

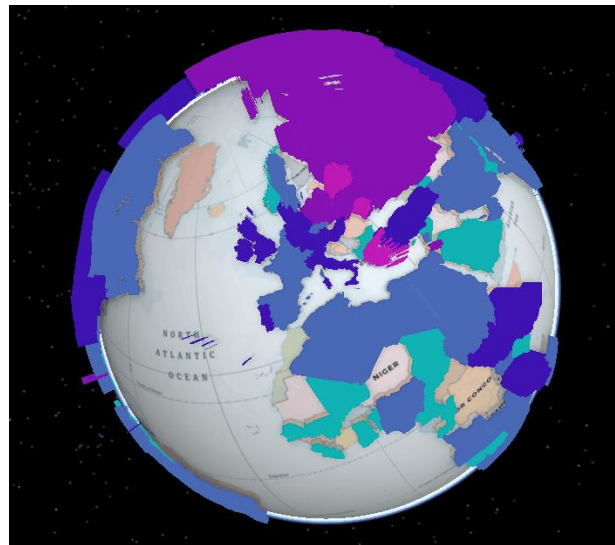
Group 5

The Global Count Project

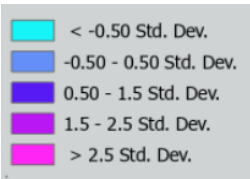
Data for Good

Team Members:

Fahad Ahmad, Esamu Cooper, Praveen Ramesh, Jamey Rosen, Matt Walsh



Personal Civil Rights and Freedoms Issue are greatest in Eastern Europe



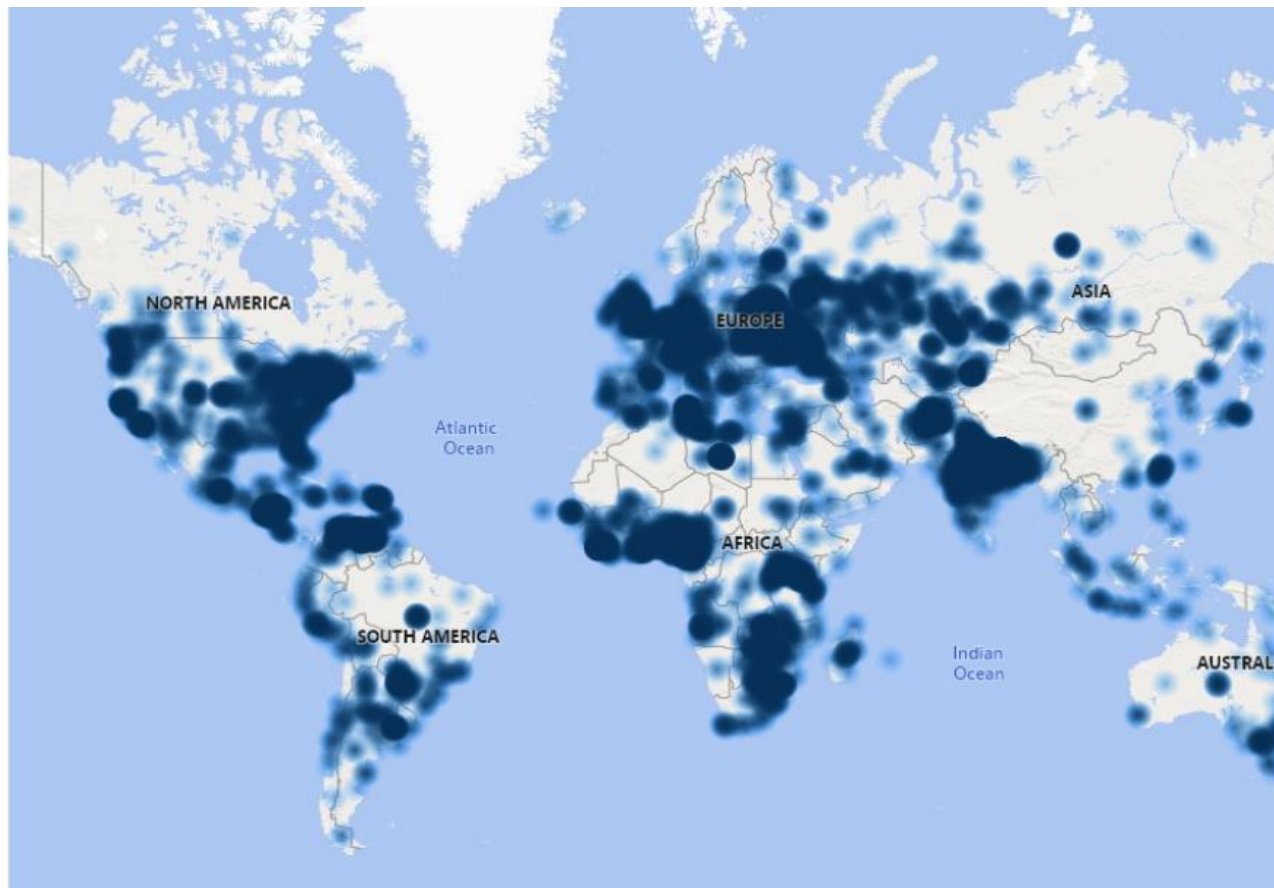
Where and Who are the Survey Respondents? From all over the world! Global in nature.

- Mostly from countries in Europe and North America; Mostly Women and in the age group 18-34 yrs.

173 Countries

| Country | Respondents |
|--|--------------|
| Switzerland | 3009 |
| Russian Federation | 2711 |
| Belarus | 2291 |
| Ukraine | 1543 |
| Kazakhstan | 1422 |
| Cameroon | 1274 |
| United States of America | 1154 |
| Kenya | 1142 |
| Nepal | 1141 |
| Zambia | 1117 |
| Nigeria | 1104 |
| Liberia | 1078 |
| Zimbabwe | 1058 |
| Venezuela (Bolivarian Republic of) | 1049 |
| Honduras | 1038 |
| Afghanistan | 1024 |
| Uganda | 1023 |
| India | 862 |
| Botswana | 534 |
| Germany | 526 |
| Canada | 516 |
| United Kingdom of Great Britain and Northern Ireland | 511 |
| South Africa | 397 |
| Australia | 360 |
| Libya | 287 |
| Argentina | 193 |
| Tunisia | 193 |
| Madagascar | 191 |
| Angola | 173 |
| Ghana | 141 |
| Democratic Republic of the Congo | 133 |
| Mexico | 131 |
| Total | 31622 |

| Age | Gender | |
|-------------|----------------------------|--------|
| 18 to 24 | Cisman | 81 |
| | Ciswoman | 1,436 |
| 25 to 34 | Gender not chosen | 448 |
| 35 to 44 | Gender not listed | 159 |
| 45 to 54 | Man | 985 |
| 55 to 64 | NA | 12,112 |
| 65 to 74 | Non Conforming or Non Bi.. | 230 |
| 75 or older | Transman | 24 |
| | Transwoman | 70 |
| | Woman | 16,061 |



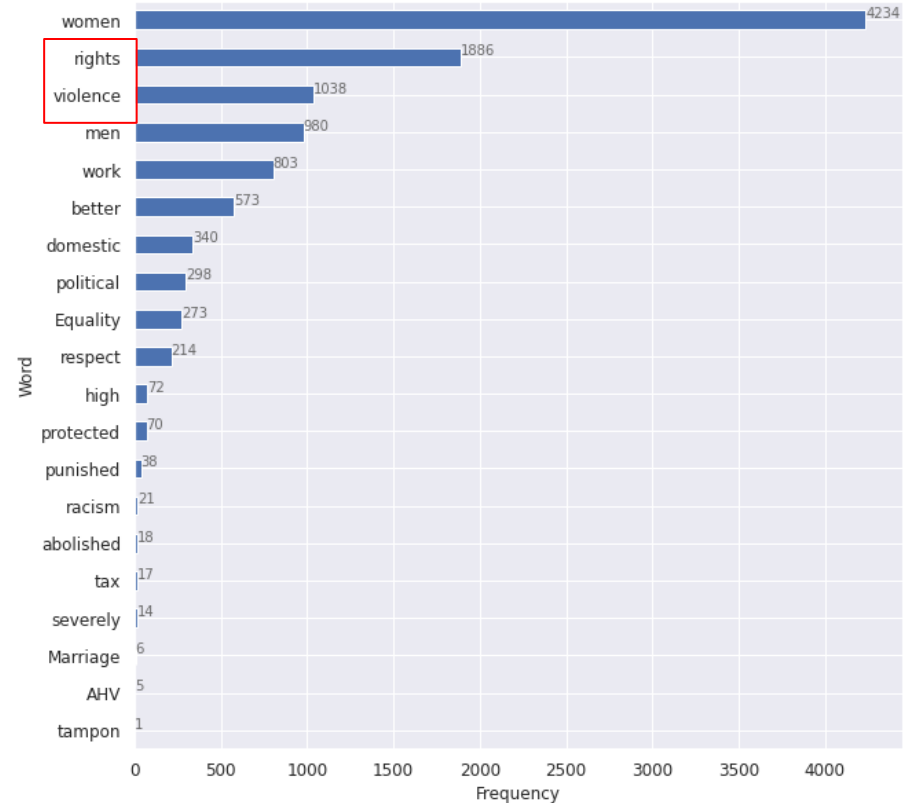
Word cloud representing issues to resolve in 10 years:

- **Women rights, violence and equality are major issues.**



1.women, 2.rights, 3.violence, 4.men, 5.work,
6.equality, 7.respect

Top 20 words with frequency in GC survey

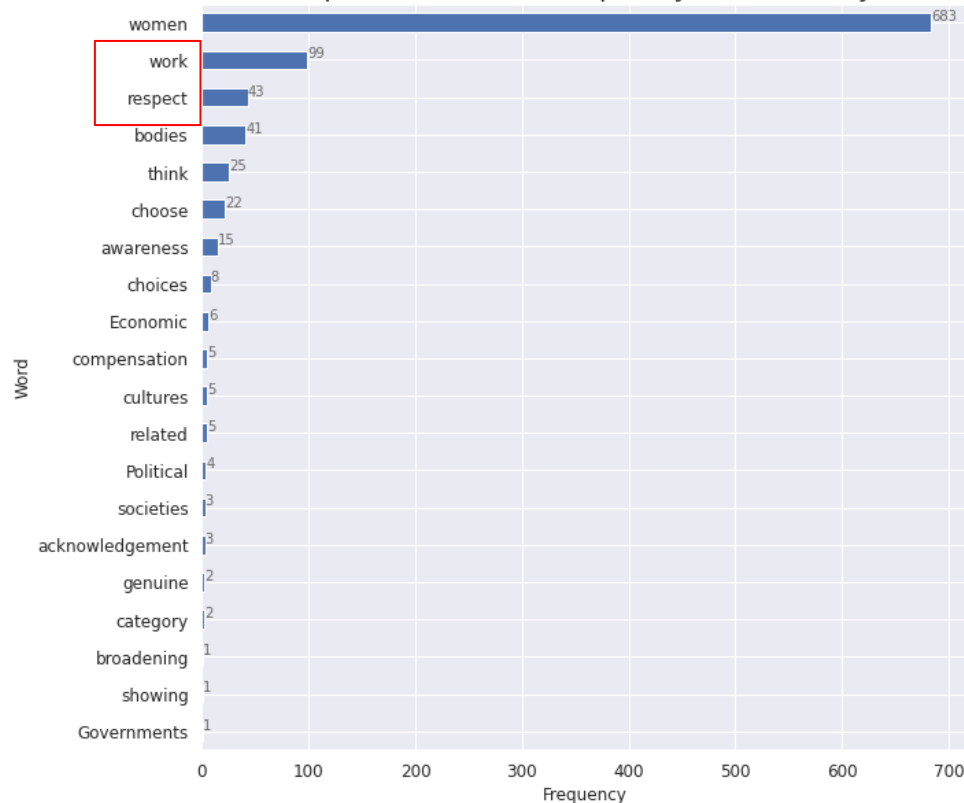


When “Barrier” was selected as *Culture/Social*:

- Rights (human, worker) seemed to be the major issue to resolve in 10 years.



Top 20 words with frequency in GC survey

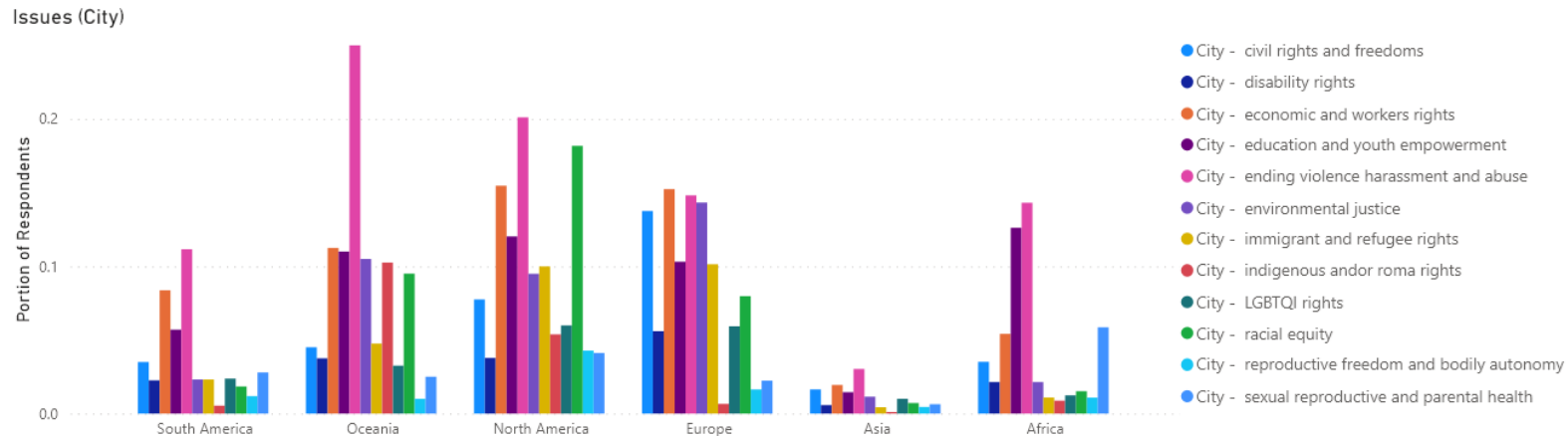
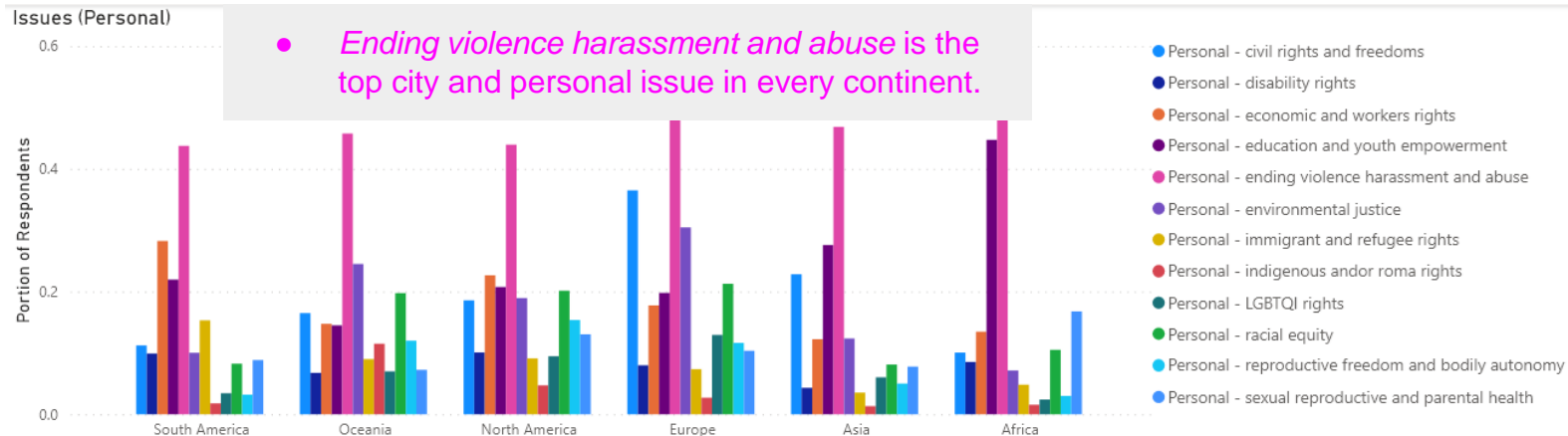


- Definitely a lot of missing data. Not enough respondents from other gender types, countries to make a conclusion.
- Still very useful data and it's global nature!

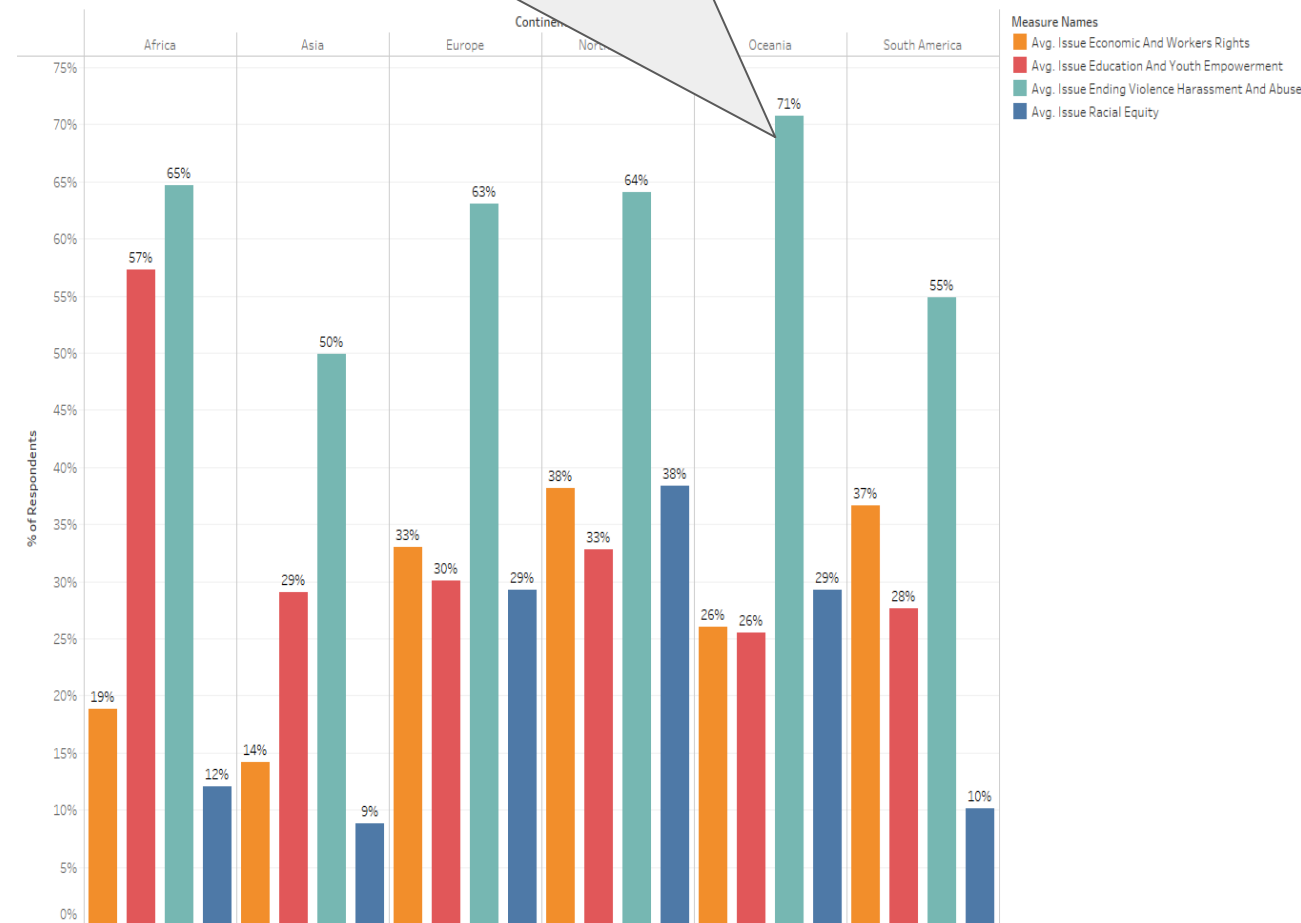
Based on the textual analysis and graphs, we focused on *regional trends* in four issues for our descriptive analysis:

- 1. Economic and Worker rights**
- 2. Education and Youth Empowerment**
- 3. Violence Harassment and abuse**
- 4. Racial Equity**

Personal issues are common than City issues around the world!



Ending violence Harassment and abuse was a top issue in every continent!



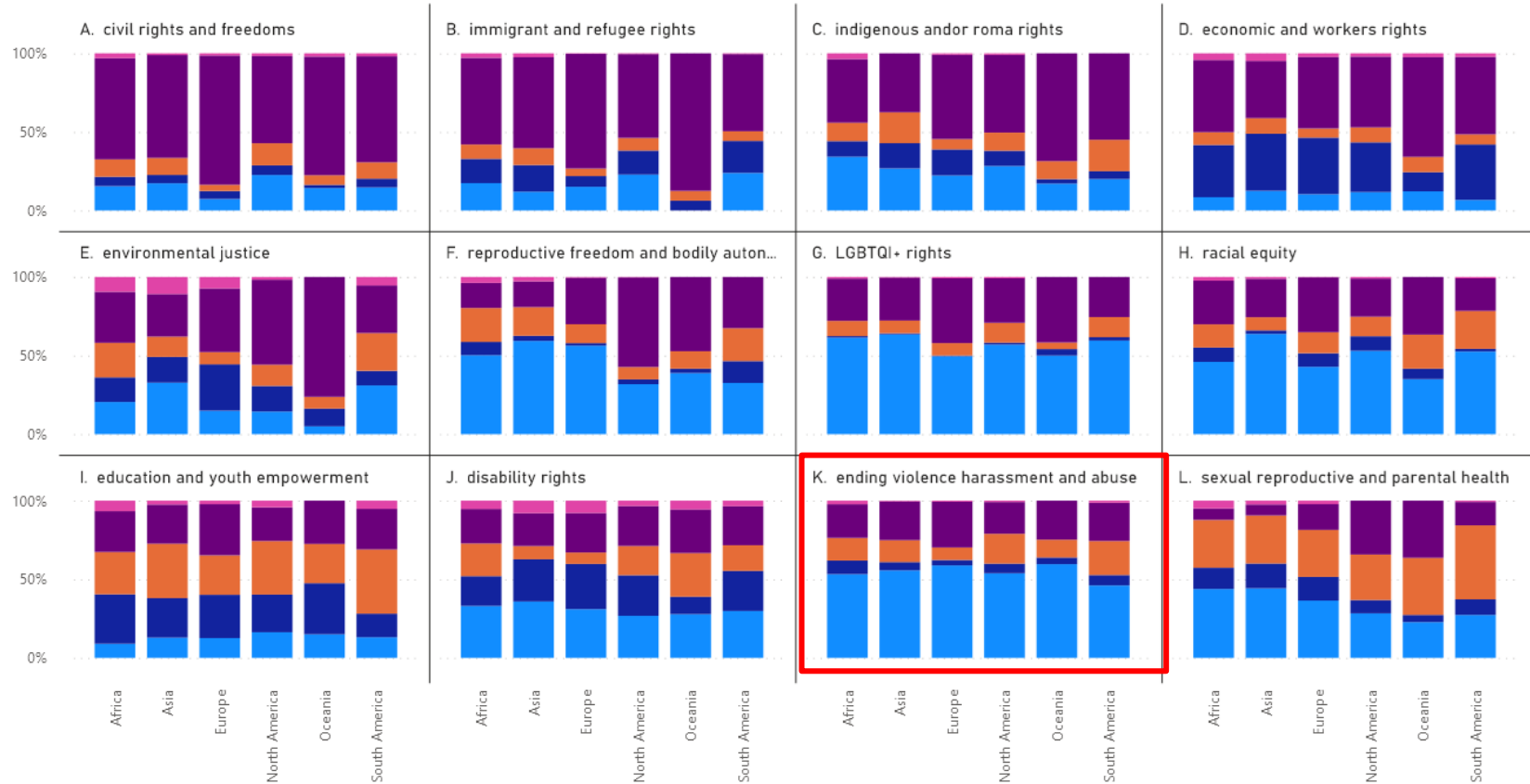
- Out of our four selected issues (personal combined with city), *Ending violence Harassment and Abuse* was the top issue in every continent.

Barriers to Personal Issues

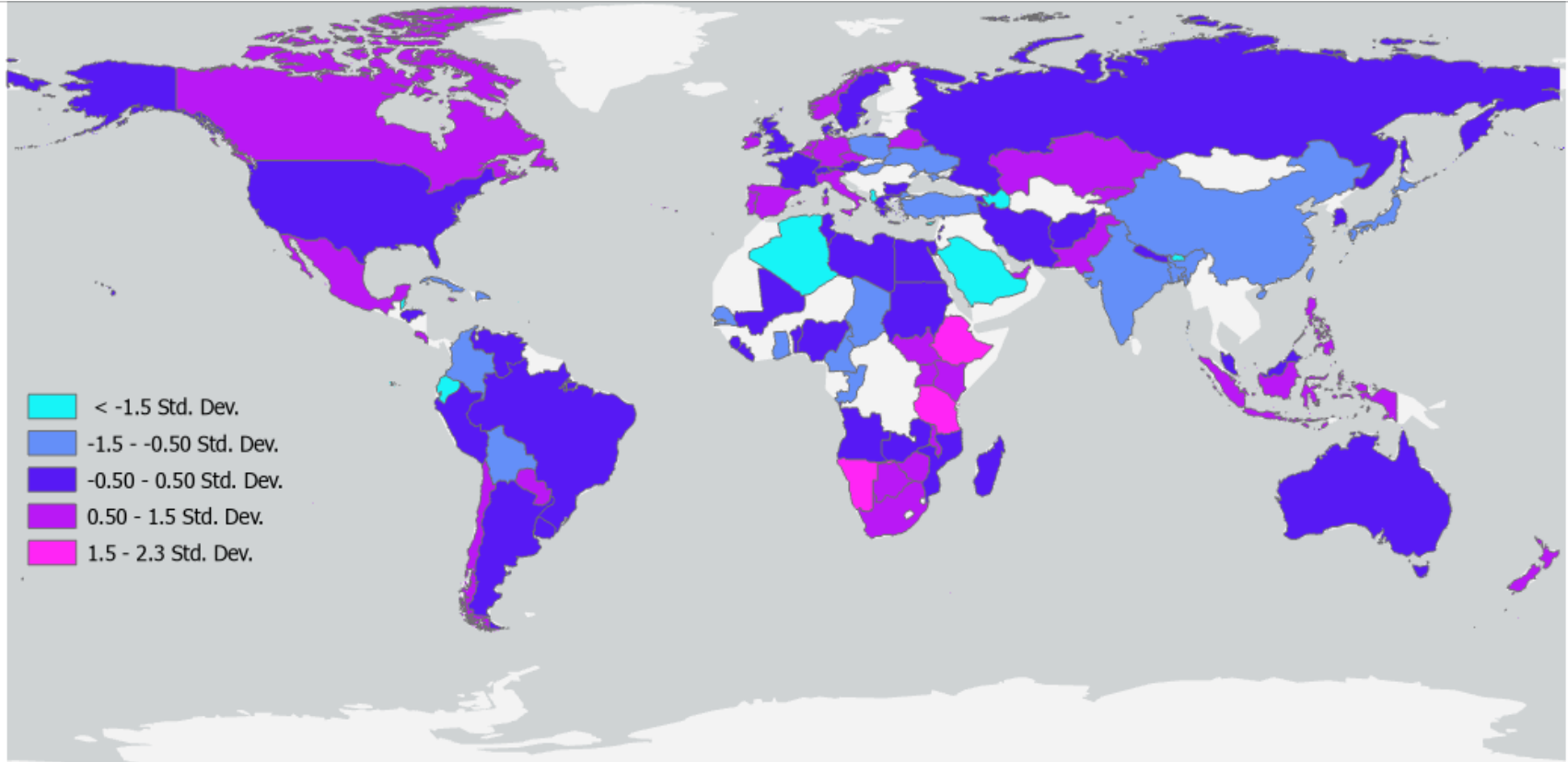
- **Cultural/Social** is a major Barrier to personal issue “Ending violence harassment and abuse”.

Barriers to Personal Issues

Barrier ● Cultural/Social ● Economic ● Education ● Political ● Technological

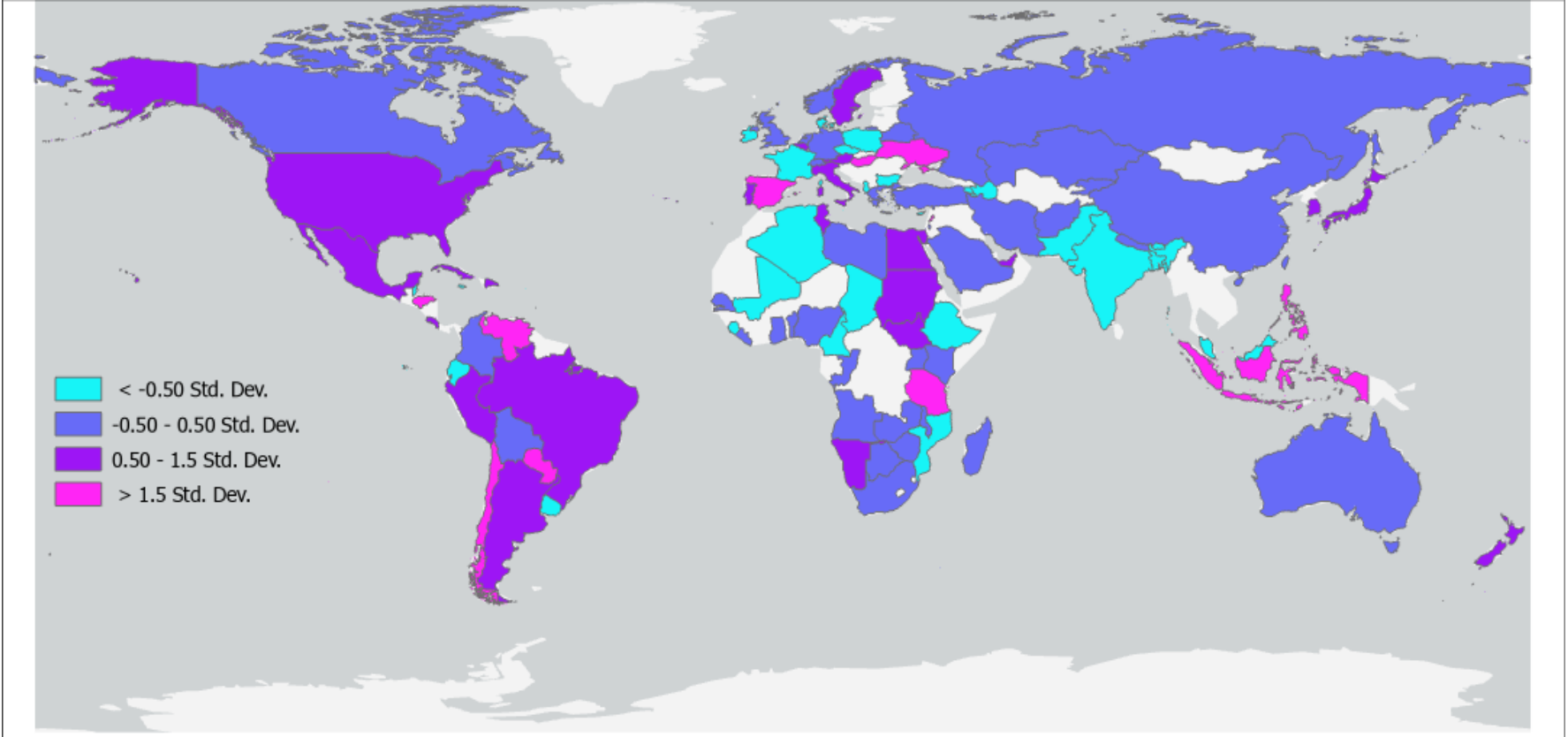


Ending Violence harassment and abuse is a universal personal issue



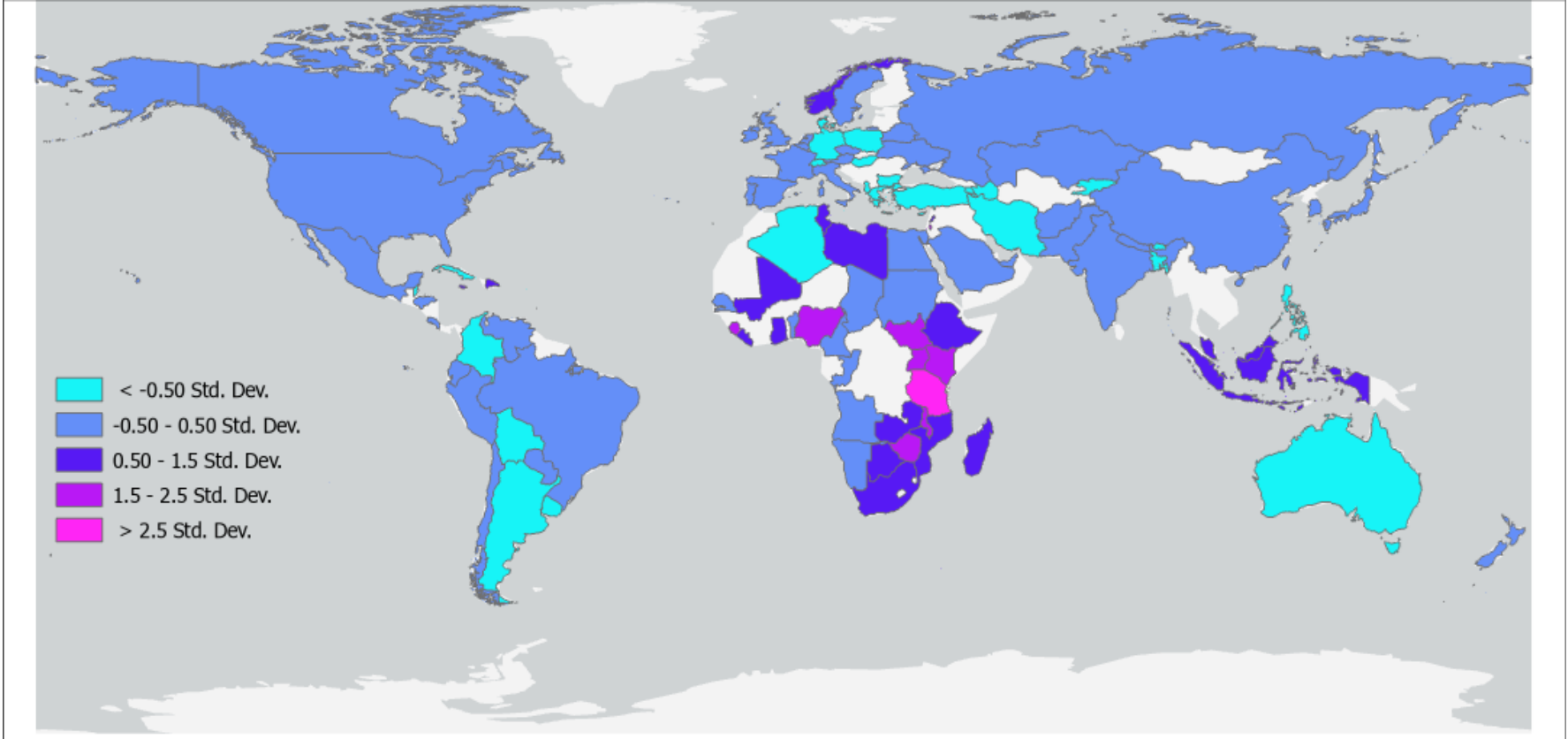
Countries with <5 survey responses are omitted

Economic/Workers rights is a dominant personal issue in the Americas



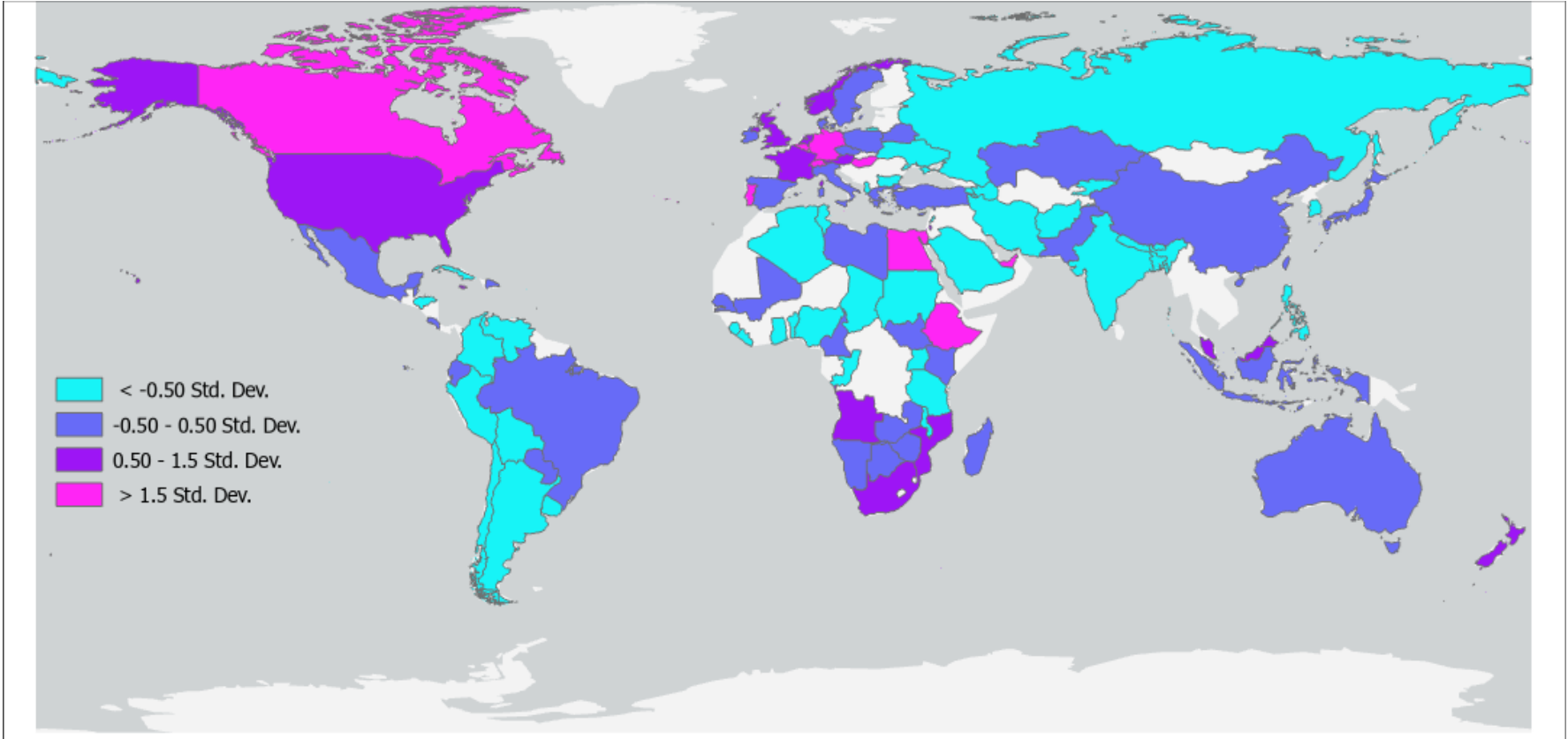
Countries with <5 survey responses are omitted

Education/Youth rights is a greater personal issue in sub-Saharan Africa and Oceania



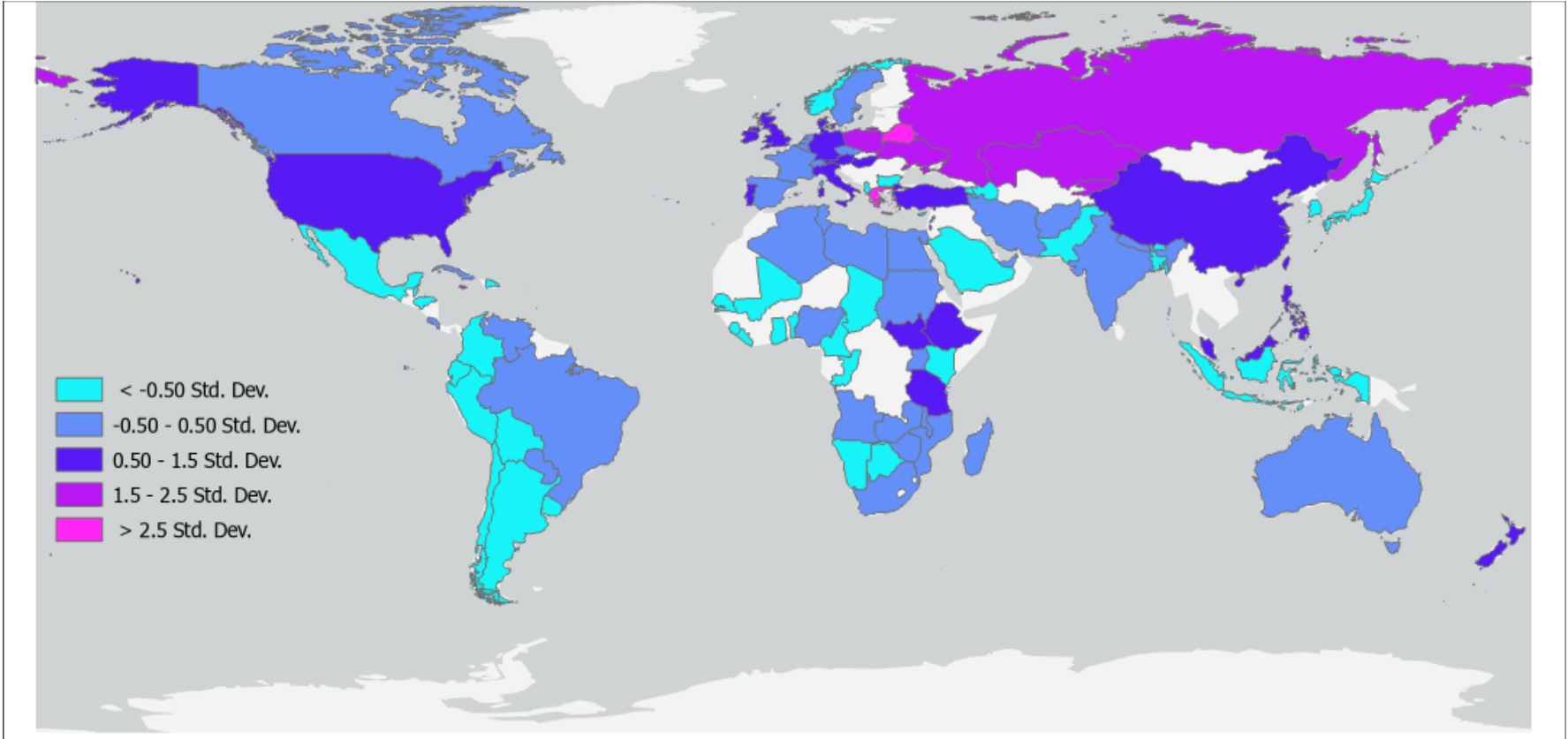
Countries with <5 survey responses are omitted

Racial equity as a personal issue is greatest in Switzerland, UAE, Hungary, Portugal, and Malta



Countries with <5 survey responses are omitted

Personal Rights and Freedoms are a greater issue in Eastern Europe than elsewhere



Countries with <5 survey responses are omitted

Conclusion

Even with its limitations some very useful insights can be obtained from the data:

- “Ending violence harassment and abuse” is major issue at a both personal and city level across all continents, gender types and races.
- As shown from the descriptive and textual analysis, women indicate “Ending violence harassment and abuse” as a major issue.
- Some Recommendations: More proportionate samples from each country and continent and gender type. Reduce length of survey and focus on main relevant issues would make it easier to get more responses.

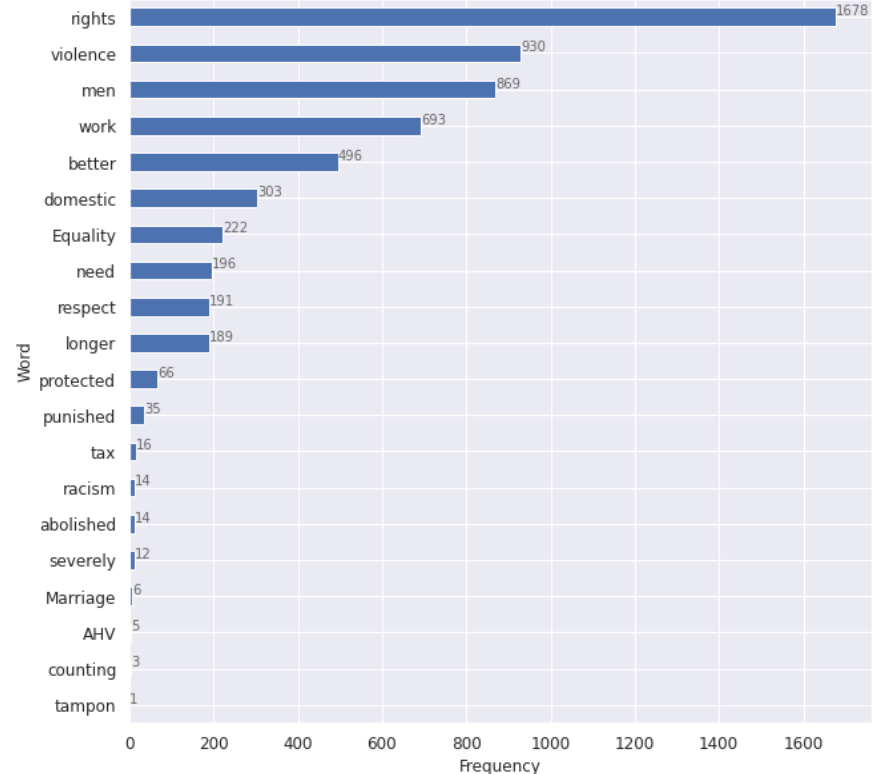
Appendix

For Gender selected as *Woman*

- Rights (human, worker) and Ending violence, Equality seemed to be the prominent issues to resolve in 10 years.



Top 20 words with frequency in GC survey



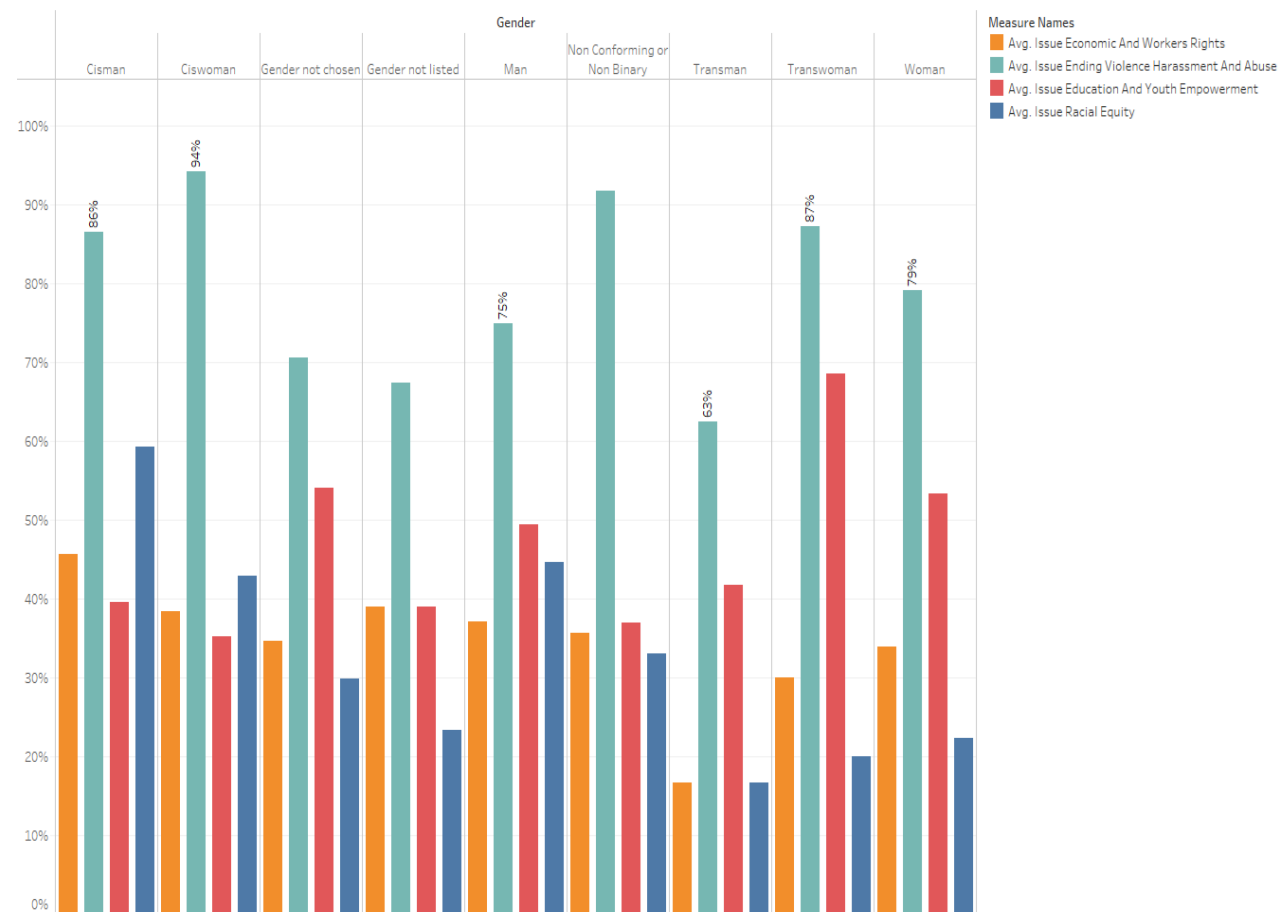
All four issues were more personal for all Genders, but much more so for Women

Personal Issue by Gender

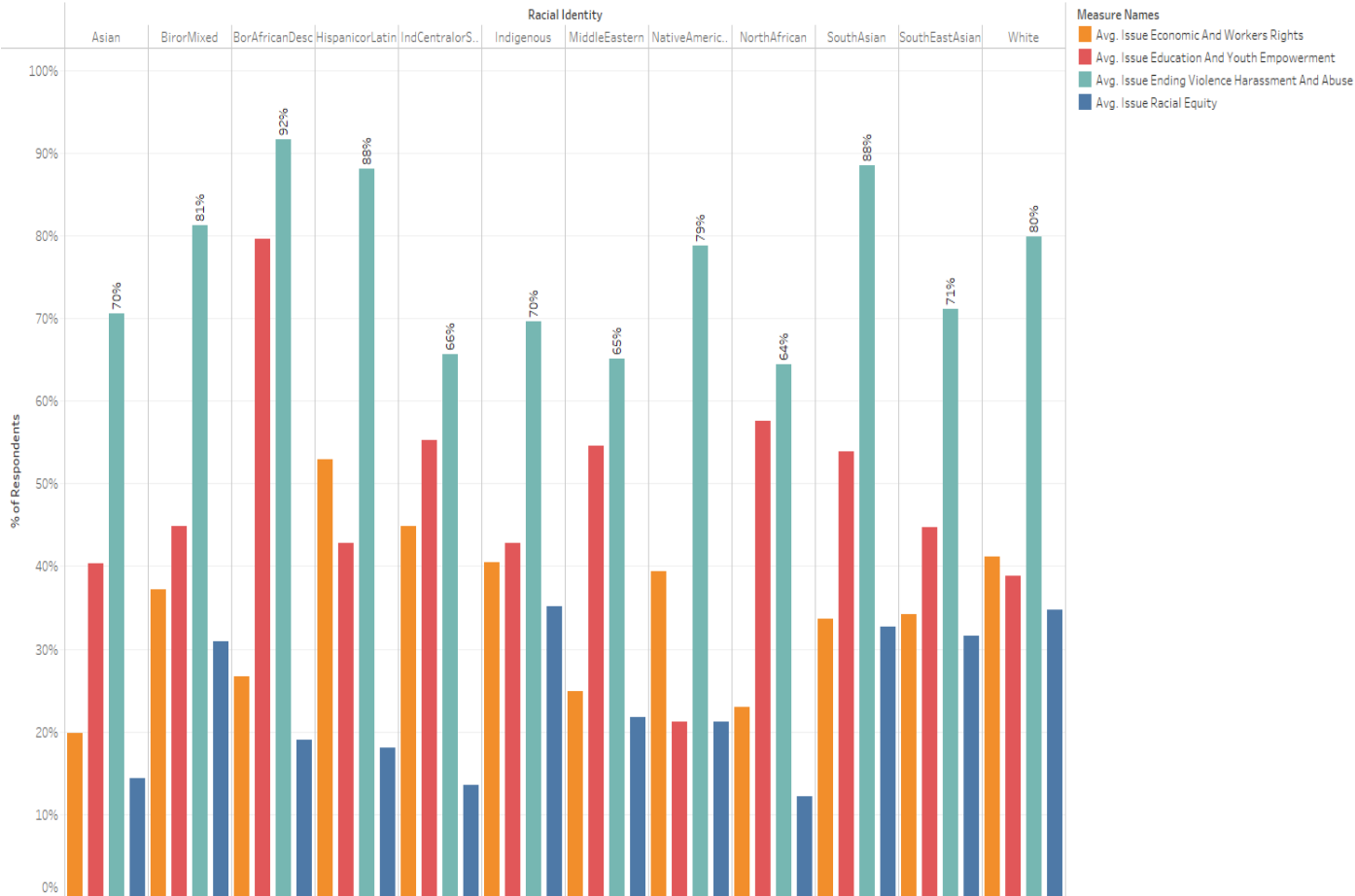
| Gender | Avg. Issue Person Economic And Workers Rights | Avg. Issue Person Education And Youth Empowerment | Avg. Issue Person Ending Violence Harassment And A.. | Avg. Issue Racial Equity | Woman |
|----------------------------|---|---|--|--------------------------|--------|
| Cisman | 20% | 26% | 51% | 59% | 5 |
| Ciswoman | 17% | 20% | 64% | 43% | 16,058 |
| Gender not chosen | 20% | 41% | 53% | 30% | |
| Gender not listed | 26% | 25% | 50% | 23% | |
| Man | 14% | 33% | 54% | 45% | |
| Non Conforming or Non Bi.. | 13% | 22% | 63% | 33% | |
| Transman | 9% | 35% | 52% | 17% | |
| Transwoman | 17% | 51% | 59% | 20% | |
| Woman | 22% | 41% | 63% | 22% | |

City issue by Gender

| Gender | Avg. Issue City Economic And Workers Rights | Avg. Issue City Education And Youth Empowerment | Avg. Issue City Ending Violence Harassment And Abuse | Avg. Issue City Racial Equity | Woman |
|------------------------------|---|---|--|-------------------------------|--------|
| Cisman | 26% | 14% | 36% | 22% | 5 |
| Ciswoman | 22% | 15% | 30% | 20% | 16,058 |
| Gender not chosen | 15% | 13% | 17% | 9% | |
| Gender not listed | 13% | 14% | 18% | 7% | |
| Man | 23% | 16% | 21% | 14% | |
| Non Conforming or Non Binary | 22% | 15% | 29% | 13% | |
| Transman | 4% | 9% | 13% | 9% | |
| Transwoman | 13% | 17% | 29% | 9% | |
| Woman | 12% | 12% | 16% | 6% | |



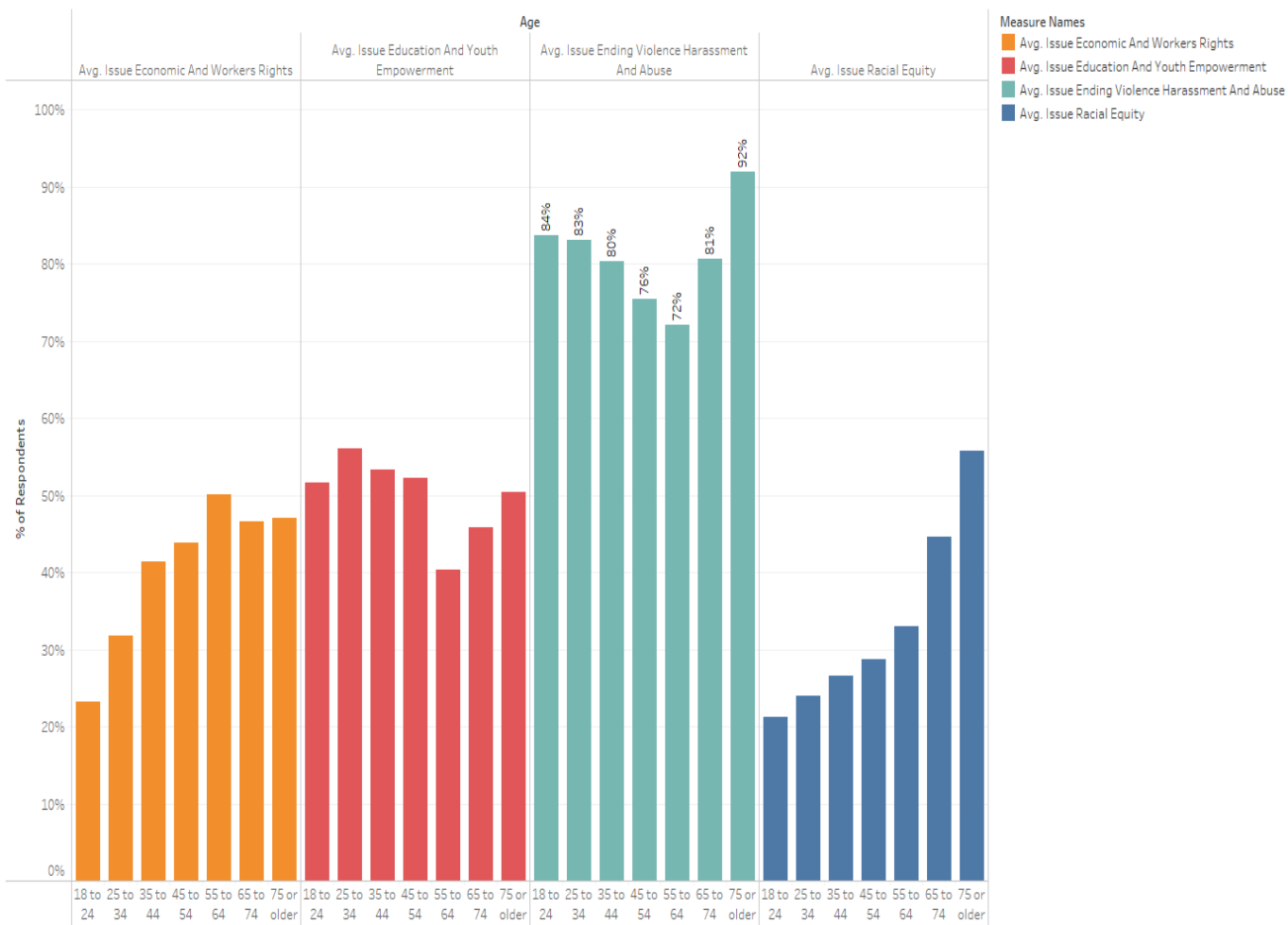
Issue of Ending Violence Harassment and Abuse and Issue Education was high across all gender types and Youth Employment was high across most gender types.



Out of four issues that we selected, Ending violence was the top issue by White, Black or African and for all Gender types

Education and Youth Empowerment is also a common issue, but is a major issue for Black or African descent.

-Unfortunately, not enough respondents in other racial identities to make a conclusion.



The issue of ending Violence Harassment and Abuse was highest and similar in all age groups.

Second highest was Issue of Education and Youth empowerment in 18-24, 25-34.

-Unfortunately, not enough respondents in other age groups to make a conclusion.

Do the same citizens tend to have the same issues?

Not necessarily - see racial identity

Correlation between racial equity and violence as personal issues

| CONTINENT | asian | biracial or mixed | black or of african descent | choose not to identify | hispanic or latinx | indigenous | indigenous central or south american | middle eastern | native american | north african | pacific islander | racial identity not listed | south asian | southeast asian | white |
|---------------|-------|-------------------|-----------------------------|------------------------|--------------------|------------|--------------------------------------|----------------|-----------------|---------------|------------------|----------------------------|-------------|-----------------|-------|
| Africa | 0.15 | -0.04 | 0.02 | 0.09 | 0.41 | 0.15 | | 0.15 | | 0.11 | | 0.03 | -0.35 | | 0.10 |
| Asia | 0.04 | 0.01 | 0.08 | -0.01 | -0.47 | -0.01 | | 0.19 | | | | -0.11 | 0.01 | 0.15 | 0.10 |
| Europe | 0.14 | 0.00 | 0.07 | 0.03 | -0.28 | 0.16 | 0.50 | -0.28 | -0.58 | | | 0.03 | 0.48 | 0.00 | 0.02 |
| North America | -0.12 | -0.03 | 0.06 | 0.03 | -0.01 | 0.08 | -0.01 | -0.37 | -0.12 | | 0.17 | 0.06 | -0.24 | -1.00 | -0.16 |
| Oceania | 0.61 | 0.38 | 1.00 | 0.32 | | -0.33 | | | | | | 0.20 | | | 0.06 |
| South America | | 0.01 | -0.19 | 0.07 | 0.04 | 0.31 | -0.07 | | 0.35 | | 0.50 | 0.12 | | | 0.13 |

Correlation between economics and violence as personal issues

| CONTINENT | asian | biracial or mixed | black or of african descent | choose not to identify | hispanic or latinx | indigenous | indigenous central or south american | middle eastern | native american | north african | pacific islander | racial identity not listed | south asian | southeast asian | white |
|---------------|-------|-------------------|-----------------------------|------------------------|--------------------|------------|--------------------------------------|----------------|-----------------|---------------|------------------|----------------------------|-------------|-----------------|-------|
| Africa | -0.14 | -0.21 | -0.05 | -0.05 | 0.25 | -0.17 | -0.17 | -0.09 | | -0.01 | | 0.06 | 0.09 | | 0.00 |
| Asia | -0.07 | -0.36 | 0.11 | -0.04 | -0.47 | 0.03 | | 0.16 | 0.50 | | | -0.07 | -0.01 | -0.09 | -0.24 |
| Europe | -0.30 | -0.23 | -0.17 | -0.23 | -0.30 | -0.27 | | -0.42 | | | | -0.25 | -0.32 | -0.58 | -0.22 |
| North America | -0.07 | -0.27 | -0.03 | -0.26 | -0.07 | -0.39 | 0.04 | -0.36 | 0.03 | | -0.17 | -0.17 | -0.05 | 1.00 | -0.14 |
| Oceania | -0.41 | 0.00 | -1.00 | 0.05 | | | | | | | | -0.23 | | | -0.18 |
| South America | 0.58 | -0.14 | -0.27 | -0.10 | -0.16 | 0.10 | -0.06 | 0.25 | 0.45 | | | -0.22 | | | -0.05 |

Correlation between economics and racial equity as personal issues

| CONTINENT | asian | biracial or mixed | black or of african descent | choose not to identify | hispanic or latinx | indigenous | indigenous central or south american | middle eastern | native american | north african | pacific islander | racial identity not listed | south asian | southeast asian | white |
|---------------|-------|-------------------|-----------------------------|------------------------|--------------------|------------|--------------------------------------|----------------|-----------------|---------------|------------------|----------------------------|-------------|-----------------|-------|
| Africa | -0.12 | -0.10 | -0.10 | -0.02 | 0.61 | -0.06 | | -0.06 | | -0.08 | | 0.01 | -0.26 | | -0.22 |
| Asia | -0.05 | -0.07 | -0.11 | -0.01 | 1.00 | -0.07 | | -0.12 | | | | -0.08 | 0.02 | -0.13 | -0.13 |
| Europe | -0.20 | -0.15 | 0.08 | -0.17 | -0.23 | -0.31 | | 0.03 | | | | -0.15 | -0.66 | 0.58 | -0.16 |
| North America | -0.09 | -0.12 | -0.12 | -0.10 | -0.14 | -0.27 | -0.12 | -0.26 | -0.21 | | -0.17 | 0.03 | -0.05 | -1.00 | -0.16 |
| Oceania | 0.17 | 0.65 | -1.00 | 0.13 | | | | | | | | -0.31 | | | -0.12 |
| South America | | -0.20 | -0.07 | 0.03 | -0.07 | 0.22 | -0.27 | | 0.42 | | | 0.20 | | | -0.11 |

High value =
positive
correlation

Do the same citizens tend to have the same issues?

Not necessarily - see age groups

Correlation between racial equity and violence as personal issues

| CONTINENT | 18 to 24 | 25 to 34 | 35 to 44 | 45 to 54 | 55 to 64 | 65 to 74 | 75 or older |
|---------------|----------|----------|----------|----------|----------|----------|-------------|
| Africa | 0.08 | 0.03 | 0.01 | 0.11 | 0.03 | -0.22 | 0.55 |
| Asia | 0.06 | -0.01 | -0.02 | 0.03 | -0.06 | 0.08 | -0.27 |
| Europe | -0.03 | -0.01 | 0.02 | 0.12 | 0.19 | 0.26 | 0.00 |
| North America | -0.06 | -0.14 | -0.13 | -0.17 | 0.01 | -0.16 | 0.00 |
| Oceania | 0.32 | 0.23 | -0.12 | -0.11 | 0.10 | 0.09 | 0.40 |
| South America | -0.01 | -0.12 | 0.08 | 0.14 | 0.01 | 0.04 | |

Correlation between economics and violence as personal issues

| CONTINENT | 18 to 24 | 25 to 34 | 35 to 44 | 45 to 54 | 55 to 64 | 65 to 74 | 75 or older |
|---------------|----------|----------|----------|----------|----------|----------|-------------|
| Africa | -0.07 | -0.07 | -0.04 | -0.02 | 0.05 | -0.13 | |
| Asia | -0.06 | -0.07 | -0.12 | -0.09 | 0.01 | -0.02 | -0.27 |
| Europe | -0.18 | -0.22 | -0.18 | -0.19 | -0.28 | -0.22 | -0.14 |
| North America | -0.11 | -0.12 | -0.10 | -0.11 | -0.13 | 0.06 | -0.07 |
| Oceania | | -0.49 | 0.07 | 0.08 | -0.29 | -0.19 | -0.30 |
| South America | -0.05 | -0.22 | -0.16 | -0.12 | -0.08 | 0.19 | -0.47 |

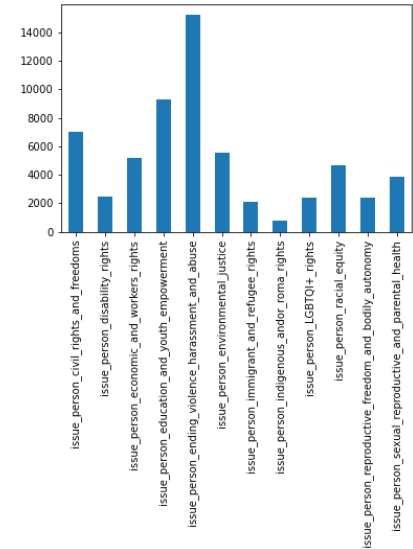
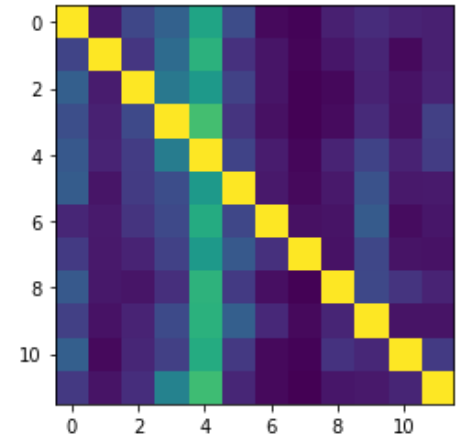
Correlation between economics and racial equity as personal issues

| CONTINENT | 18 to 24 | 25 to 34 | 35 to 44 | 45 to 54 | 55 to 64 | 65 to 74 | 75 or older |
|---------------|----------|----------|----------|----------|----------|----------|-------------|
| Africa | -0.08 | -0.08 | -0.06 | -0.12 | -0.08 | -0.14 | |
| Asia | -0.07 | -0.06 | -0.01 | 0.01 | -0.03 | -0.13 | -0.11 |
| Europe | -0.13 | -0.14 | -0.26 | -0.26 | -0.30 | -0.27 | -0.08 |
| North America | -0.16 | -0.18 | -0.18 | -0.14 | -0.16 | -0.21 | -0.03 |
| Oceania | | -0.07 | -0.10 | -0.18 | -0.16 | 0.00 | -0.40 |
| South America | -0.01 | -0.07 | 0.04 | -0.08 | -0.17 | -0.22 | |

High value = positive correlation

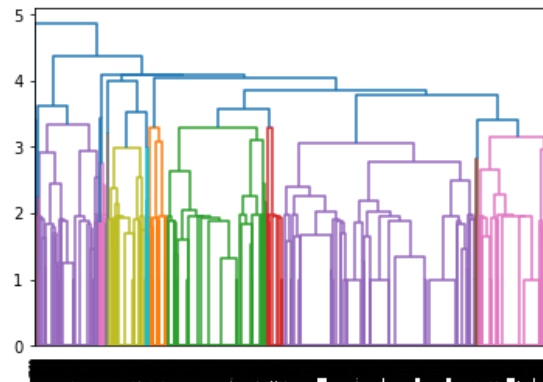
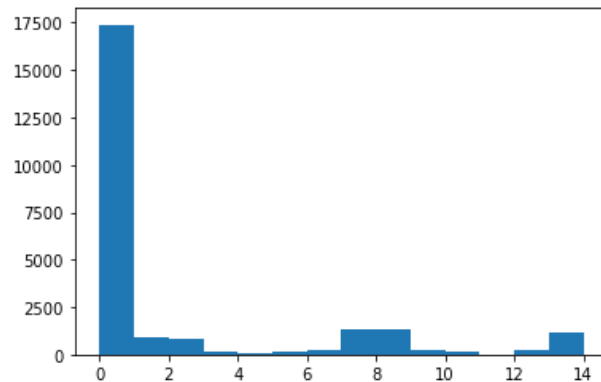
Intersections of personal issues

- Looked at the conditional probabilities: if a respondent had issue X, how likely it is for them to also have issue Y? (Only looking at respondents with 2-3 issues.)
- The brighter columns correspond to the most common responses.
- Some notable connections:
 - Concern for immigrant / refugee rights more likely to indicate racial equity concerns.
 - Concern for reproductive / parental health more likely to indicate education / youth empowerment issues

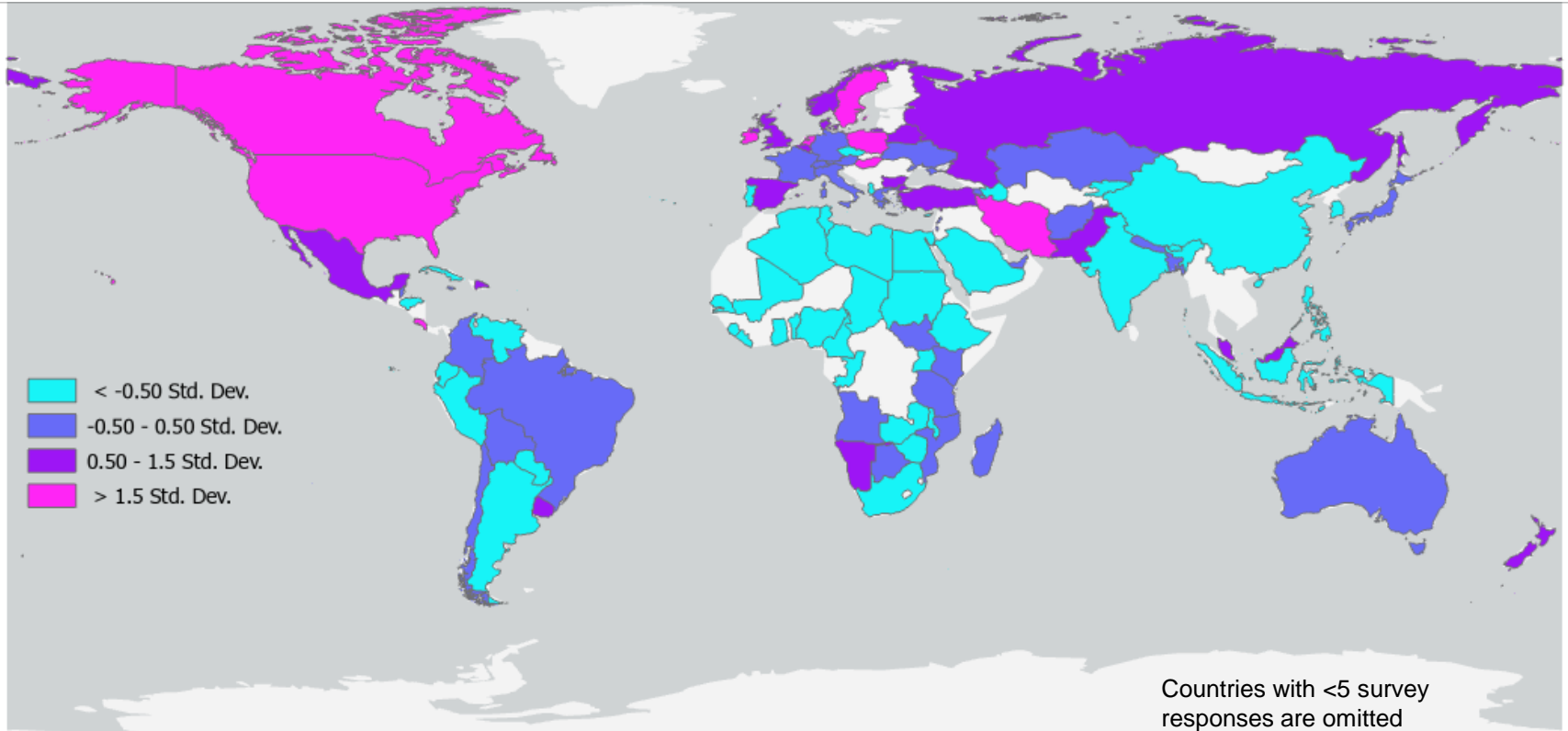


Hierarchical clustering analysis

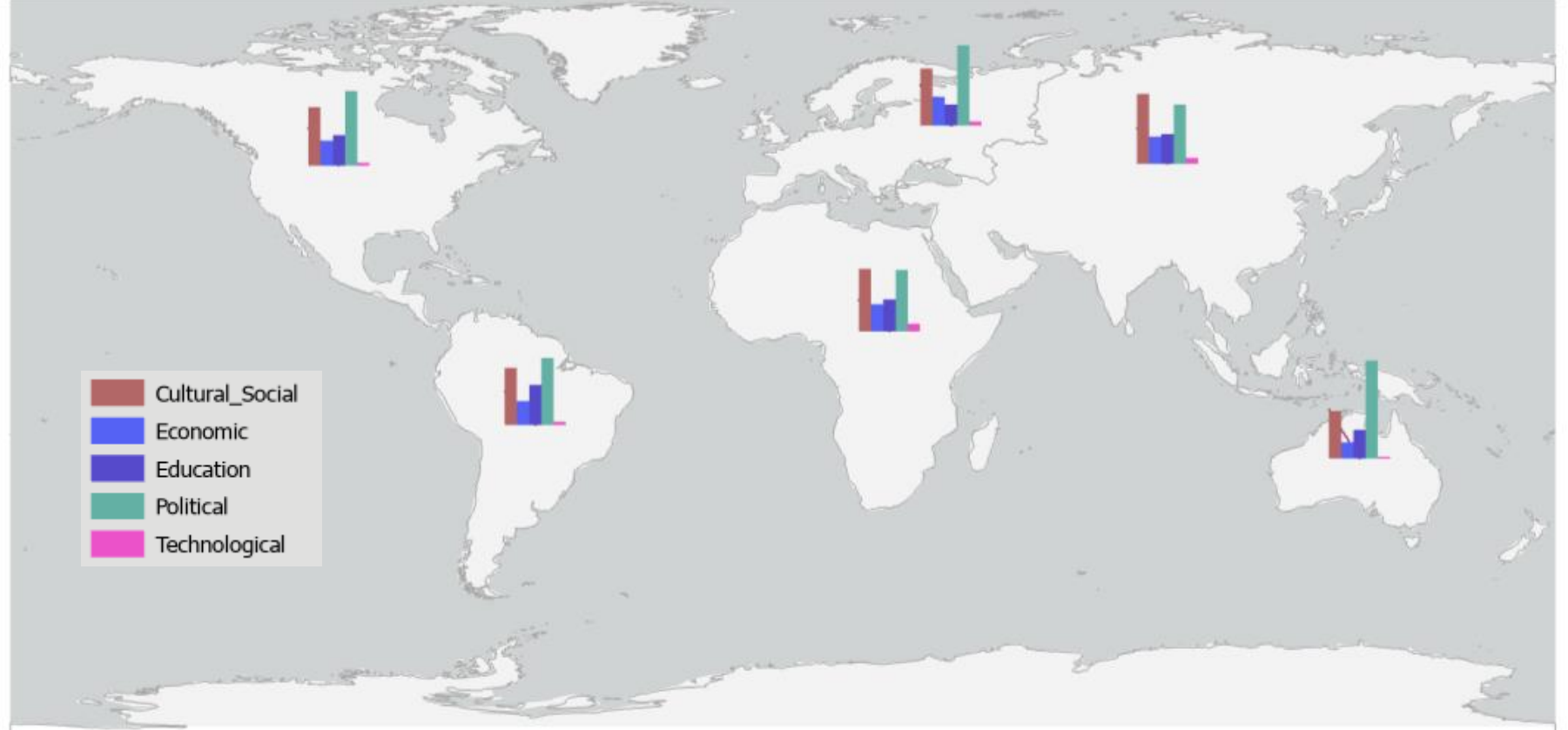
- Tried to apply agglomerative clustering to the personal issue reporting, using Hamming distance (= L1 for binary vectors)
- Not successful — clusters didn't have any clear similarities, so no real meaning to extract.



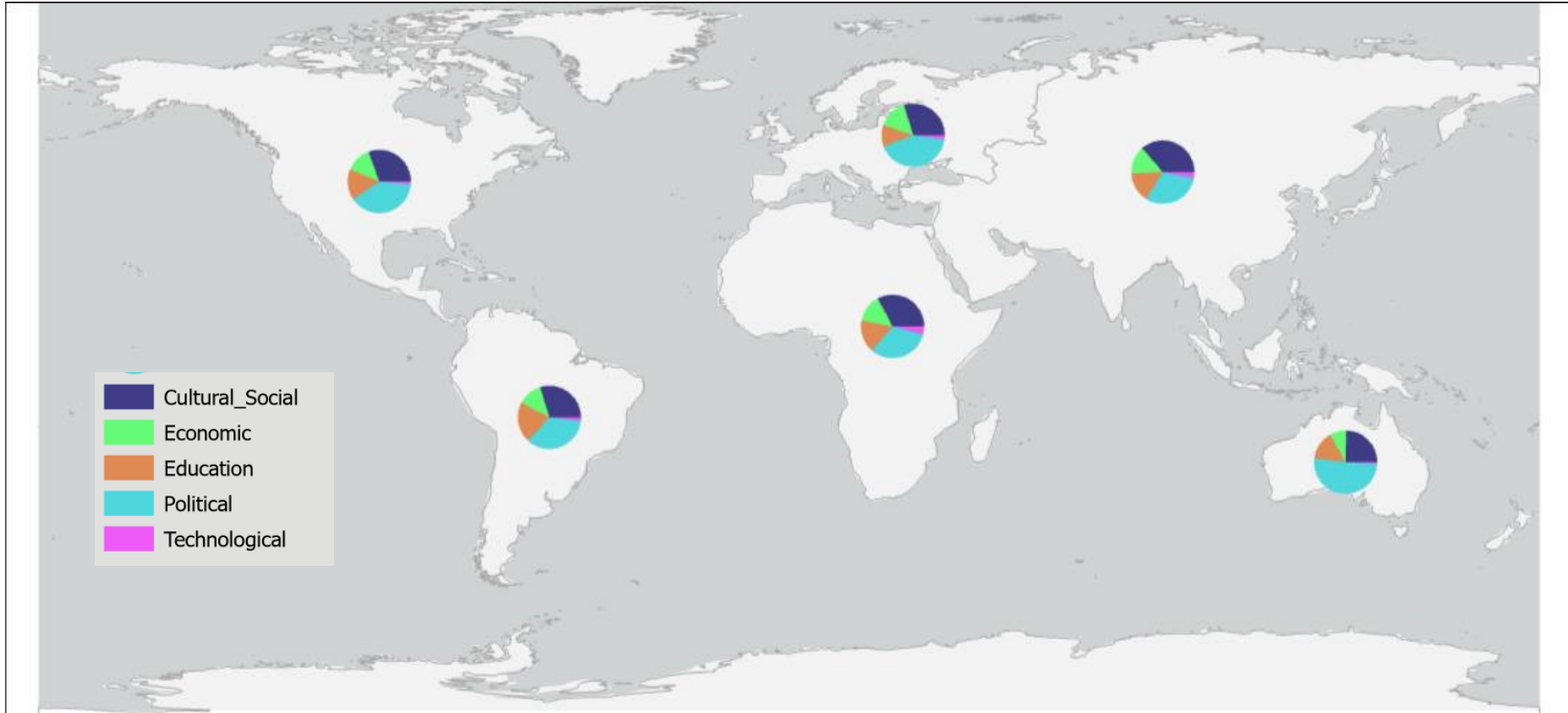
Bodily autonomy/Reproductive Freedom as a personal issue is greatest in North America, Costa Rica, northern Europe, and Iran



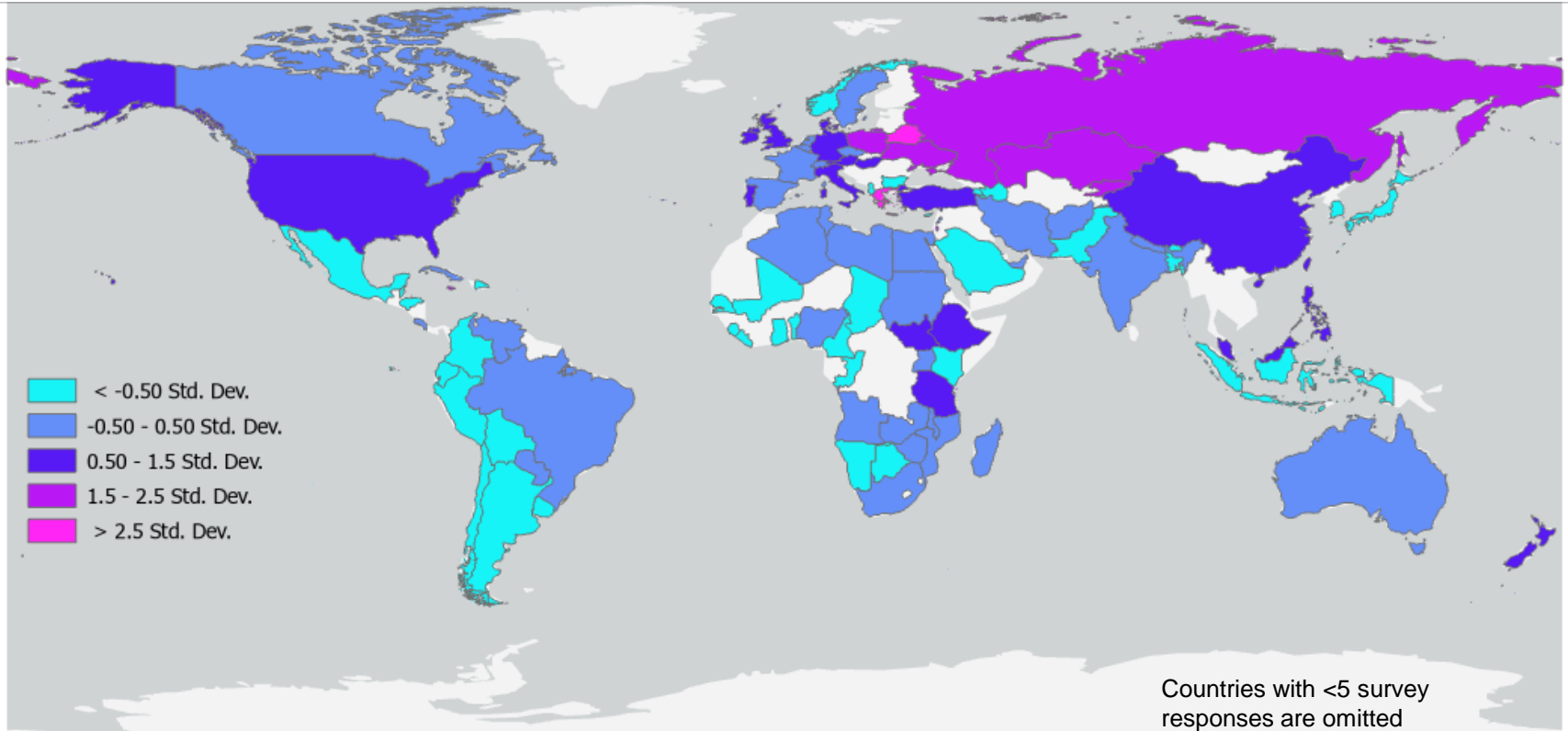
Barriers to Personal Issues (continent summary)



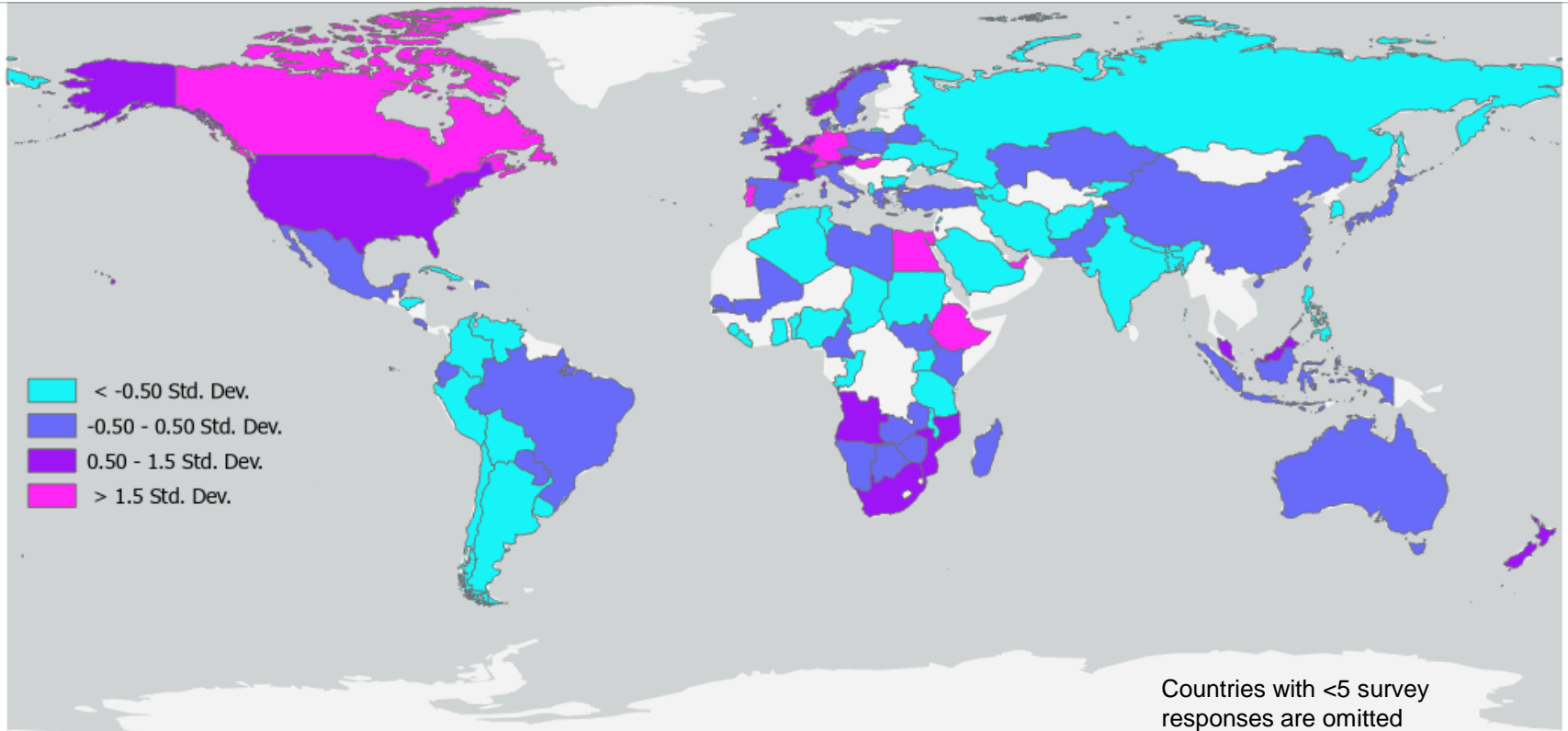
Barriers to Personal Issues (continent summary)



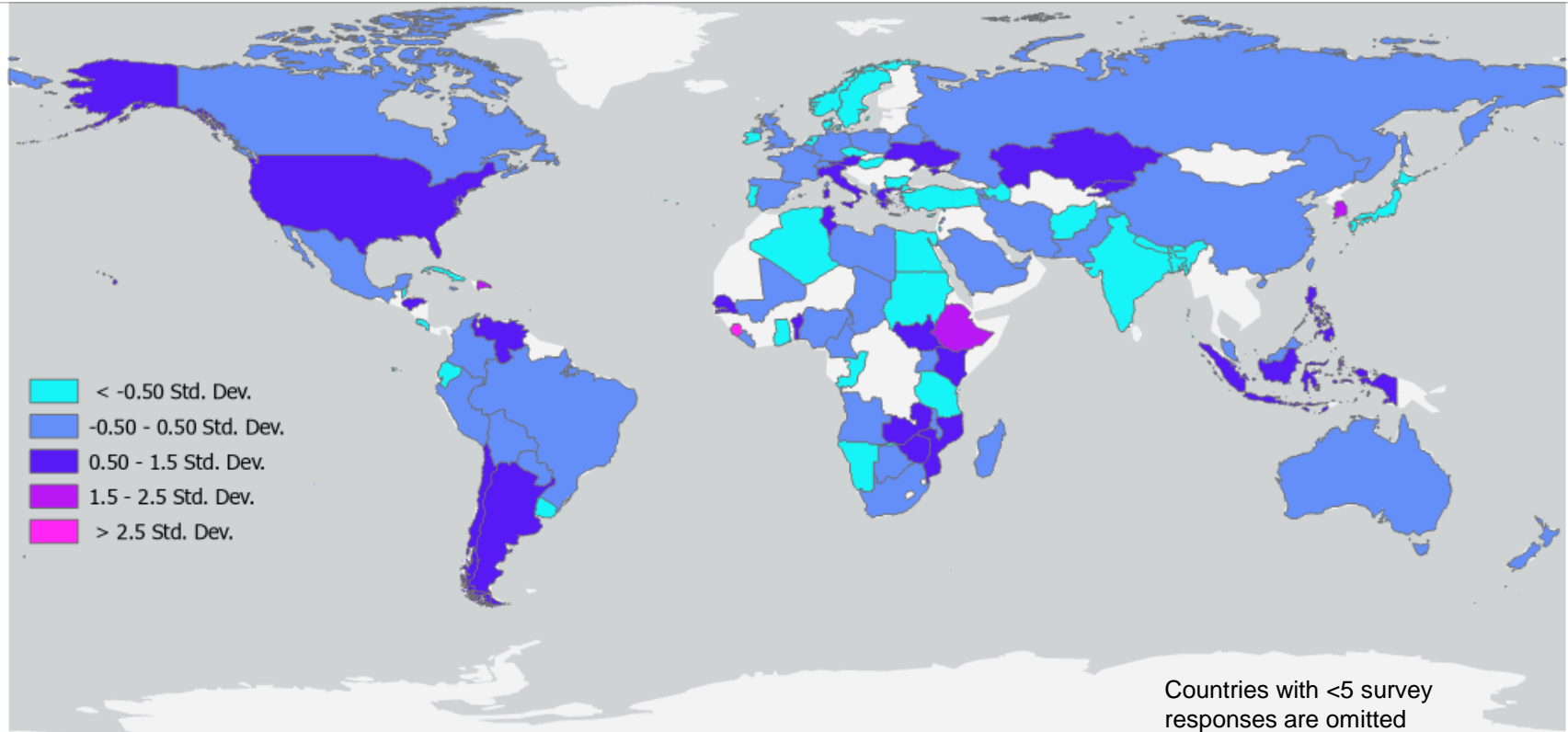
Personal Rights and Freedoms are a greater issue in Eastern Europe than elsewhere



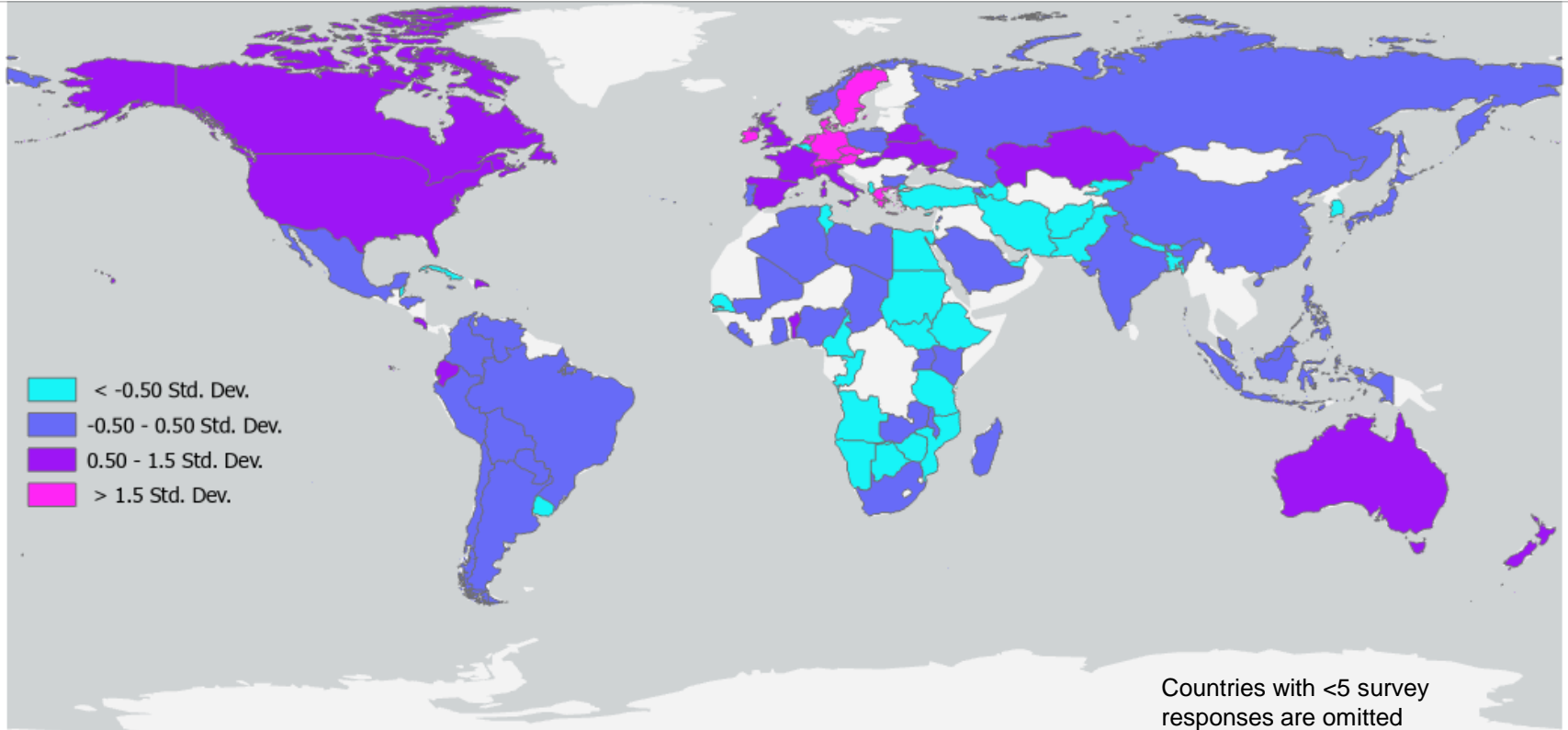
Racial equity as a personal issue is greatest in Switzerland, UAE, Hungary, Portugal, and Malta



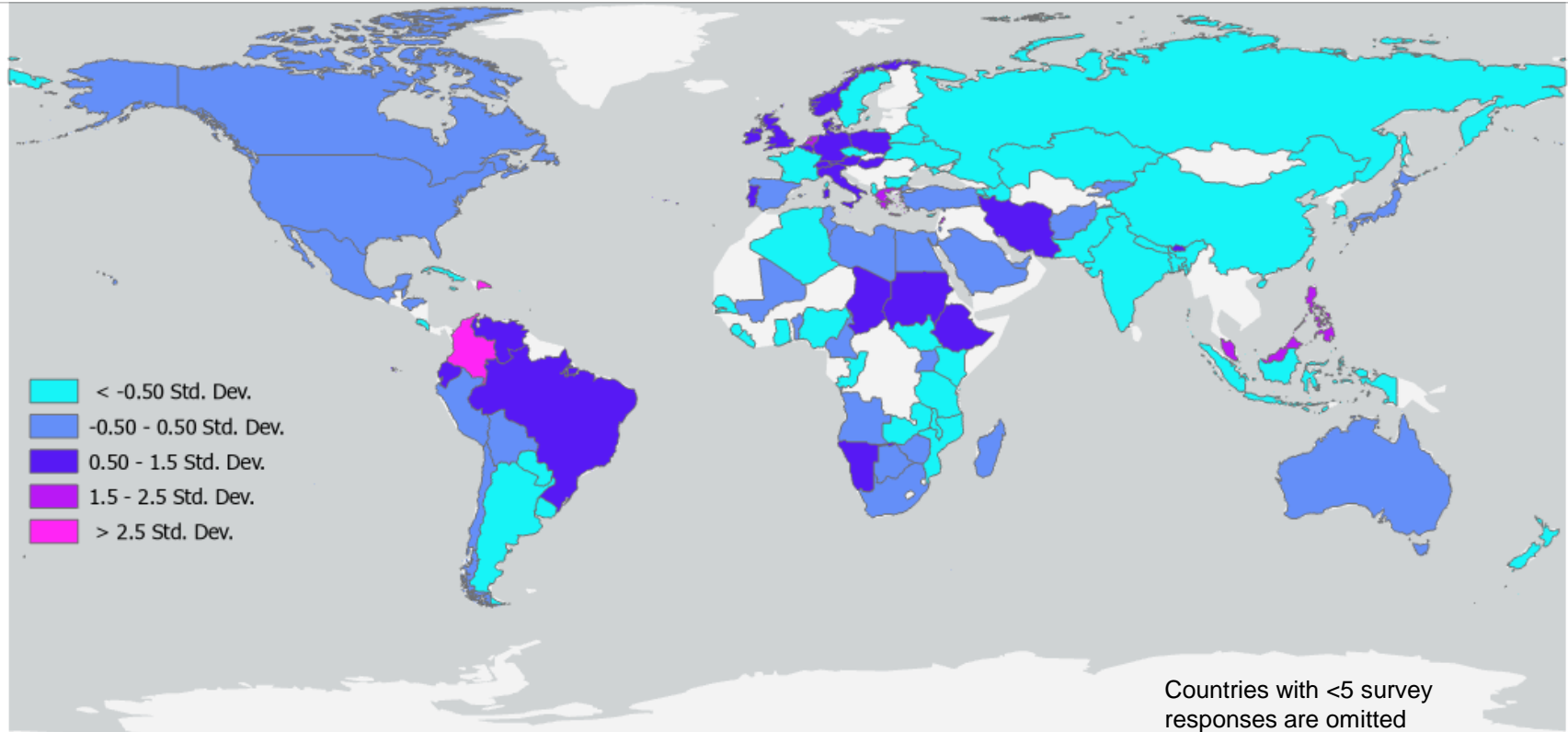
Disability rights are a universal personal issue



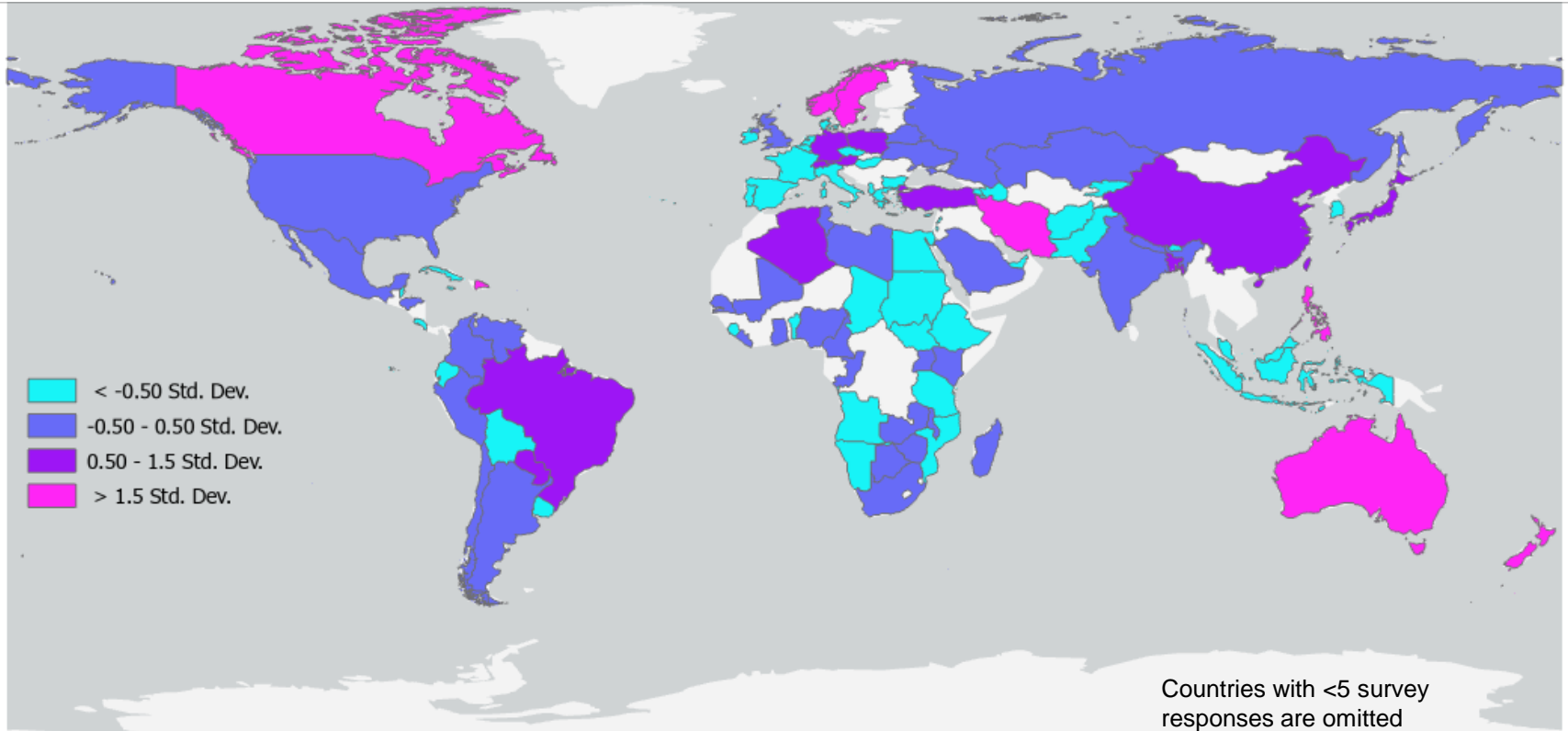
Environmental Justice is a personal issue in the developed world than elsewhere



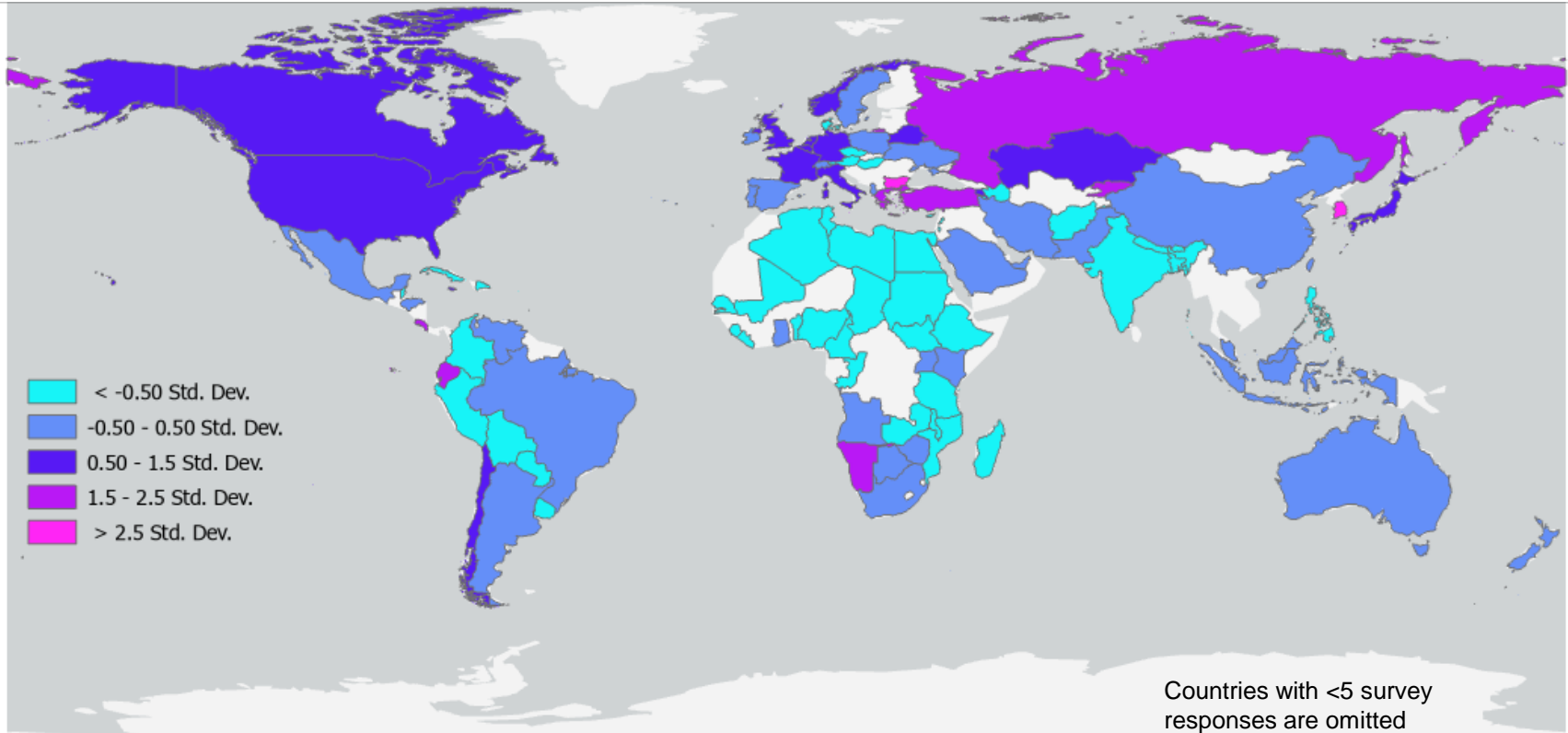
Immigrant rights is less of a personal issue in Eastern Europe/Asia than elsewhere



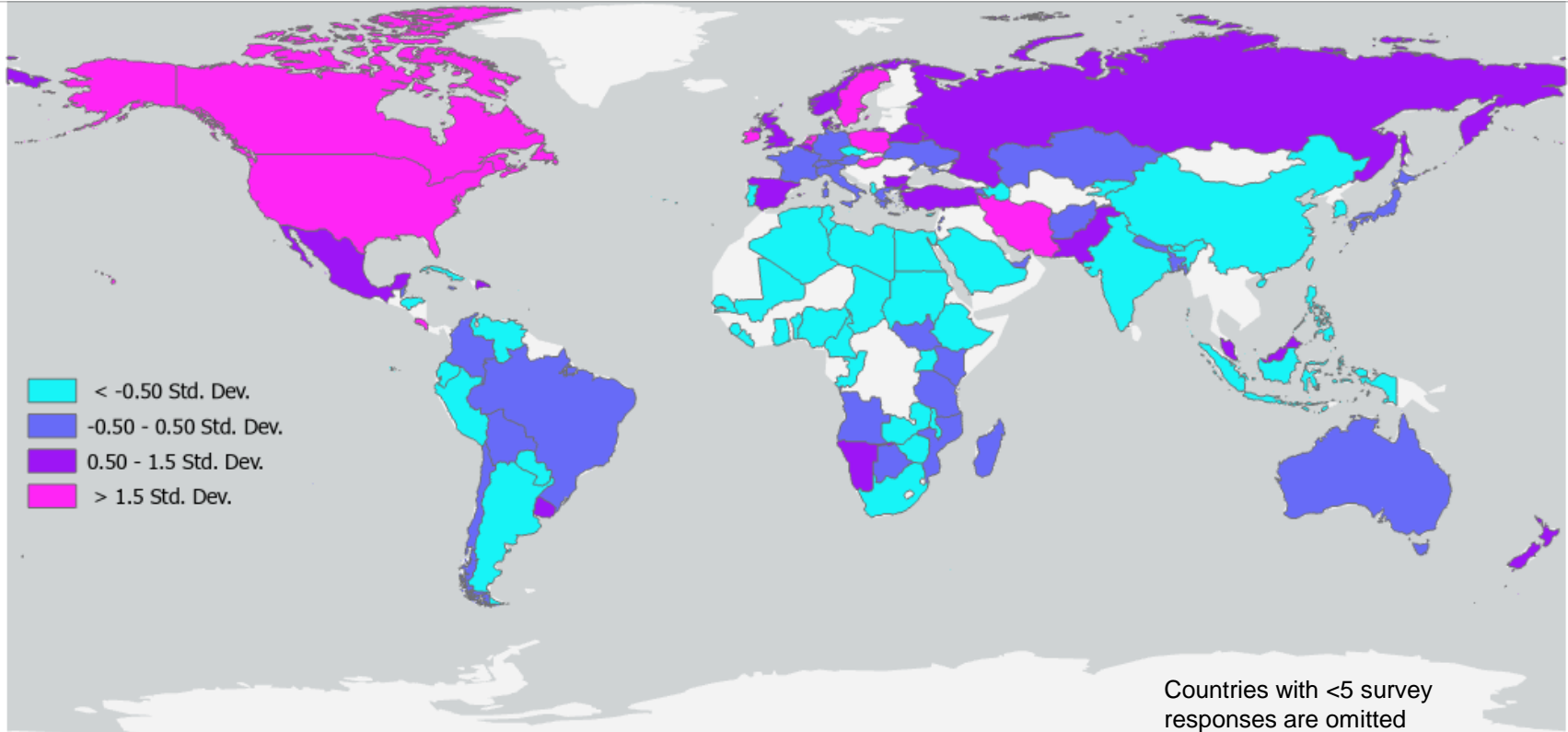
Indigenous and Roma rights (personal issue) - next steps: correlate with indigenous populations?



LGBTQI+ rights (personal issue) are lower in India, northern Africa, and South America than elsewhere



Bodily autonomy/Reproductive Freedom as a personal issue is greatest in North America, Costa Rica, northern Europe, and Iran



Sexual Freedom as a personal right tends to be high in the developing world, Ireland, and Belgium

