What's it like? Workplace experiences across gender, disability, ethnicity, sexuality in the space sector.

THE GLOBAL INSTITUTE FOR WOMEN'S LEADERSHIP

At the Australian National University



Australian National University

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# About the research

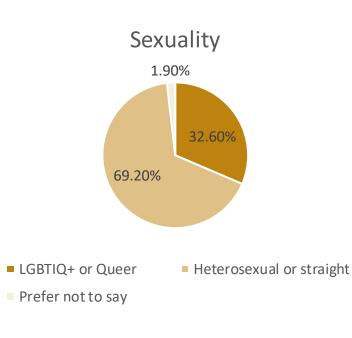
- Interviews (n=32 globally)
- •Online Survey (n=161 globally)
- •Survey at *Diversity at the Frontiers conference* (n=73 mostly Australian)
- •3 Expert Workshops held in Australia (n=45 – mostly Australian)

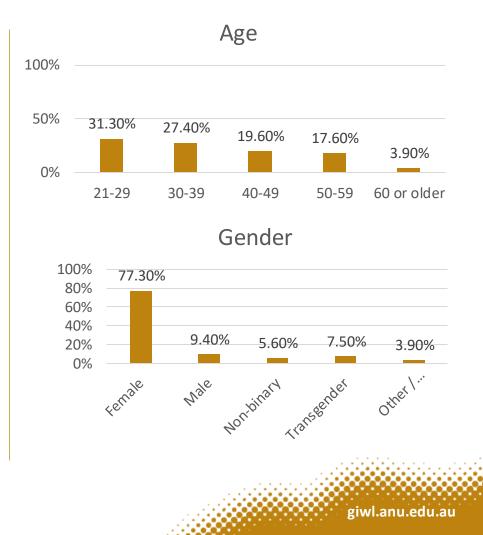


Dr Cassandra Steer, ACT Chief Minister Andrew Barr, Australia's Ambassador for Gender Equality, Stephanie Copus-Campbell, US Space Force's Gender Advisor, Lt Col Kristen Clark, First Nations space PhD, Caroline Craven, GIWL Deputy Director Dr Elise Stephenson, GIWL Director Prof Michelle Ryan.

#### Participant demographics so far

For online survey and interviews (n=51-53)





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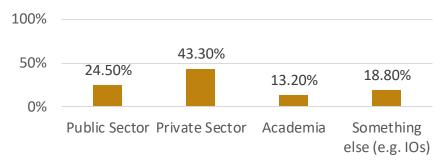
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Geographic spread



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Part of the space sector



Employment



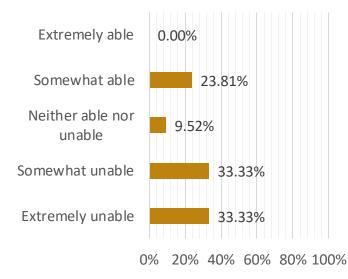
#### Top concerns

- Pay inequality; covert/hidden forms of discrimination; "token" gestures
- 2. Under-representation in leadership (vertical segregation)
- Harassment, bullying and abuse; inadequate policies (parental leave, gender affirmation, etc.)
- Under-representation in different fields (horizontal segregation); lack of accessibility
- 5. Under-representation in general; overt discrimination
- 6. Missions not designed for diverse people
- 7. Spacesuits or other uniforms/protective material not designed for diverse bodies
- 8. Language

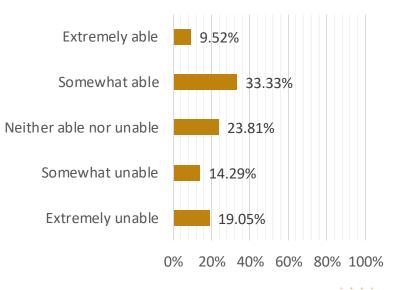
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## **Ability to tackle concerns**

How able do you feel to tackle these issues?



#### How able do you feel your organisation is to tackle these issues?

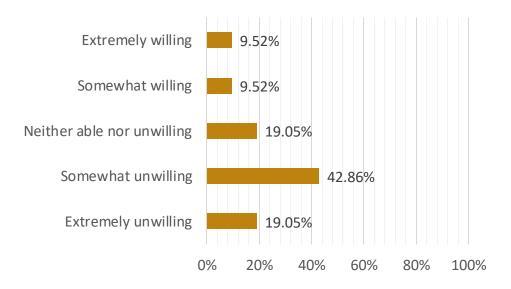


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## Willingness to tackle concerns

How willing do you feel your organisation is to tackle these issues?



62% believe their organisation is unwilling to tackle their diversity, inclusion, accessibility and equity concerns in the space sector

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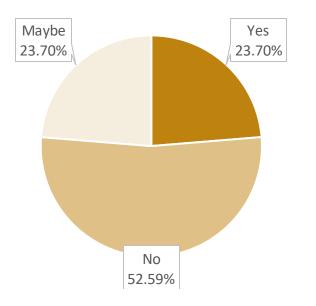
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#### Have you experienced any of the following in the last 12 months...

Bullying 28.58% Ageism 42.85% Ableism 52.38% Homophobia, biphobia or... 33.40% Sexism 47.62% Racism 9.52% Harassment or abuse 33.40% Covert discrimination 90.48% Overt discrimination 33.34% 0% 20% 40% 60% 80% 100%

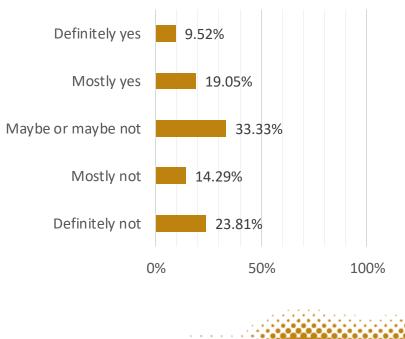
% of participants who responded "Probably yes" or "Definitely yes"

#### Did you feel you were able to get support from your organisation?



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Do you feel you are able to influence your organisation to make improvements in diversity, equality, accessibility and inclusion?



### Top priorities

- 1. Better leadership
- Better organisational commitments and vocal support; More support for individuals; Better funding for underrepresented groups
- 3. More research on under-represented or minoritised groups in the space sector
- More support for industry or government to improve; better mandated government policies
- Something else: addressing wider social inequalities in the home; better education recognising tools of exclusion and barriers to access; more education on what casual racism, sexism, etc. looks like in the sector

If you were in charge of writing a new diversity and inclusion strategy for the space sector, what would you include?

- 1. Leadership commitments; commitment to develop policy further; accessibility commitments
- 2. Targets or quotas in recruitment, promotion
- 3. Specific statements of support for individual minoritised groups
- Targets or quotas for leadership; diversity training for staff; gender-responsive budgeting; support for training and career development for under-represented groups
- Targets or quotas across different types of work (addressing horizontal segregation); support networks for under-represented groups; reference groups/advisory groups
- 6. Gender-mainstreaming across all work
- 7. General statement for diversity, inclusion, equity and belonging
- 8. Something else: e.g. Better education, enforcement/accountability measures

### **National role in driving diversity**

# 85%

believe their country should take a stronger leadership role on diversity issues in space

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# Initial trends from the

## qualitative data

- Minoritised groups in space face a "credibility gap"
  - Perceived as less credible or expert
- The securitisation of the space sector has a **gatekeeping effect** 
  - E.g. US and Australia's need for security clearances for instance impact on ethnic diversity in particular
- Women-led space startups experience hollow support
  - They report being more likely to receive intangible forms of support (training) rather than funding
  - Major implications on a growing space sector, considering women currently get less than 1% of total global procurement generally
- Women experience glass cliffs and men experience glass cushions
  - Glass cliff: when women do make it to leadership, they report being severely constrained by precarity
  - Glass cushion: men more likely to gain the 'hot jobs' in the space sector

- Perceptions that space is 'elite', 'cool' and 'exclusive' have contributed to an accepted **lack of transparency** and acceptance of the status quo
  - Minoritised individuals can feel 'lucky' to get their roles, even when more-than meeting individual requirements
- Informal employment criteria is gendered
  - Not just meeting basic qualification or experience requirements, but looking for evidence that candidates tinker, build, code, or watch scifi in their free time
  - Assumes all genders have had this opportunity or interest
  - Assumes all genders have time to do this (noting that women do between 2-8 times the unpaid domestic labour of men globally)
- Space doesn't (only) have a pipeline problem
  - In many parts of the world, women are the majority of STEM students
  - Space doesn't only involve STEM roles
  - Too much focus on the 'pipeline' ignores the reality of what happens to women and minoritised groups once they get to the space sector

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# Participate in a survey

#### Eligible participants include those who work in...

- The space industry
- A space-related portfolio/role in government
- Or can comment from either a personal or professional perspective on diversity issues in your experience/ organisation/ perspective

All genders, sexualities, cultural backgrounds are sought, however we have a particular focus on women and historically marginalised groups.

#### Why participate?

- To contribute to research around the opportunities and barriers for diverse groups in the space sector (industry and government).
- To learn how your experience and pathways compare with others.
- To suggest areas for improvement in policy and practice to support a diverse space sector.

#### Survey takes approx. 10-15 minutes.



# Participate in a one-on-one interview:

- Booking now for December & January
- Roughly 60 mins online

https://calendly.com/eliseste phenson/diversity-in-spaceinterview



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