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From Design to Data Justice

Albert S. Kochaphum
Week 7 | May 11th, 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

Lectures: Looking ahead

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

 = Visiting Voices

Week 6 ALwards

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

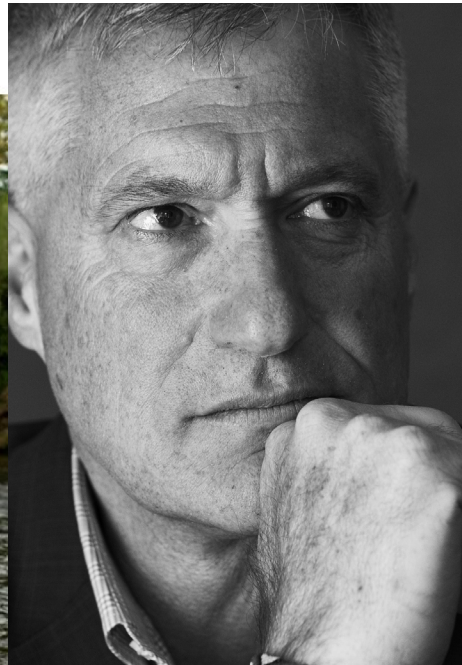
Ecuador Judge Orders Chevron to Pay \$9 Billion

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/>

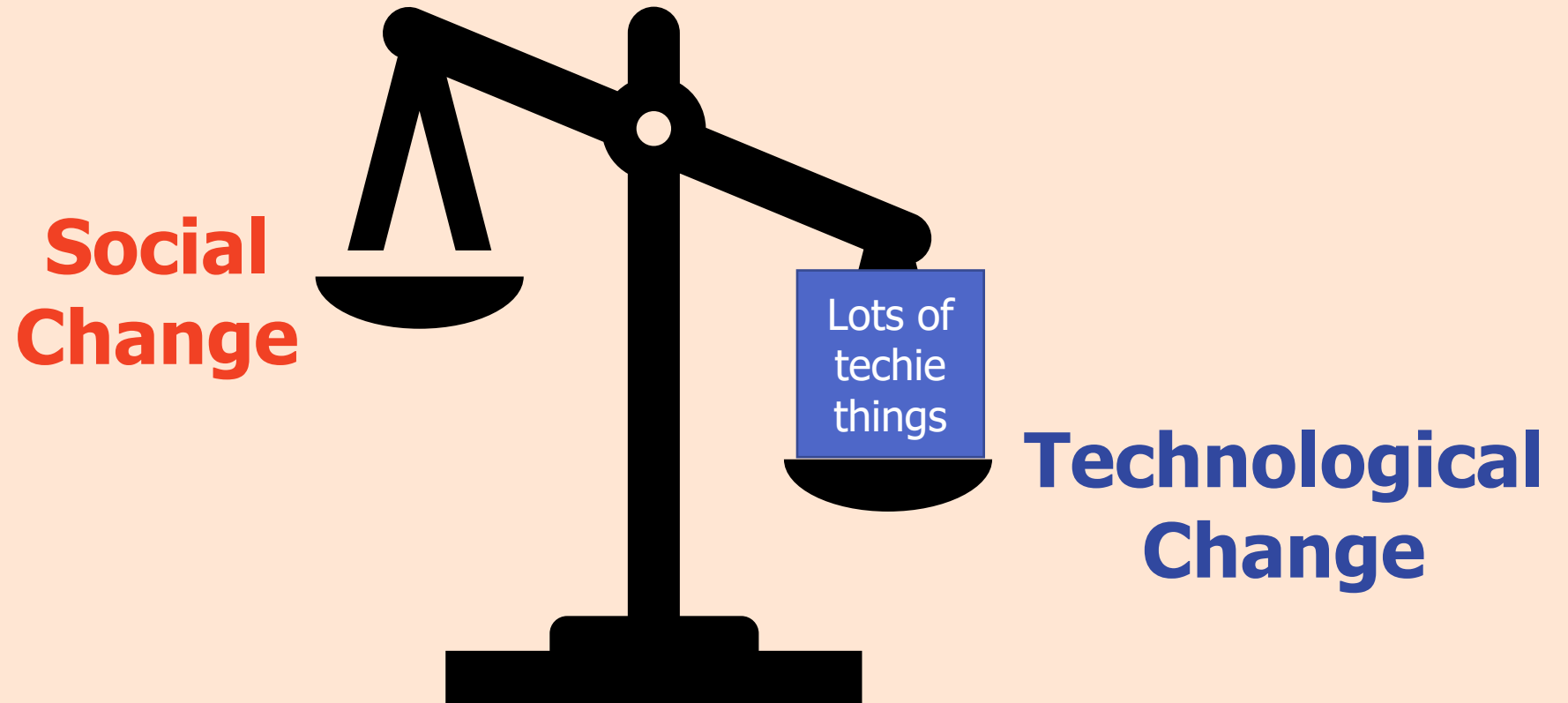
Design is relatively easy.

Justice is hard.

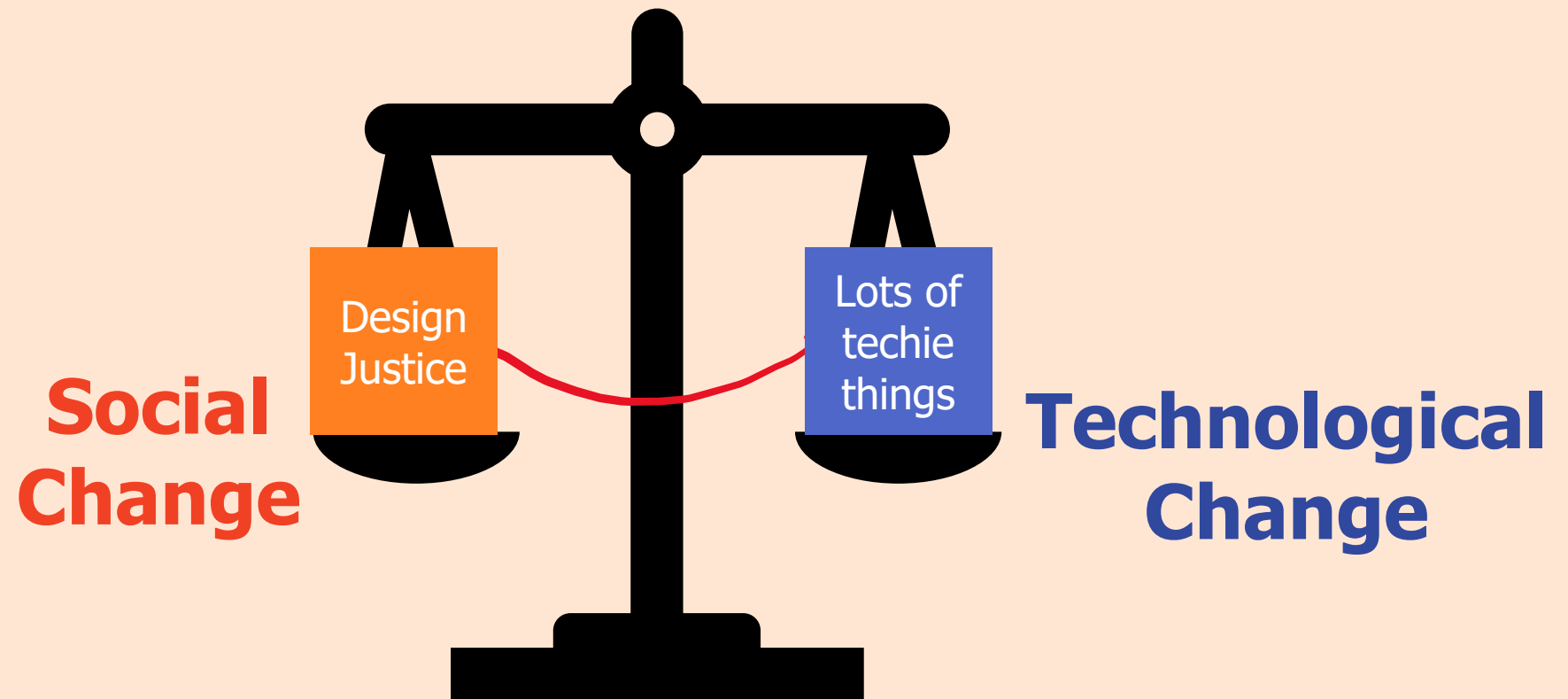
Design Justice is not an “ideal” or “theory”

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:



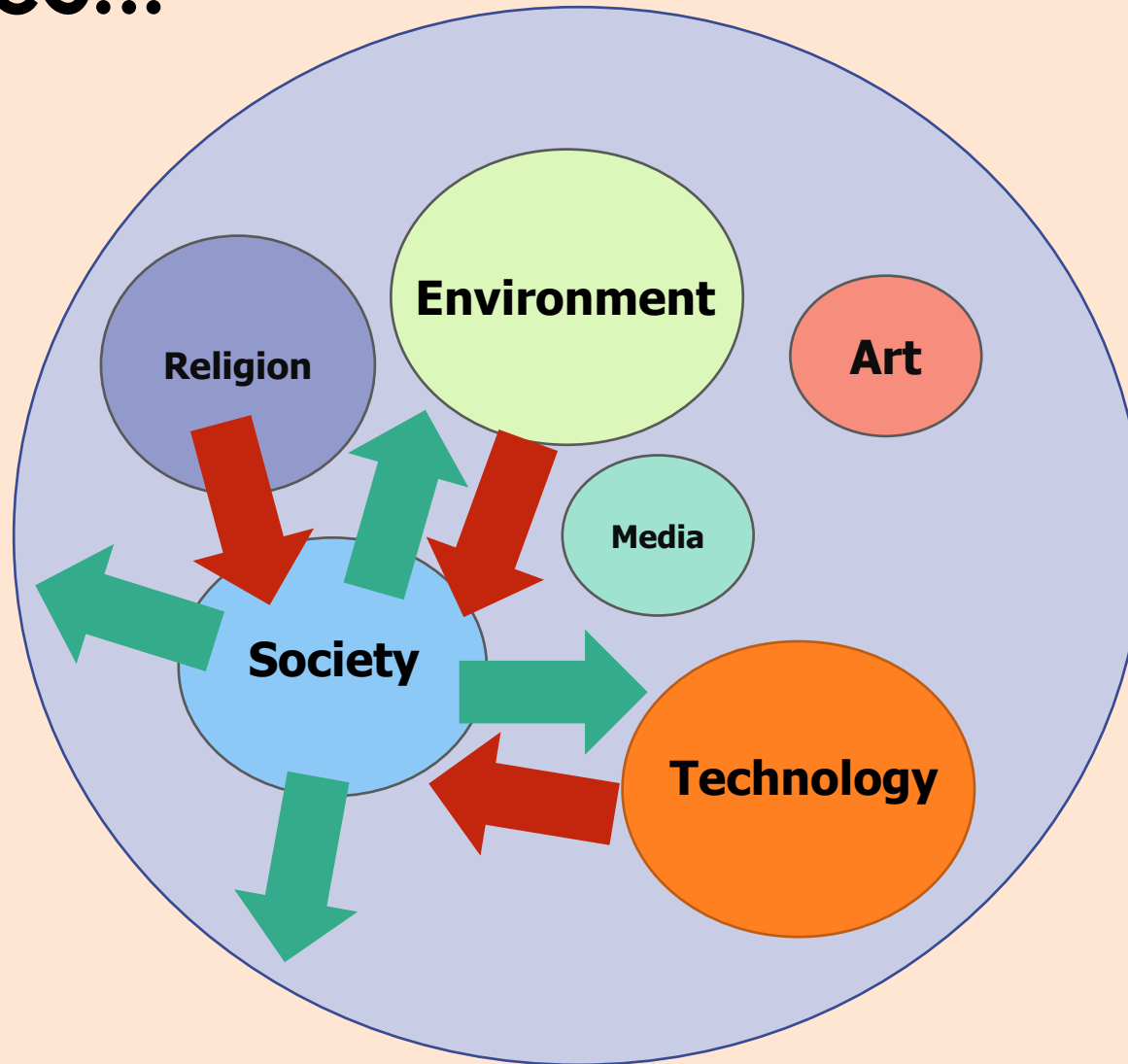
This is where design justice framework comes in:



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

Why?

Design Justice...



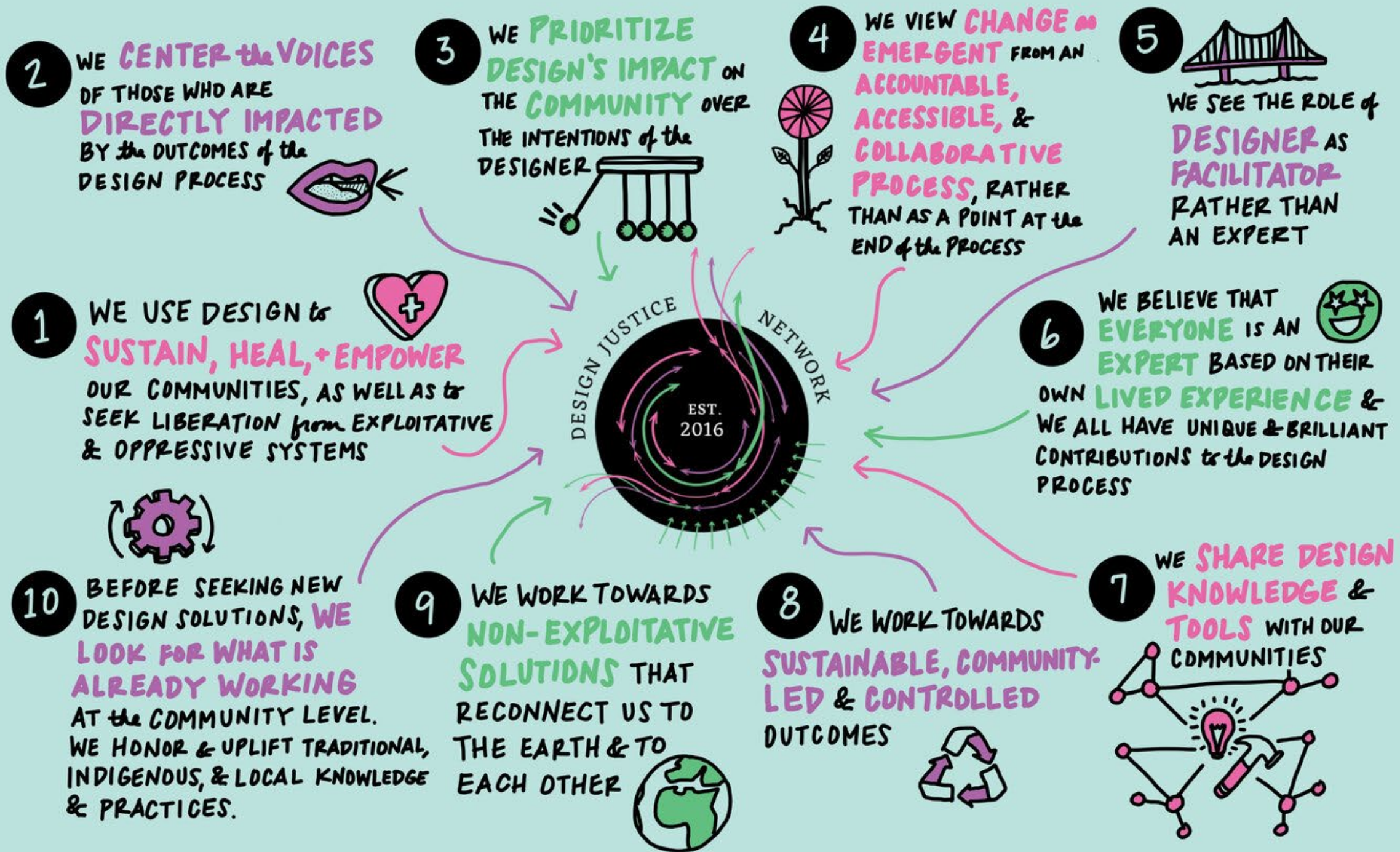
Pushes back from the interplay, by focusing on interconnections to civil society

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



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?

As mentioned last week, surveillance capitalism and fascism are fast growing issues.

Some key



**S about
Data Justice**

Three pillars of data justice

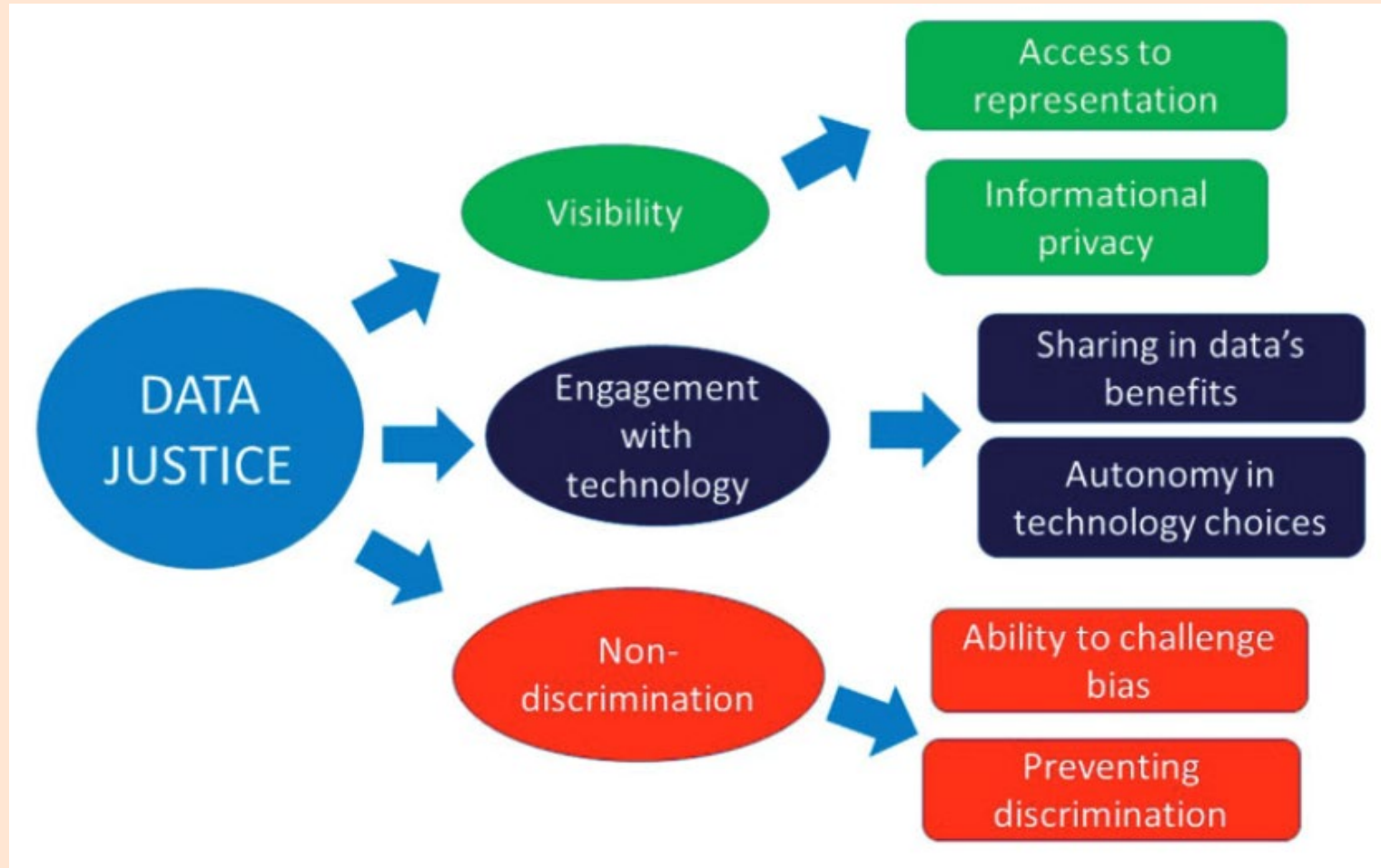
- **(in) visibility**
- **(dis) engagement with technology**
- **non-discrimination**

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

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



Connecting Design Justice to Data Justice



Consider your surveys

(In)Visbility

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

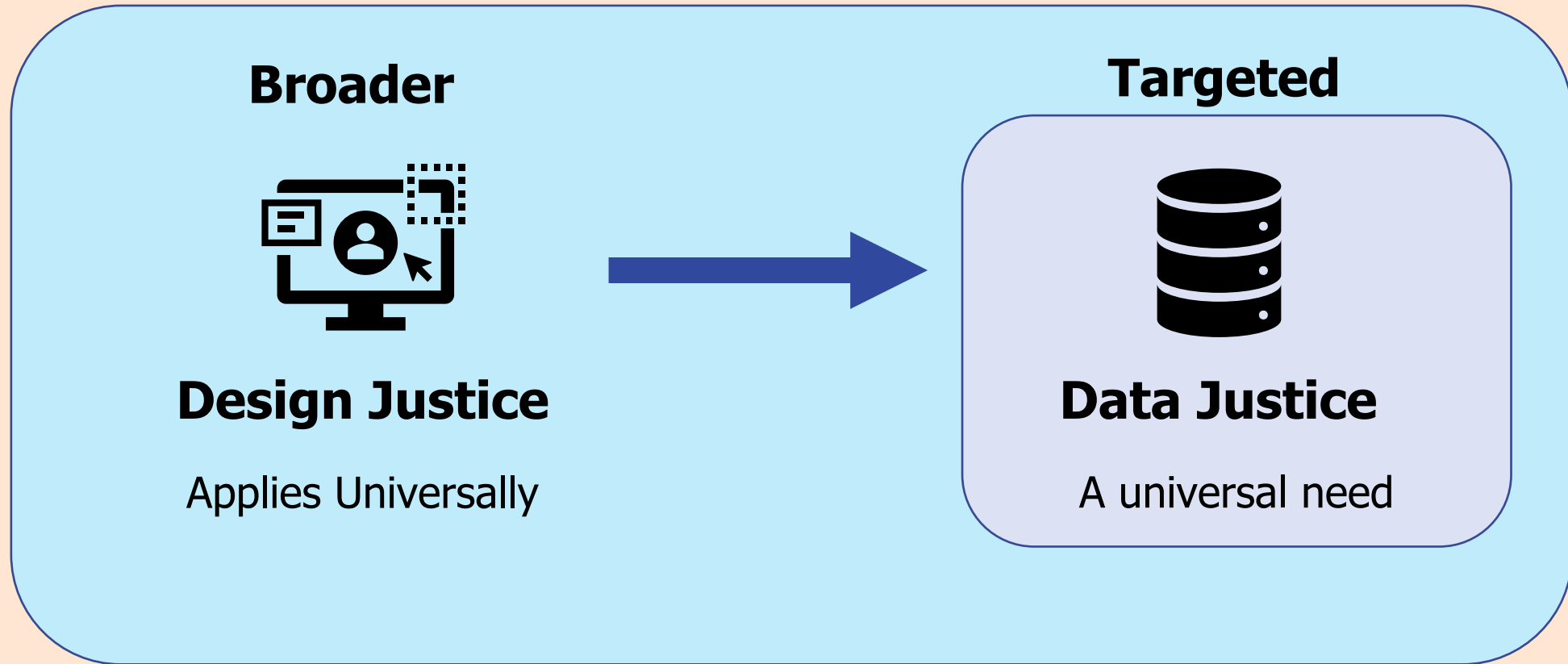
(Dis)engagement with technology

- 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?

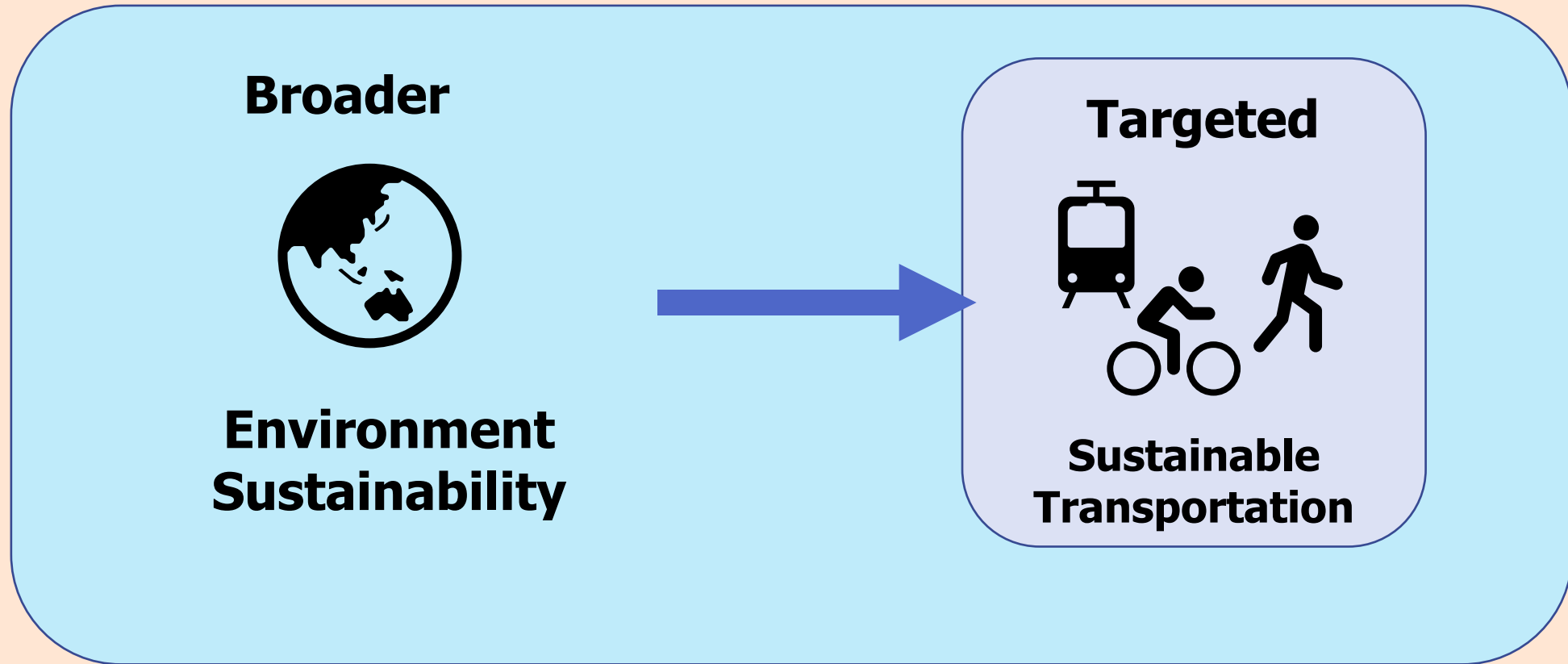
Non-discrimination

- 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

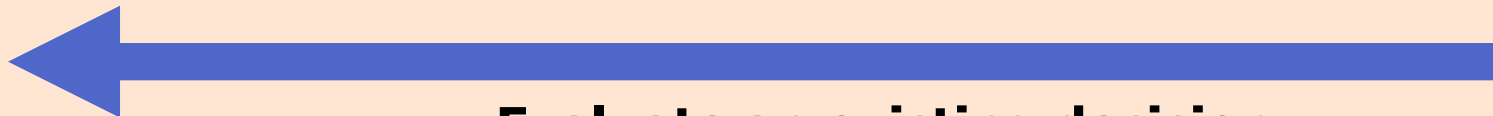
Deontology

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

4

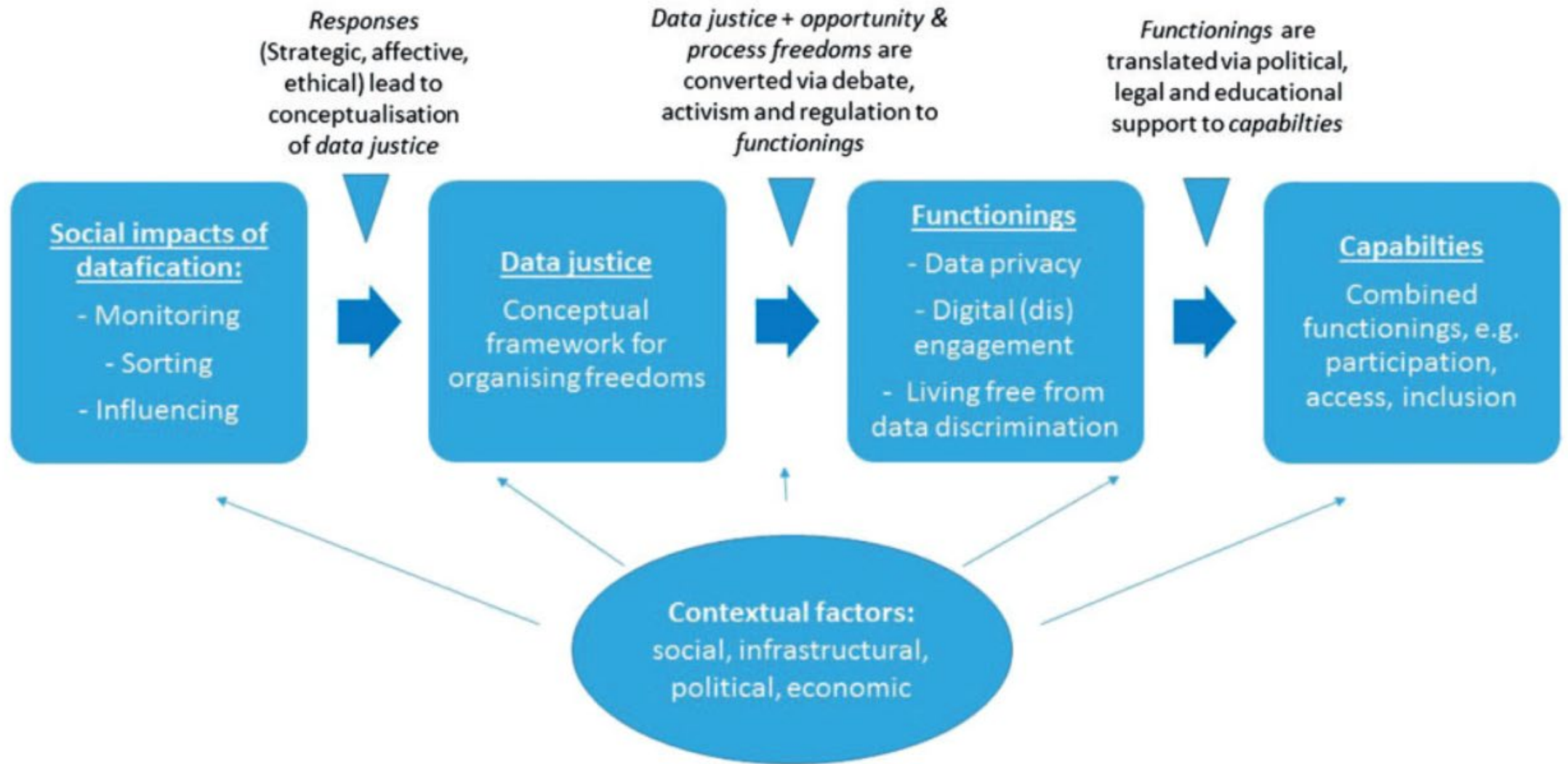
Consequentialism

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



Evaluate an existing decision

The capabilities approach and the role of data justice



Design Justice and Data Justice are interconnected

Key Takeaway:

Design Justice



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

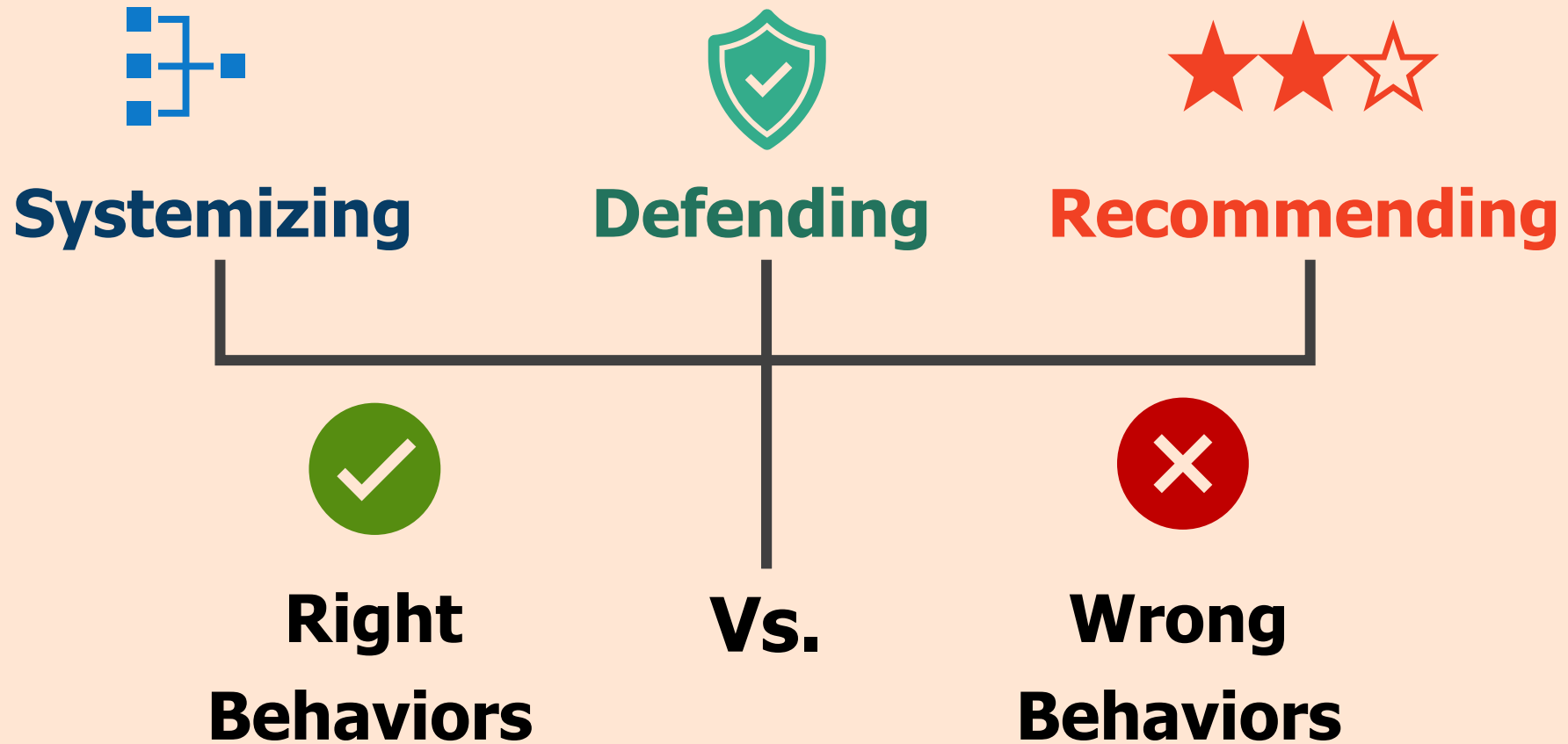
Data Justice



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?

Global US Los Angeles

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 I→ Deaths I→

1/22/20

5/8/21

Map Type ▾

+

-

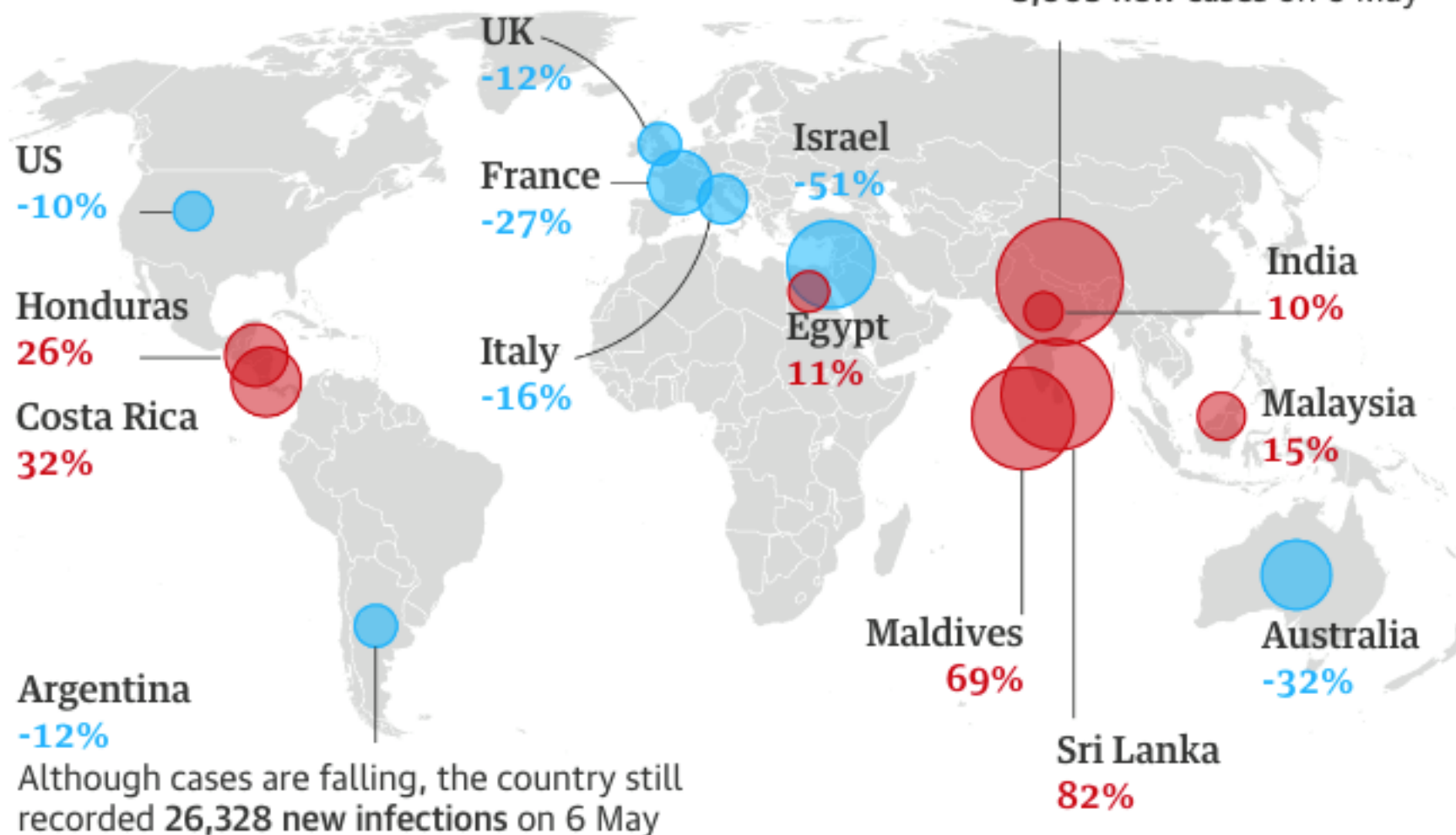
1/22/20 2/10/20 2/29/20 3/19/20 4/7/20 4/25/20 5/14/20 6/2/20 6/21/20 7/10/20 7/29/20 8/17/20 9/5/20 9/23/20 10/12/20 11/19/20 12/27/20 2/3/21 2/21/21 3/12/21 3/31/21 4/19/21 5/8/21



	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



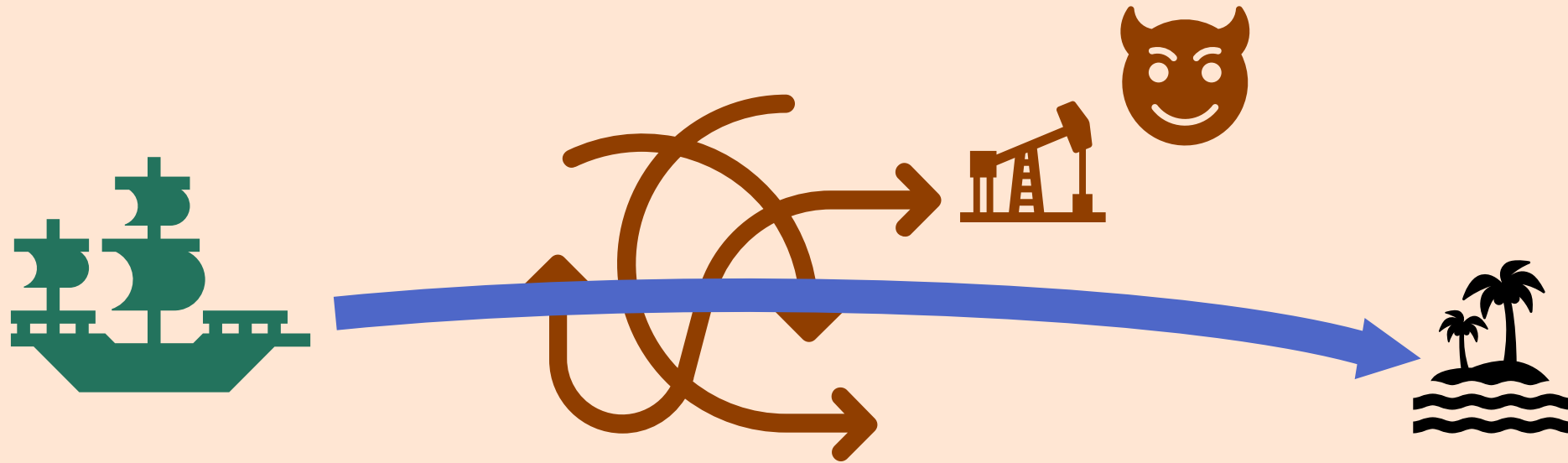
**Data is not objective.
Our applications are not objective.
What is objective then?**

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 that 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