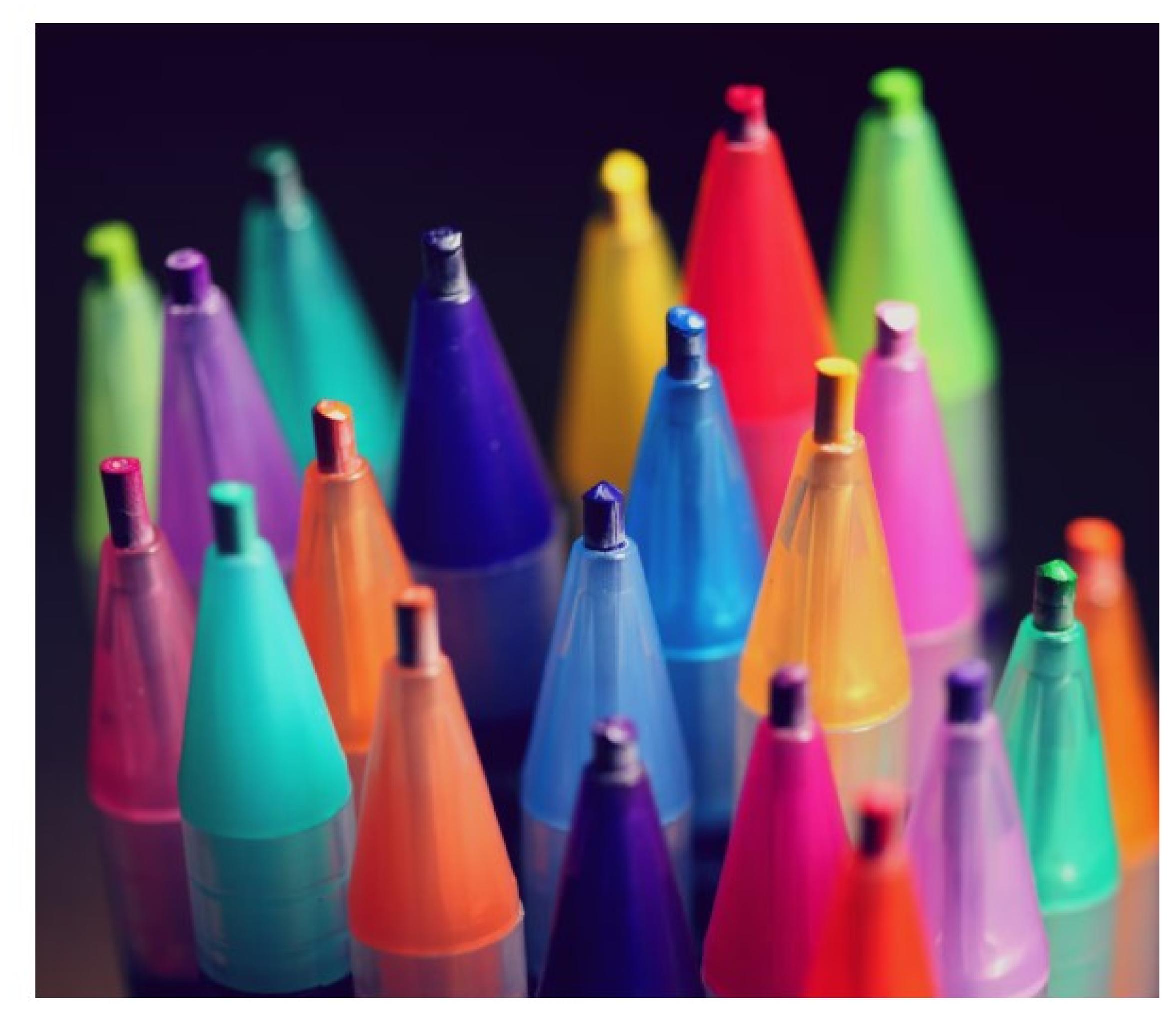




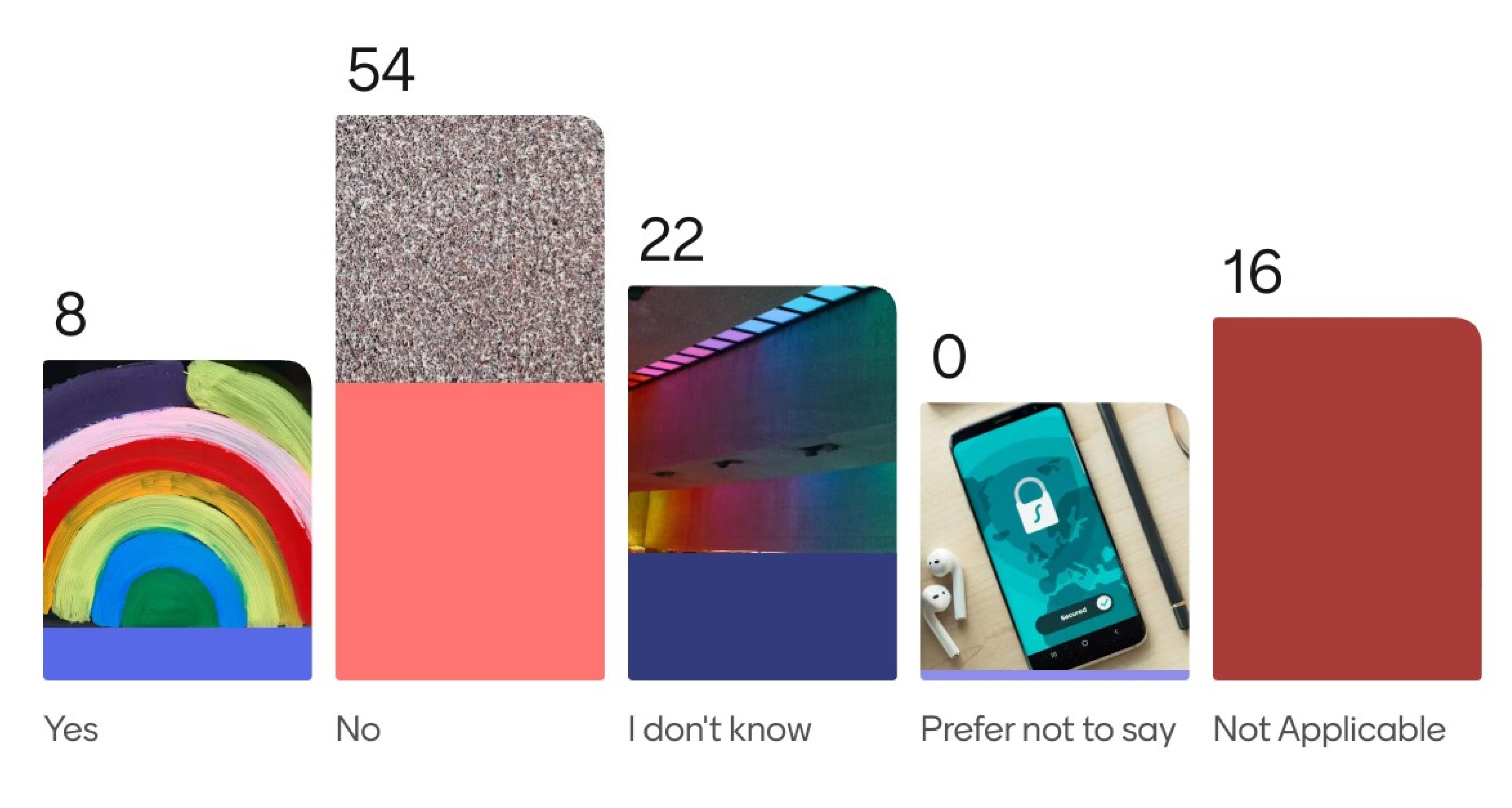


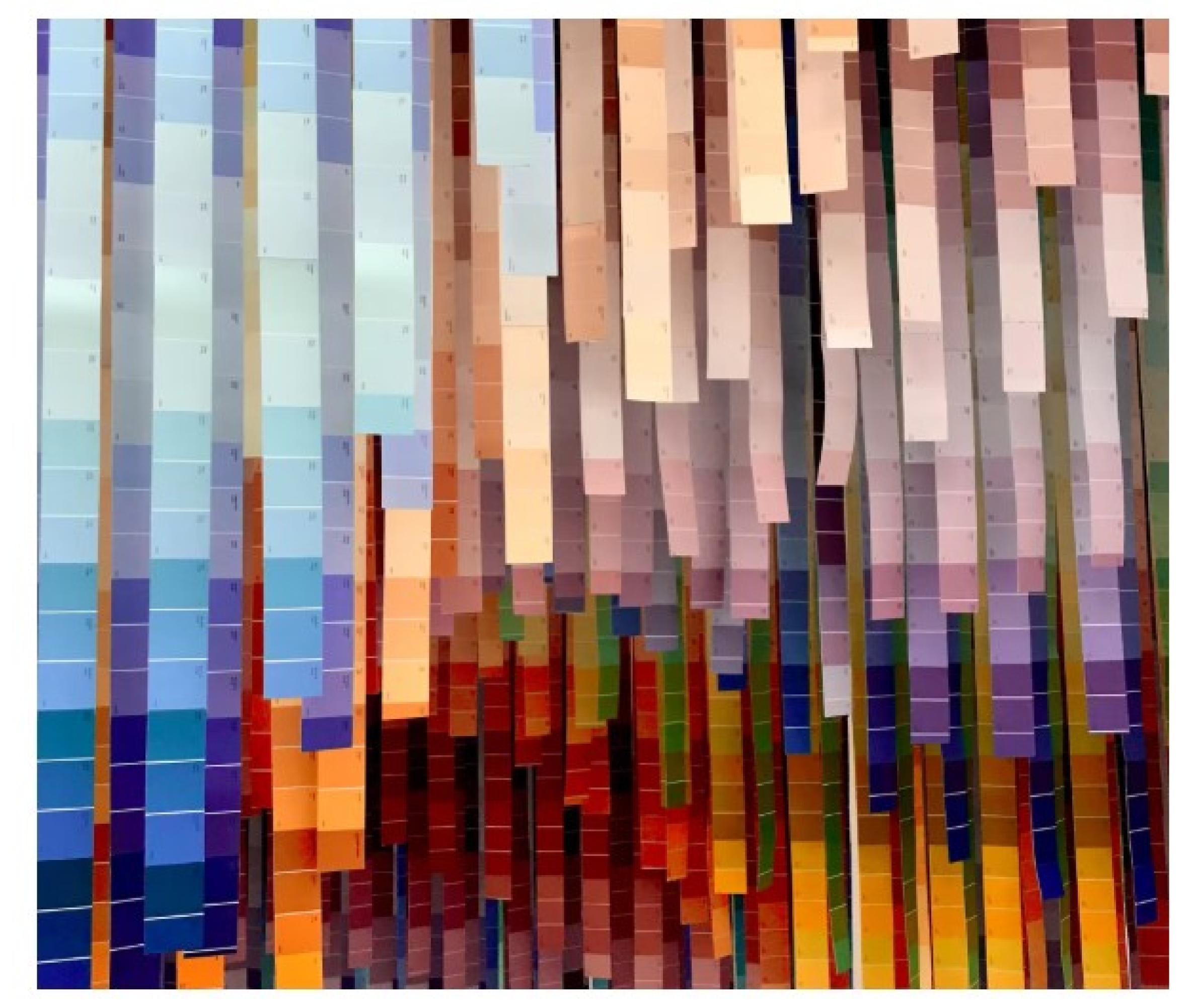
## I identify as LGBTQ+





## My child / sibling identifies as LGBTQ+







# LGBTQ+ in STEM Day, 18 Nov 2023

"My feeling of security, of visibility, of credibility, has greatly improved; it is evident this is the result of shifting priorities and good-willed collaboration...with our network and the other members of the D&I Roundtable"

- Member, LGBTQ Network



#### First time Pride flag raised at CERN

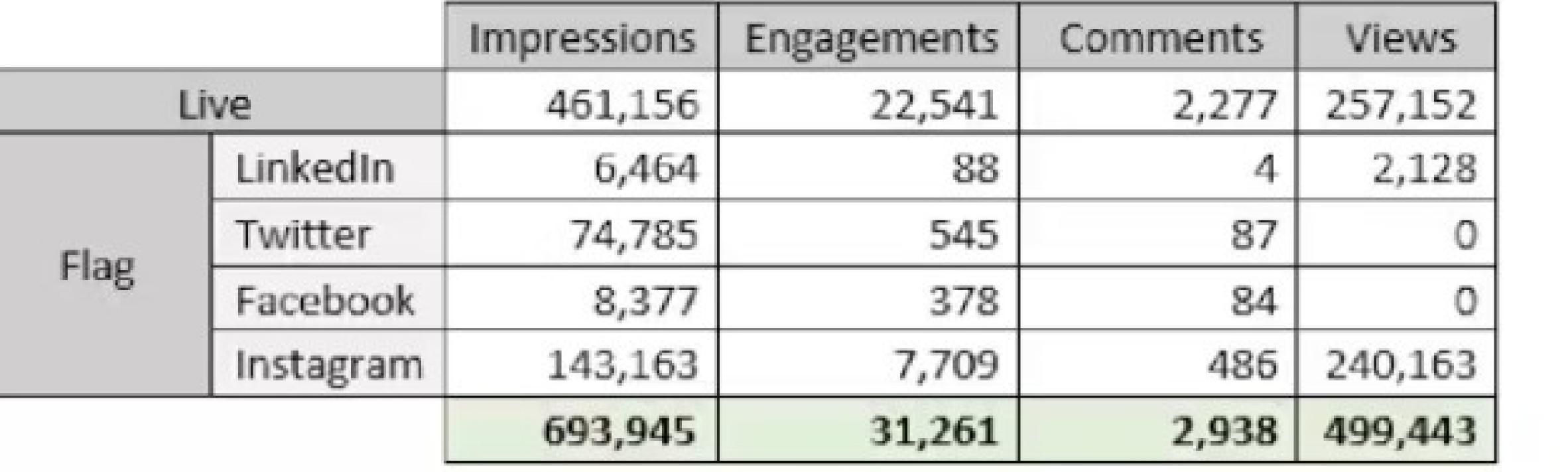
Attended ad personam: Directors, Department Heads, Experiment Spokespersons & Deputy Spokesperson, UNHCR Ambassador, WHO DEI chair, UN Globe, and ~150 personnel



Gender inclusive WC facilities // campus map

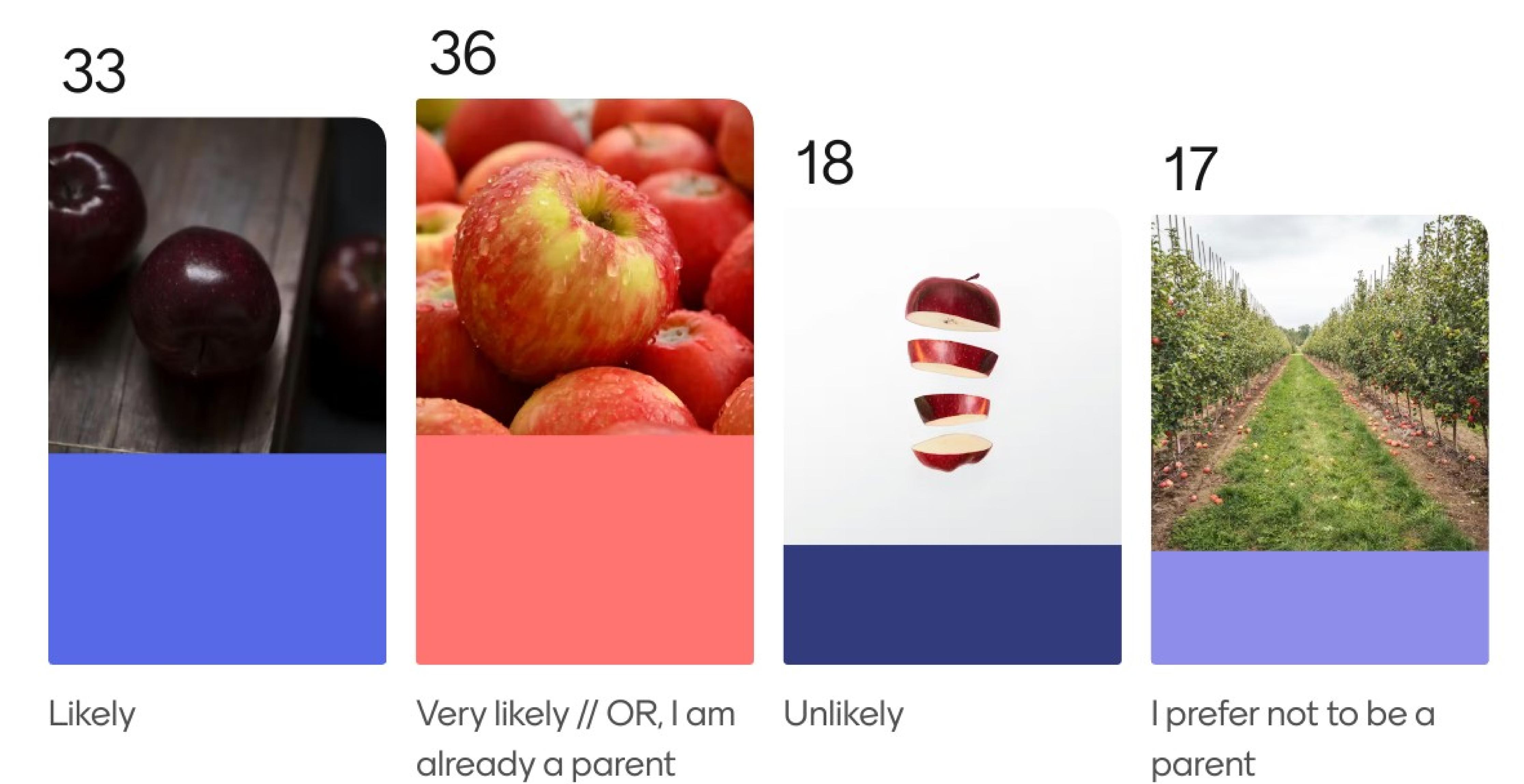
ID	759150
Email	louise.carvalho@cern.ch
First name	Louise Zelia
Last name	Carvalho
Preferred first name	Louise
Preferred last name	
Pronouns	She / Her

CERN Phonebook: pronouns





# I see myself being a parent as:





# I have **neurodivergent** cognitive processing (e.g. Autism, ADHD, Dyslexia, Dyspraxia etc)





My spouse / partner, sibling, or child has / have **neurodivergent** cognitive processing (e.g. Autism, ADHD, Dyslexia, Dyspraxia)





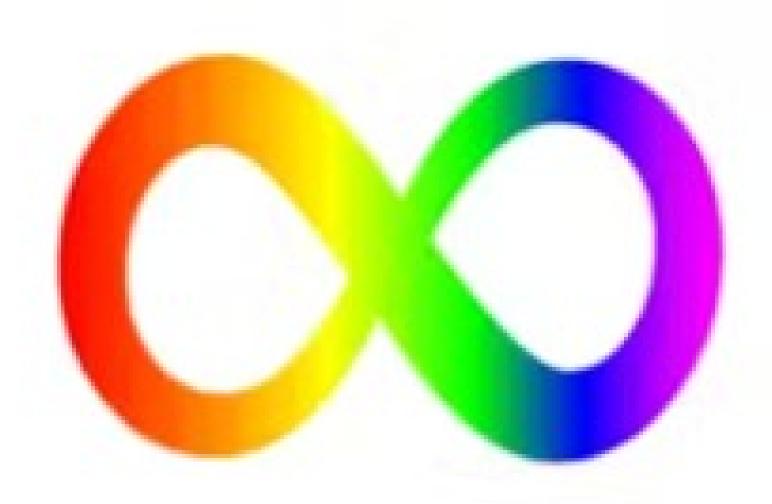
# "SNAC": Supporting Neurodiversity at CERM "

#### Learning

- Intro to Neurodiversity Webinar for CERN personnel: > 200 participants
- ND 1 day Webinar for SNAC members

#### Networking

- SNAC «Walkie-Talkie»
- Informal sharing among members

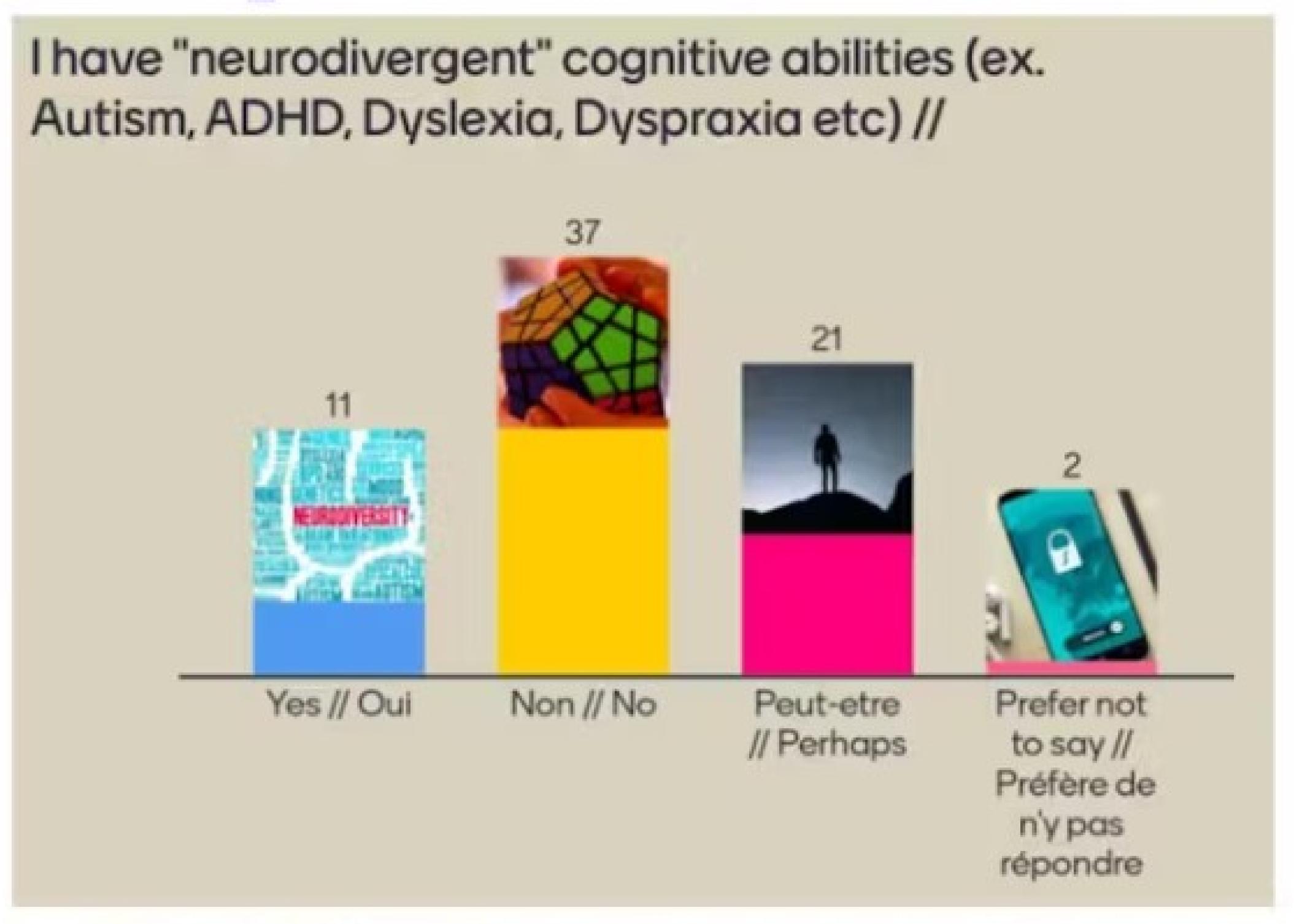


#### Resources

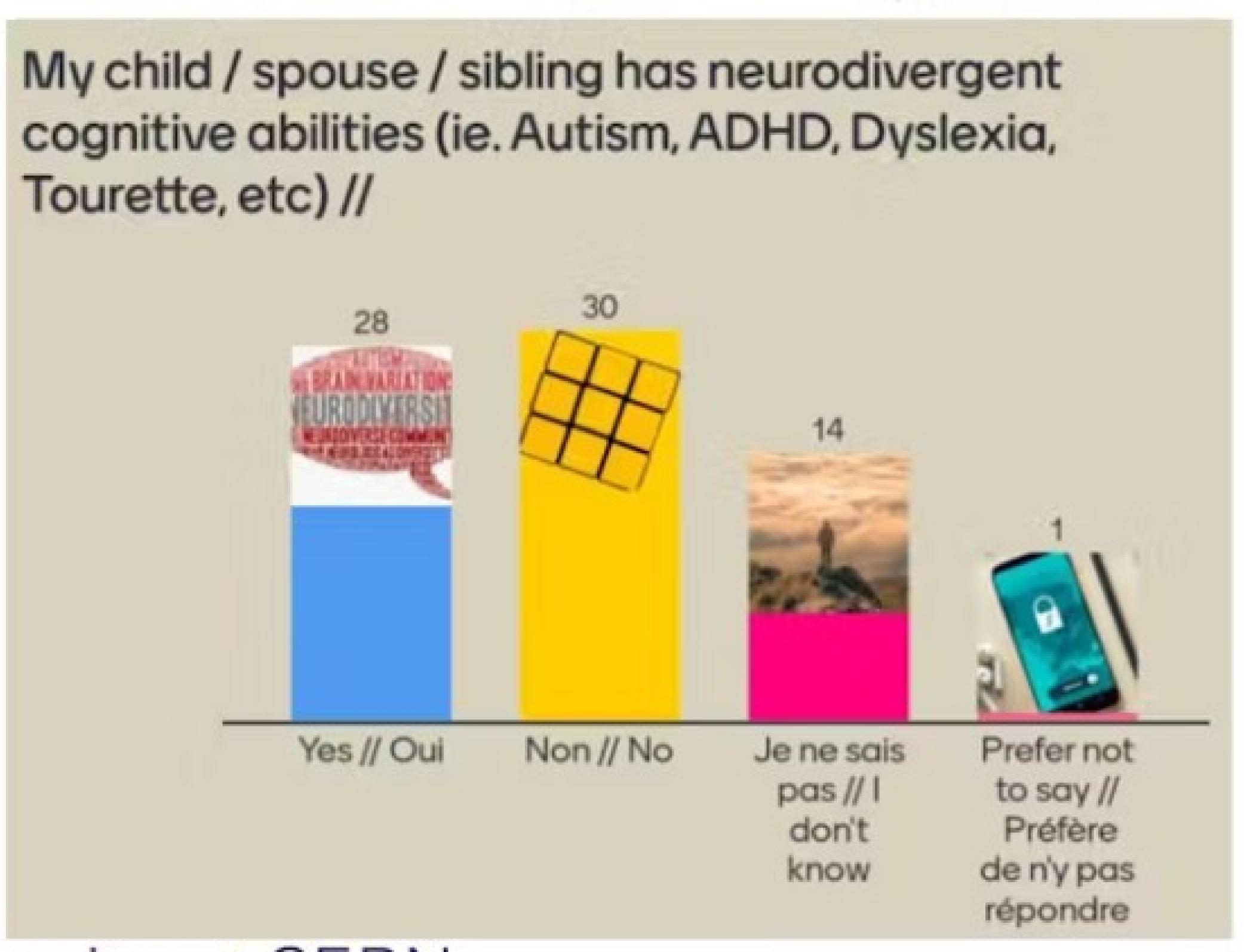
- SNAC Confluence page
- «Inclusion Needs» Document (WIP)
- CERN library
- Newsletter D&I Subscribers



«cocoon chair»
CERN library



Results: CERN STEM Department



click here for more: SNAC Network - Supporting Neurodiversity at CERN



# How can I support neurodiversity inclusion ?

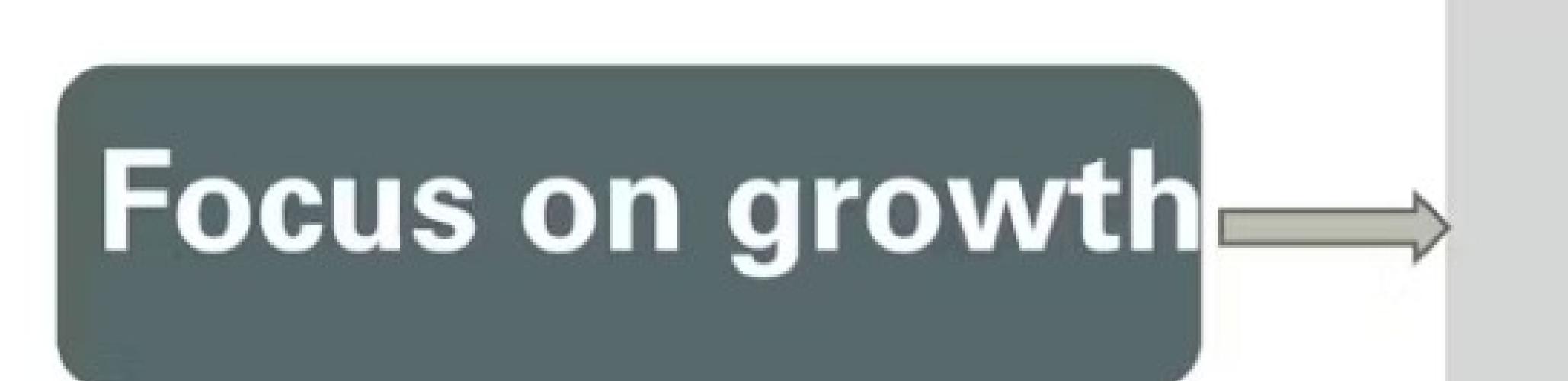


- Provide tasks in written form, instead of verbal
- Send agenda & discussion questions minimum 24hrs ahead
- Use clear, direct, unambiguous instructions

#### Typical strengths:

- Memory
- Innovative thinking
- Attention to detail
- Entrepreneur mindset
- Creativity
- Visual Reasoning
- Pattern recognition
- Time keeping
- 3D thinking
- Seeing the big picture
- Structured analysis

15-20% of the general population are neurodivergent



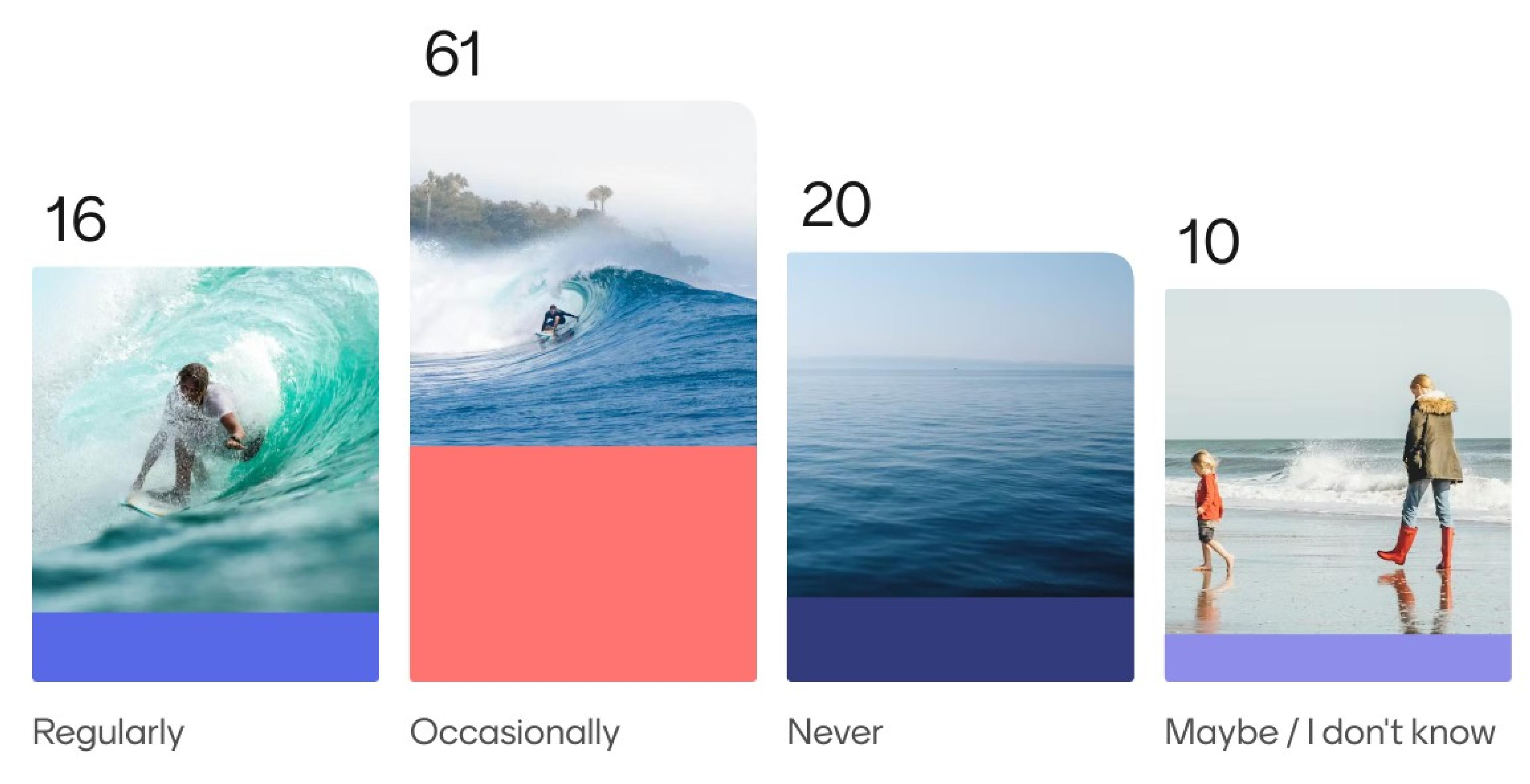
- Make clear you value learning & growth over perfection
- Avoid shaming people for mistakes
- Focus on strengths

Read: What is Neurodivergent Masking & Why do Professionals do it?

Source: Amanda Kirby, «Neurodiversity at Work» & Pearn Kandola: Webinar delivered to CERN, Nov 2023

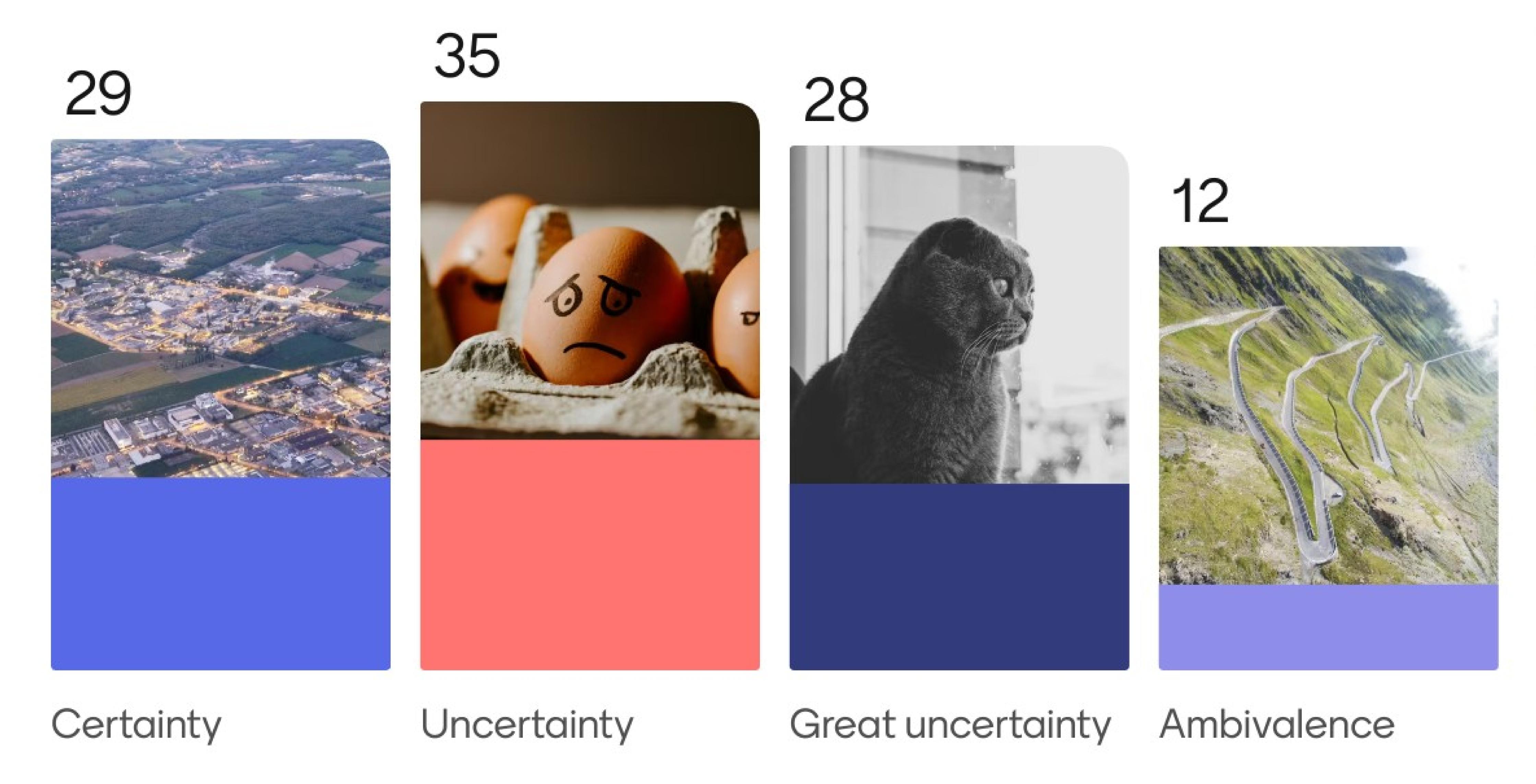


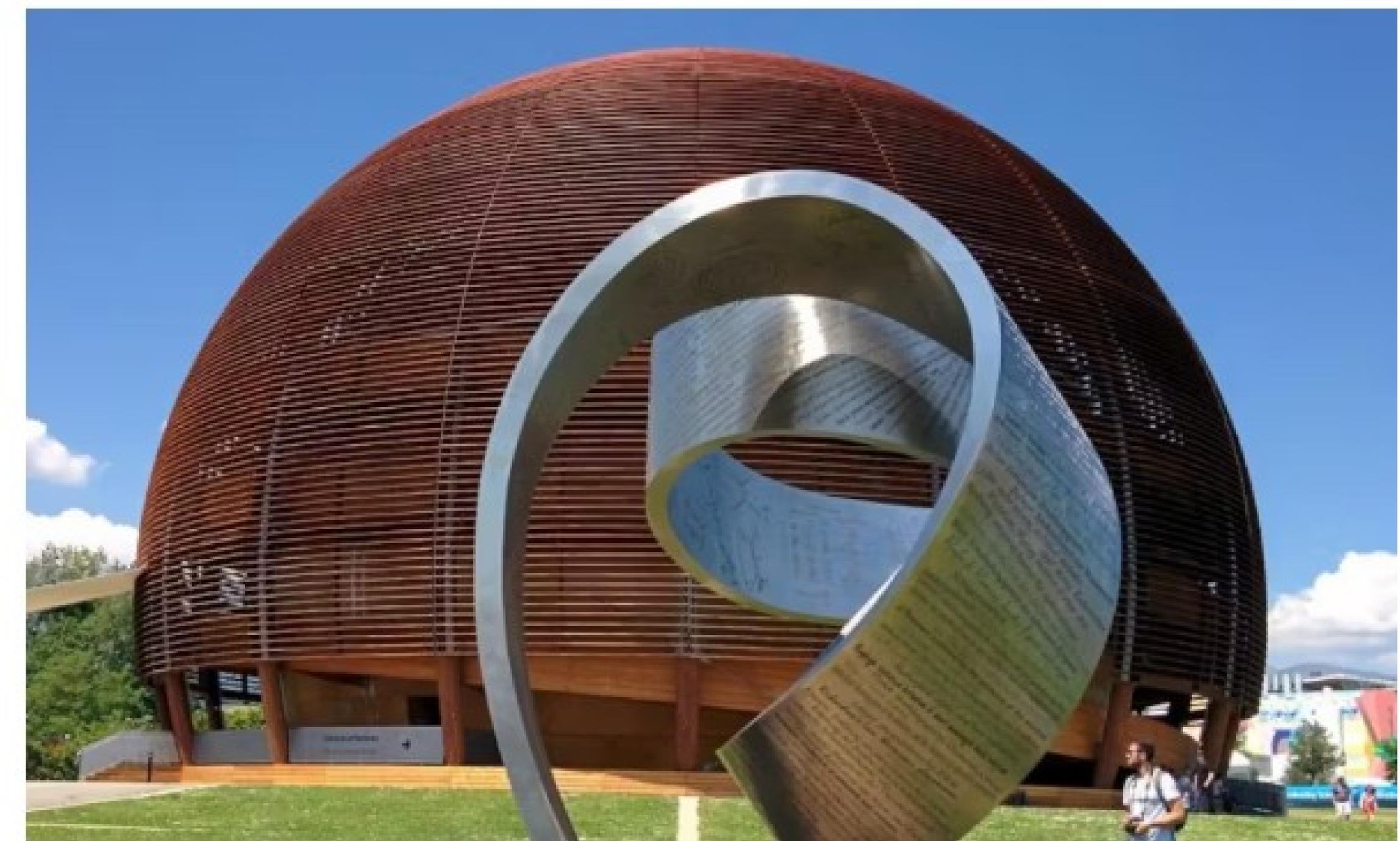
I experience one or more of the following: Anxiety, Panic attacks, Migraine, Depression, Hypersensitivity (HSP), difficult peri/menopause symptoms





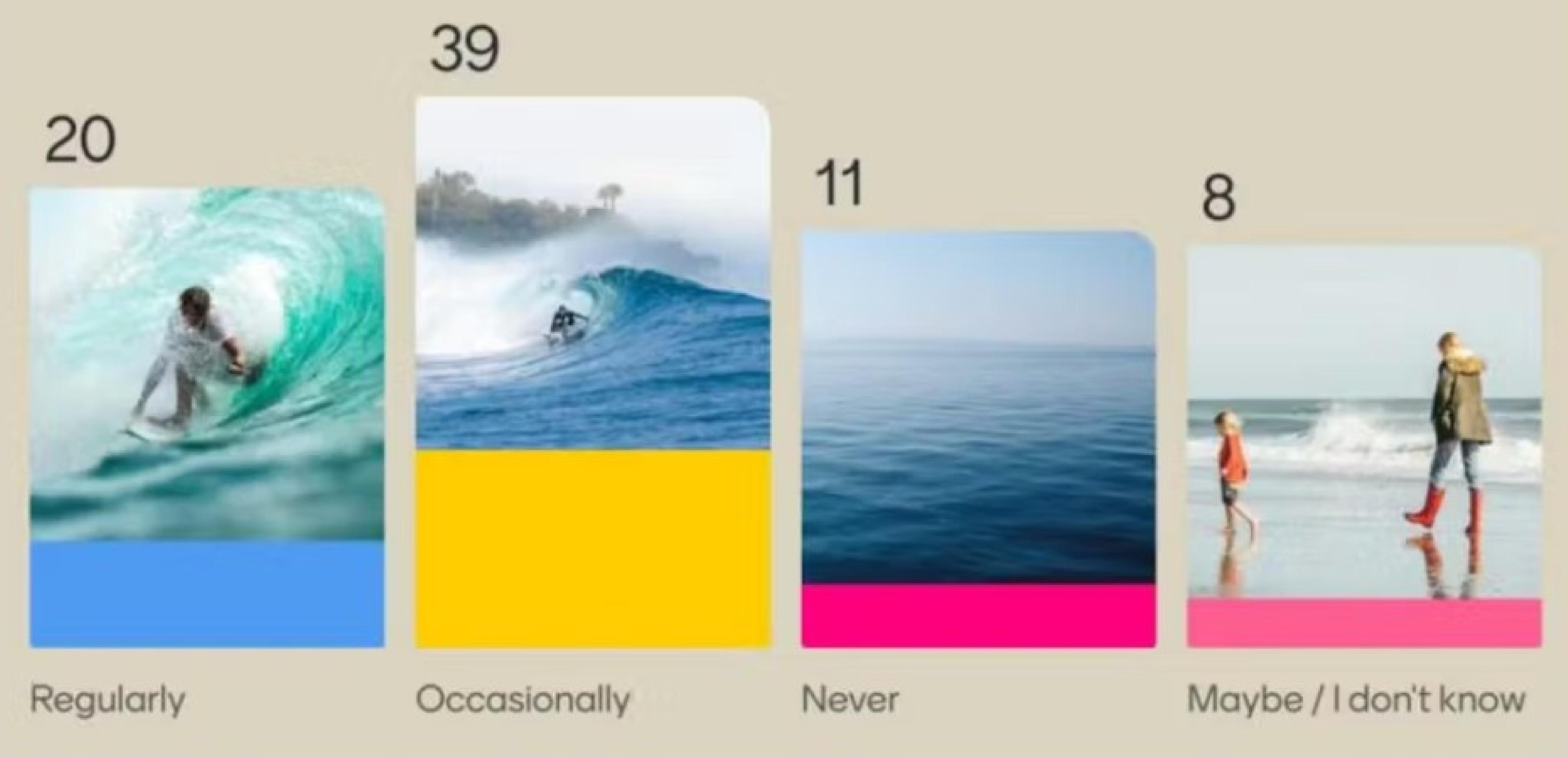
# Concerning my **professional future**, I have a sense of:



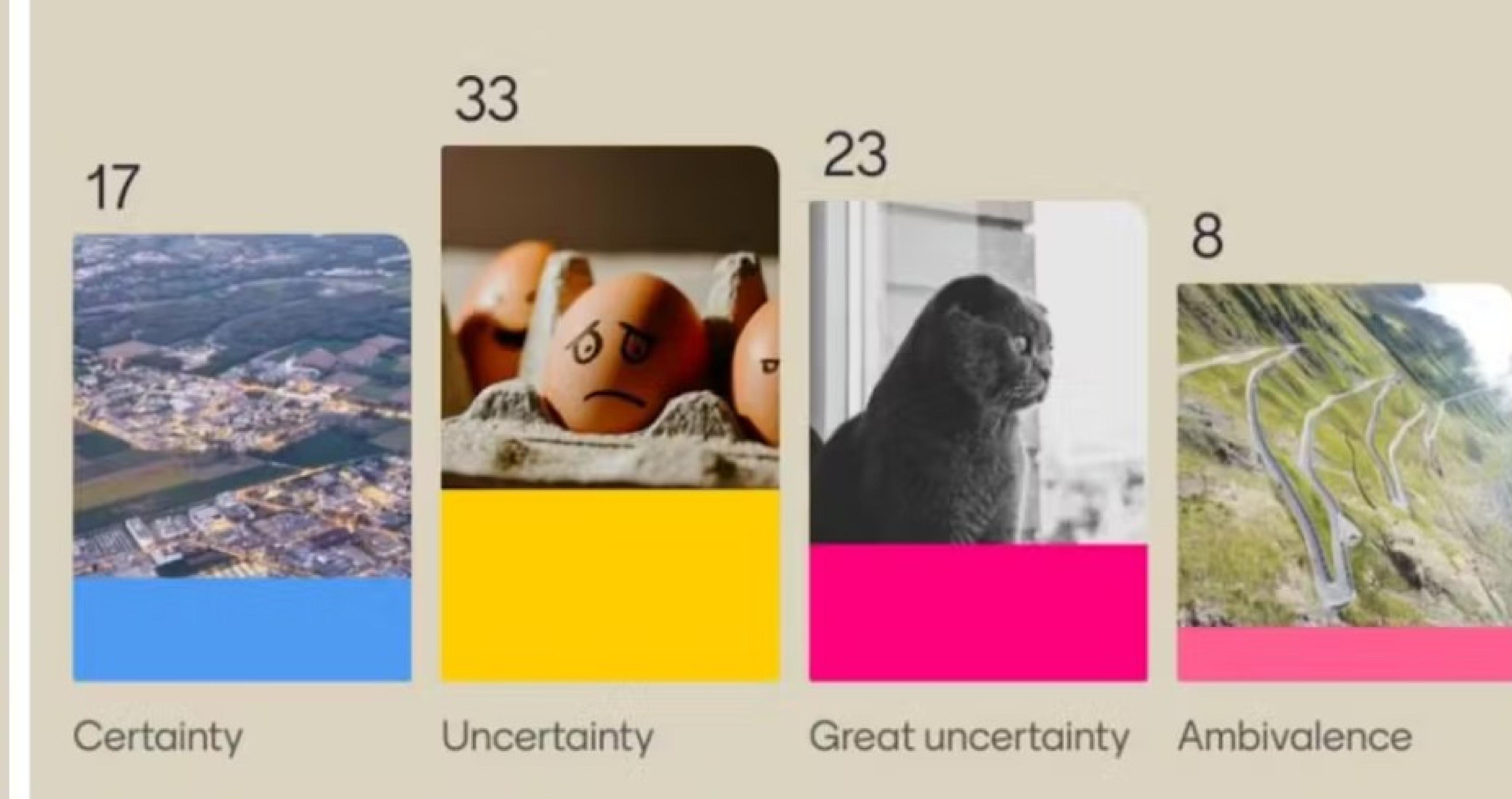


# Invisible Dimensions Poll Results: CERN Experiment – Sept 2004

I experience one or more of the following: Anxiety, Panic Attacks, Migraine, Depression, Hypersensitivity (HSP), difficult Menopause symptoms

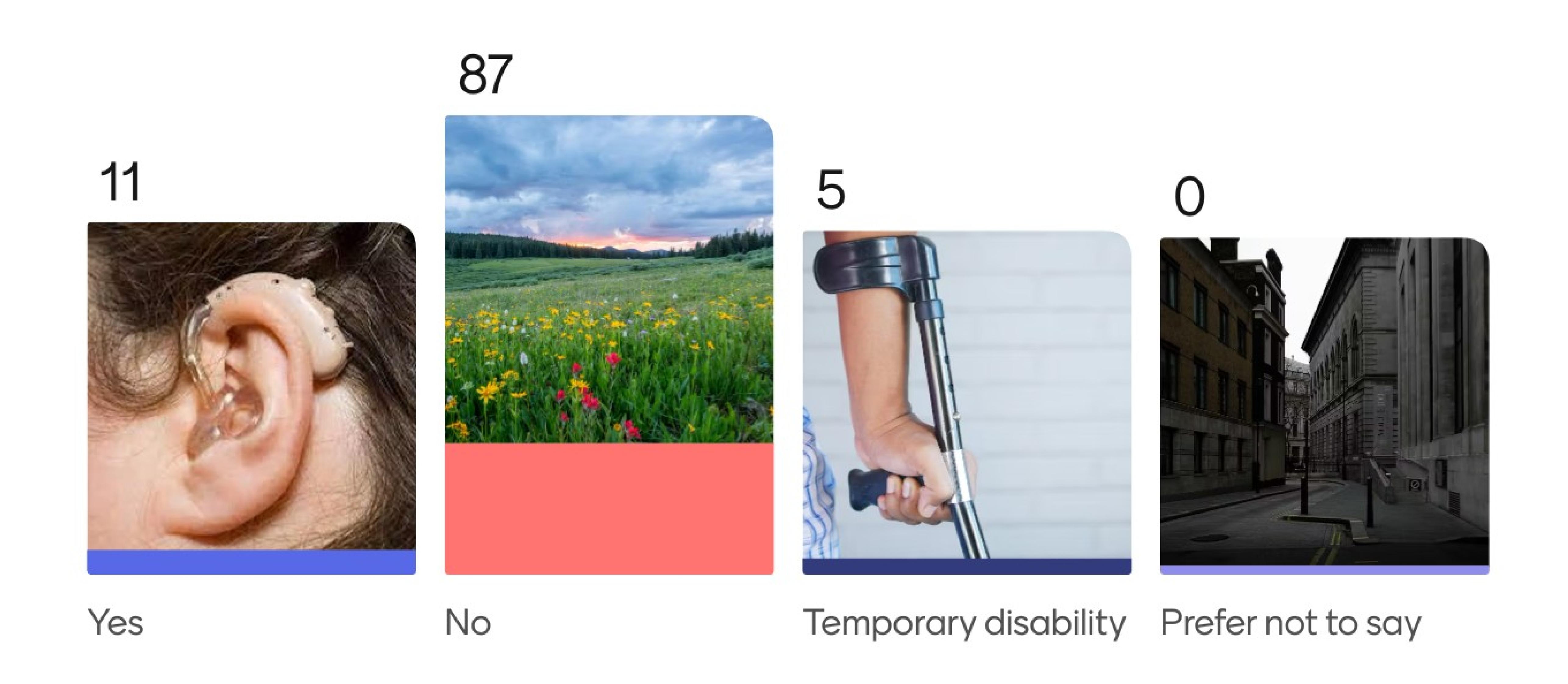


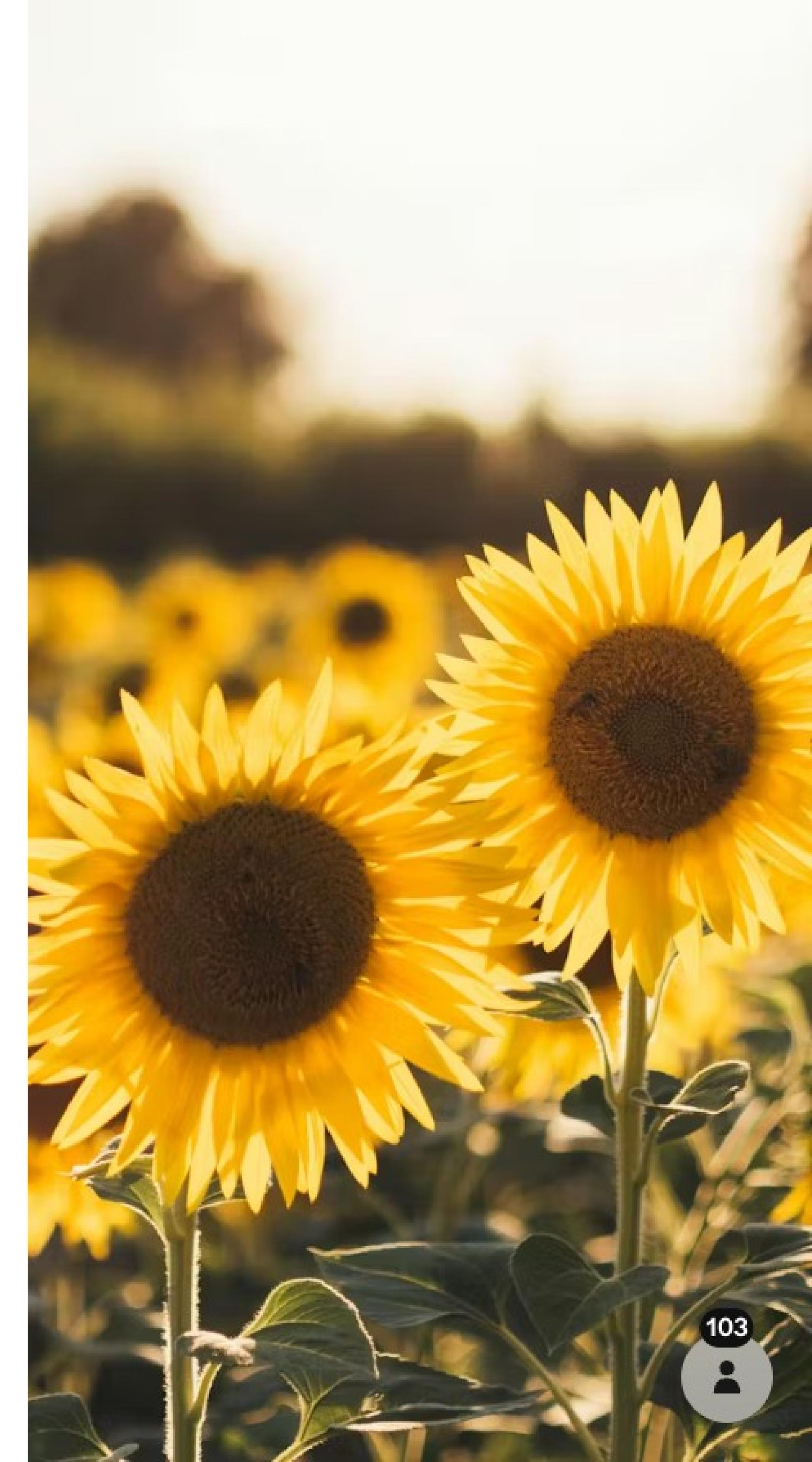
Concerning my **professional future**, I have a sense of:



Note: visual impairment = 20/200 even with corrective lenses

I have a **disability or impairment**, for example: Physical (visible, invisible), Sensory (eg. hearing, visual), Eating Disorder





# My dietary practice is:





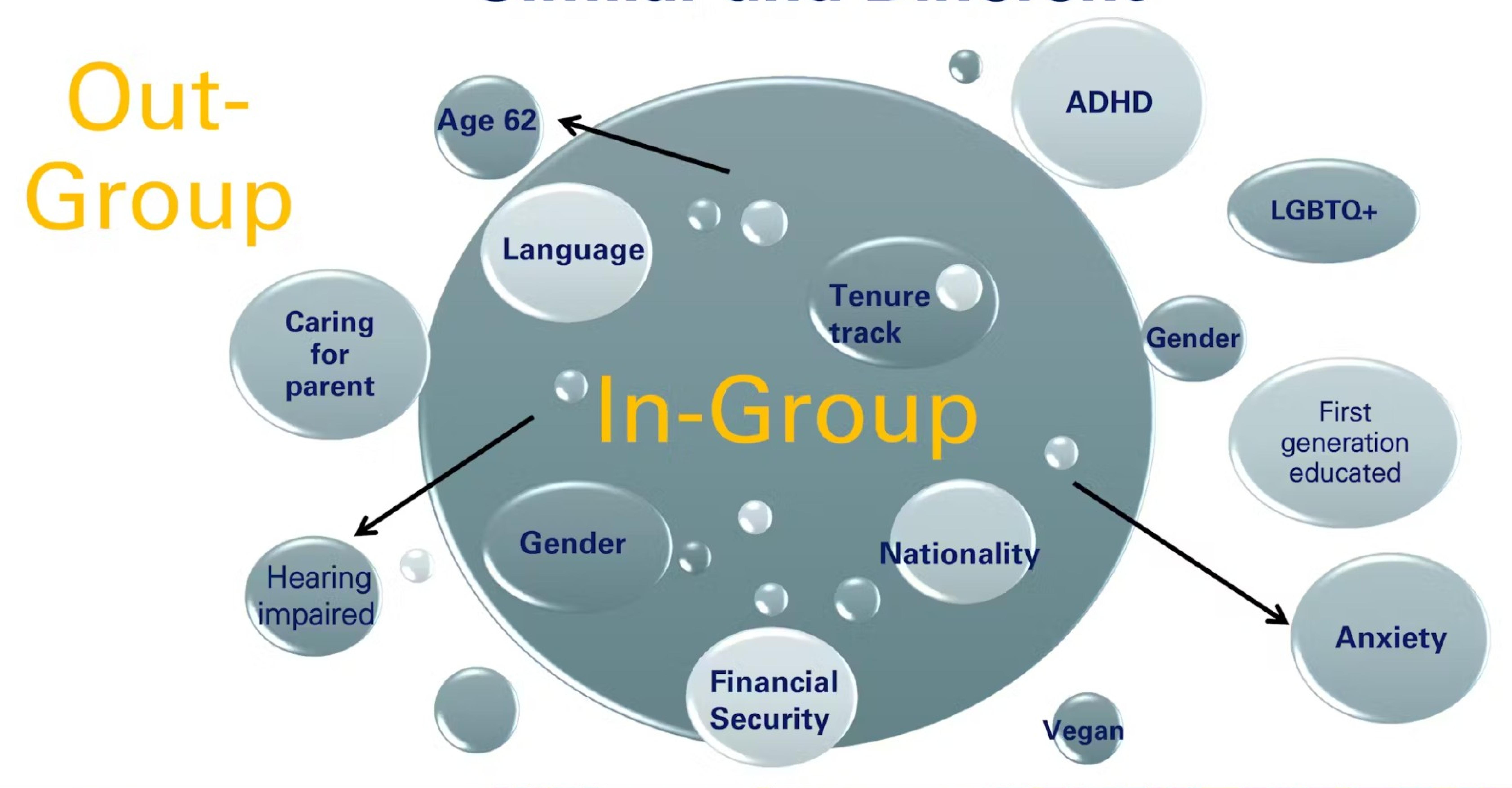




3 minutes



## Similar and Different



# (re)defining Excellence...



Consider not only a diverse candidate's individual potential... but the potential for excellence of a diverse team.



CERN Code of Conduct

extras

# Recommended Reading (& listening)

# Celebrate the Small Wins - by Dekker

Smo

Dekker - Small Wins (Lyric Video)

- The Neurodiversity Edge, by Maureen Dunne
- Neurodiversity at Work, by Theo Smith & Amanda Kirby
- Inclusion Revolution, by Daisy Auger-Dominguez
- · Career and Family, by Claudia Golding
- The Highly Sensitive Person, by Elaine N Aron
- · Culture Map: Decoding How People Think, Lead, and Get things Done Across Cultures, by Erin Meyer
- The Inclusion Nudges Guidebook, ed. 2020, by Lisa Kepinski, Lisa and Tinna C Nielsen
- The Authority Gap, by Mary Ann Sieghart
- Neuroscience of Prejudice and Intergroup Relations, by Derks, Belle, and al.
- Performance through Diversity and Inclusion, by Ruth Bernstein and al.



- Visit CERN's Science Gateway @ https://visit.cern/
- Inaugurated: 7 October 2023
- Number of visitors to date: >500,000

#### Contact us:



diversity.inclusion@cern.ch



D&I homepage