



# How can we include (energy) justice into energy modelling?

Go to

[www.menti.com](https://www.menti.com)

Enter the code

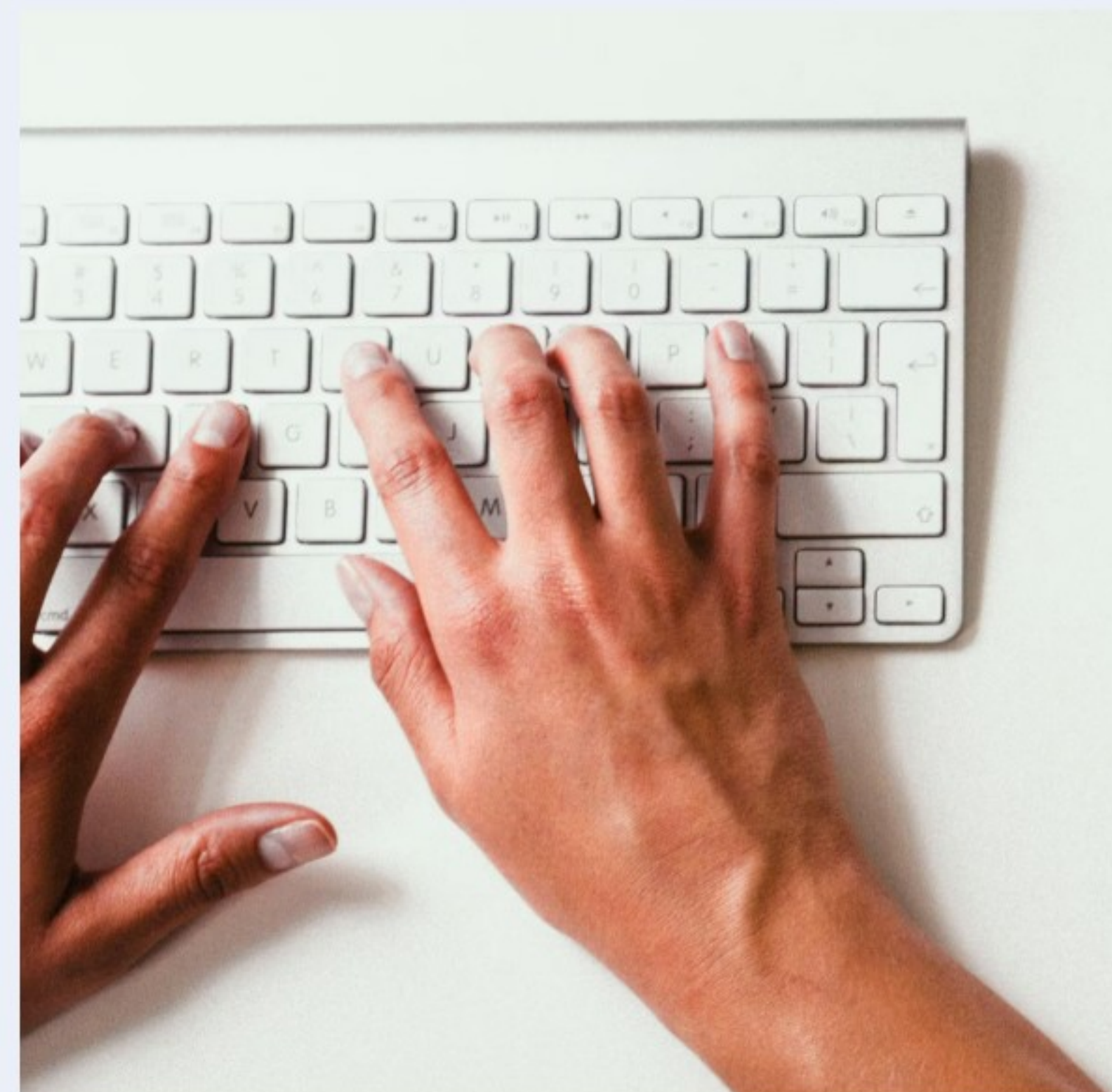
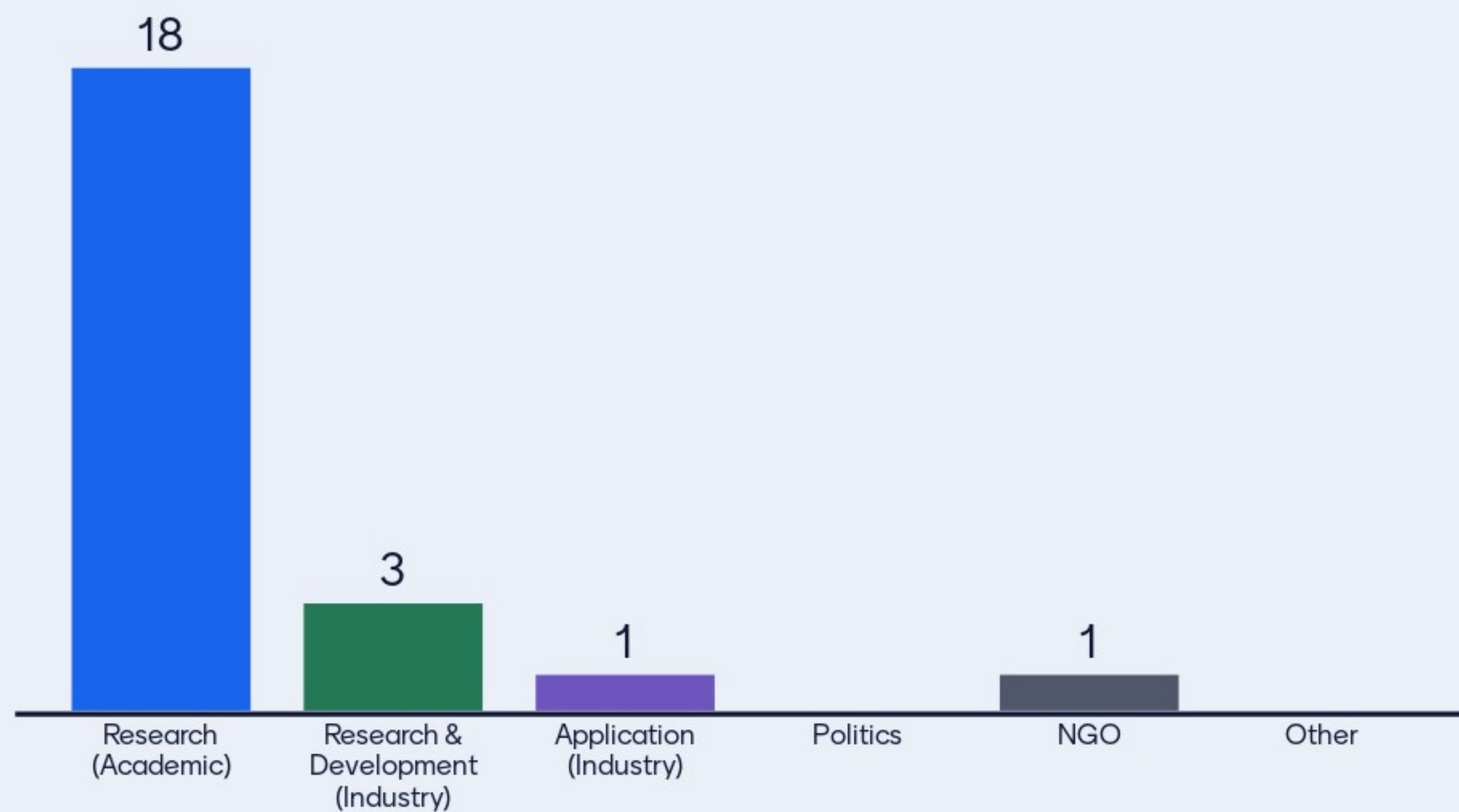
**3360 1563**



Or use QR code



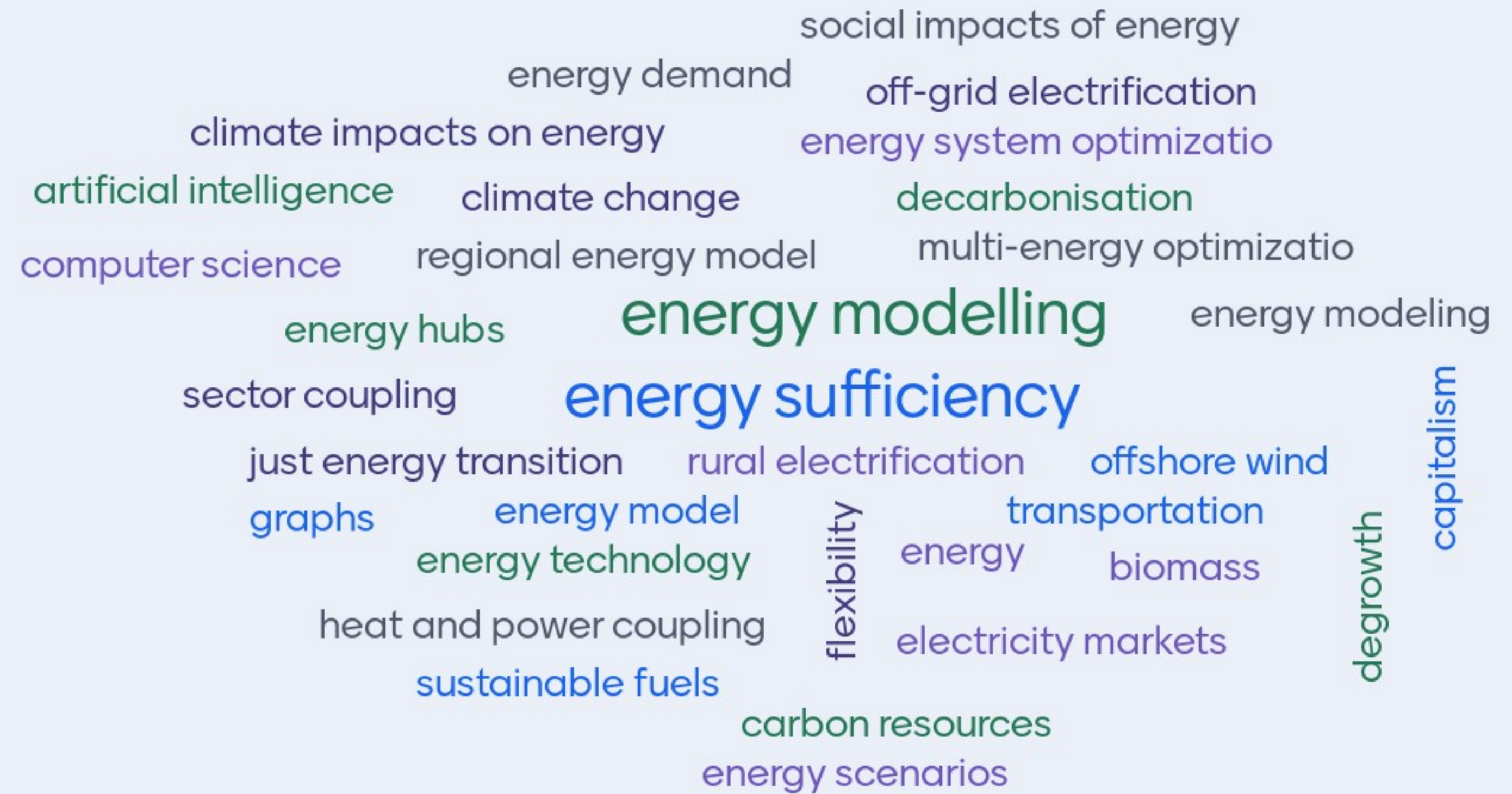
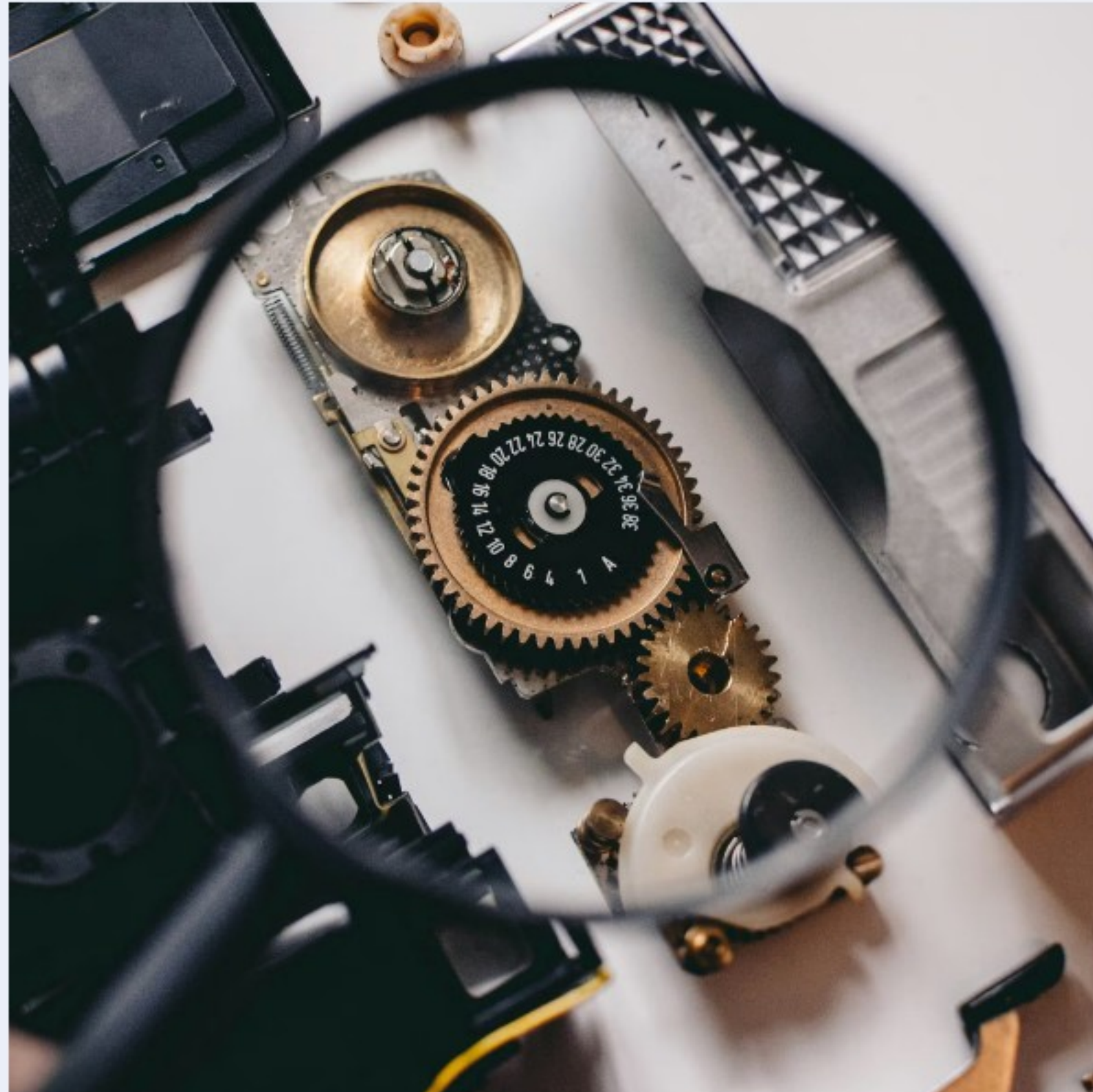
# What is your profession?





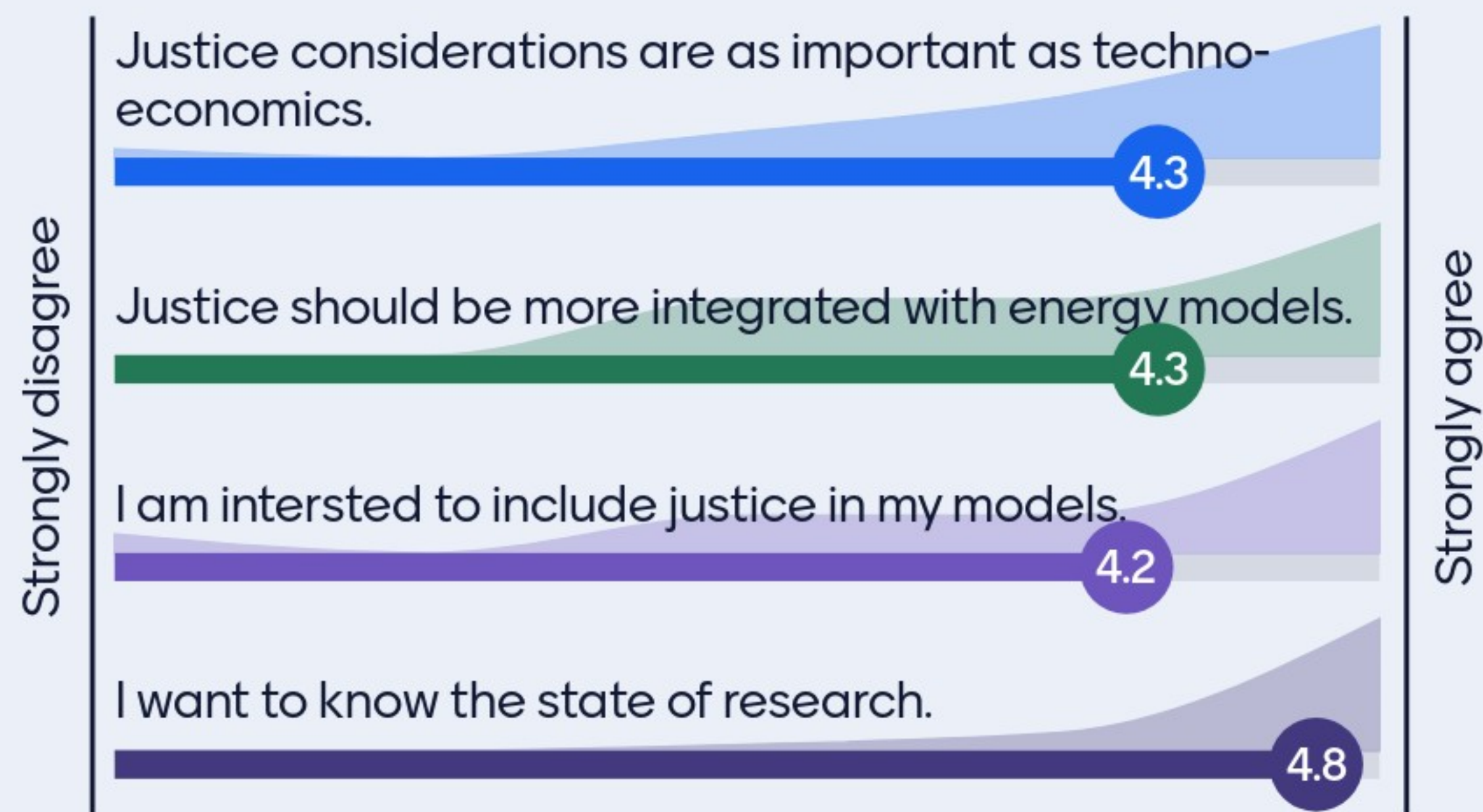
# What is your focus area?

35 responses





# What is your motivation for this workshop?





## Which challenges do you see to address justice in energy models?

Difficult to quantify

quantification

Model coupling  
challenges

embedding upstream  
externalities

Quantification of justice  
?!

Quantitative definition of  
Justice?

Should it even be in  
models rather than in  
narratives, policy?

What is justice?

2



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## Which challenges do you see to address justice in energy models?

Difficult to model

Increased model complexity

Have a global view of how much we can use compare to the rest of the world

Defining the concept of justice

common understanding, standards

Governance issues translated into constraints

I'm not sure of the definition and how to quantify the justice

Subjectivity

2



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## Which challenges do you see to adress justice in energy models?

How to define justice?  
Justice from which point  
of view?

Markets are not just

No models yet there to  
include justice

common understandings

Build some indicators like  
for LCA

how to measure injustice?

Redefinition of models:  
participation, involvement of  
minorities, ...

keep it human

2



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## Which challenges do you see to adress justice in energy models?

Lacking good data and matrix to quantfy the index in the model

Take more ressource into account and less money

Defining energy poverty

objective indicators ?

2



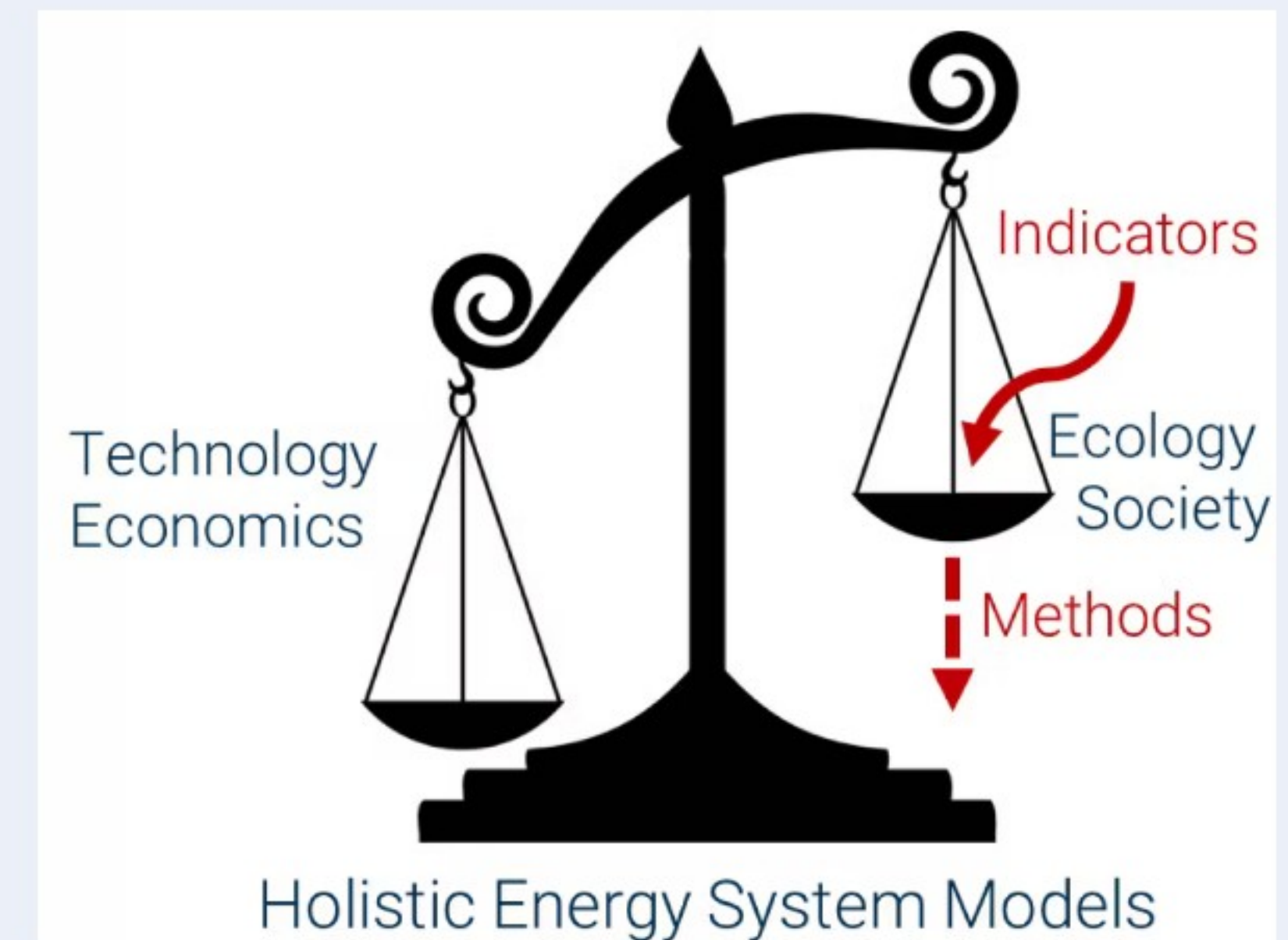
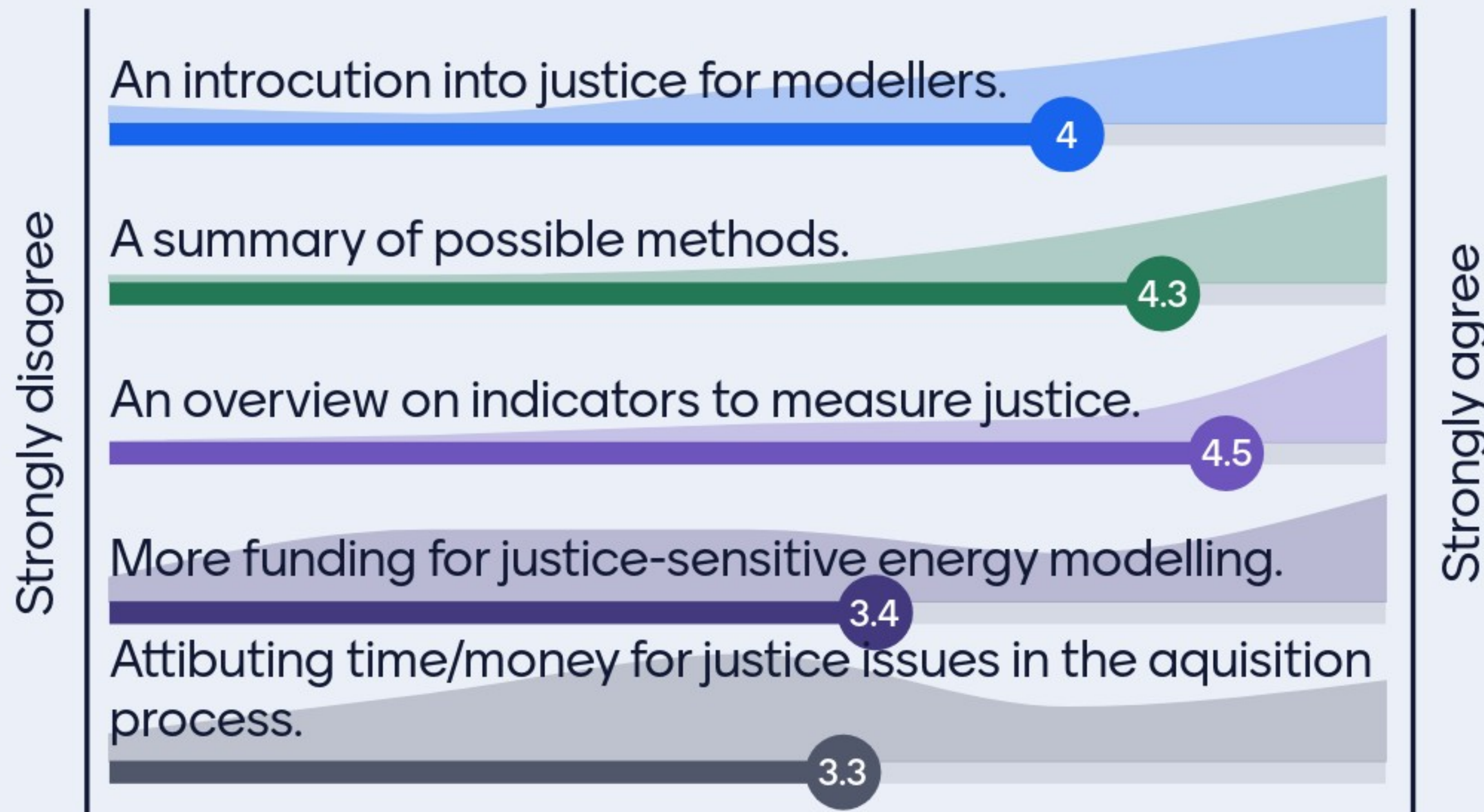
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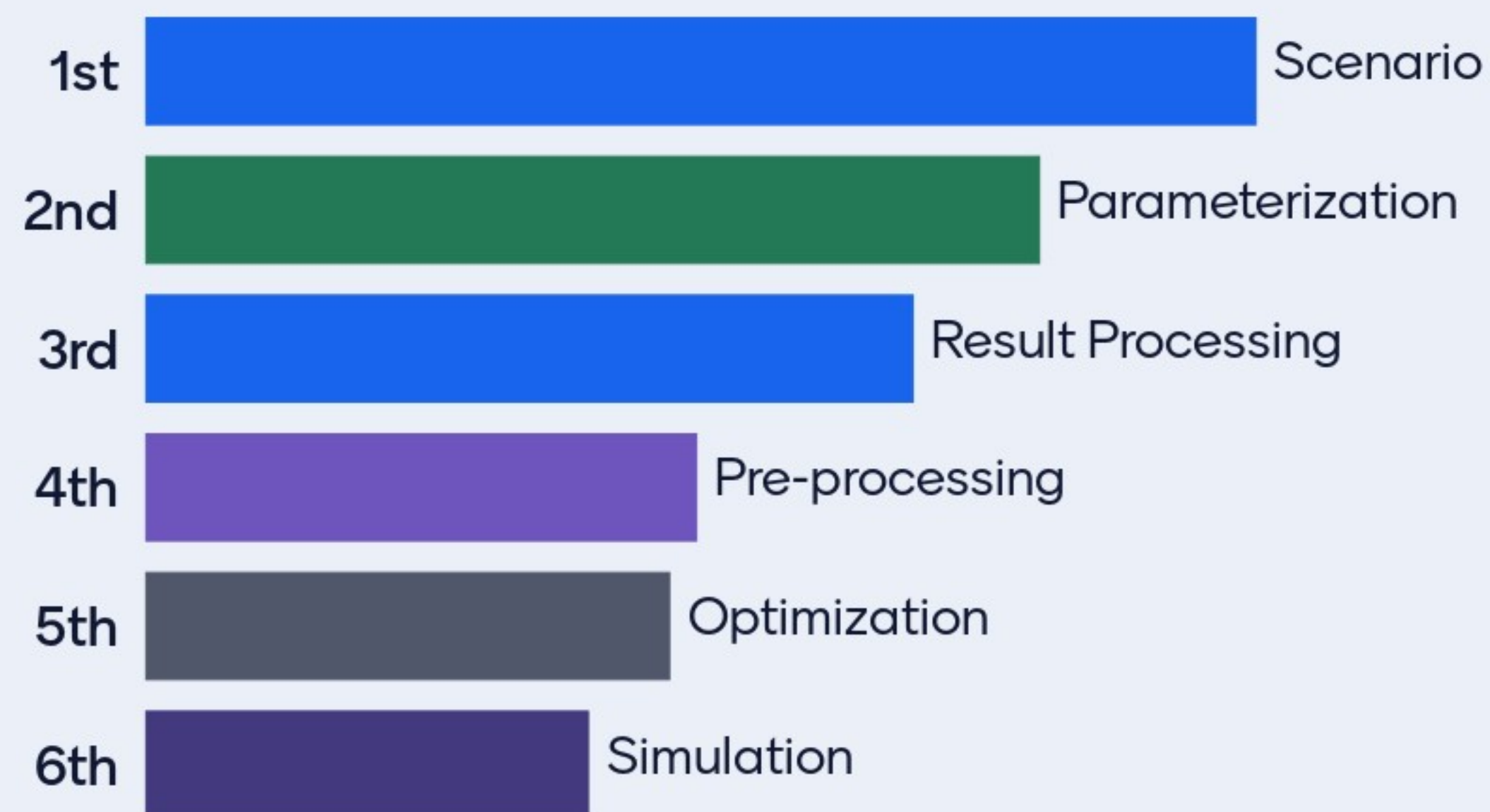


# What would help to bring justice into energy models?





# At which modelling step do you see the greatest potential to include justice?





## Breakout group topics

Opening up the way we model: representation justice, participative approaches

6 **Popular**

Scalability of a solution : would it work if everyone chose the same solution ?

5

Export from global south countries of green energy towards developed countries and neo-colonialism perception

5

Energy Sufficiency as an energy justice promotor.

5

Energy affordability

4

Energy poverty

4

How can sufficiency help to address justice?

4

Social acceptance

3

3



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## Breakout group topics

Energy burdens

3

Energy planning

3

Justice within small  
energy communities

2

Energy poverty

2

Empowerment

2

Income and wealth

1

Energy justice in  
district-level

1

common metrics for  
different indicators

1





## Breakout group topics

Health benefits

choice of technology  
modelling

Make a global plan

Characterizing users in terms  
of socio-economic factors for  
Energy justice assessment in  
local context

3

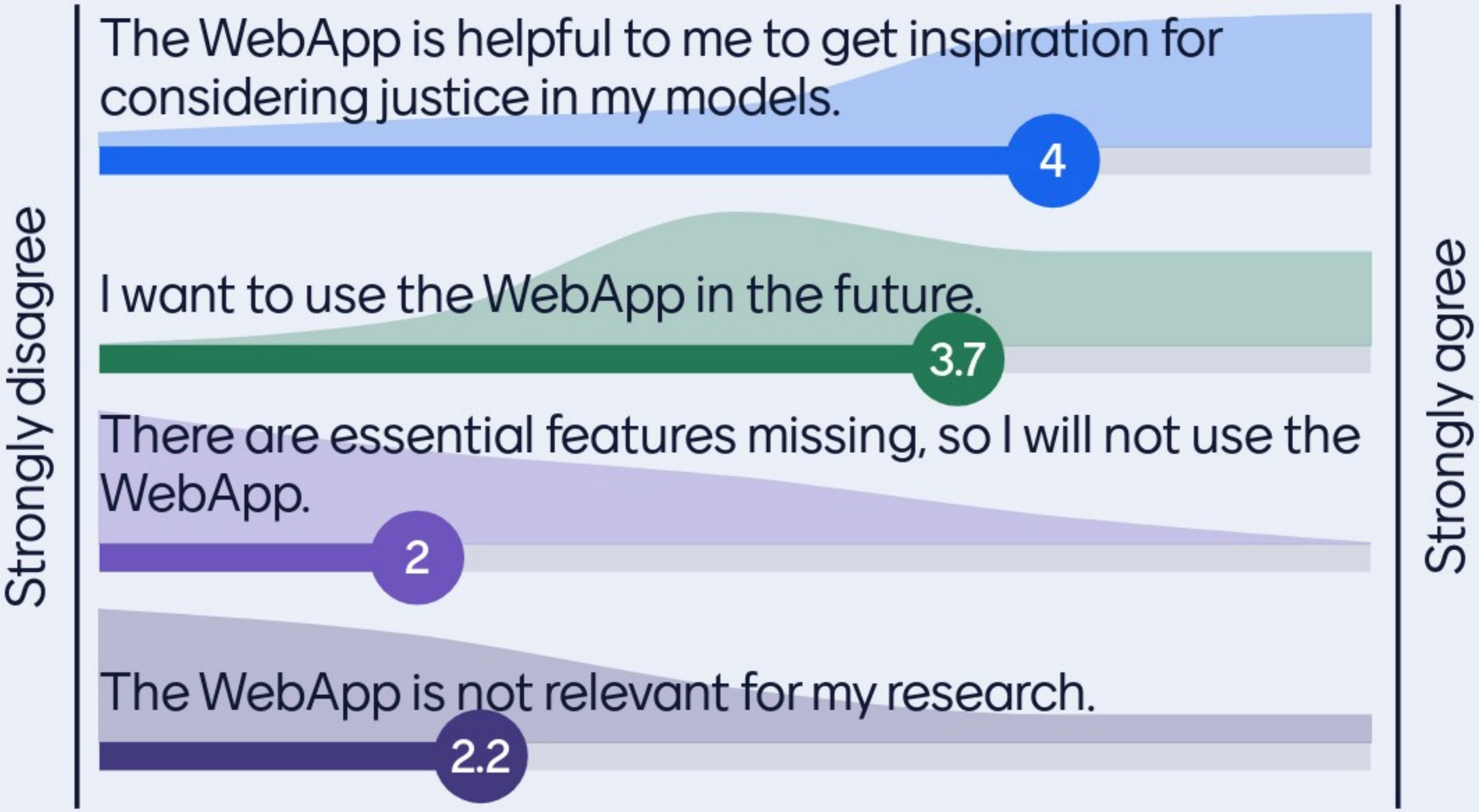


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# WebApp as central toolbox



## Literature Review Database

### Justice in Modelling Database Explorer

#### Including justice in energy models

...is an ambitious goal, that can not be tackled without the appropriate methods.

To provide Energy Modellers with necessary **Justice Indicators and Methods** we created a literature database, which connects them with the respective **Model types and Modelling Steps**.





## What can be improved about the WebApp?

Filter and sort system

Some example figures for particular indicators

Definitions of terms & indicators used in the studies

Reading your future paper may be easier than browsing through the database

journals

More graphs

Methodology and databases for measuring justice

Table not responsive enough

2



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## What can be improved about the WebApp?

Better table readability

- adding title of papers-  
ability to show all data  
without pagination (helps  
with Alt-F)

Export the data?

Having a reliability  
indicator for each source

Hide less useful columns  
by default

More participation from  
the audience

2



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## What do you like about the WebApp?

The fact that it's there!  
thanks :)

Visualisations

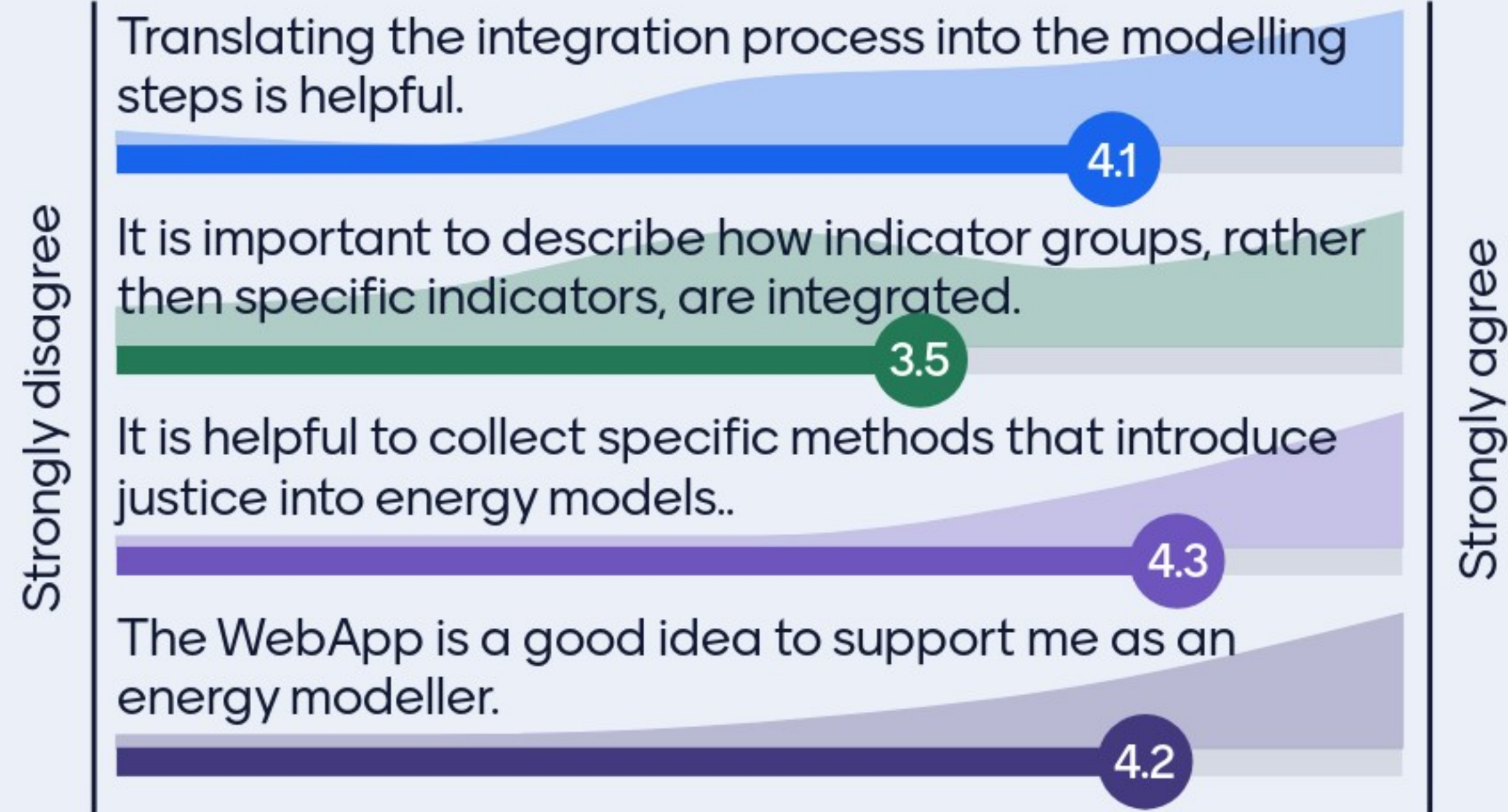
Filters



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# Feedback on the Storyline





## What could be improved on for the workshop?

more time

group discussions

Just more time

Timekeeping

Nothing, that was very well organized, congrats !

Longer introduction to the concepts for newbies

group feedback

Minutes



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## What could be improved on for the workshop?

More time for breakout groups

More practice time

More time

More visual example

More time for the group discussion

more background/introduction to the topic

No need to read all the questions in the pool (I think)

more time, more social scientists in the room



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## What could be improved on for the workshop?

Maybe split the workshop  
to have more time

Clear introduction

Interactions

Interactivity and active  
hands-on



13





## What did you like about the Workshop?

good interaction through  
menti

It was very interactive :)

Nice interaction and  
breakout groups inside,  
great organization

Discussion with others

Participative and  
interactive thank you!

Presenter

well prepared

The literature review, vers  
useful



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## What did you like about the Workshop?

Interactivness, menti

Very informative

Nice workshop

good prep

Thanks for bringing up  
this topic!

Group discussion,  
interactivity with menti.

A lot of ressources

exploring poorly explored  
topic



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## What did you like about the Workshop?

Nice methods and  
interactivity

Interaction with the  
group, introduction,  
clarity

Interactions

Good to have this just for  
energy modeller!



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