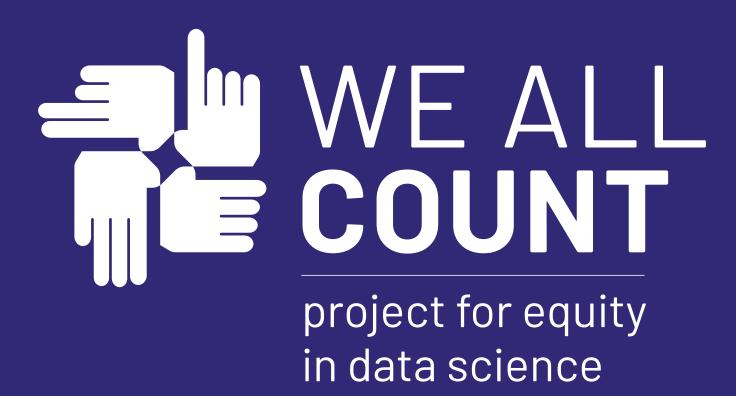
Foundations of Data Equity



Data is Objective

Data is Not Objective







What is Bias?

Systematic error introduced into sampling or testing by selecting or encouraging one outcome or answer over others.

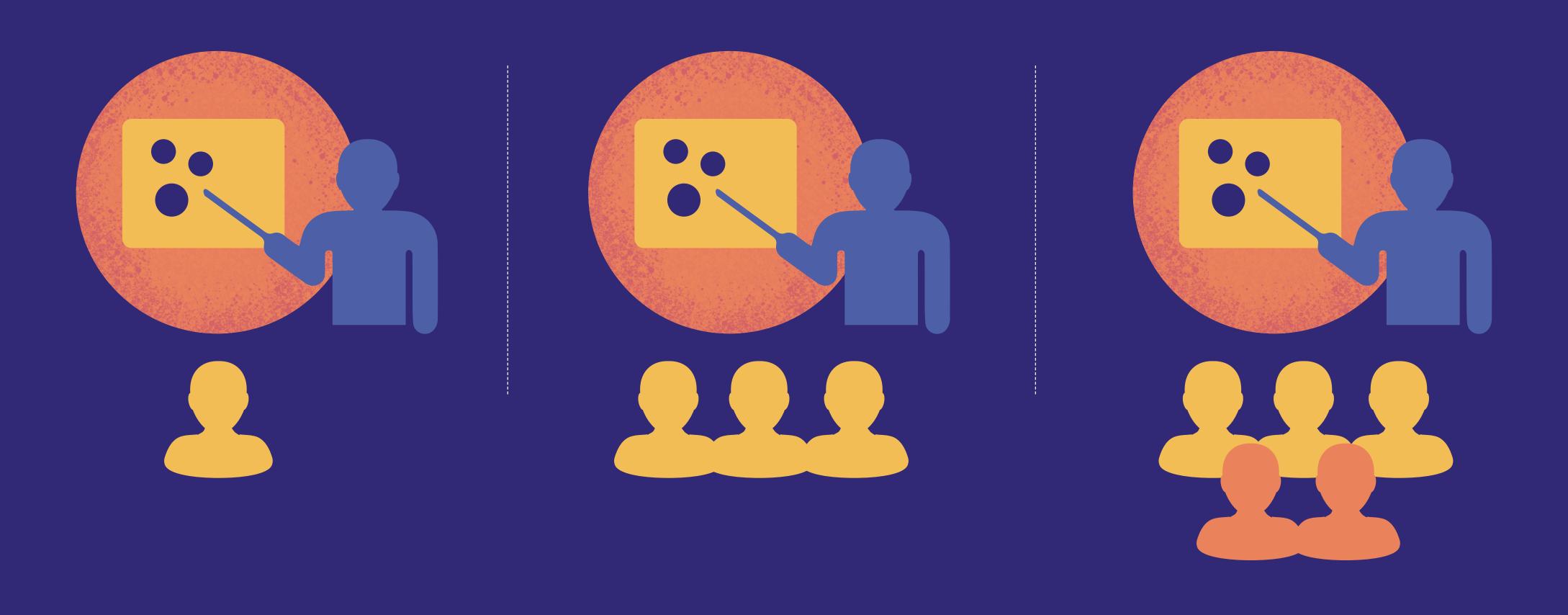
Knowingly. Unknowingly. Intentional. Accidental. Usually a combination.

Schools are awash in data of various forms:
Student access, participation, and completion data
Student survey data
Funding data
Spending data

Often these data are gathered, analyzed, and presented in static reports and interactive dashboards.

Need actual tools on how to embed equity into this data, its analysis and communication for continuous improvements to promote student success and achievement.

What is the average size classroom?



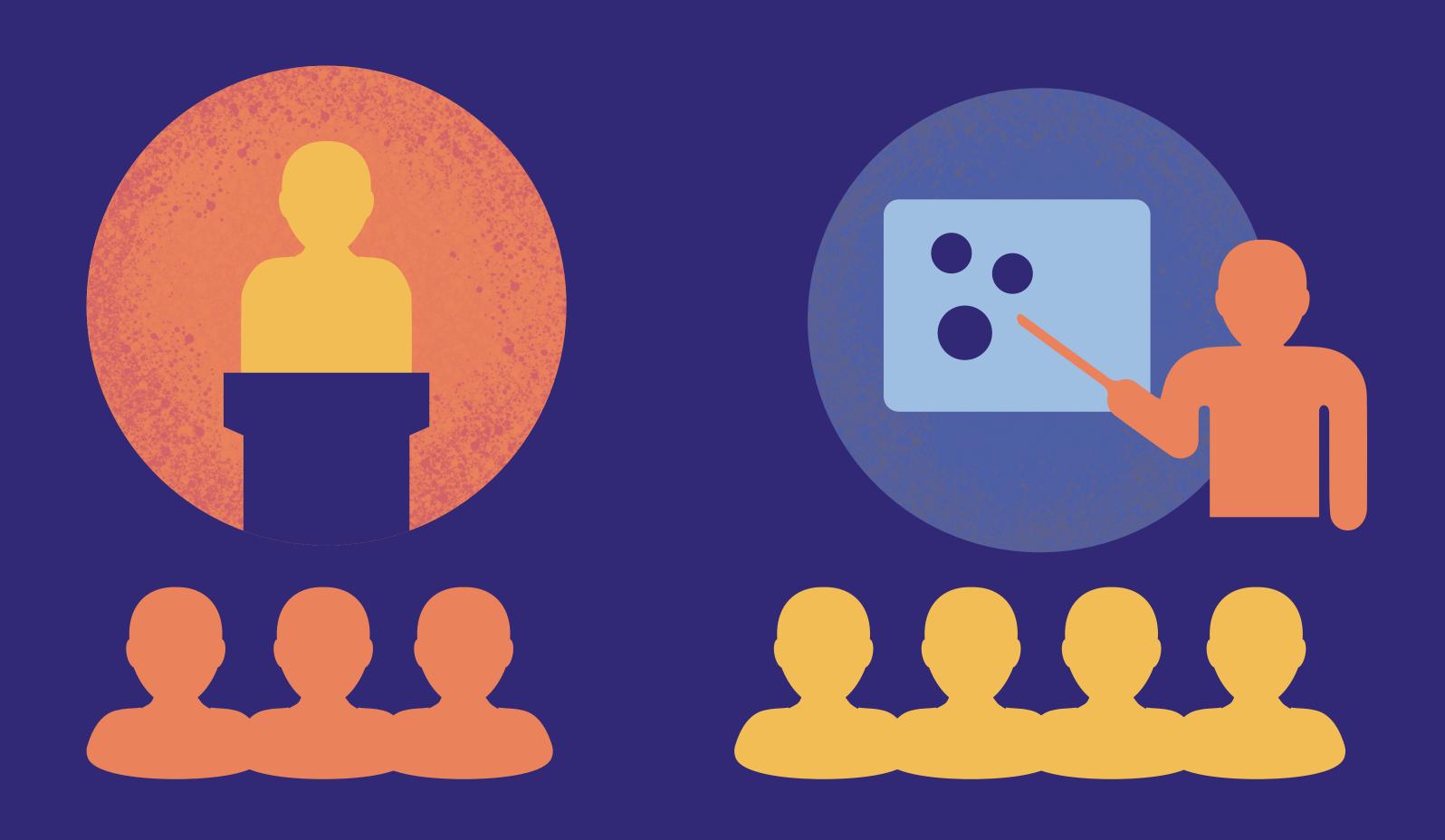
The average classroom is 3 students per class.



The average classroom is 4 students per class.



Both are correct.



Teacher Perspective



Student Perspective

9/3 = 3

Let's think about how to apply this.

What is the most salient difference between these two answers?

The Data Equity Framework addresses equity issues systematically in each step of a data project. Some form of these steps is universal to all types of data projects.







Design

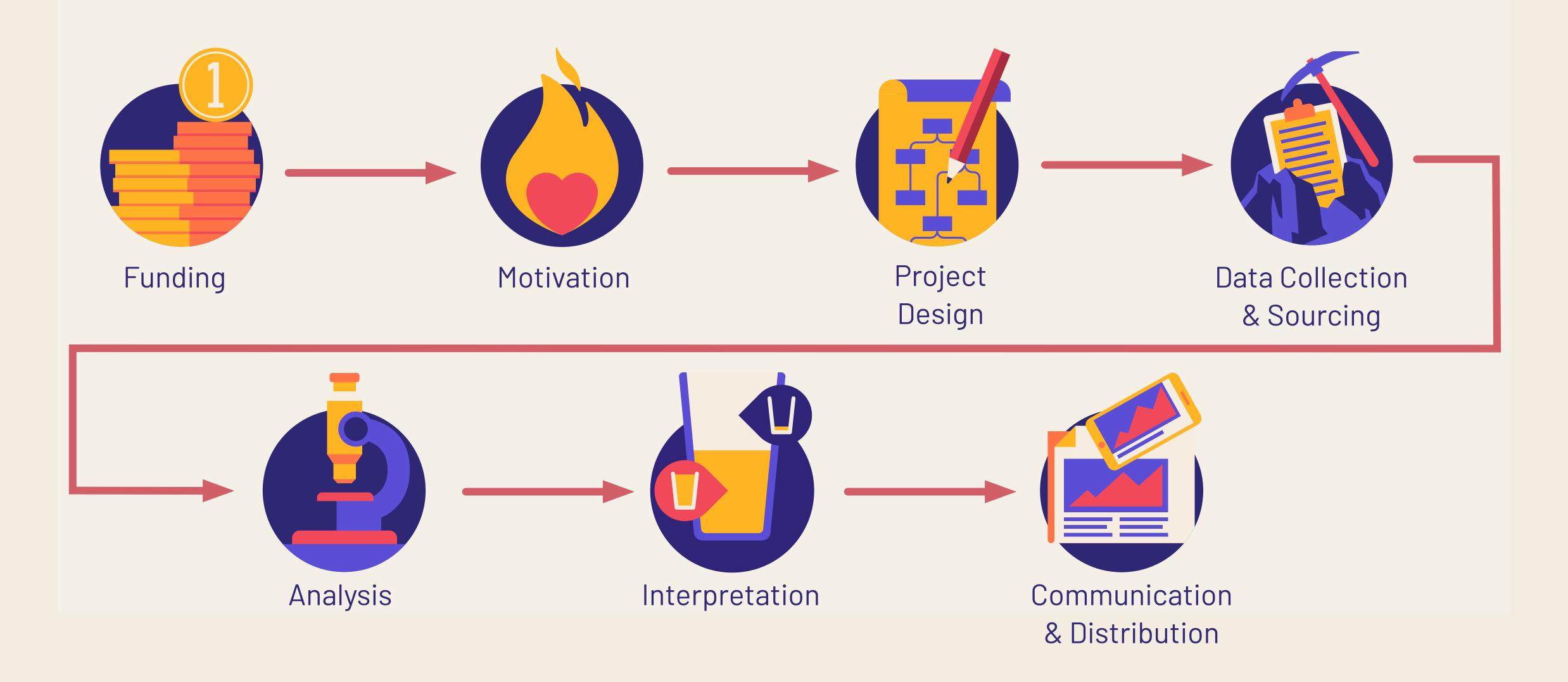








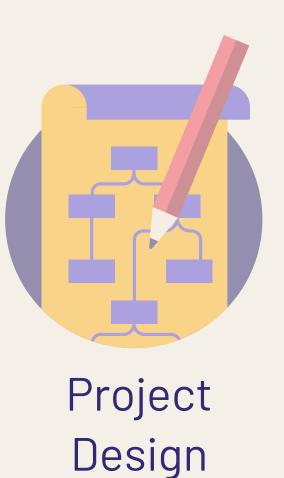
The order of steps reflects the typical data project process, but you can address them in any order.



Even if you can only address some of the steps in your project, it is still worth doing.













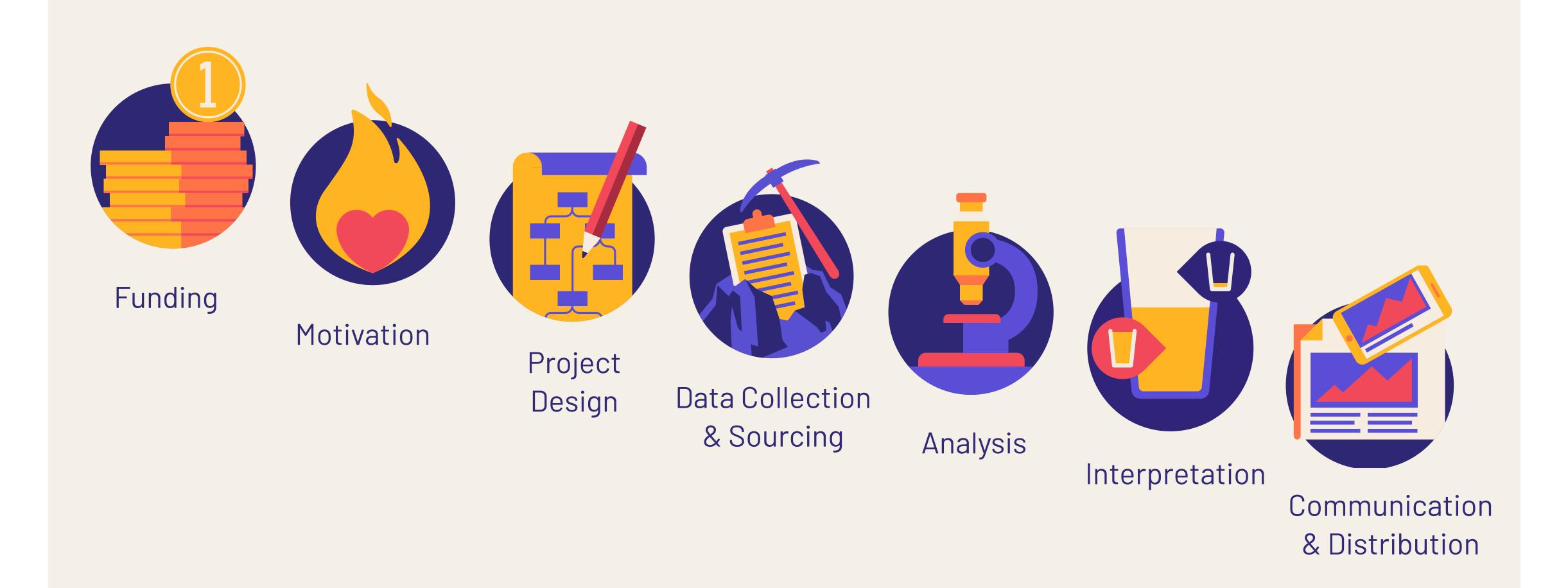


What you do in each step of the Data Equity Framework will have equity impacts and interactions in other steps and your project as a whole.

The Data Equity Framework works holistically and individually.



Data Framework Overview:

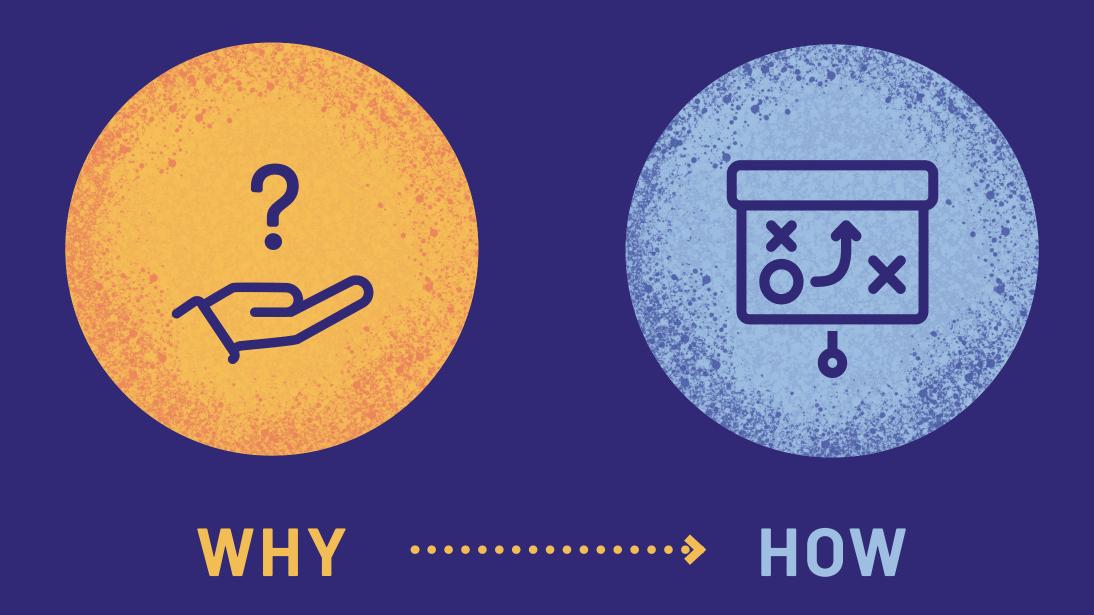




Step 3: Project Design

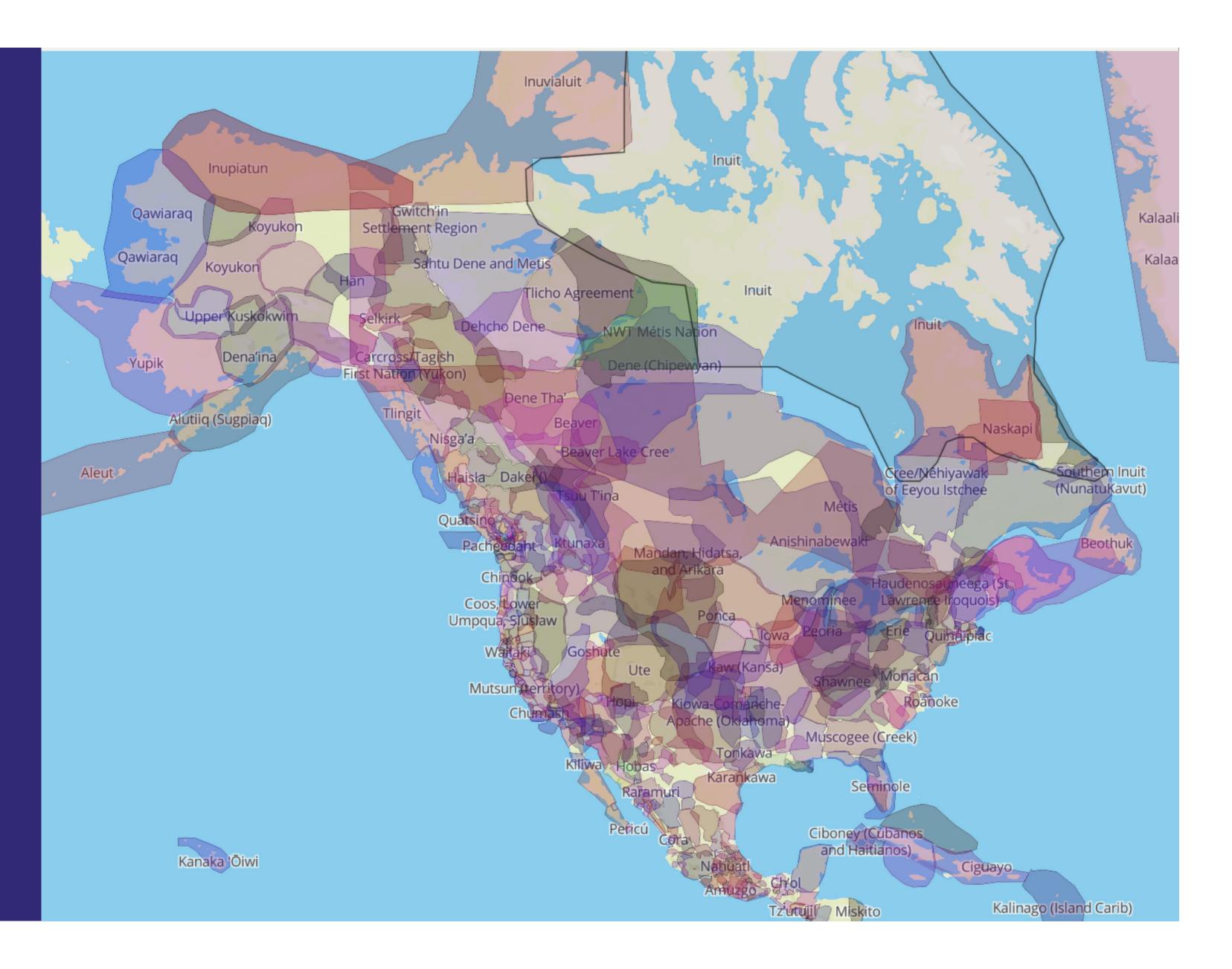
Project Design is the phase where the WHY becomes the HOW.

Critical step in data equity.



Project Design is about conceiving it as good as it can be. Later steps are about keeping it from getting as bad as it could get.

'Geographical Sample Area' based on whose geography?



The Perspective Microscope:

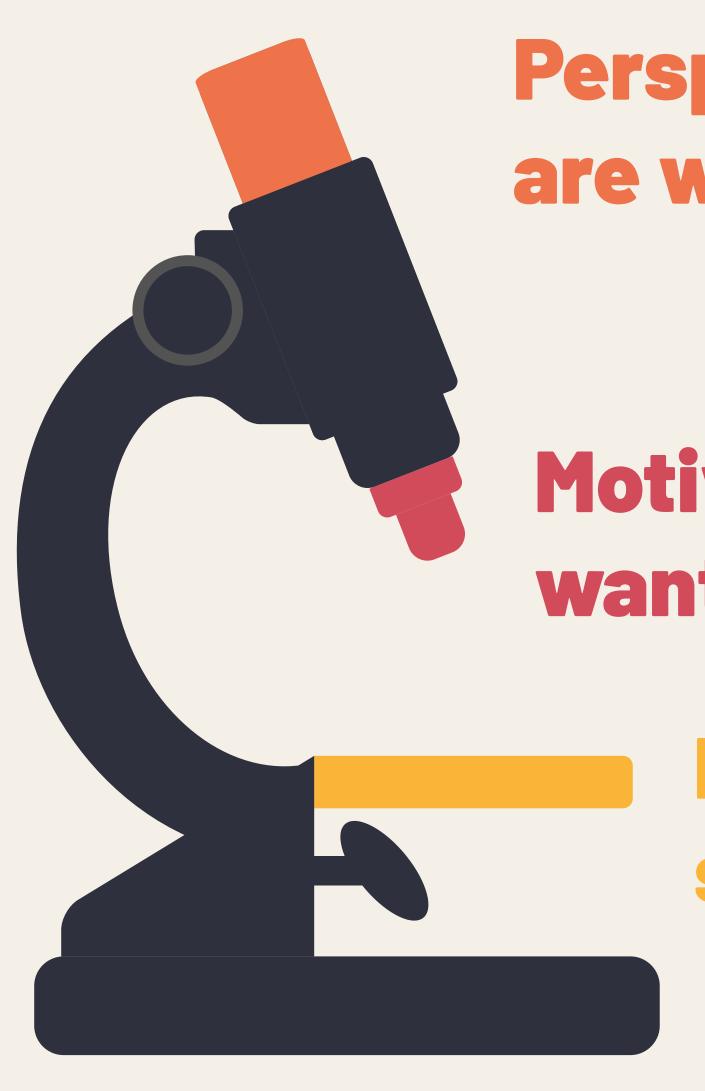
A way to brainstorm different general structures for your data project.

The 'general structure' of your project is:

- Who is asking the questions?
- What are the questions?
- Where are you looking for answers?

Motivation: How well is Syrian Refugee Resettlement going?

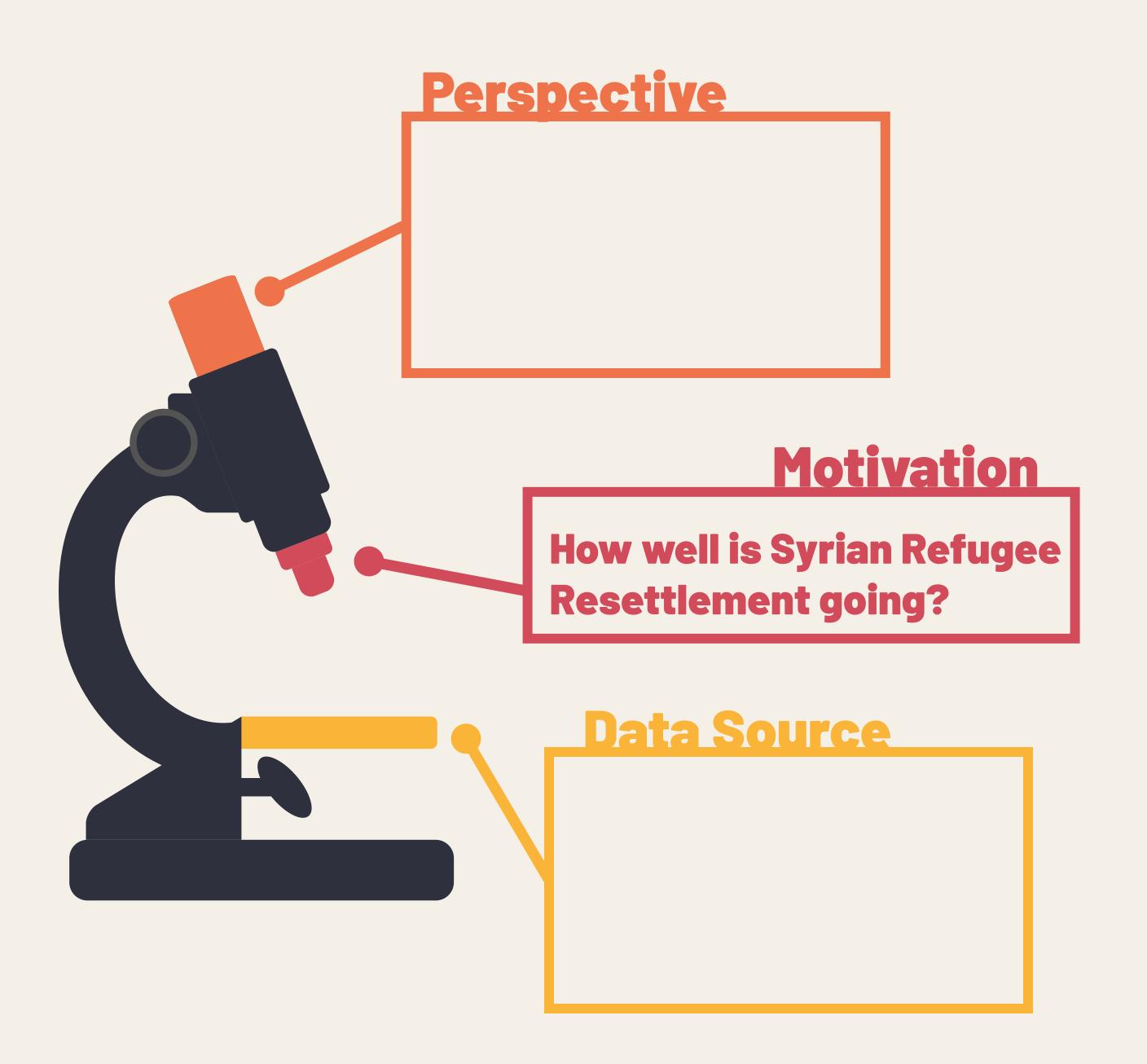
Project Stakeholders: **Syrian** Local Refugees Non-Profit **National** Government City Government Non-Refugee **City Residents** Large **Foundation National** Non-Profit



Perspective - whose point of view are we asking from?

Motivation Question - what do we want to know?

Data Source - where might we find some answers?



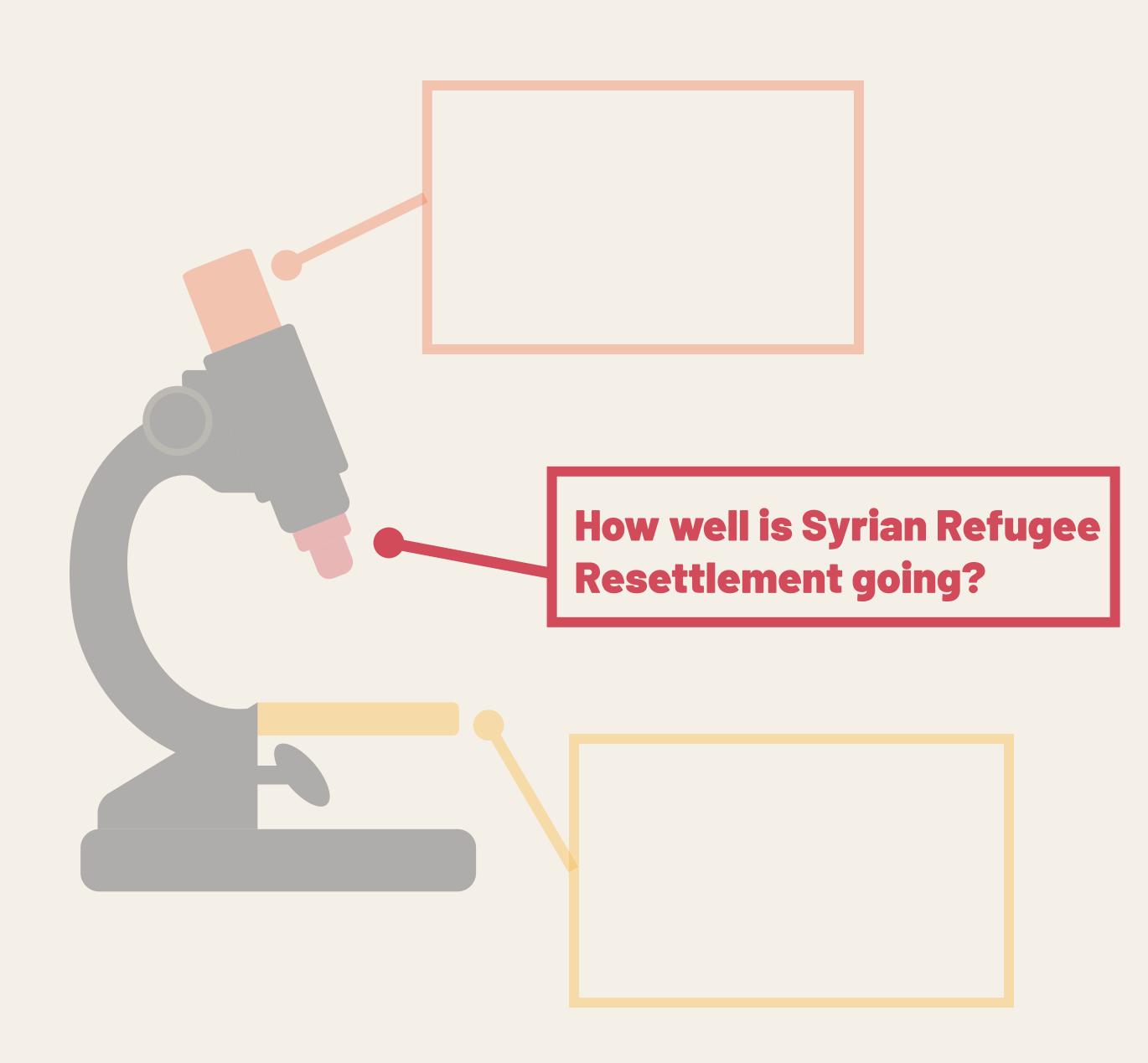
Who should we put in the boxes?

Large Foundation

National Non-Profit Syrian Refugees

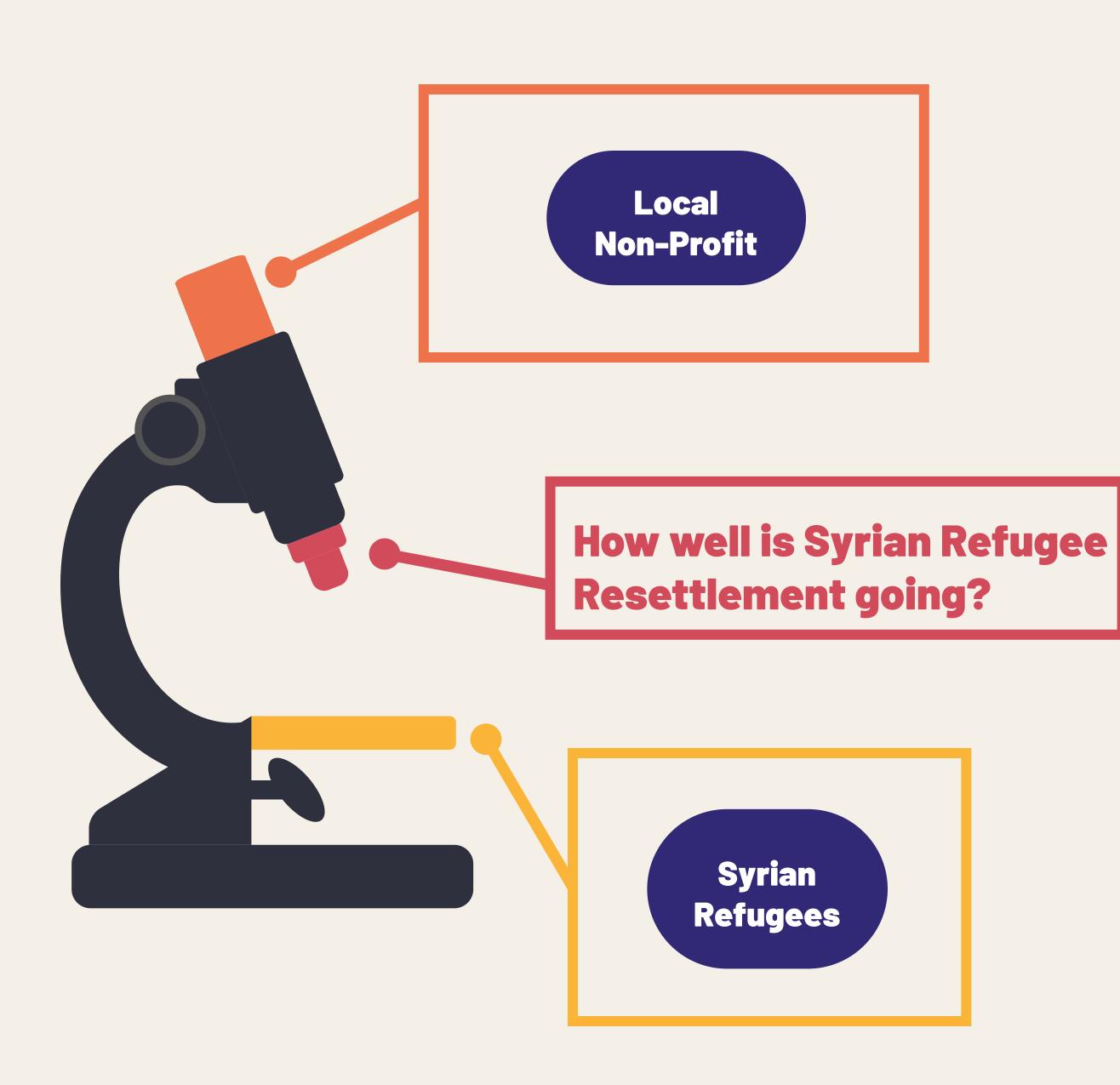
City Government Non-Refugee City Residents

National Government Local Non-Profit



This is not a research question. It's the general motivation.

What specific questions might emerge based on who is in which box?

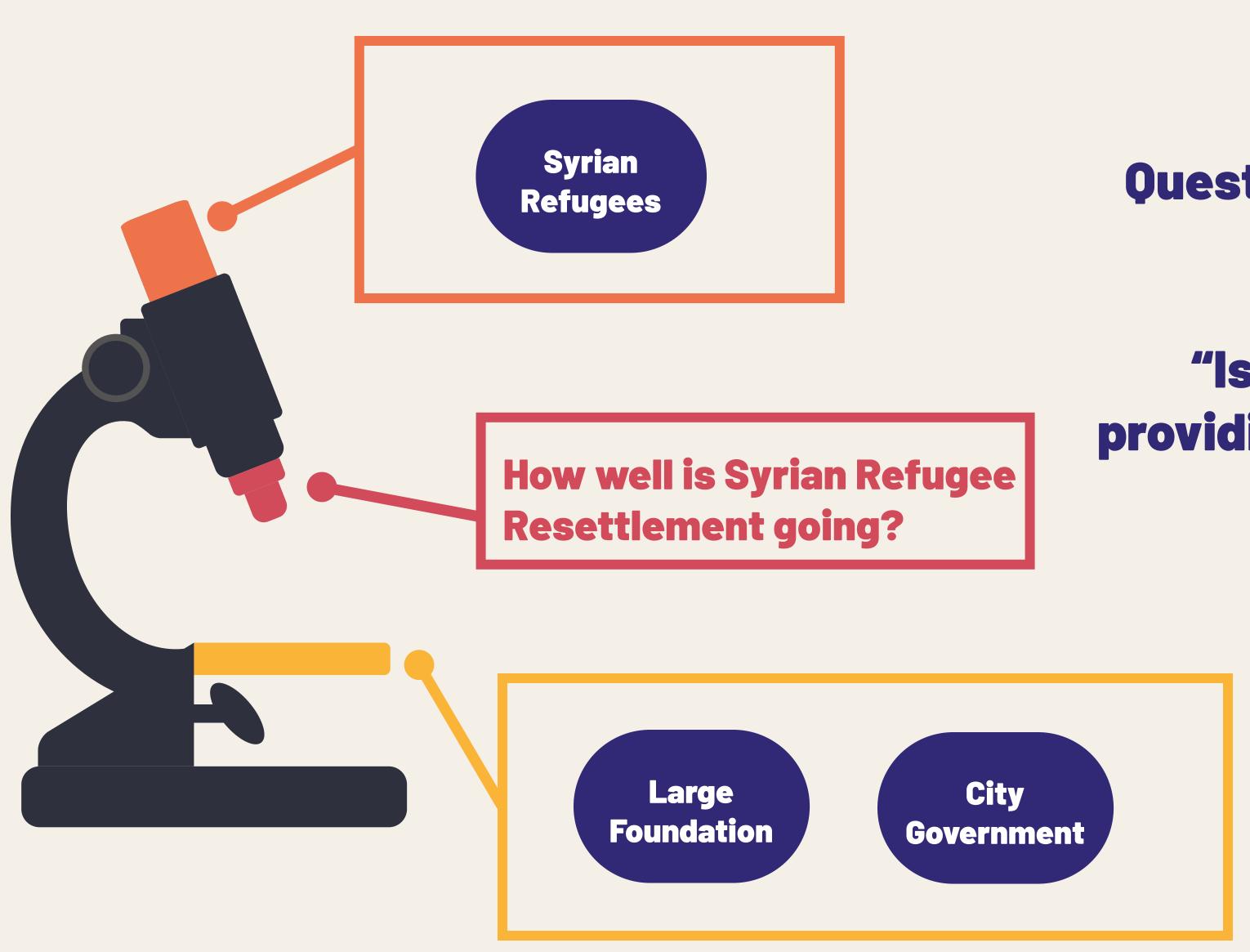


"Conventional"

Questions that might emerge from this setup:

"Do the refugees have jobs?"

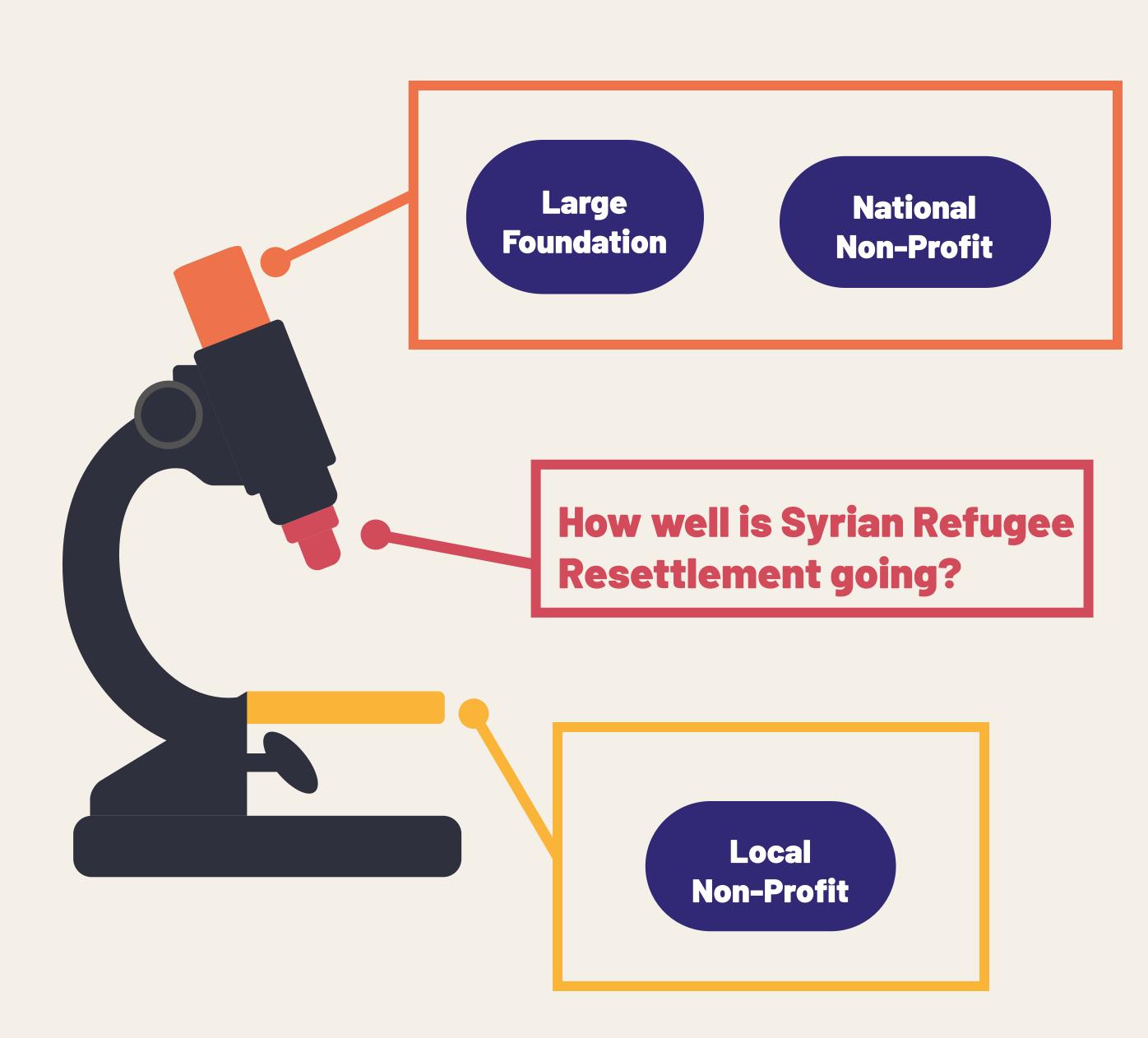
"Are refugee children benefiting from our afterschool programs?"



"Study Up"

Questions that might emerge from this setup:

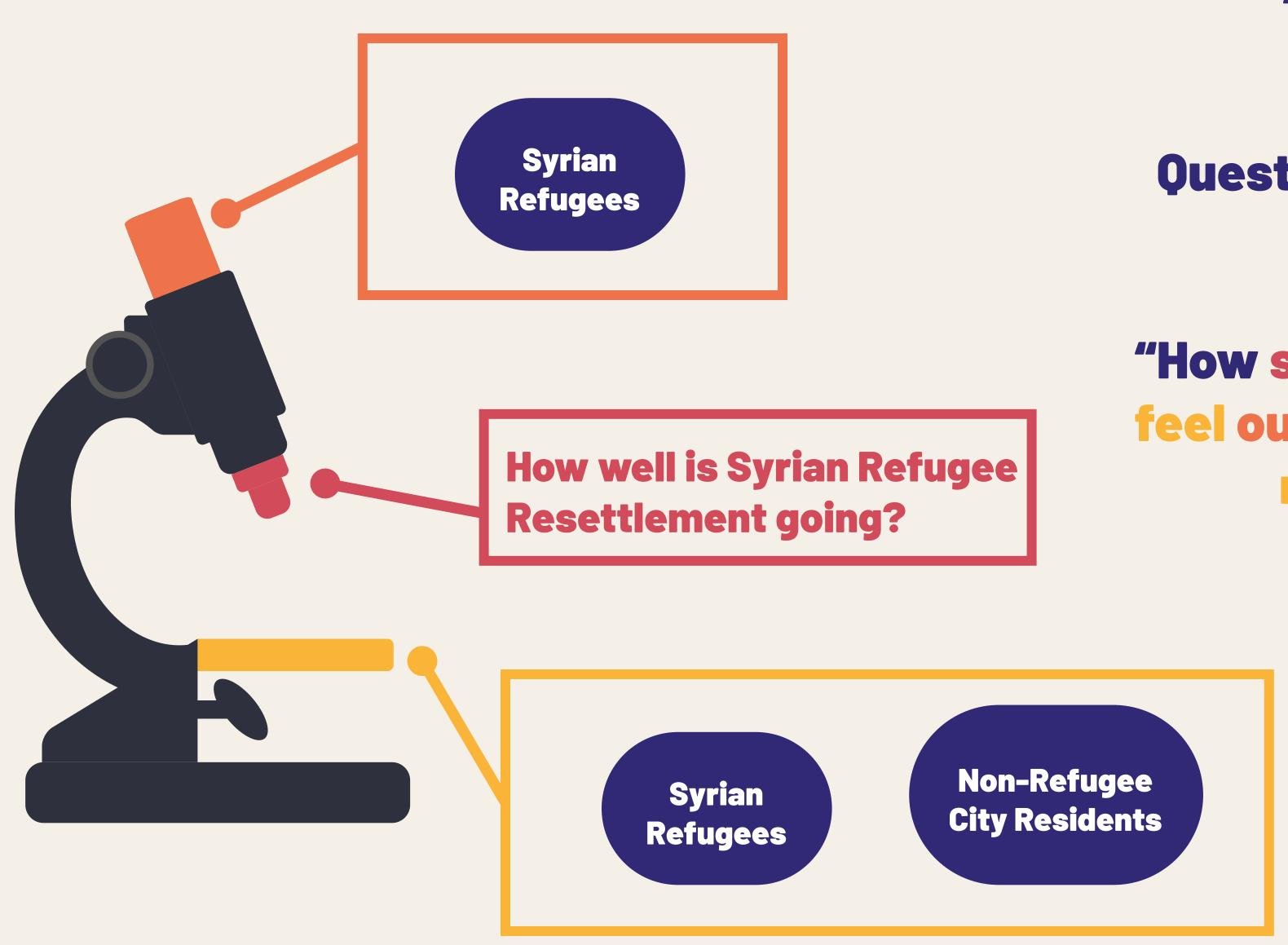
"Is the city government providing support in a language we can read?"



"Effectiveness of Funding Distribution and Support Services"

Questions that might emerge from this setup:

"How effectively are they spending the funding we've supplied to support the Syrian Refugees?"

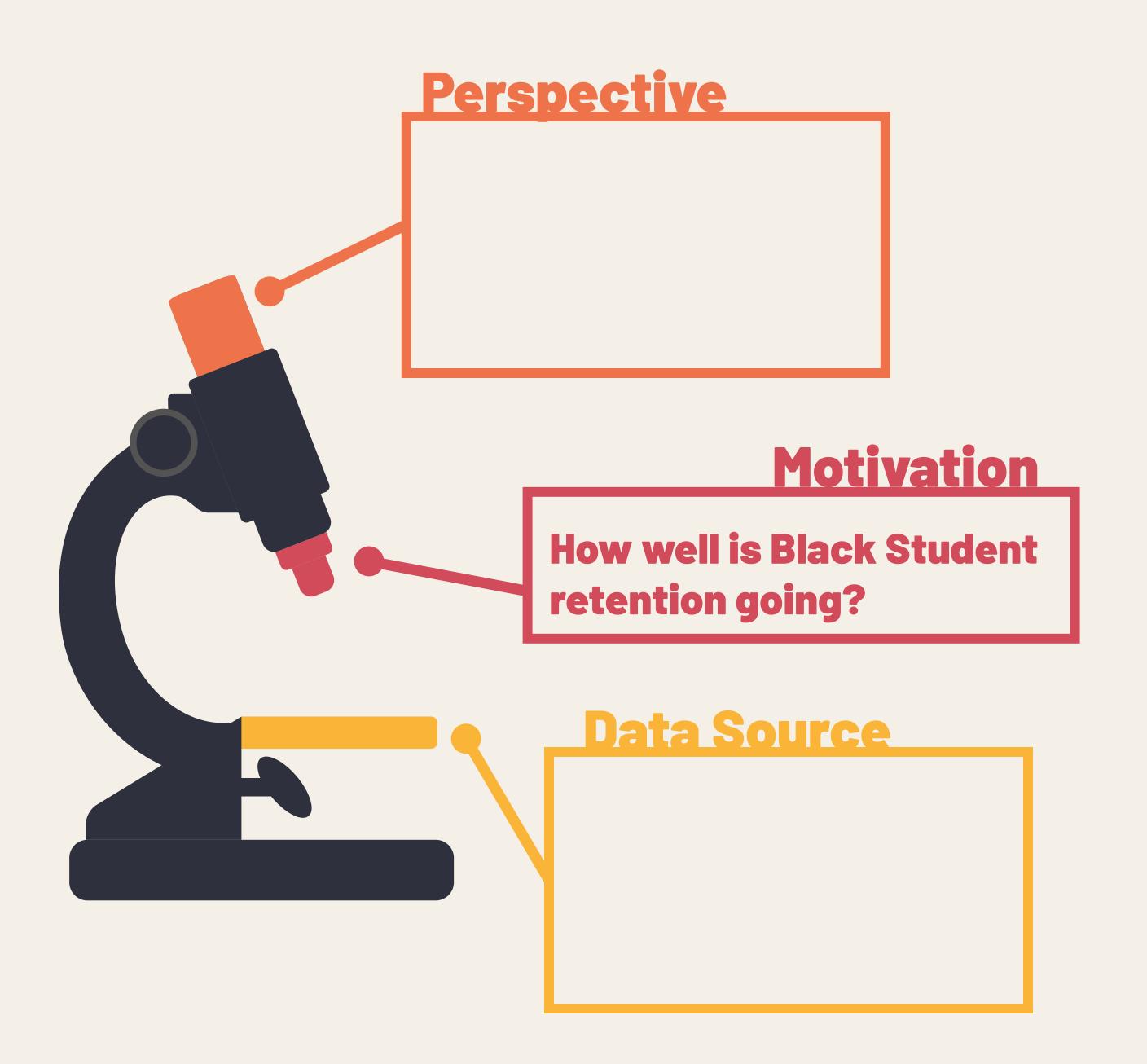


"Self-Study"

Questions that might emerge from this setup:

"How socially integrated do we feel our children are and do our neighbors agree?"

"How well is Black Student retention going?"



Who should we put in the boxes?

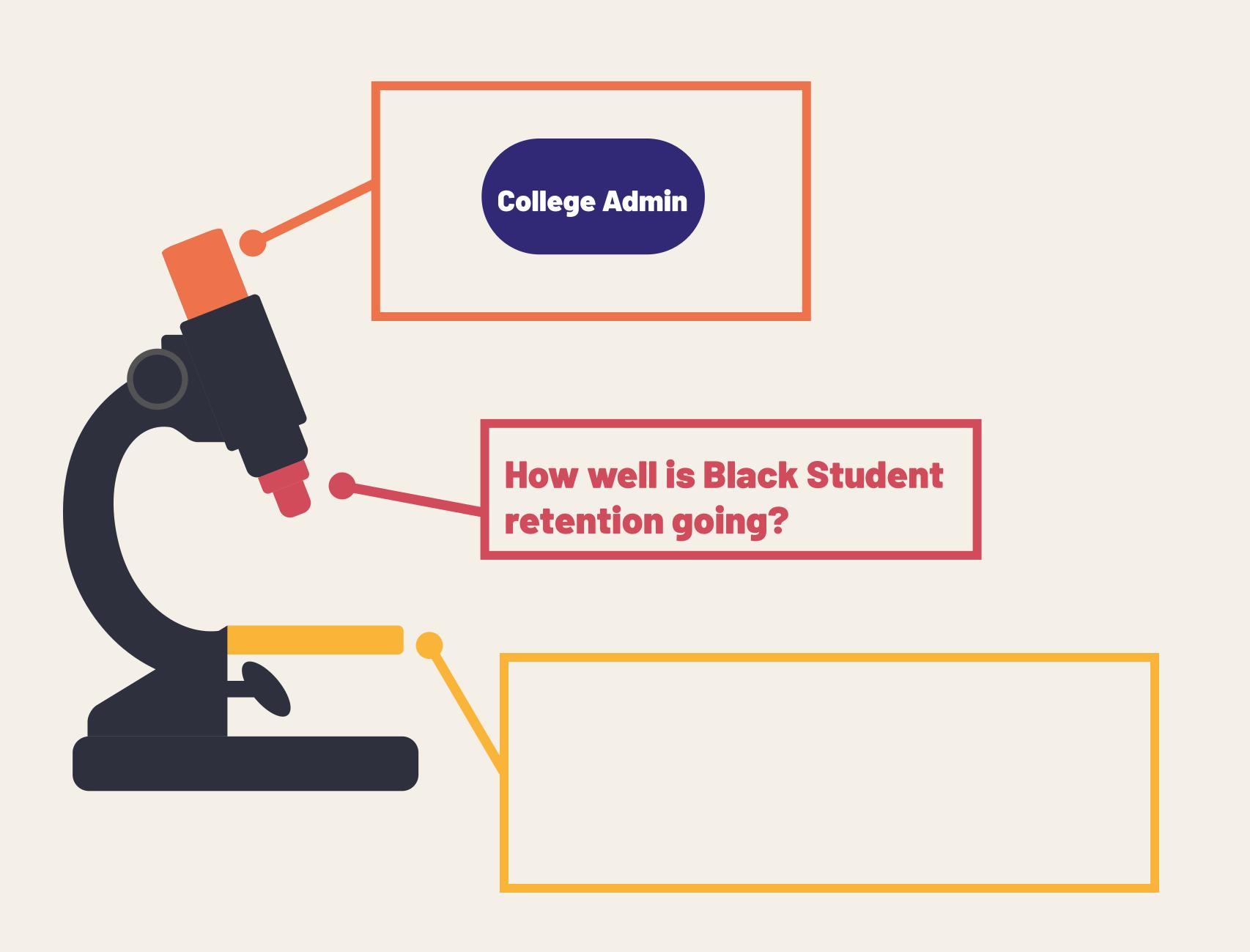
School Admin

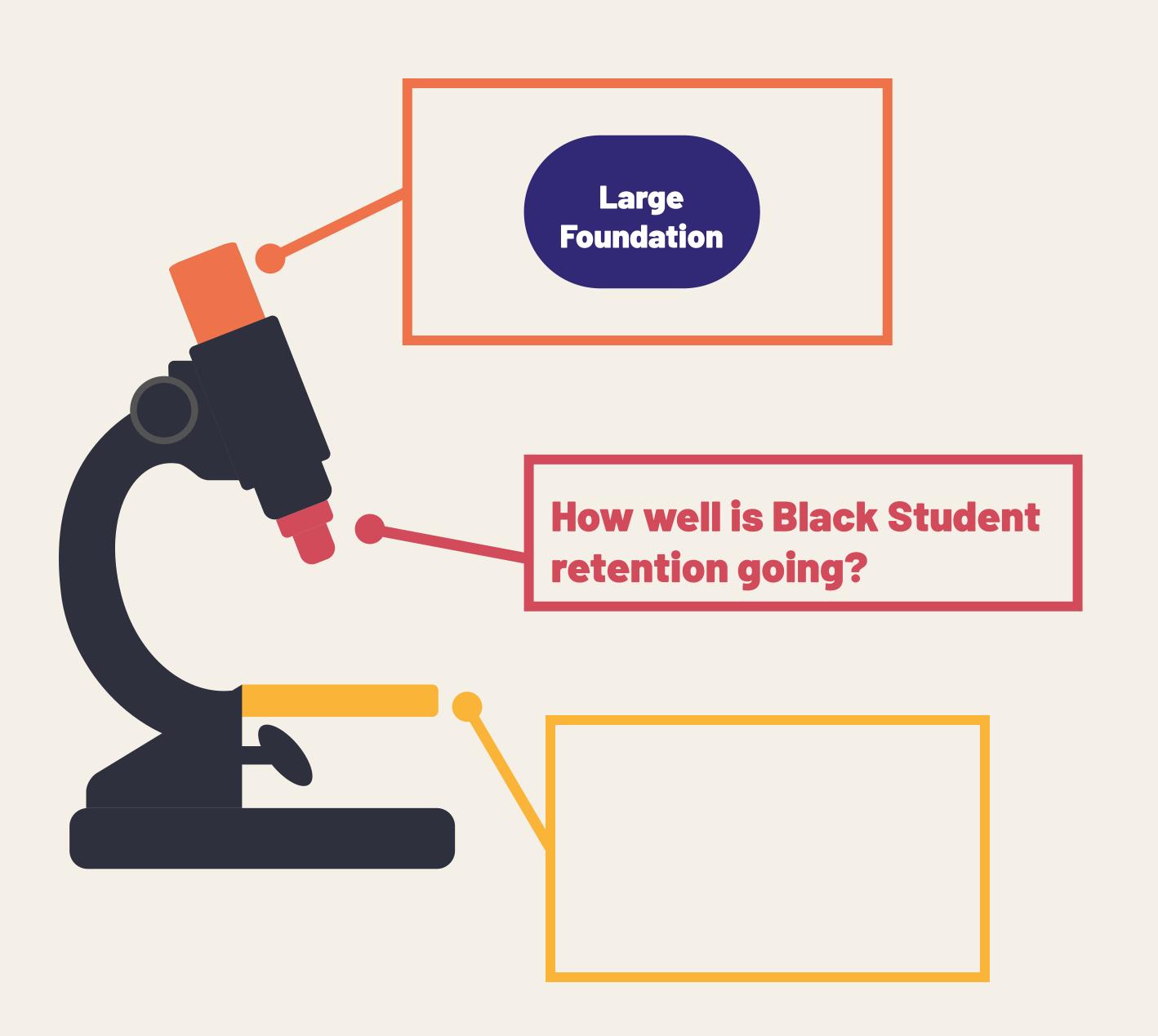
Large Foundation Black Students

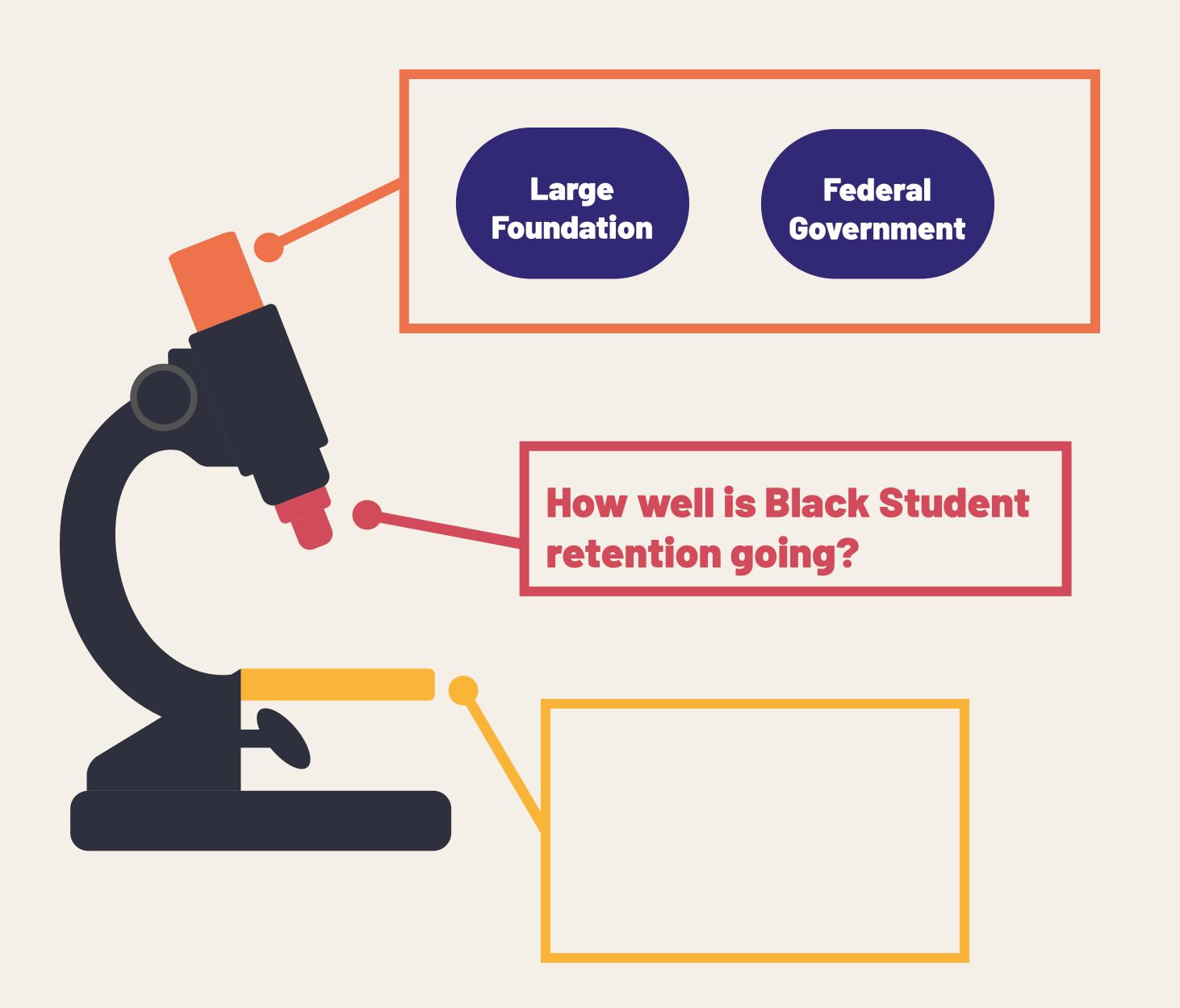
State Government Non-Black Students

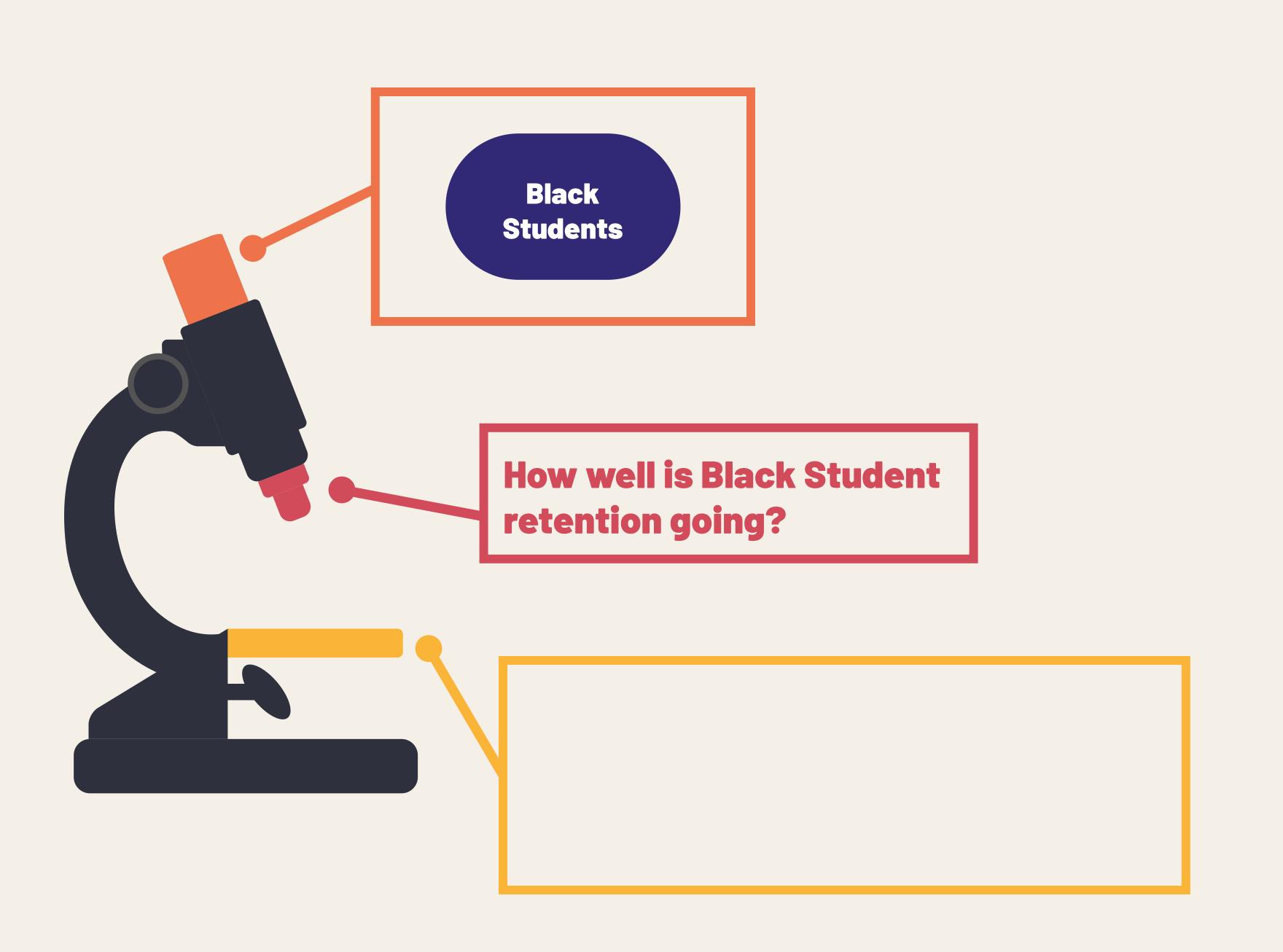
Local Business

Federal Government









Once you Blue Sky all the possible structures and questions, it's time to define your research question(s).

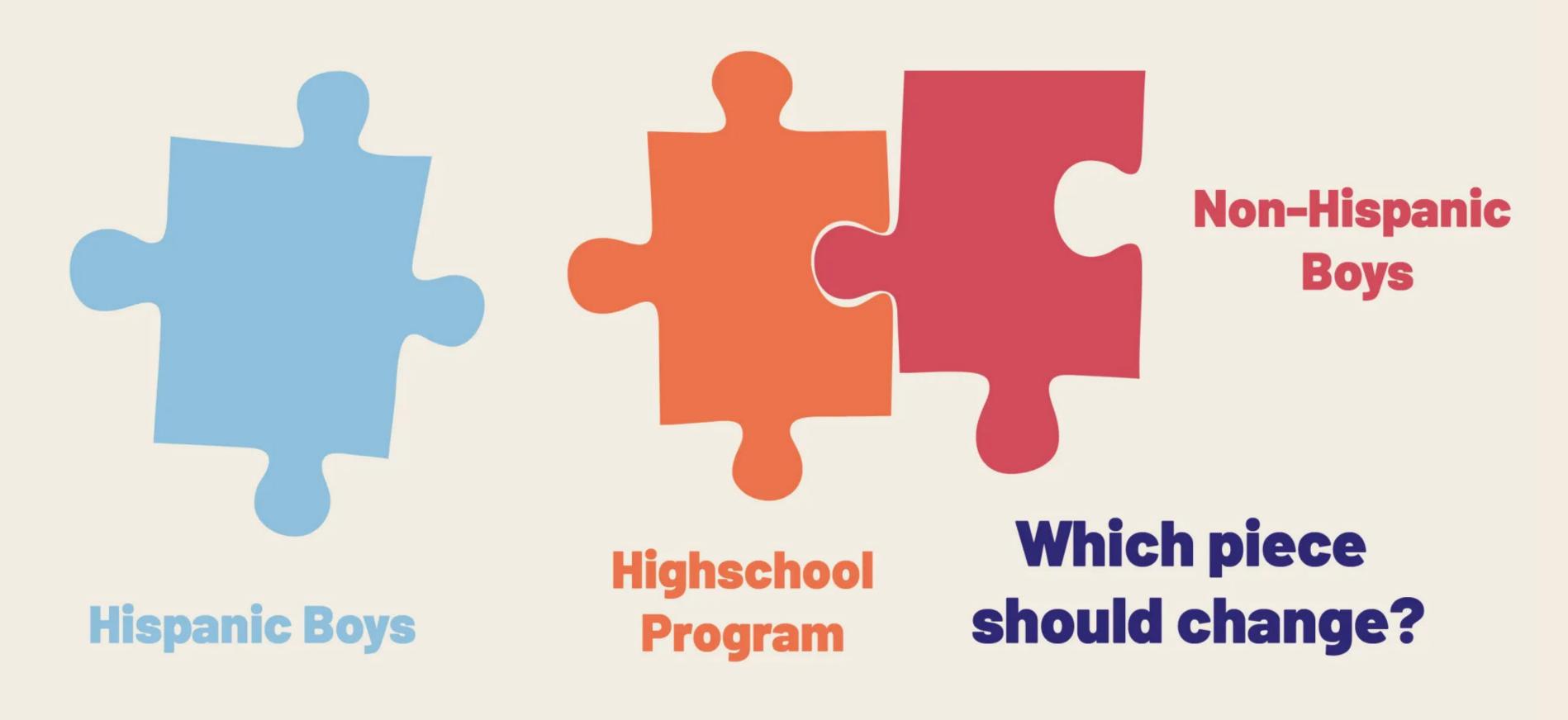


things you want AS BROAD AS POSSIBLE

Then, refine your

questions to reflect exactly what you want to know.

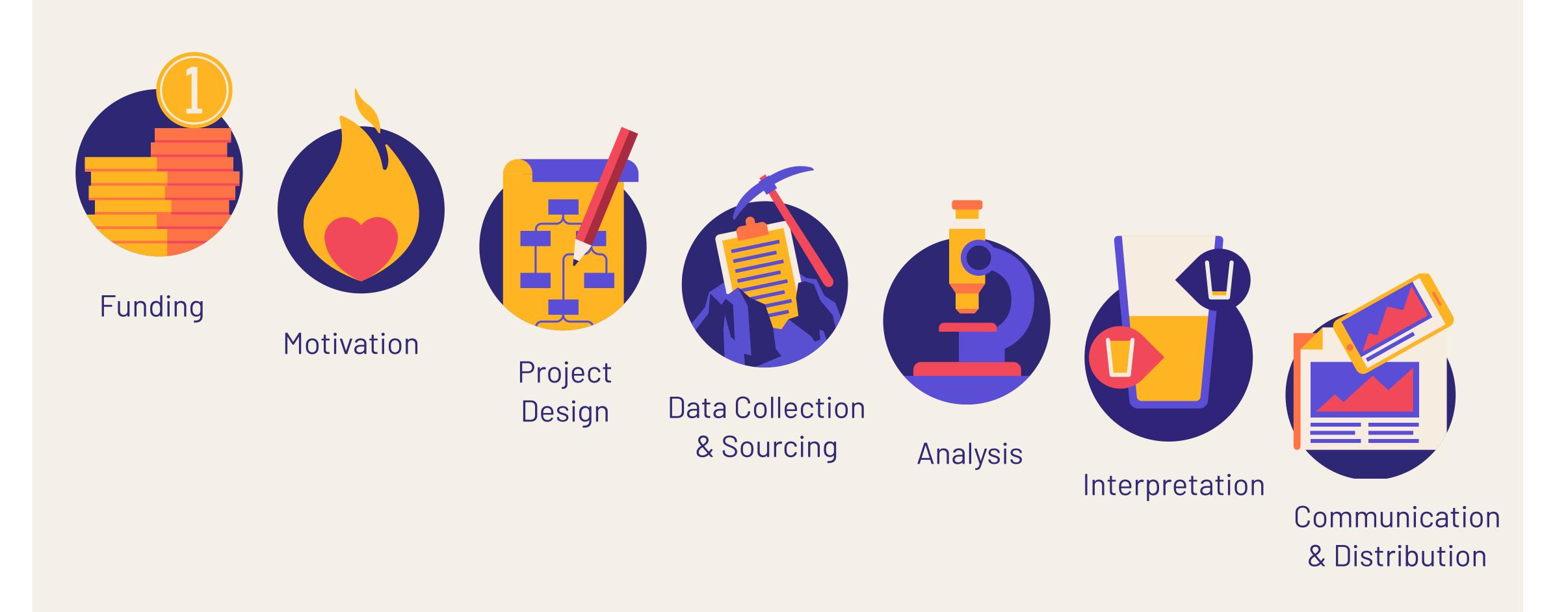
Original Research Question: "How can we keep Hispanic boys from being expelled from our schools at a higher rate than non-Hispanic boys?".



Revised Research Questions: "What processes in our school are most strongly related with pushing out Hispanic boys?" & "What school characteristics are most strongly related with creating environments that encourage Hispanic boys to fulfill preexisting their desires to remain in school?"



Data Equity Framework



Thank you.

weallcount.com

Heather Krause, PStat

support@weallcount.com

@datassist



Join us for the January Session January 21, 2021

How to collect and analyze demographics with equity.

How to make sense out of your data.

How to tell stories with data equity that people can actually use.