



# From Design to Data Justice

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Albert S. Kochaphum  
Week 7 | May 11<sup>th</sup>, 2021

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# Week 7 lecture

 Start presenting to display the poll results on this slide.

# Today's Agenda

**Logistics**

**Lecture**

**Discussion**



# Logistics

- **Group check-in** this week
  - Two groups have not signed-up yet
- **Fill out this survey by today!!**
- **Visiting Voices will only return on June 10<sup>th</sup>**
- **Unless you have a finals conflict, June 10<sup>th</sup> session attendance is still required.**

# Lectures: Looking ahead

	Date	Topic
<b>Week 7</b>	5/11	• <b>Our role as facilitators</b>
<b>Week 8</b>	5/18	• <b>Mentorship and how to better collaborate</b>
<b>Week 9</b>	5/25	• <b>Civil society and activism</b>
<b>Week 10</b>	6/1	• <b>Beyond web development and GIS for social change</b>

 = **Visiting Voices**

# **Week 6 ALwards**



スタジオジブリ  
STUDIO GHIBLI

+ ALWARDS

1. [https://annyrviloria.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://annyrviloria.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
2. [https://vcta99.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://vcta99.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
3. [https://jsxu315.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://jsxu315.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
4. [https://skarakas1.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://skarakas1.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
5. [https://alisezila.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://alisezila.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
6. [https://jason-muljadi.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://jason-muljadi.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
7. [https://ktgreenler.github.io/21S-ASIAAM-191A-Assignments/Week\\_05/index.html](https://ktgreenler.github.io/21S-ASIAAM-191A-Assignments/Week_05/index.html)
8. <https://github.com/albertkun/21S-ASIAAM-191A/discussions/144#discussioncomment-719984>
9. <https://github.com/albertkun/21S-ASIAAM-191A/discussions/144#discussioncomment-720688>
10. <https://github.com/albertkun/21S-ASIAAM-191A/discussions/144#discussioncomment-714939>

# **Theme of the week**

**Our role as facilitators to civil society.**



**What do you do when...**

**Science and Society are at odds...**

# How do you apply design justice here?

THERE THEY GO | MAY 5 by DAN ROBITZSKI

## Biotech Company Officially Unleashes Gene-Hacked Mosquitoes in Florida

After a decade of local resistance, Oxitec got its way.

/ Hard Science / Environment / Genetics / Mosquitoes

<https://futurism.com/biotech-unleashes-gene-hacked-mosquitoes-florida>

# What about people rejecting vaccinations?

## *Reaching 'Herd Immunity' Is Unlikely in the U.S., Experts Now Believe*

Widely circulating coronavirus variants and **persistent hesitancy** about vaccines will keep the goal out of reach. The virus is here to stay, but vaccinating the most vulnerable may be enough to restore normalcy.



By Apoorva Mandavilli

Published May 3, 2021 Updated May 7, 2021

**Justice and Society at odds...**

# When do you stand up to corporations with powerful influence?

The New York Times

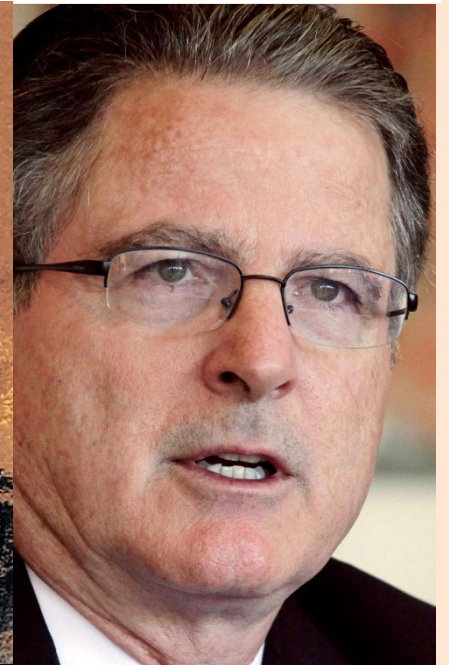
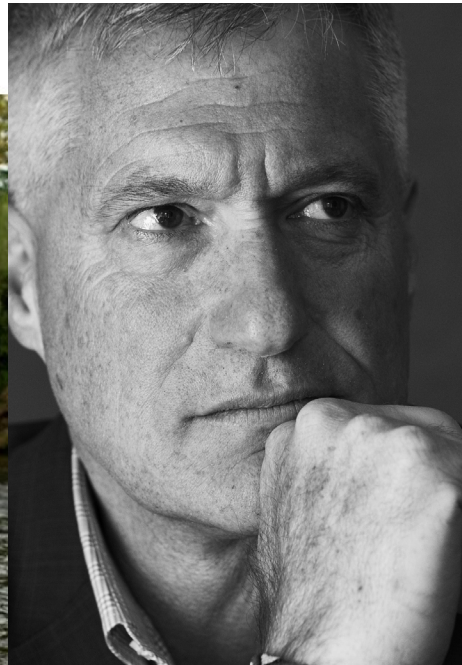
## *Ecuador Judge Orders Chevron to Pay \$9 Billion*

Local residents washed in the contaminated Santa Fe River, in the oil producing Amazon region of Ecuador. Moises Saman for The New York Times



Crime & Justice

## Lawyer on trial a decade after winning huge Ecuador verdict against Chevron



# When do you stand up to corporations with powerful influence?

## 'I've Been Targeted With Probably the Most Vicious Corporate Counterattack in American History'

Steven Donziger has been under house arrest for over 580 days, awaiting trial on a misdemeanor charge. It's all, he says, because he beat a multinational energy corporation in court. ▲



By Jack Holmes Mar 18, 2021



<https://www.esquire.com/news-politics/a35812573/steven-donziger-chevron-house-arrest/>

**Design is relatively easy.**



**Justice is hard.**

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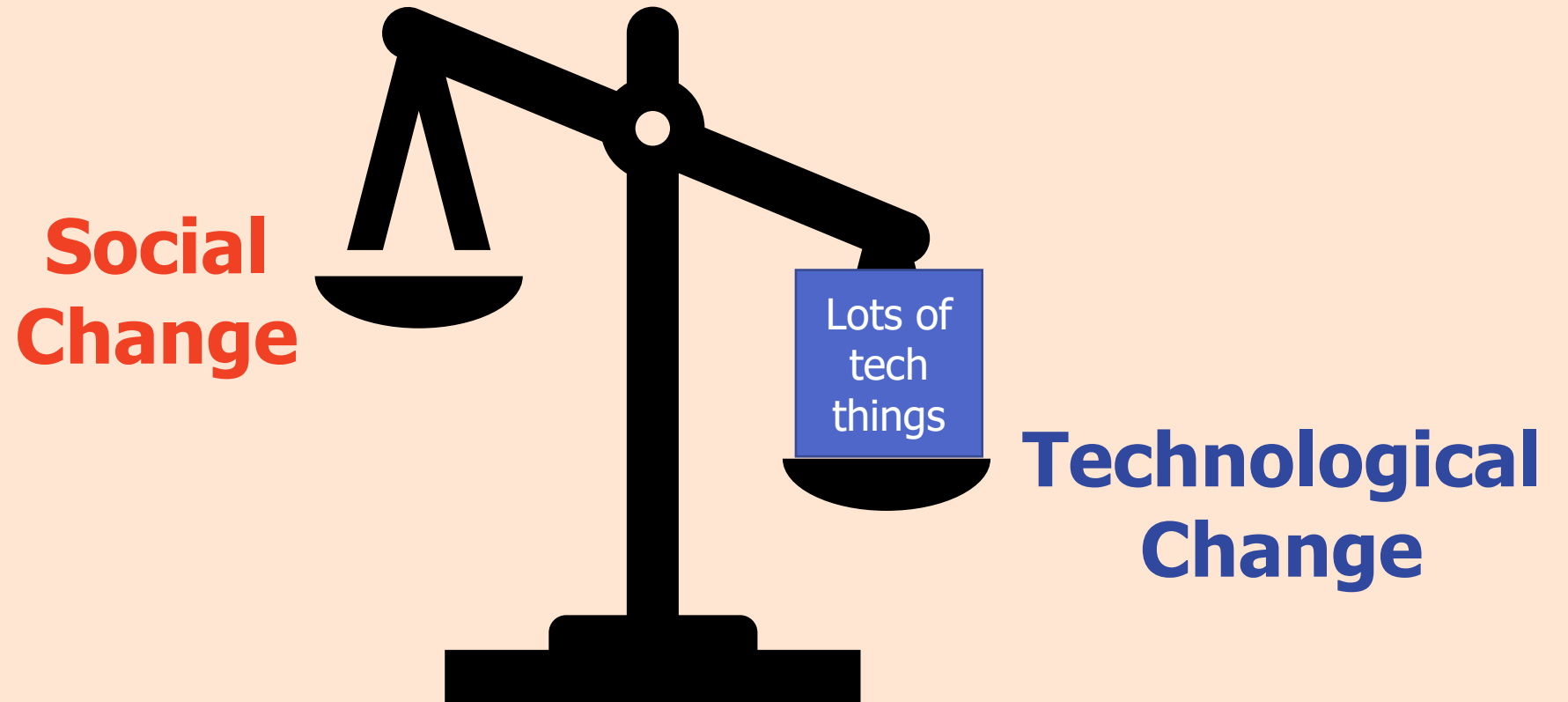
What do you think about these recent news?

 Start presenting to display the poll results on this slide.

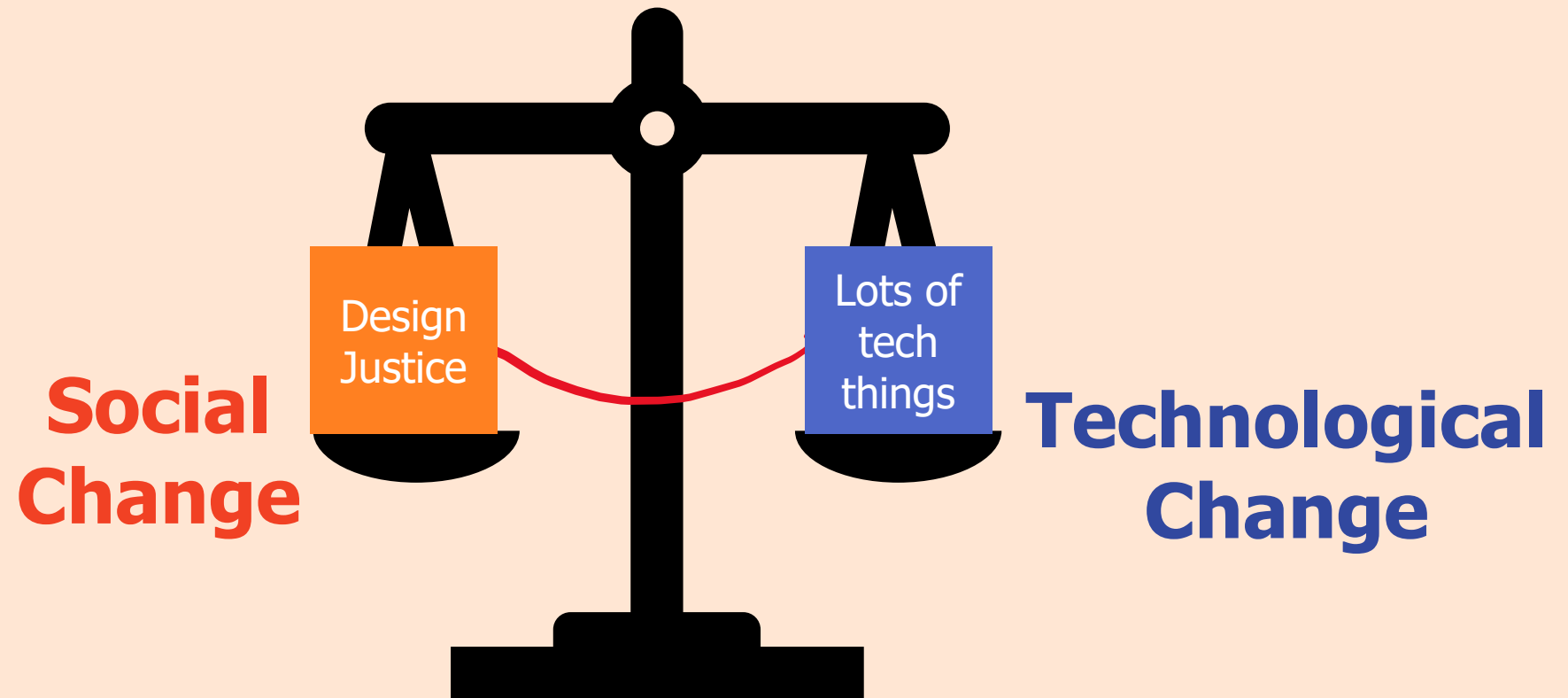
**Design Justice** is not an “ideal” or “theory”

**Design Justice** is a **holistic framework** and **approach** to rebalance **society** and **technology** by focusing on **marginalized** communities

**Recall, as a society this is where we are at:**



# This is where design justice framework comes in:

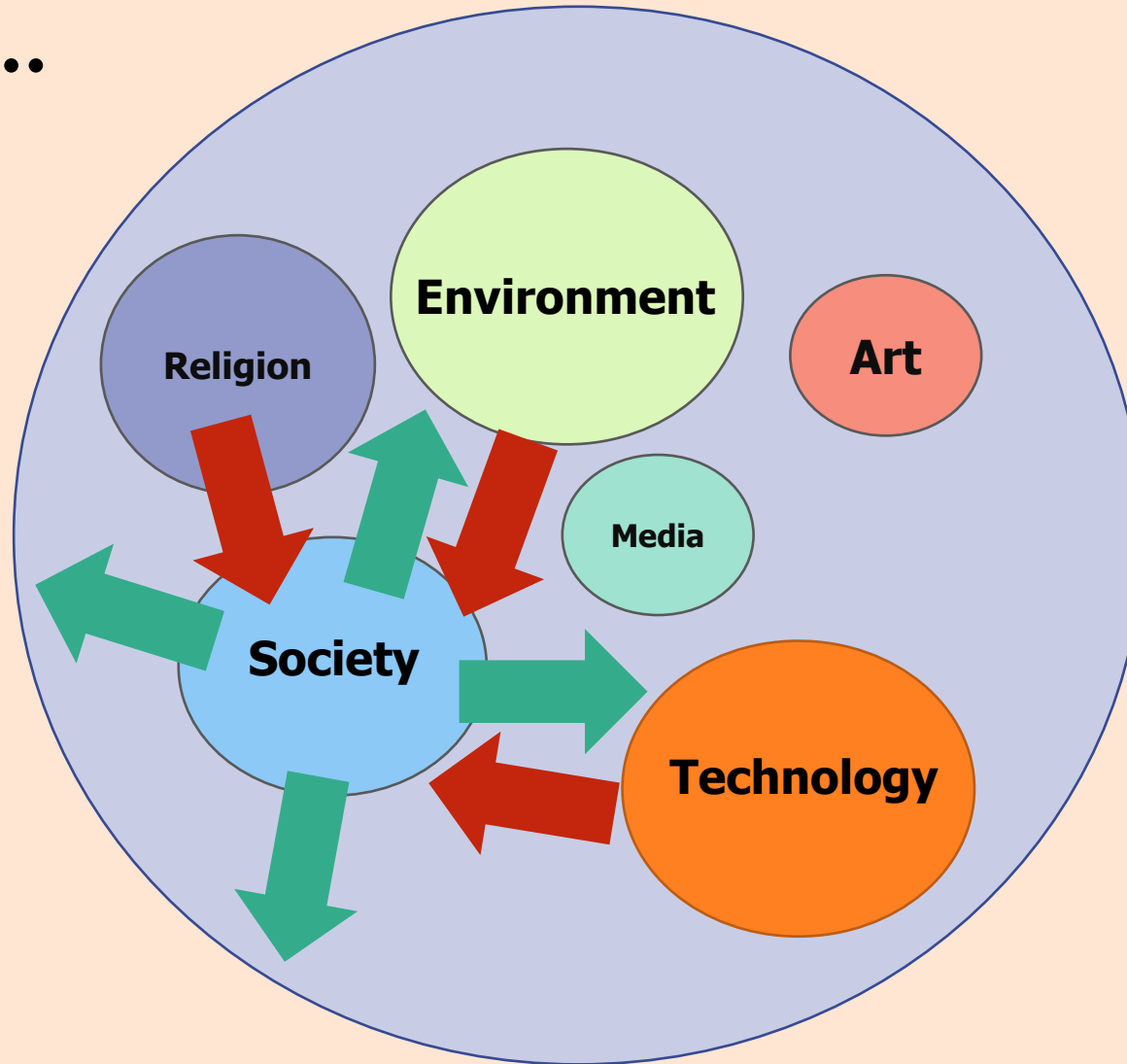


**Sure, **design justice** not the answer to everything,  
but it is a helpful approach to **rebalancing**.**

**Why?**



# Design Justice...



Pushes back from the interplay of other forces, by healing, sustaining, and empowering civil society

**Revisiting Design Justice to... Do it justice.**

# Design Justice Principles:

1. Use design to **sustain, heal, and empower** communities
2. **Center voices** directly impacted by design
3. **Prioritize** design's **impact on the community** instead of designer's intentions
4. **Change** comes from an **accountable, accessible, and collaborative process.**
5. **EVERYONE is an expert** based on their own lived experiences
6. **Share design knowledge** and tools with communities
7. Work towards **sustainable, community-led** and **community-controlled** outcomes
8. Work towards **non-exploitative solutions**
9. Before seeking new solutions, **look for what is already working**

# FRAMEWORK & PRINCIPLES

2 WE CENTER the VOICES OF THOSE WHO ARE DIRECTLY IMPACTED BY the OUTCOMES of the DESIGN PROCESS



3 WE PRIORITIZE DESIGN'S IMPACT ON THE COMMUNITY OVER THE INTENTIONS of the DESIGNER



4 WE VIEW CHANGE as EMERGENT FROM AN ACCOUNTABLE, ACCESSIBLE, & COLLABORATIVE PROCESS, RATHER THAN AS A POINT AT the END of the PROCESS

5 WE SEE THE ROLE of DESIGNER AS FACILITATOR RATHER THAN AN EXPERT



1 WE USE DESIGN to SUSTAIN, HEAL, + EMPOWER OUR COMMUNITIES, AS WELL AS to SEEK LIBERATION from EXPLOITATIVE & OPPRESSIVE SYSTEMS



6 WE BELIEVE THAT EVERYONE IS AN EXPERT BASED ON THEIR OWN LIVED EXPERIENCE & WE ALL HAVE UNIQUE & BRILLIANT CONTRIBUTIONS to the DESIGN PROCESS



10 BEFORE SEEKING NEW DESIGN SOLUTIONS, WE LOOK FOR WHAT IS ALREADY WORKING AT the COMMUNITY LEVEL. WE HONOR & UPLIFT TRADITIONAL, INDIGENOUS, & LOCAL KNOWLEDGE & PRACTICES.



9 WE WORK TOWARDS NON-EXPLOITATIVE SOLUTIONS THAT RECONNECT US TO THE EARTH & TO EACH OTHER



8 WE WORK TOWARDS SUSTAINABLE, COMMUNITY-LED & CONTROLLED OUTCOMES



7 WE SHARE DESIGN KNOWLEDGE & TOOLS WITH OUR COMMUNITIES



# **Discussion in applying design justice**

# Discussion: Part 1

1. Randomly join breakout rooms **WITHOUT** your group members!
  - I will move people in the same groups to different breakout rooms
2. Take turns introducing **your group projects**. (1-2 mins per person)
3. Lead a discussion and take notes on how **your group project** could better use **design justice principles**. (5 - 8 mins per person)

# Discussion: Part 2

- 1. Join your **group project** in a breakout room and then discuss your notes from part 1.**
- 2. Summarize some key elements of design justice that your **group project** could be improved upon or already does well and why. (10 mins)**
- 3. Report back and share.**

# Concepts to learn today



**Data Justice**



**Data Justice**

**Hold your skepticism...**



# What is **Data Justice**?

**Fairness** in the way people are:

1. Made visible
2. Represented
3. Treated

That involve their digital data.

**Why bring up data justice now?**

**We are collecting data this week.**

# Why bring up **data justice** now?

**Personal data and privacy should be a right, like clean air, water, food, and housing.**

# **Why bring up data justice now?**

**Surveillance capitalism and fascism are fast growing issues.**

Some key



S about  
Data Justice

# Three pillars of data justice

- **(in) visibility**
- **(dis) engagement with technology**
- **non-discrimination**

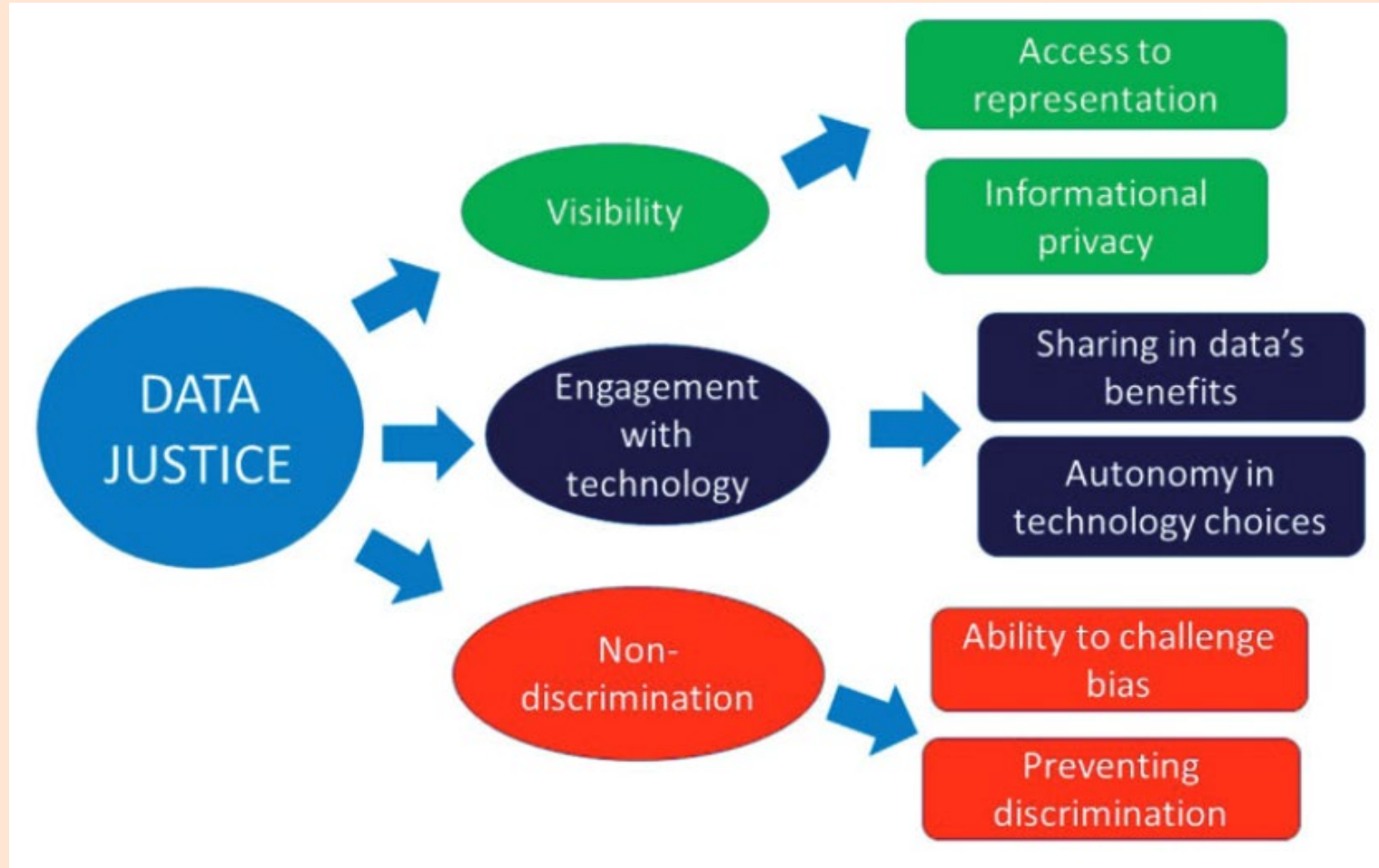
Note the **invert** of the first two concepts.



**SO YOU DIDN'T JUST  
USE ANY RANDOM MOVIE?**



# Connecting Design Justice to Data Justice



What is data justice? The case for connecting digital rights and freedoms globally

**Consider your surveys**

# (In)Visibility

- How are you making community data visible?
- How are you allowing data to be removed?

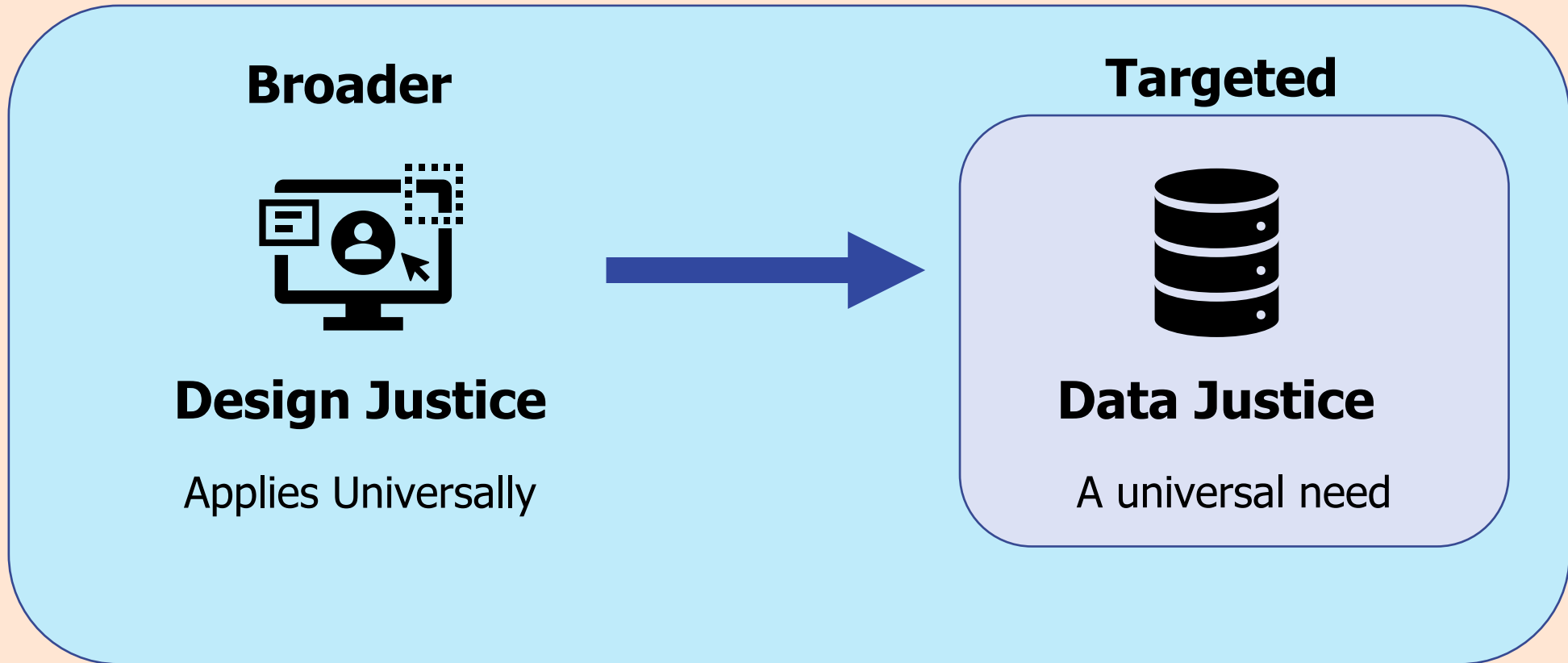
# (Dis)engagement with technology

- Are participants allowed to use any technology? (Smart phone/web browser)
- How are you enabling participants to opt-out using technology but still participate in your issue?

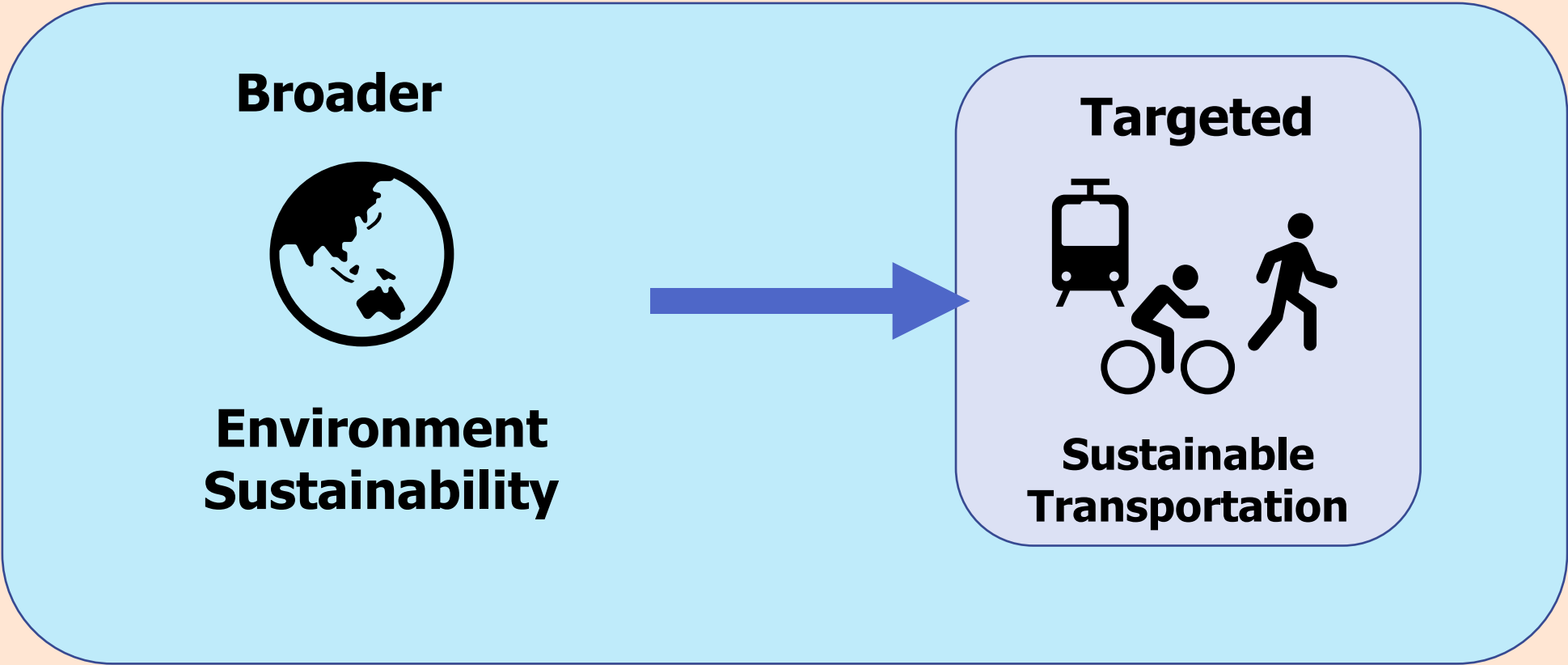
# Non-discrimination

- How can survey participants voice their concerns about how their data is being displayed?
- How can participants prevent discrimination?

# Connecting Design Justice to Data Justice



# Connecting Design Justice to Data Justice





# Returning to the bridge of ethics

Evaluate a new idea



**1**

**Capability Approach**

**What are you enabling?**

**2**

**Virtue Ethics**

**How does this action make you a better person?**

**3**

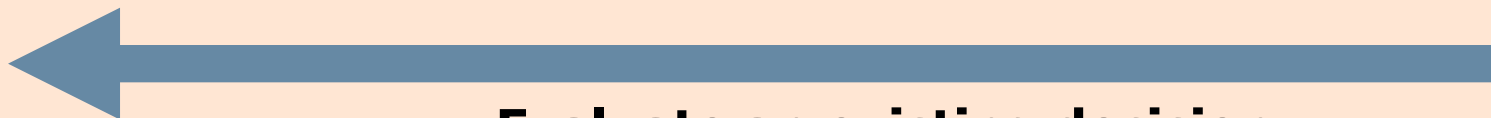
**Deontology**

**How do you uphold universal moral duty?**

**4**

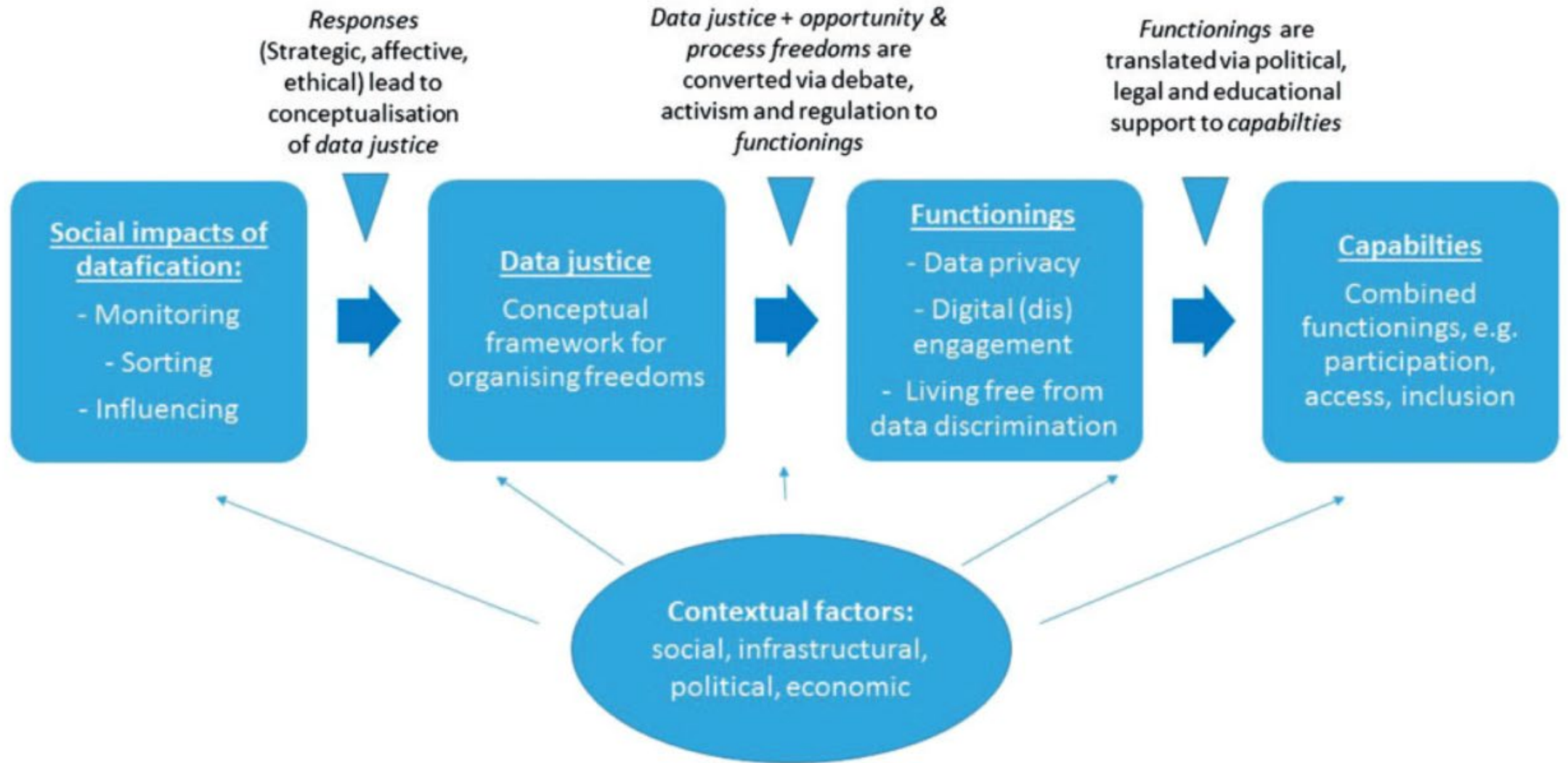
**Consequentialism**

**What is the goodness of the action done?**



Evaluate an existing decision

## The capabilities approach and the role of data justice



What is data justice? The case for connecting digital rights and freedoms globally

**Design Justice and Data Justice are interconnected**

# Key Takeaway:

## Design Justice



How does your application fit into the larger context of empowering civil society?

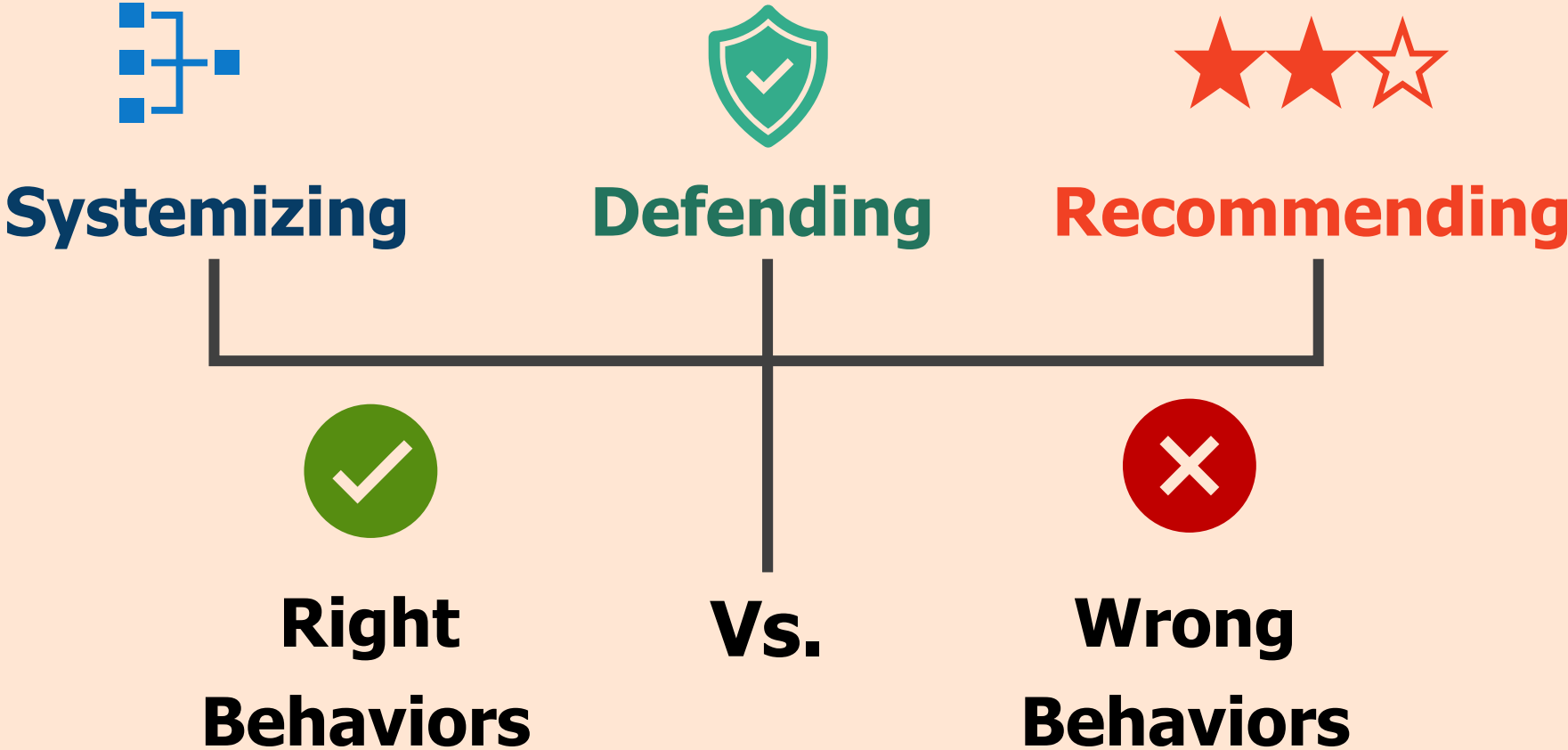
## Data Justice



Do the parts of your application protect the inherent rights of people?

Both are ethical frameworks for **systemizing** and **defending** your decisions

# Remember, ethics is about:



**Ok, seriously, why is this important to mapping?**

**Ok, seriously, why is this important to mapping?**

Data Source:  
COVID-19 Data Repository by Johns Hopkins CSSE

Last updated: 5/8/21

157,284,719

confirmed on 5/8/21

Play

Show data with symbols that are:

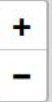
Proportional Logarithmic

Confirmed |→ Deaths |→

1/22/20

5/8/21

Map Type



1/22/20 2/10/20 2/29/20 3/19/20 4/7/20 4/25/20 5/14/20 6/2/20 6/21/20 7/10/20 7/29/20 8/17/20 9/5/20 9/23/20 10/12/20 11/19/20 12/27/20 2/3/21 2/21/21 3/12/21 3/31/21 4/19/21 5/8/21

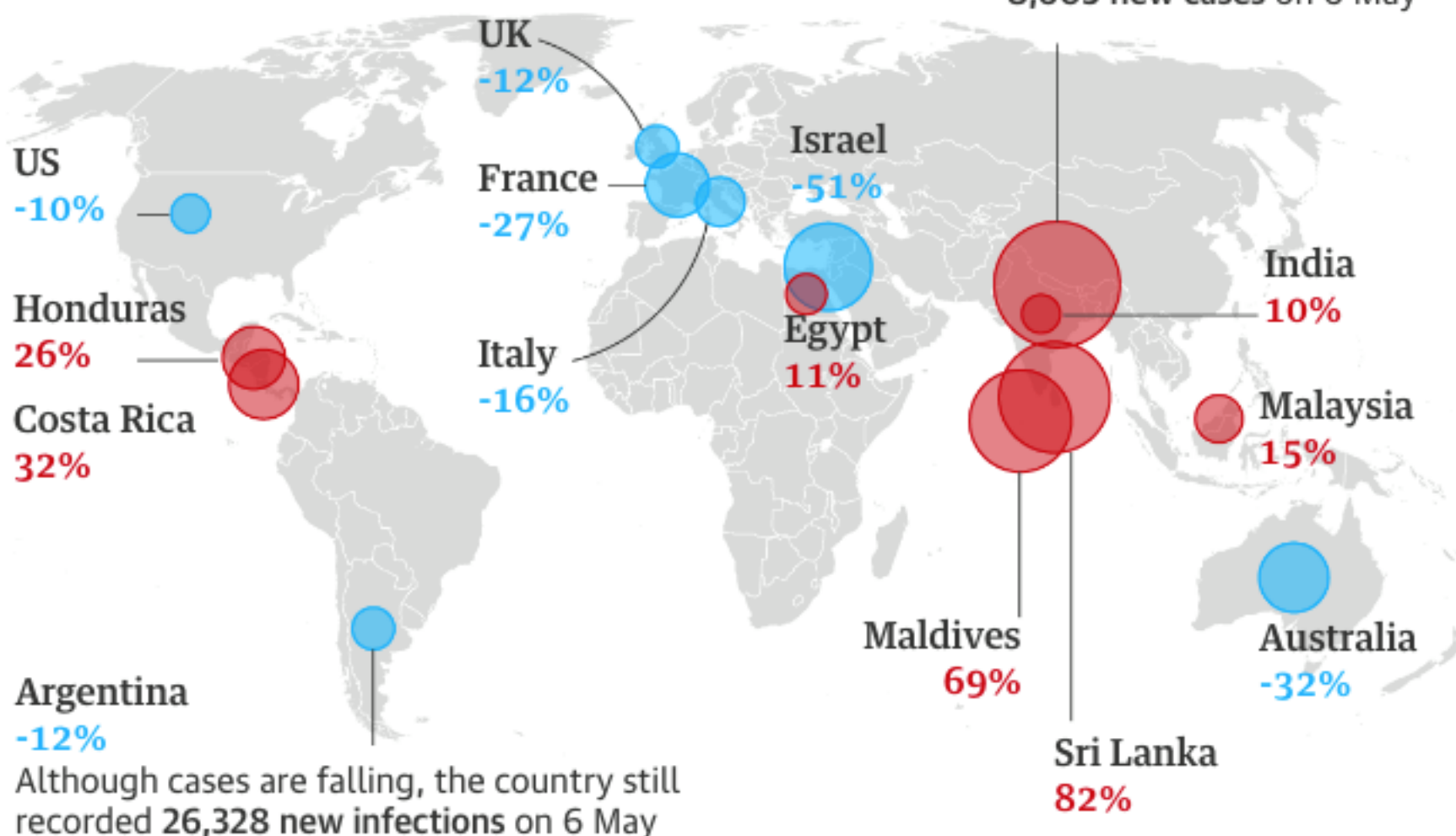


	Cases	Deaths
US	32,686,256	581516
India	21,892,676	238270
Brazil	15,145,879	421316
France	5,718,165	105530
Turkey	5,016,141	42746
Russia	4,816,331	111097
United	4,433,090	127603



# Rising and falling Covid-19 cases

The past week has highlighted disparities between richer and poorer nations when tackling the pandemic



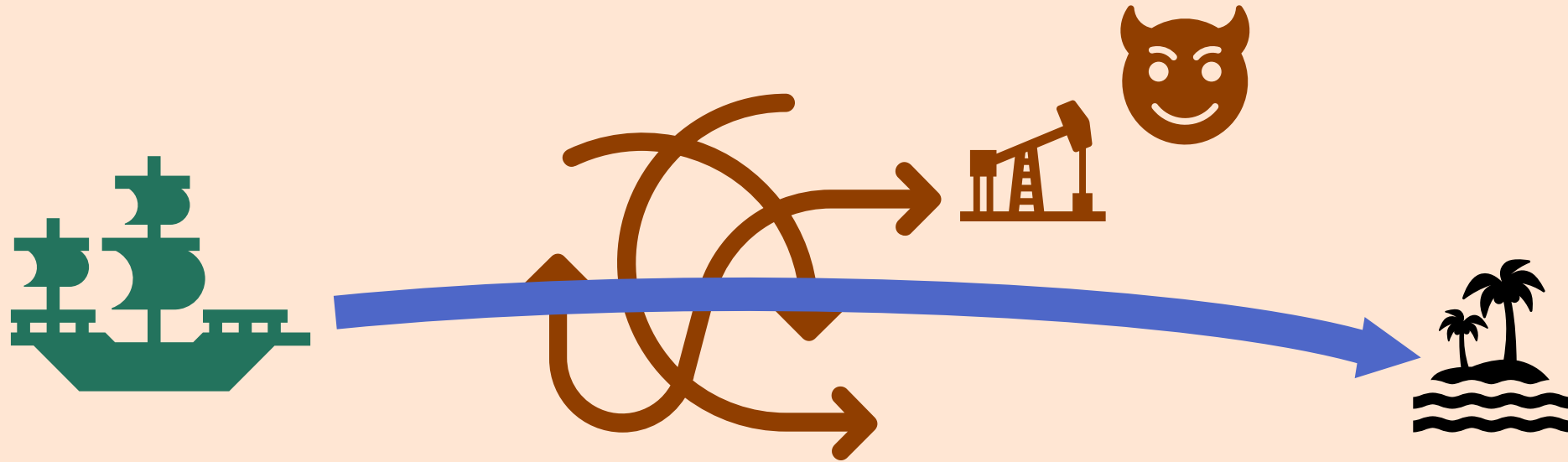
**Data is not objective.  
Our applications are not objective.  
What is objective then?**

**Our experiences and the communities we empower.**

**We **must** focus our applications with ethical frameworks to avoid misconceptions.**

**Why?**

# Key: Be intentional and thoughtful



**Decide where you want to be going with your mapplication.**

**Or external forces will decide that for you.**

# **Key: Be intentional and thoughtful**

**If your designs and data intentions are not clear, it will be easy for others to turn your intentions against you and the community.**

# **Most critical point**

**Be intentional in what you design and what you choose to share.**



**Design is relatively easy**

**Justice is hard**

**But...**

**The arc of the moral universe is long, but it bends towards justice.**

**-Martin Luther King Jr.**

**So let's fight on the side of the moral arc.**

# Reminder

## **Tech Tips Today at 5:30pm!**

- More browser tips and privacy
- VS Code tips

# Thinking Cap for the week:

**How does data justice and design justice relate? How have you considered both in relation to your group projects?**

# Assignments

**Due Thursday 5/13:**

**Lab Assignment #5**