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Senior Research Fellow and director of
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RRING



Professional Background

e.jensen@icorsa.org

Senior Research Fellow and director of
ICoRSA Policy Research Unit

- RRING.eu
- GRRIP.eu
- MUSICA-project.eu

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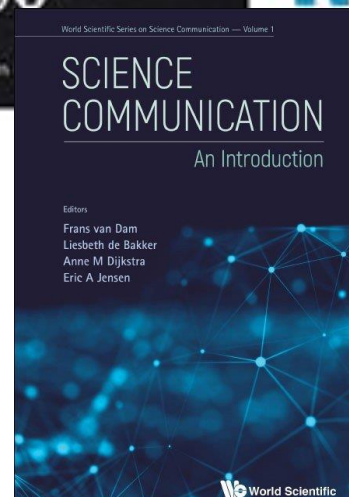
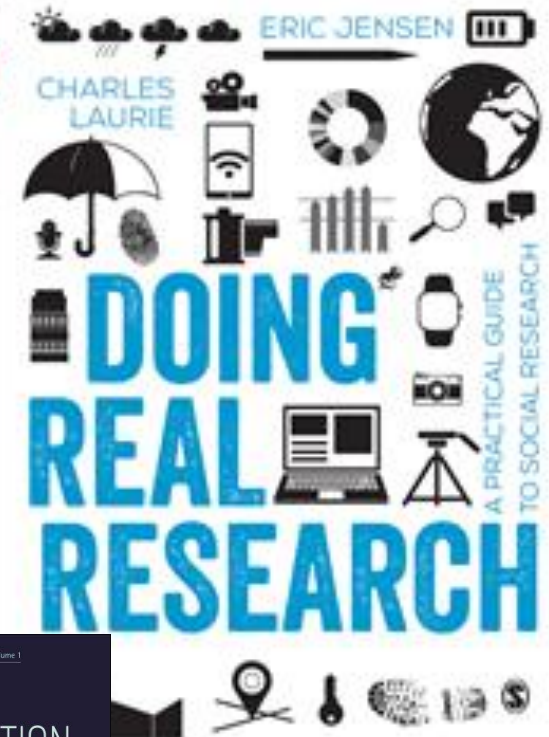
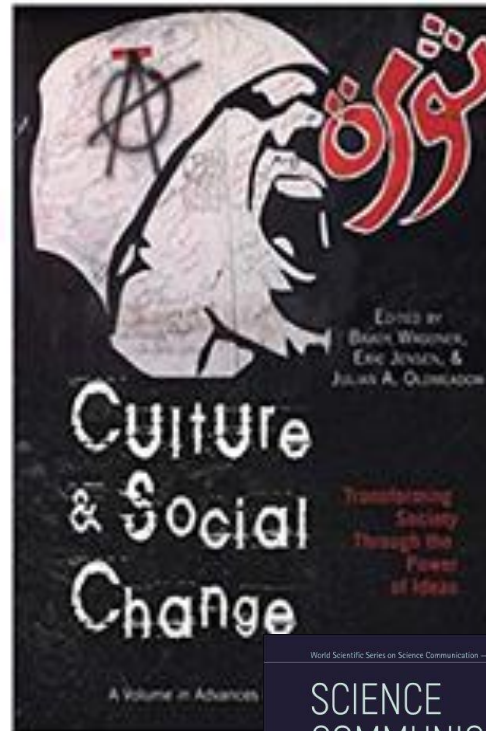


Background

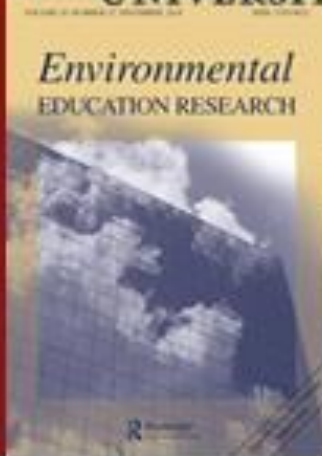
- Academic background:
 - Communication (US)
 - Psychology (US)
 - Sociology (UK)
- PhD, Sociology



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CAMBRIDGE



100+ Engagement & Impact-related Publications





Experience



Australian Research Data Commons



European Space Agency



World Association of Zoos and Aquariums | WAZA
United for Conservation



Department for
Business, Energy
& Industrial Strategy



Department
for Environment
Food & Rural Affairs



UNIVERSITY OF
CAMBRIDGE



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UNIVERSITY OF CAMBRIDGE

UNIVERSITY OF CAMBRIDGE
Science Festival

THE
NATIONAL GALLERY



national museum
cymru wales

CHESTER ZOO

THE  **TIMES**
CHELTENHAM FESTIVALS

SCIENCE

UNIVERSITY OF CAMBRIDGE



UNIVERSITY OF CAMBRIDGE
MUSEUMS & BOTANIC GARDEN

OXFORD UNIVERSITY
MUSEUM OF NATURAL HISTORY



 **University of Glasgow**



Trinity College Dublin

The University of Dublin



UNIVERSITY OF
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SCIENCE

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ICoRSA – International Consortium of Research Staff Associations



INTERNATIONAL CONSORTIUM OF RESEARCH STAFF ASSOCIATIONS

icorsa.org

RRING project (rring.eu)



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About RRING

Overall aim:

- Bring socially responsible research and innovation (RRI) into the linked up global world to promote mutual learning and collaboration

Achieved by:

- Forming a global RRING community network
- Developing and mobilising a global Open Access RRI knowledge base
- Align RRI to the Sustainable Development Goals (SDGs) as a global common denominator
- Bottom-up approach, learning from best practices in RRI

RRING acknowledges that each region of the world is advancing its own agenda on socially responsible research and innovation.

Global research on socially responsible research/innovation

Qualitative Interviews research

- 113 full-length interviews
 - Conducted by a combination of project partners and subcontractors across the five geographical world regions
- Qualitative content analysis completed and write-up underway

Qualitative Interviews (global)

Regional distribution	Country	No. of interviews conducted	Domain coverage				Stakeholder type coverage				
			Energy	Waste	ICT	Bio-economy	RPO	RFO	Industry	CSO	Policy bodies
Europe and North America	UK	8	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Italy	5	✓	✓	✓	✓	✓		✓		✓
	USA	5	✓			✓	✓	✓			
	Serbia	6	✓	✓	✓	✓	✓		✓	✓	
Sub-Saharan Africa	Botswana	3	✓	✓	✓	✓	✓	✓			
	Malawi	8	✓	✓	✓	✓	✓	✓	✓	✓	
	South Africa	10	✓	✓	✓	✓	✓	✓		✓	✓
Asia	India	6	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Singapore	2	✓		✓		✓				✓
	Japan	5	✓	✓	✓	✓	✓	✓			
Latin America and the Caribbean	Uruguay	5	✓	✓	✓	✓		✓			✓
	Bolivia	9	✓	✓	✓	✓	✓		✓	✓	✓
	Brazil	7	✓	✓	✓	✓	✓	✓	✓	✓	✓
Arab World	Egypt	10	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Morocco	11	✓	✓	✓	✓	✓		✓	✓	✓
	Israel	5	✓	✓	✓	✓	✓		✓		
	Jordan	8	✓	✓	✓	✓	✓	✓	✓	✓	

=Country-wise distribution of interviews conducted with details

Defining RRI: Process Dimensions of Socially Responsible Research/Innovation (1/2)

Diverse & inclusive

- *Involve early a wide range of actors and publics in R&I practice, deliberation, and decision-making to yield more useful and higher quality knowledge. This strengthens democracy and broadens sources of expertise, disciplines and perspectives.*

Anticipative & reflective

- *Envision impacts and reflect on the underlying assumptions, values, and purposes to better understand how R&I shapes the future. This yields to valuable insights and increase our capacity to act on what we know.*

As summarized by RRI Tools: rri-tools.eu/about-rri

Defining RRI:

Process Dimensions of Socially Responsible Research/Innovation (2/2)

Open & transparent

- *Communicate in a balanced, meaningful way methods, results, conclusions, and implications to enable public scrutiny and dialogue. This benefits the visibility and understanding of R&I.*

Responsive & adaptive to change

- *Be able to modify modes of thought and behaviour, overarching organizational structures, in response to changing circumstances, knowledge, and perspectives. This aligns action with the needs expressed by stakeholders and publics.*

As summarized by RRI Tools: rri-tools.eu/about-rri

Defining RRI: EU RRI Policy Keys

The survey further integrates and addresses all six RRI policy keys:

- **Ethics**
- **Gender Equality**
- **Governance**
- **Open Access**
- **Public Engagement**
- **Science Education**

As summarized by RRI Tools: rri-tools.eu/about-rri

Global Survey of Researchers and Innovators

- Surveys
 - Development of a survey, then two rounds of in-depth pilot testing and refinement



Survey Design

Good Practice and Timeline

- The survey was open from **1 October 2019** to **20 December 2019**

'It is important to make data from my research and innovation <i>activities</i> <u>freely available to the public.</u> '	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
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In the last 12 months, have you taken steps to make data from your research and innovation *activities* freely available to the public?

☐ Yes

☐ No

Variables Covered

Demographic Information

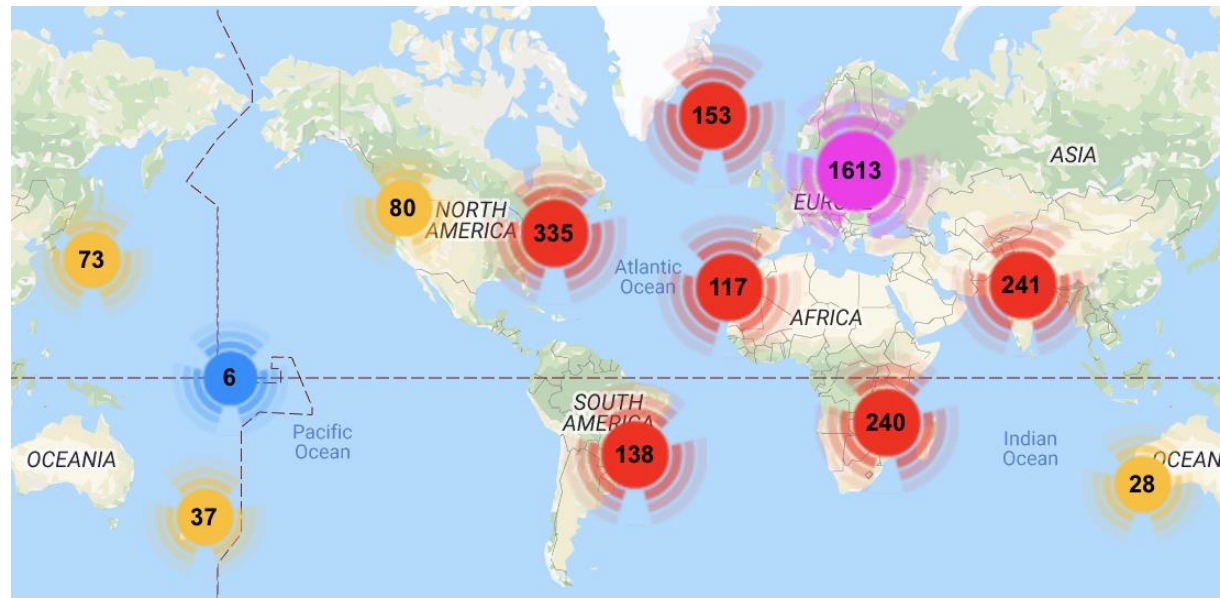
- Age
- Gender
- Nationality
- Native Language
- Level of Education & Subject of Schooling
- Location of Schooling & Professional Career
- Time in current position of career

Variables Covered in Survey

- General Science, tech and innovation fields :
 - Natural sciences, mathematics and statistics
 - Engineering and technology
 - Medical and health sciences
 - Agricultural sciences
 - Social sciences
 - Humanities
- Respondents could further indicate sub-fields for each STI field
e.g.: Mathematics, Computer and information sciences, Physical sciences, Chemical sciences, etc.
- Work Sector, e.g. University/college, government agency, industry / commercial, etc.

Global Survey of Researchers and Innovators Overview

- **2198 responses** with a completion rate of 70% or more
- **539 responses** with a completion rate of less than 70%
- Average completion rate of survey is **97%**
- Respondents on average took **33 minutes** to complete the survey




The Five RRING World Regions for Analysis

- European and North American States
- Latin-American and Caribbean States
- Asian and Pacific States
- African States
- Arab States

Defined following the UNESCO regions of the world

Sample Profile by UNESCO World Regions (and India)

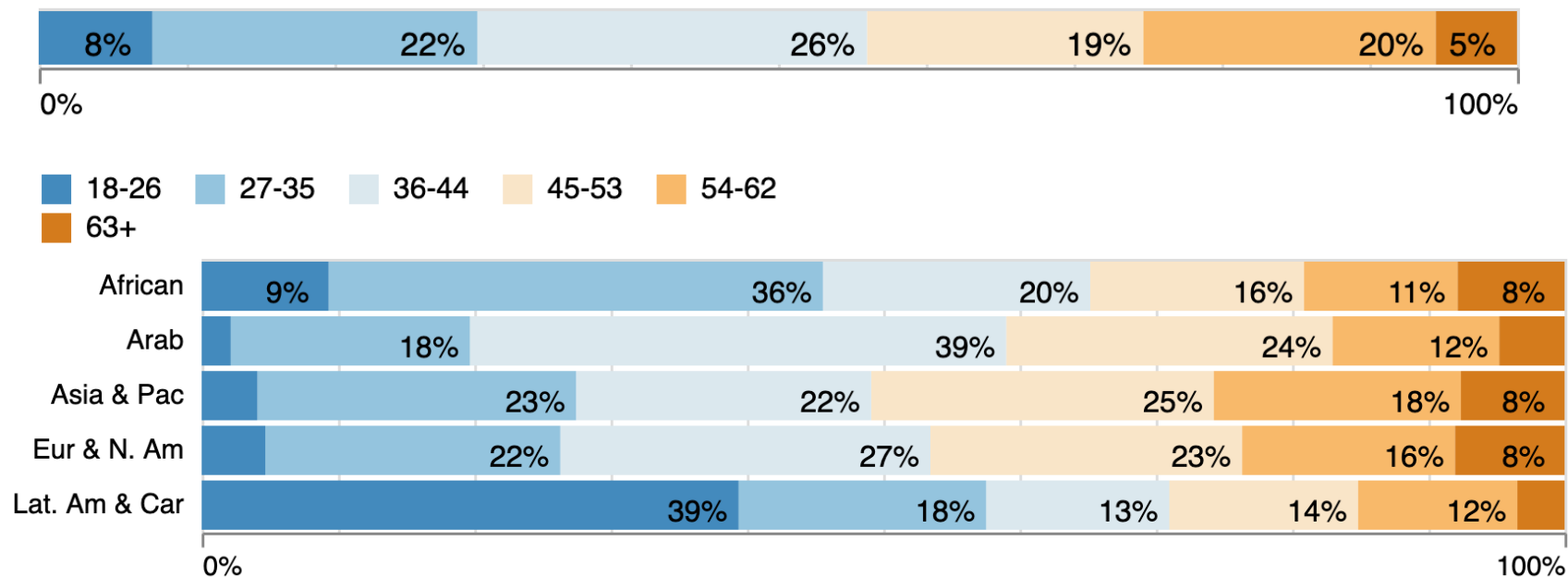
- For this analysis, results from India are displayed separately, although India data remains part of the UNESCO world region “Asian and Pacific States”.

Region	n*	male	female	other	Prefer not to say
African States	239	133	87	0	5
Arab States	237	116	89	0	0
Asian and Pacific States	231	107	89	0	8
European and North American States	1958	769	901	5	38
Latin-American and Caribbean States	258	126	104	2	3
 India	125	61	40	0	0

*n=3048, includes completion rates <5% and responses not answering the gender question

Sample Profile: Age

Distribution of Age – India



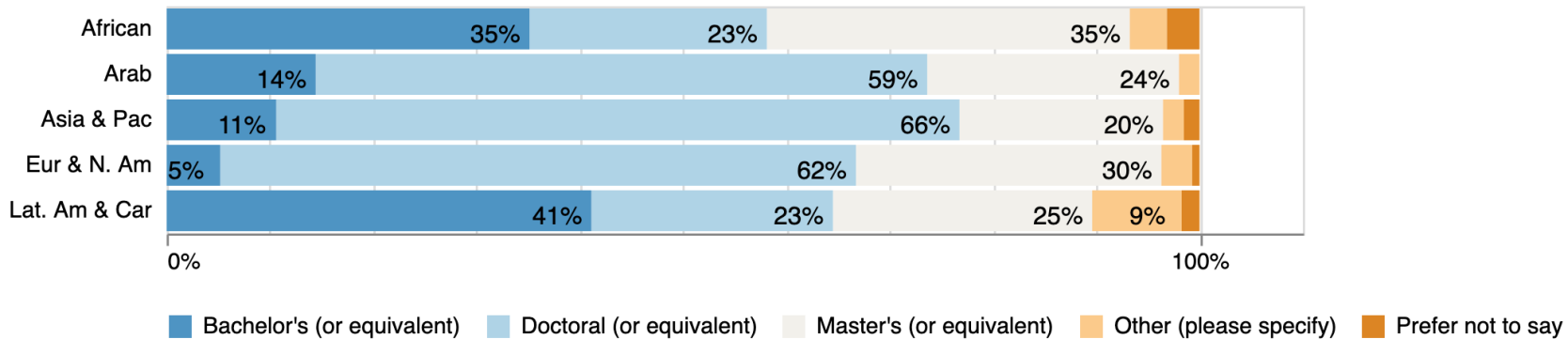
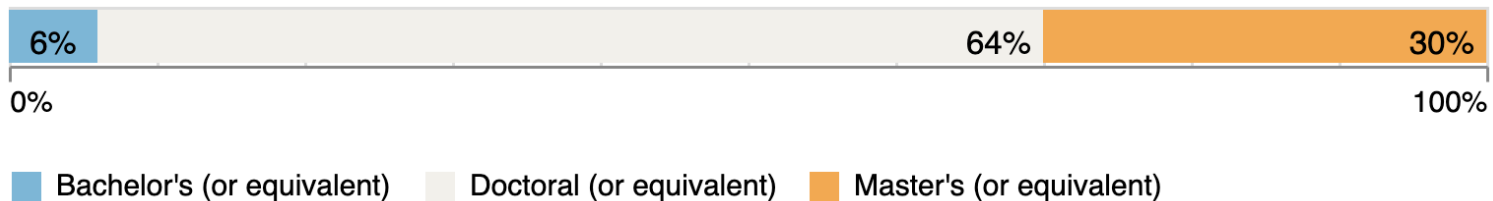
In what year were you born?

n=2428

[African=204, Arab=188, Asia & Pac=171, Eur & N. Am=1543, Lat. Am & Car=231, India=91]

Sample Profile: Highest Degree

Highest level of formal education completed – India

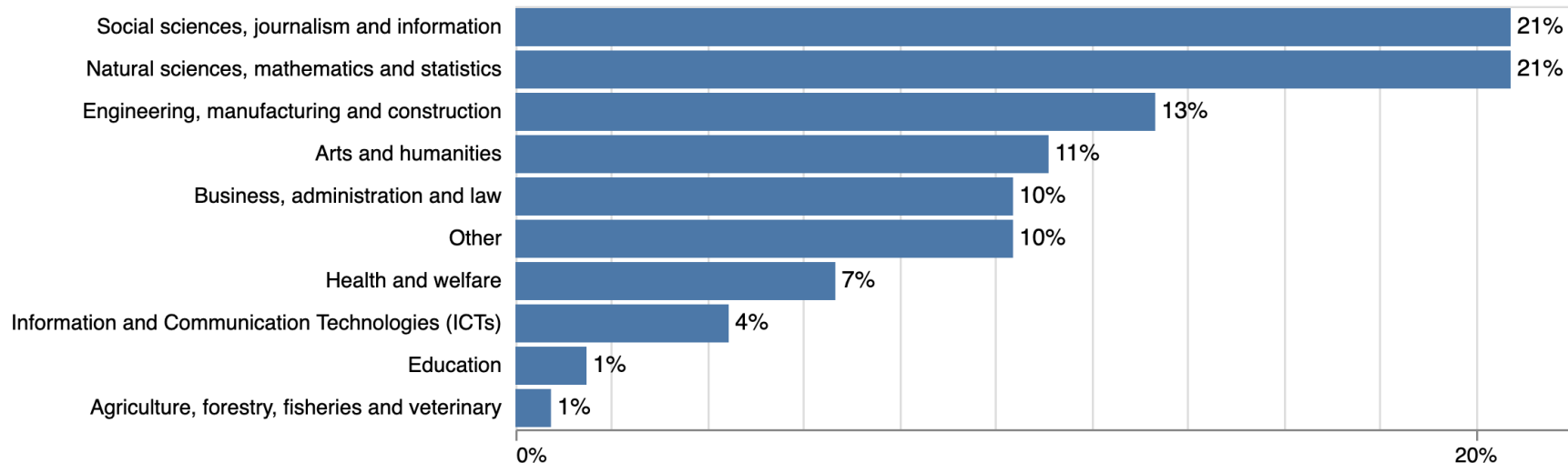


Which general subject area(s) do you hold degrees in (at or above the bachelor's level)?

n=2630

[African=222, Arab=201, Asia & Pac=198, Eur & N. Am=1678, Lat. Am & Car=231, India=100]

Sample Profile: Subject Area of Degree(s) – India



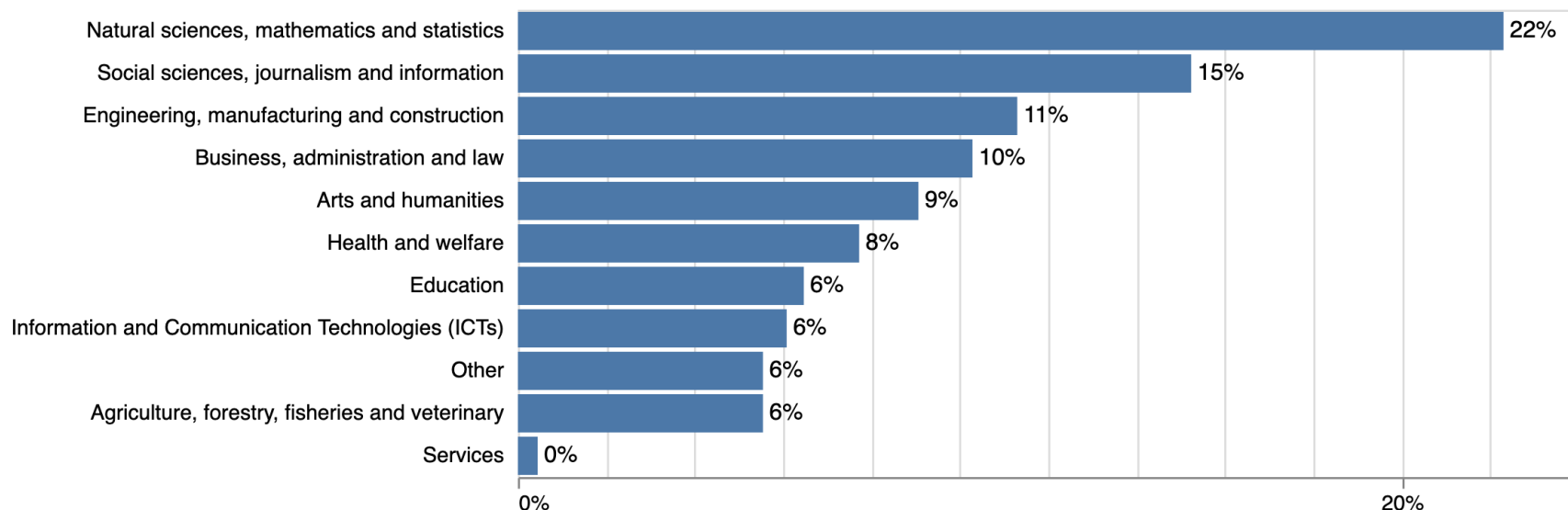
*Which general subject area(s) do you hold degrees in
(at or above the bachelor's level)?*

$f=135$

This question allowed multiple choices for the same respondent



Sample Profile: Subject Area of Degree(s) – Worldwide



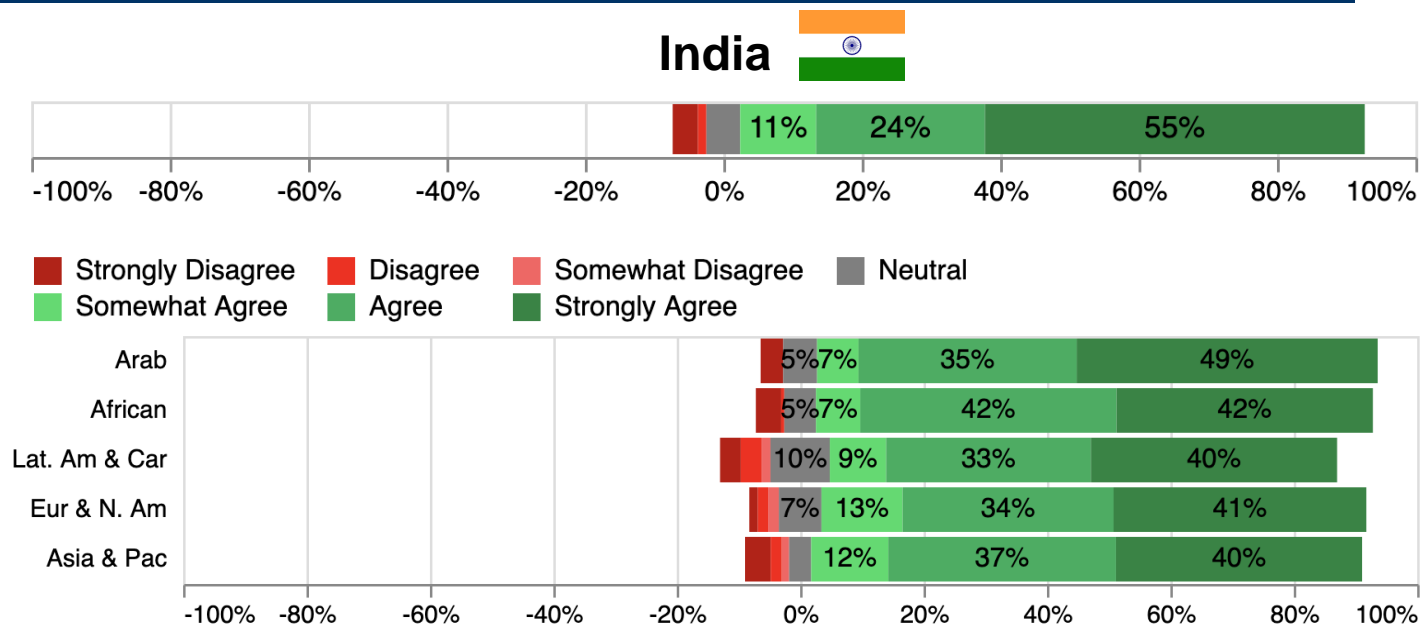
*Which general subject area(s) do you hold degrees in
(at or above the bachelor's level)?*

$f=3512$

This question allowed multiple choices for the same respondent

Results

Diverse & Inclusive: Diverse Range



'It is important to involve individuals/organizations with a diverse range of perspectives and expertise when planning my research and innovation work.'

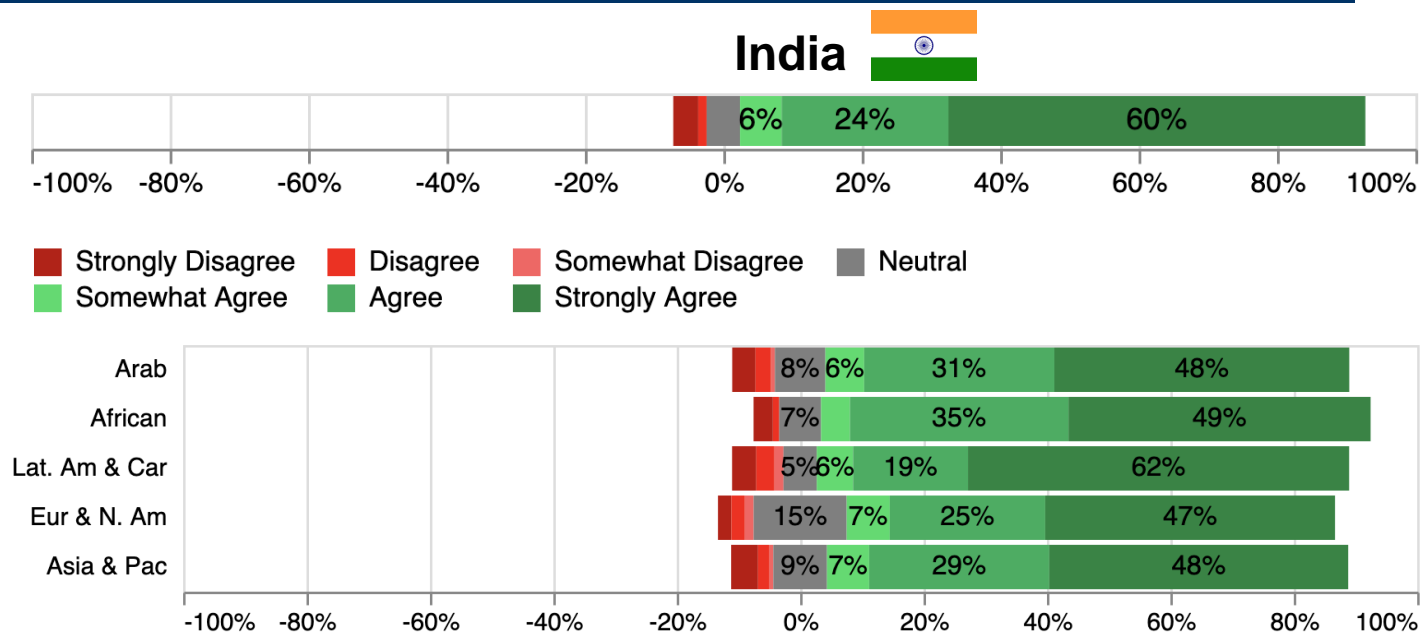
n=2194

[African=195, Arab=164, Asia & Pac=168, Eur & N. Am=1377, Lat. Am & Car=208, India=82]

- Mostly similar distribution of agreement
- India leading slightly with 55% strongly agreeing

Results

Diverse & Inclusive: Gender



'It is important to promote gender equality in my research and innovation work.'

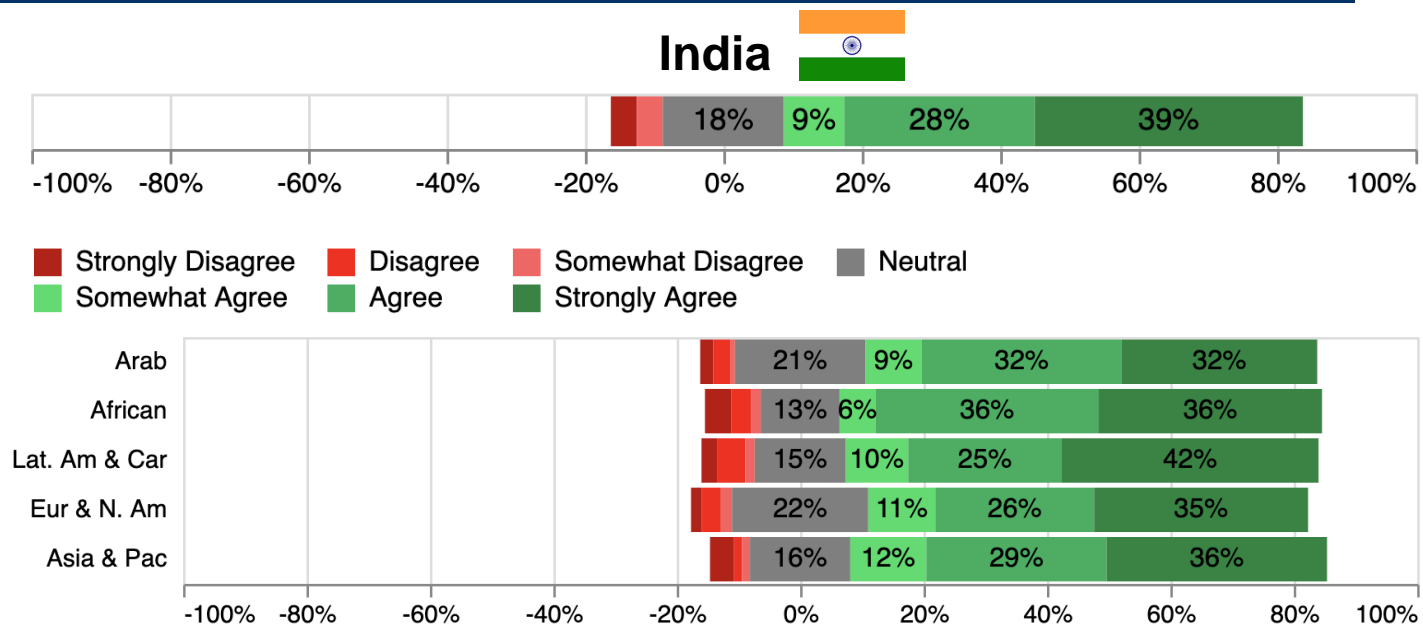
n=2132

[African=192, Arab=159, Asia & Pac=161, Eur & N. Am=1333, Lat. Am & Car=204, India=83]

- Mostly similar distribution of agreement
- Latin America leading slightly with 60% strongly agreeing
- Most neutral views in Europe and North America (15%)

Results

Diverse & Inclusive: Ethnic Minorities



'It is important to include ethnic minorities in my research and innovation work.'

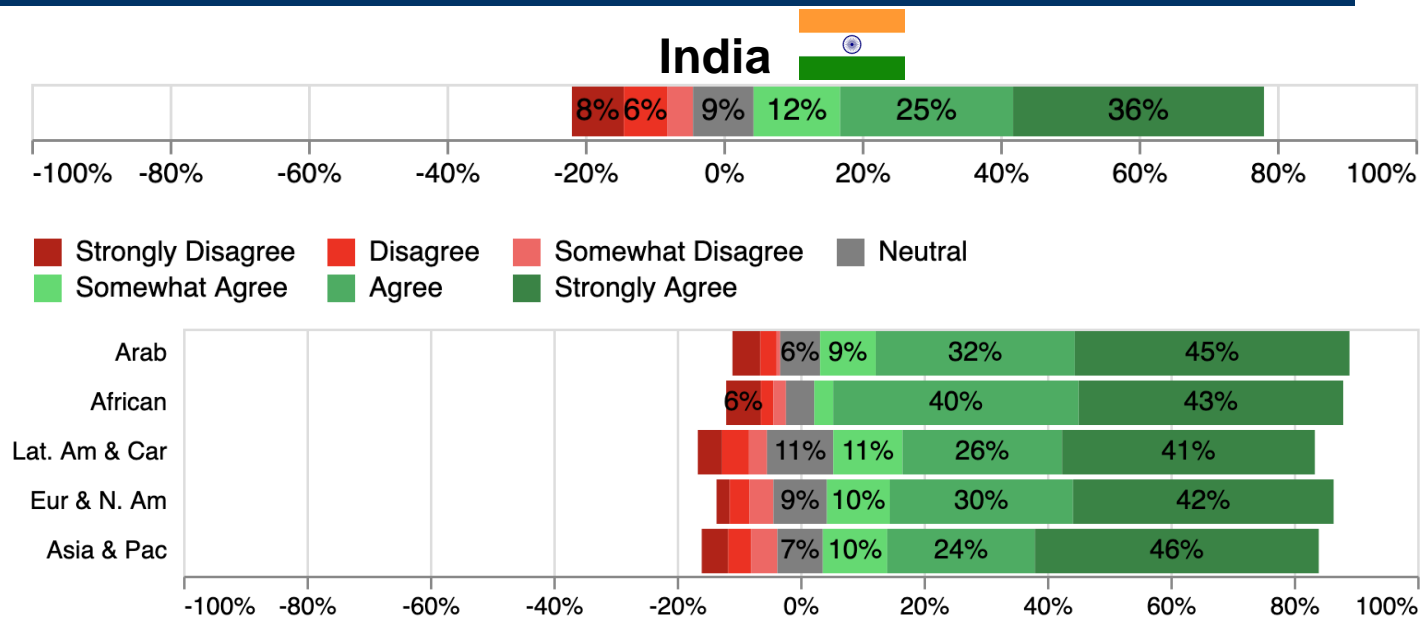
n=2039

[African=188, Arab=142, Asia & Pac=154, Eur & N. Am=1278, Lat. Am & Car=197, India=80]

- Overall sentiment leaning heavily on agreement
- Latin America and Caribbean slightly with 42% strongly agreeing
- Comparatively high percentages indicating a neutral view (13%-22%)

Results

Anticipative & Reflective: Societal Concerns



'It is important to ensure that the way I do my research and innovation work does not cause concerns for society.'

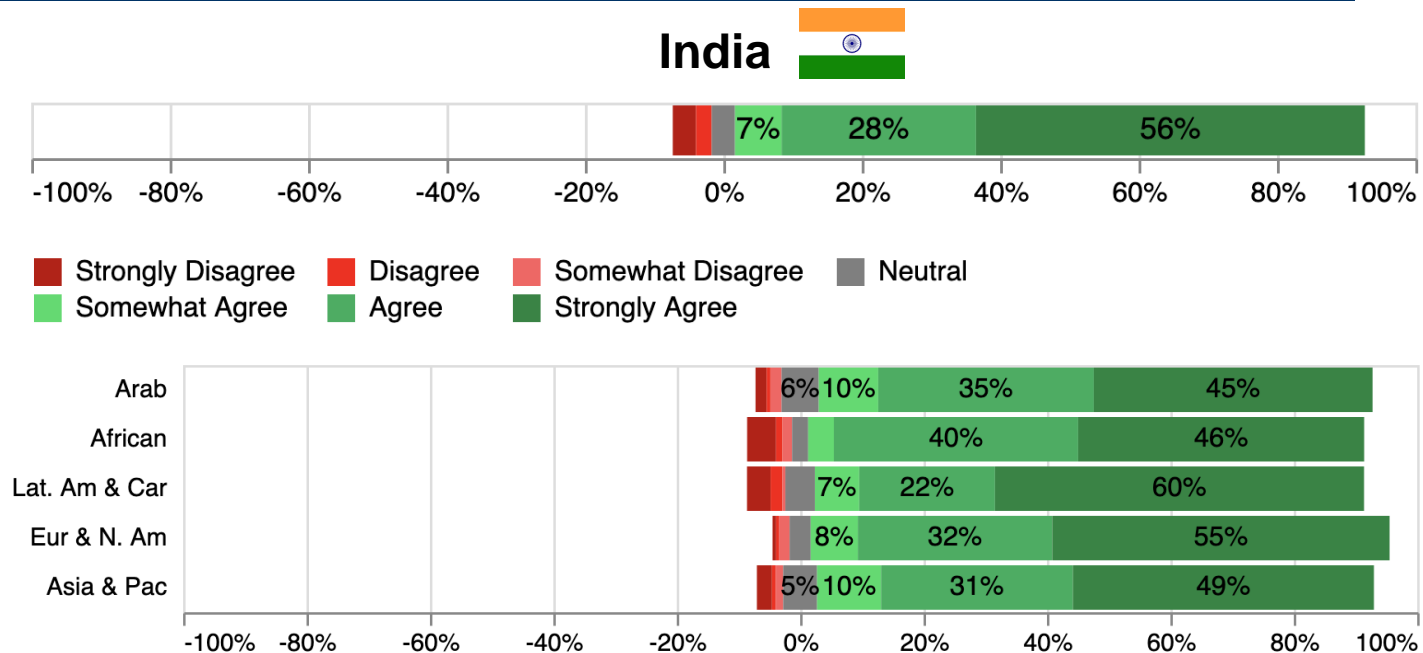
n=2113

[African=196, Arab=155, Asia & Pac=163, Eur & N. Am=1314, Lat. Am & Car=205, India=80]

- Overall sentiment leaning heavily on agreement
- Africa has the highest combined “strongly agree” and “agree” percentage (83%)
- Overall distribution of agreement is similar across regions

Results

Open and Transparent: R&I Methods and Processes



'It is important to make my research and innovation methods/processes open and transparent.'

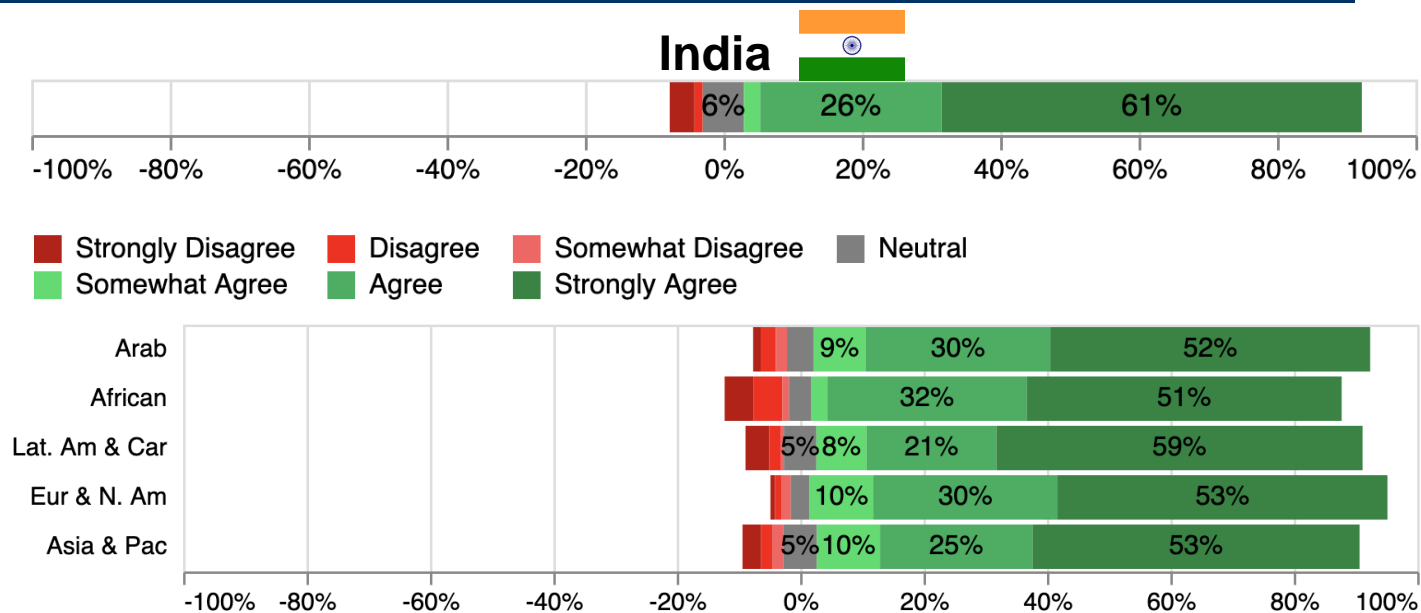
n=2194

[African=192, Arab=166, Asia & Pac=164, Eur & N. Am=1374, Lat. Am & Car=209, India=89]

- Overall sentiment leaning heavily on agreement
- Latin America leading slightly with 60% strongly agreeing

Results

Open and Transparent: R&I Work Accessibility



'It is important to make the results of my research and innovations work accessible to as wide a public as possible.'

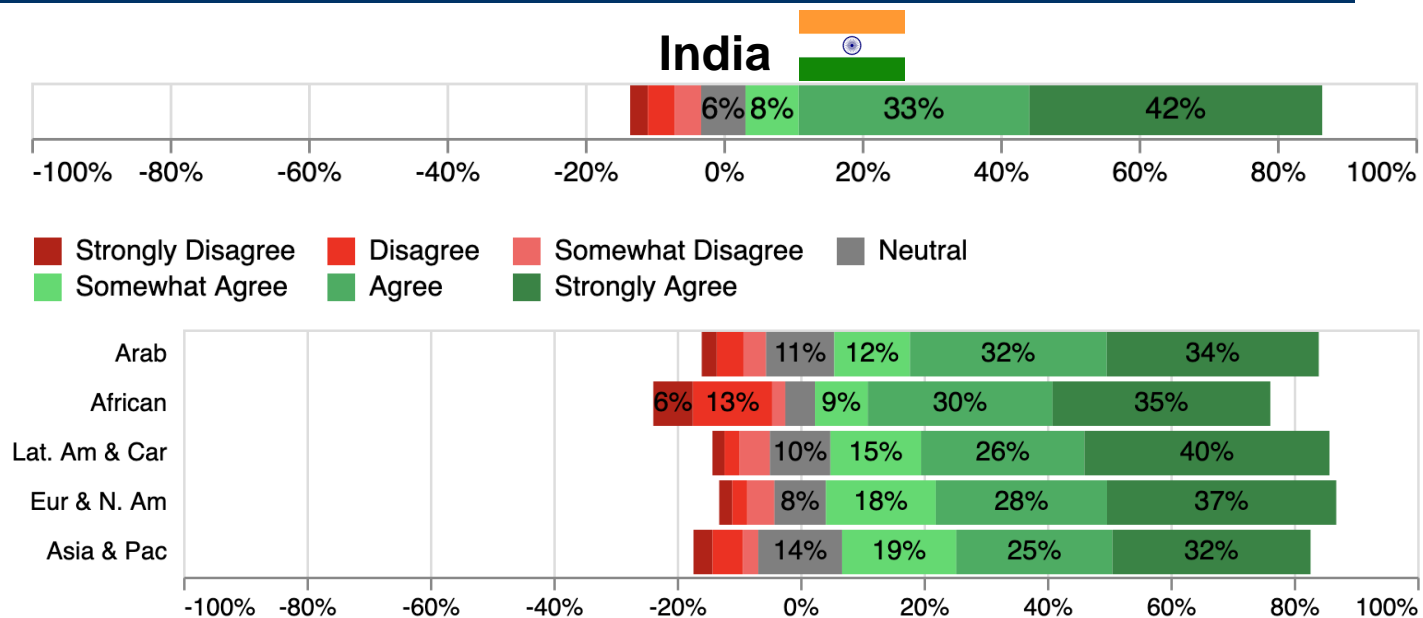
n=2175

[African=192, Arab=164, Asia & Pac=166, Eur & N. Am=1360, Lat. Am & Car=209, India=84]

- Overall sentiment leaning heavily on agreement
- Highest combined disagreement to the statement across African regions
- Overall distribution of agreement is similar across regions

Results

Open and Transparent: R&I Activity Availability



'It is important to make data from my research and innovation activities freely available to the public.'

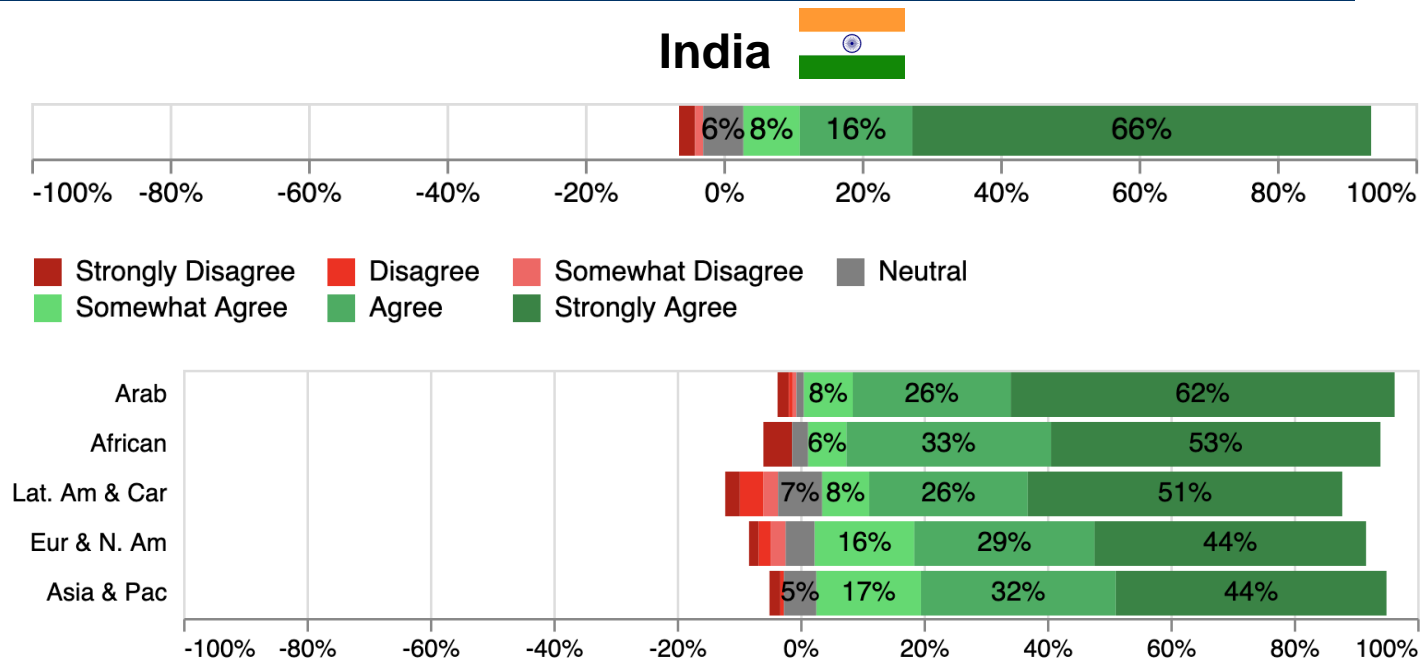
n=2113

[African=187, Arab=163, Asia & Pac=162, Eur & N. Am=1319, Lat. Am & Car=204, India=78]

- Overall sentiment leaning heavily on agreement
- Highest combined disagreement to the statement across African regions
- Overall distribution of agreement is very similar across regions

Results

Responsive & Adaptive: Societal Needs



'Research and innovation should address societal needs.'

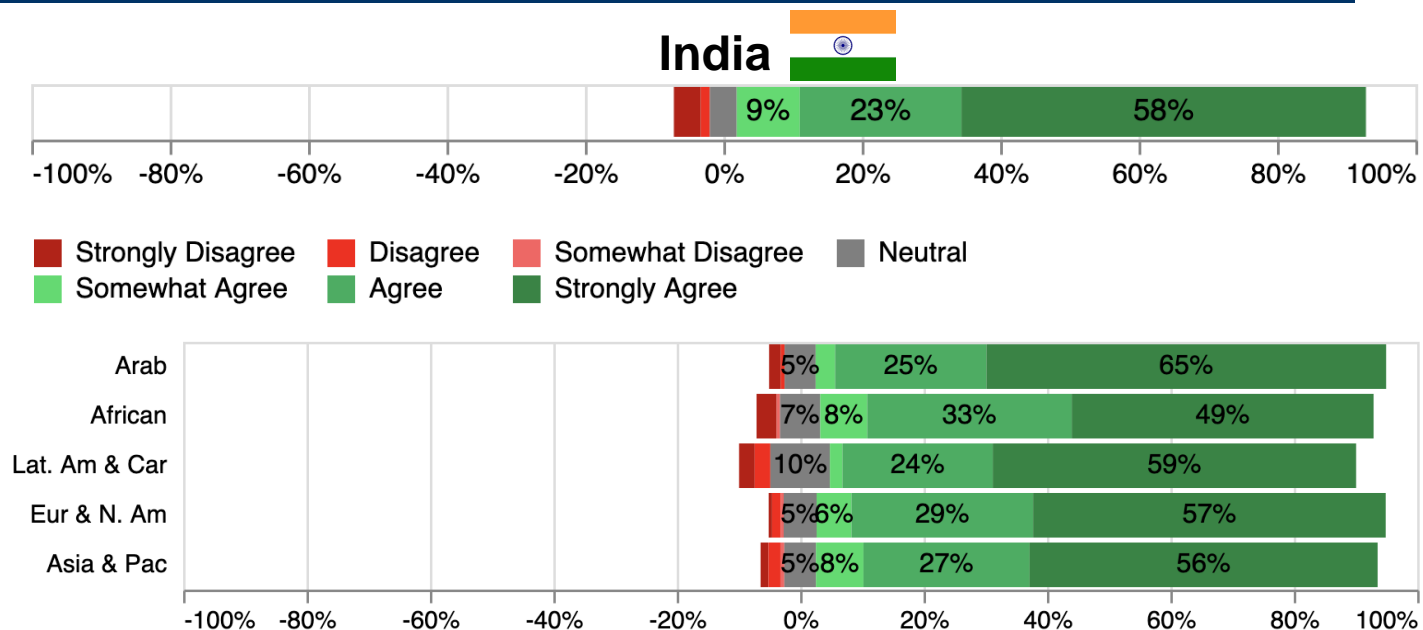
n=2224

[African=193, Arab=164, Asia & Pac=171, Eur & N. Am=1400, Lat. Am & Car=210, India=86]

- Overall sentiment leaning heavily on agreement
- Highest combined disagreement to the statement across Latin American regions
- India leading with 66% strongly agreeing

Results

Ethical Principles



'Ethical principles guide my research and innovation work.'

n=2047

[African=184, Arab=159, Asia & Pac=156, Eur & N. Am=1274, Lat. Am & Car=197, India=77]

- Overall sentiment leaning heavily on strong agreement
- Arab States leading with 65% strongly agreeing

Overall findings: Attitudes about socially responsible research/innovation

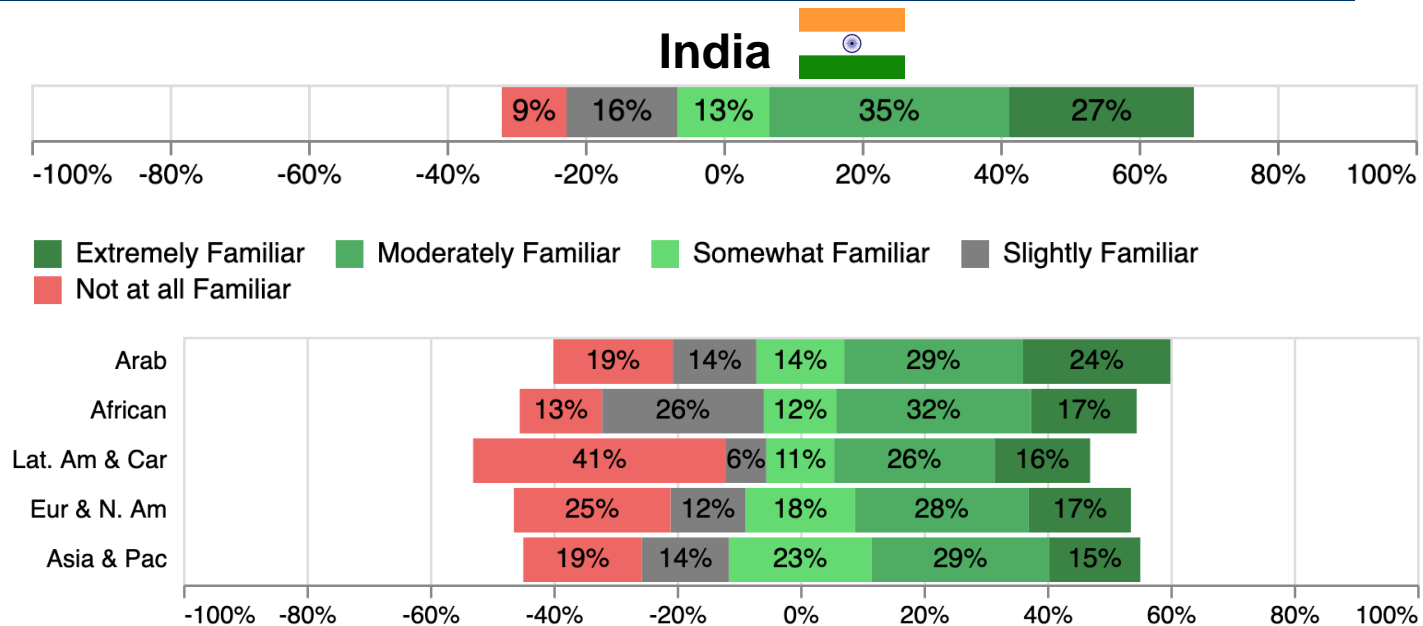
- Uniformly high ‘in principle’ agreement to wide range of socially responsible research/innovation (RRI) concepts
- Indicates general attitudinal support, although specific way this translates into practice varies dramatically.

Overall findings: Attitudes about SDGs

- Respondents from India reported much stronger familiarity with the SDGs than the global average.
- Indian respondents were also much more positive in their attitudes about the utility, relevance and value of SDGs.

Results

SDG Familiarity



How familiar are you with the UN Sustainable Development Goals?

n=2089

[African=187, Arab=155, Asia & Pac=156, Eur & N. Am=1316, Lat. Am & Car=200, India=75]

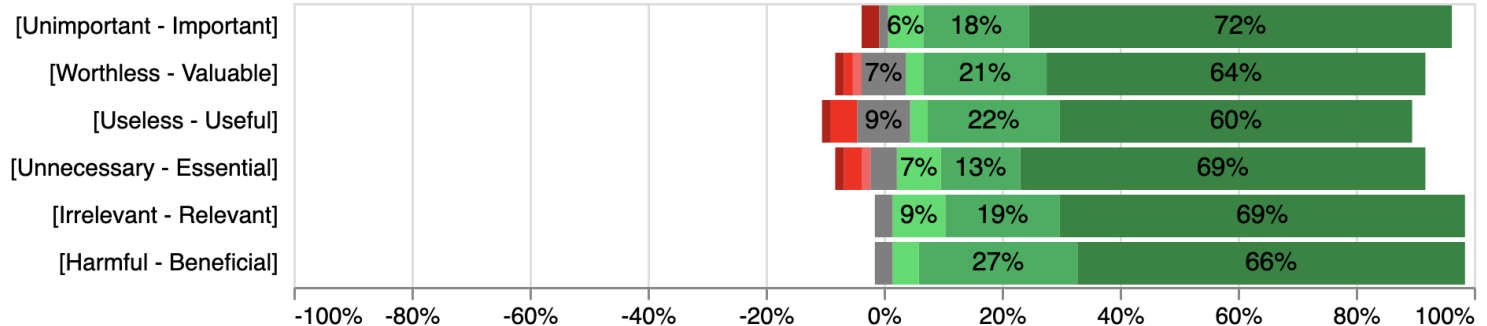
- Overall lowest familiarity with UN SDGs in the US
- Highest familiarity in India
- 41% of Latin American respondents are not at all familiar with the SDGs

Results

Views on SDGs

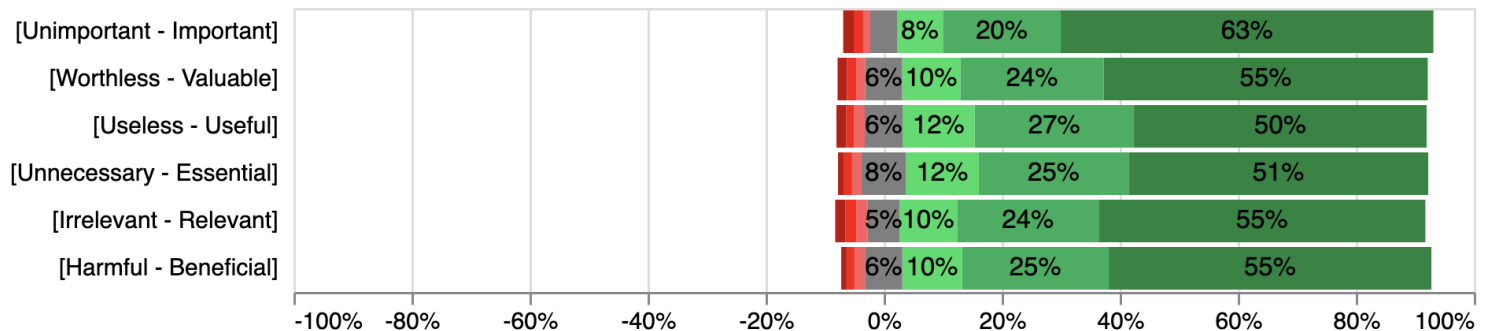
Only displayed if respondent was at least “somewhat familiar” with the SDGs

In general, I think the UN Sustainable Development Goals are...



India - Top to bottom: n=67; 67; 67; 67; 67; 67

In general, I think the UN Sustainable Development Goals are...



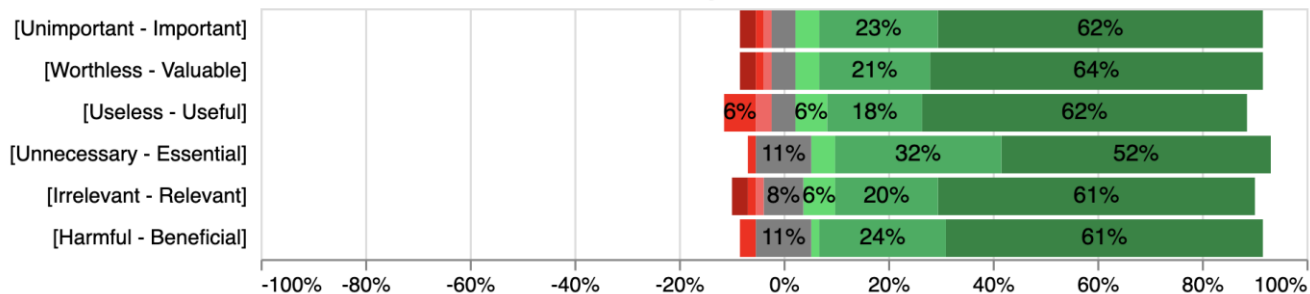
Global- Top to bottom: n=1501; 1496; 1496; 1493; 1492; 1497

Results

Views on SDGs

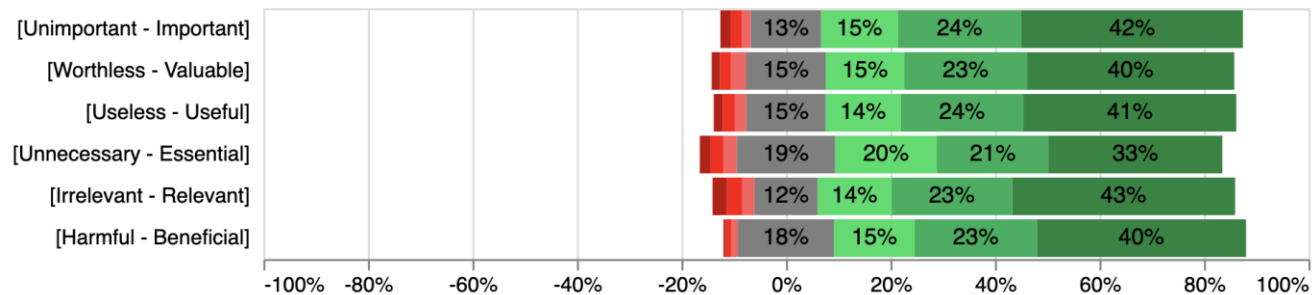
Only displayed if respondent was at least “somewhat familiar” with the SDGs

For my research/innovation work, I think the UN Sustainable Development Goals are...



India - Top to bottom: n=66; 66; 66; 66; 66; 66

For my research/innovation work, I think the UN Sustainable Development Goals are...



Global - Top to bottom: n=1493; 1493; 1491; 1491; 1494; 1491

Next Steps

- **Next Step for the survey: Analysing ‘RRI in practice’**
Evaluate practical steps to realise RRI in the last 12 months
 - **Quantitative part:** Have you taken any steps in the last 12 months to c to support this concept?
 - **Qualitative part:** If yes, which steps have you taken?
(*Content analysis underway*)

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