

# Using existing data to develop high-quality abstracts

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Division of Global HIV & TB



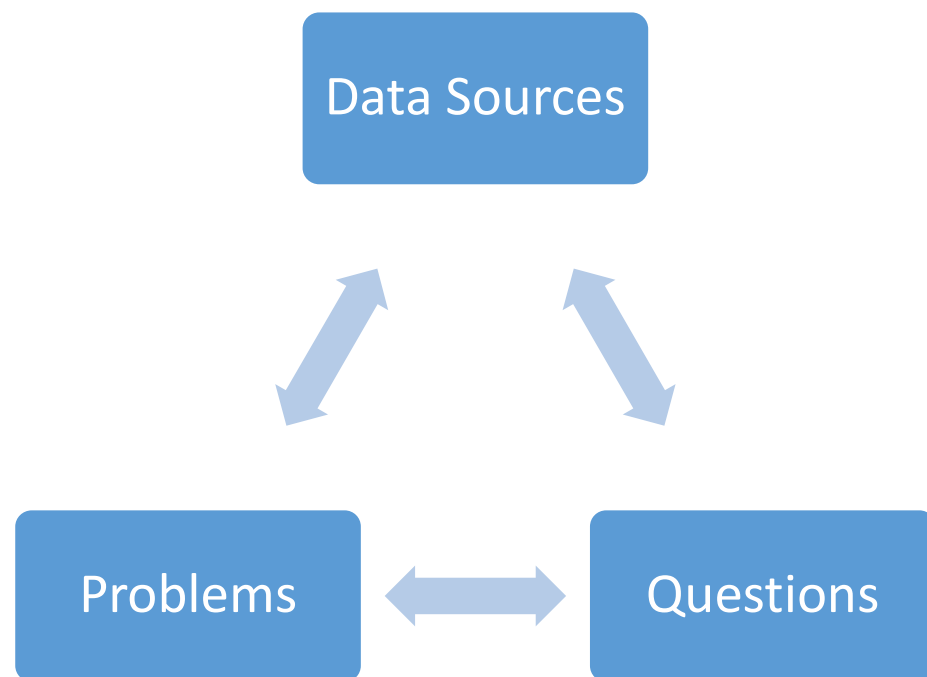
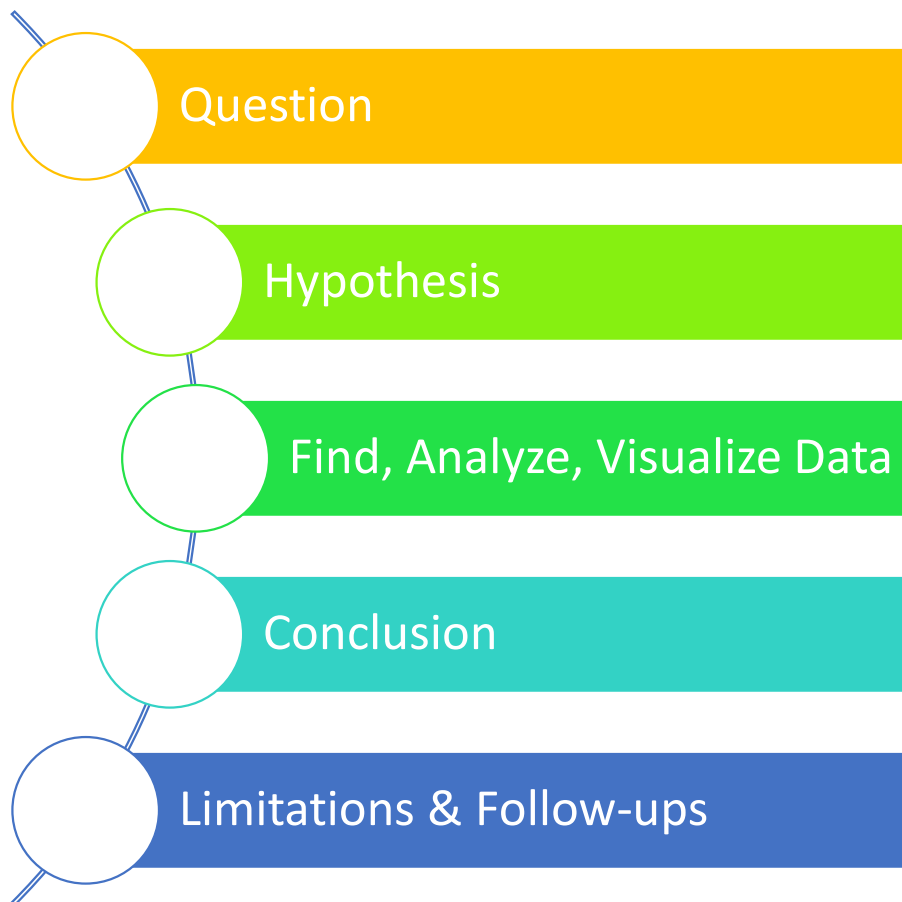
# Objectives

- Suggest process for analyzing data to answer questions
  - From Questions to Data
  - From Data to Questions
- Discuss some data sources
- Conclude

## *Disclaimer*

- *The findings and conclusions in this presentation are those of the author and do not necessarily represent the official position of CDC*

# Process



# What are you asking?

Are there data to support this?

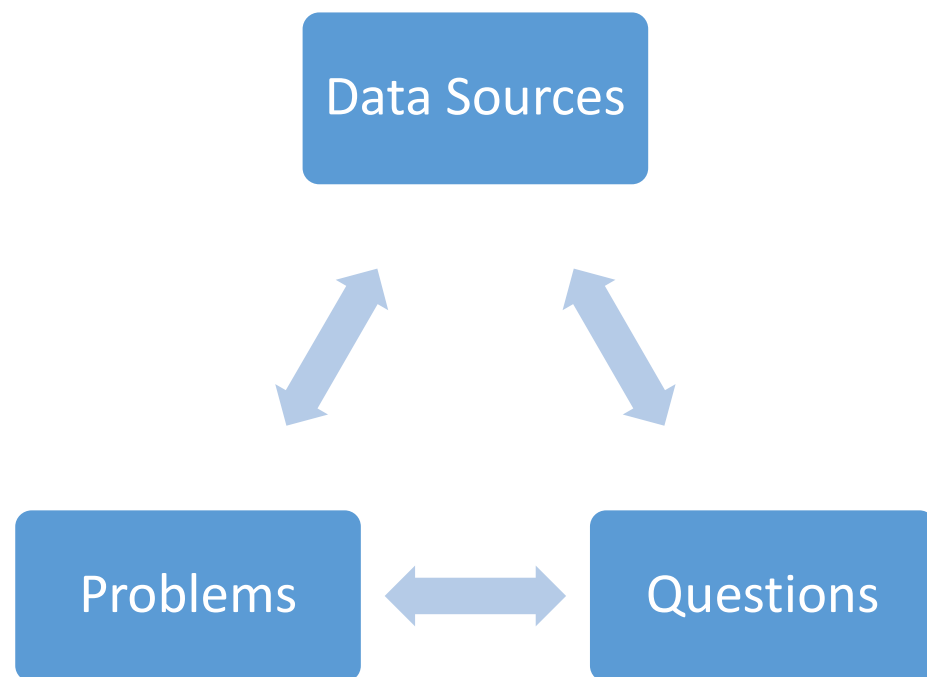
Did it work??

What's wrong??

What's going on?



## *From Problems or Questions to Data*

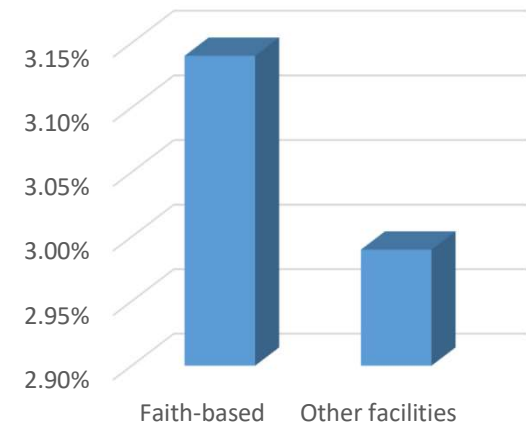


# Data to investigate hypotheses



Are there data to support this?

- 1. Question:** Do faith-based facilities have better outcomes than other facilities?
- 2. Hypothesis:** Faith-based facilities find more people living with HIV than other facilities
- 3. Find Data Source(s); then Analyze and Visualize Data:**
  - National data system includes data element on whether facility is faith-based
- 4. Conclusion:**
  - Faith-based facilities have more POS tests per total tests (higher positivity) compared to other facilities
  - Cannot answer the question with this figure
- 5. Data Limitations and Follow-ups:**
  - Need to look at total POS tests to answer the question, but this is still meaningful
  - This leads to more questions like “Are these facilities screening?” “Are these facilities creating demand?” “Are people with HIV more comfortable being tested at these facilities?”



# Data to evaluate interventions – Pre/Post Example

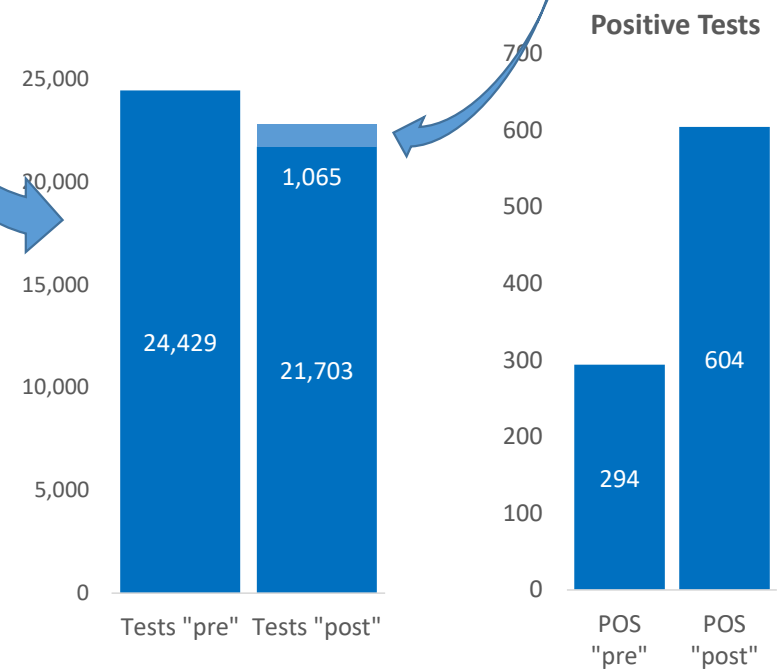
Did it work??



1. **Question:** Are FCI activities having the desired effect?
2. **Hypothesis:** Self-tests distributed by faith leaders will lead to identifying more men living with HIV
3. **Find, Analyze, and Visualize Data**
4. **Conclusion:** The number of men testing POS increased after self-test kits were distributed by faith leaders
5. **Data Limitations and Follow-ups:** Did the reporting process change? Were other interventions also introduced?

Number of men testing POS more than doubled  
after faith leaders distributed self-test kits

while number of tests did not increase

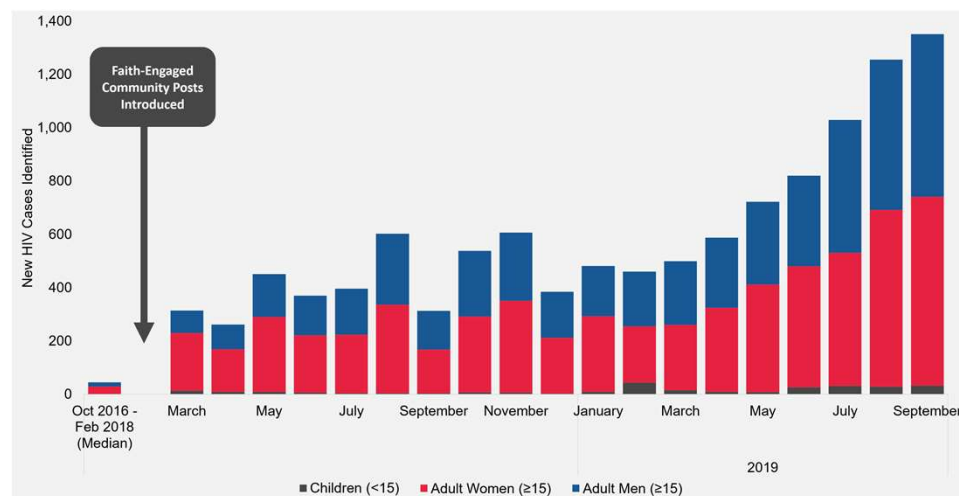


# Data to evaluate interventions – Timeline Example

Did it work??



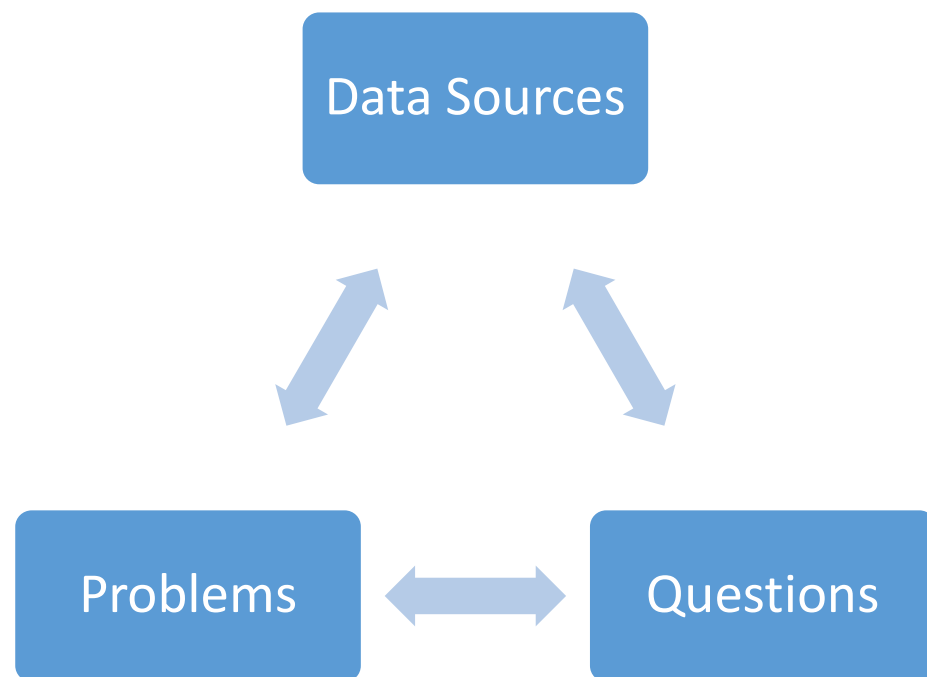
1. **Question:** Are FCI activities having the desired effect?
2. **Hypothesis:** Faith community posts will lead to identifying more people living with HIV
3. **Find, Analyze, and Visualize Data**
4. **Conclusion:** The number of people testing POS increased after faith-engaged community posts were introduced
5. **Data Limitations and Follow-ups:** Sometimes need to ask others



Shah et al., IAS 2020



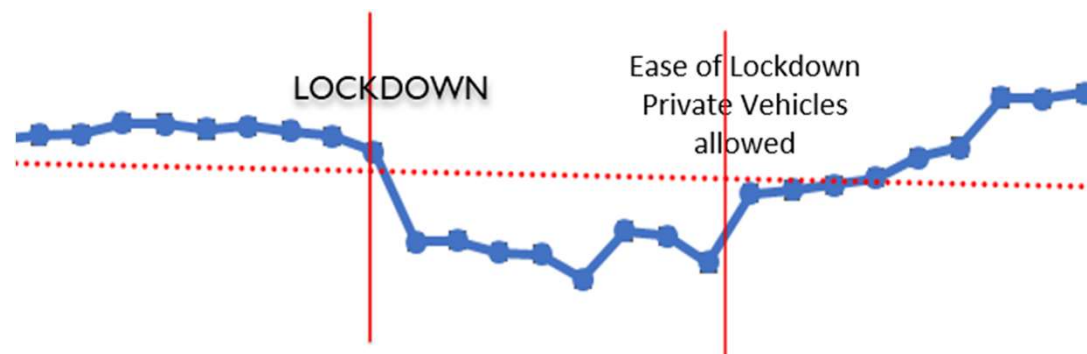
## *From Data to Problems and Questions*



# Data to identify problems – Timeline Example

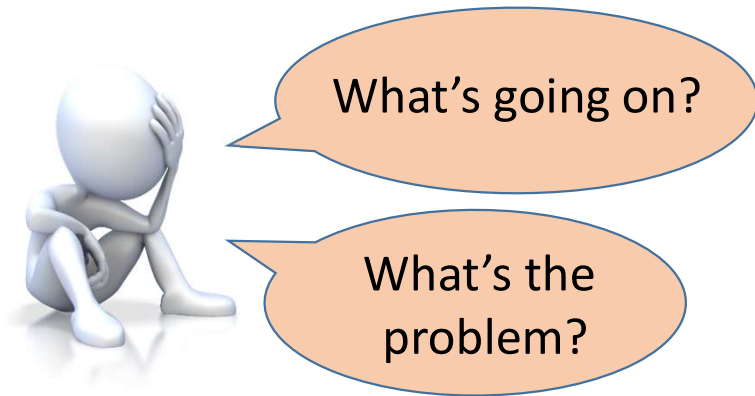


What's going on?



1. **Question:** Is this indicator improving/declining during the pandemic?
2. **Hypothesis:** This indicator is decreasing due to lockdown
3. **Find, Analyze, and Visualize Data:**
  - The indicator declined after lockdown was instituted, suggesting lockdown had an effect
  - Improvement after taking away the variable further suggests lockdown had an effect
4. **Conclusion:** The indicator declined during lockdown and recovered after ease of lockdown
5. **Data Limitations and Follow-ups:**
  - We observe changes, but is this due to decline of reporting, decline of service delivery, other?

# Data to identify problems to address – PHIA National Survey



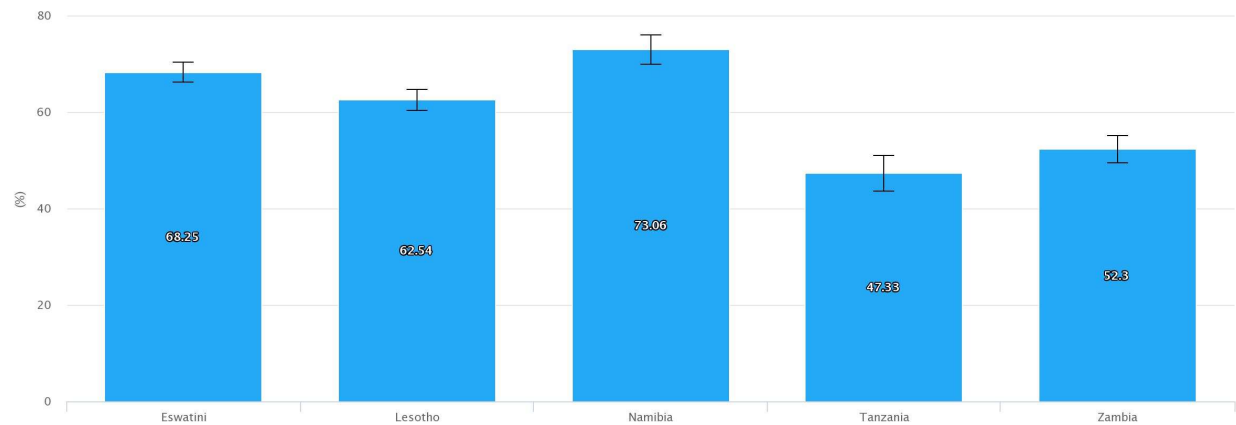
## Questions:

- How does my country compare?
- Which country should we focus on?

## Problems:

- None of these countries had achieved 90% viral load suppression among PLHIV
- Country X is at XX% viral load suppression, which is below its goal of 90%
- Country X has the worst viral load suppression as compared to other countries in Region Y

Viral Load Suppression Among PLHIV in Five Countries,  
Population-based HIV Impact Assessment (PHIA)  
<https://phia-data.icap.columbia.edu/visualization#>



# Data Sources



What's going on?

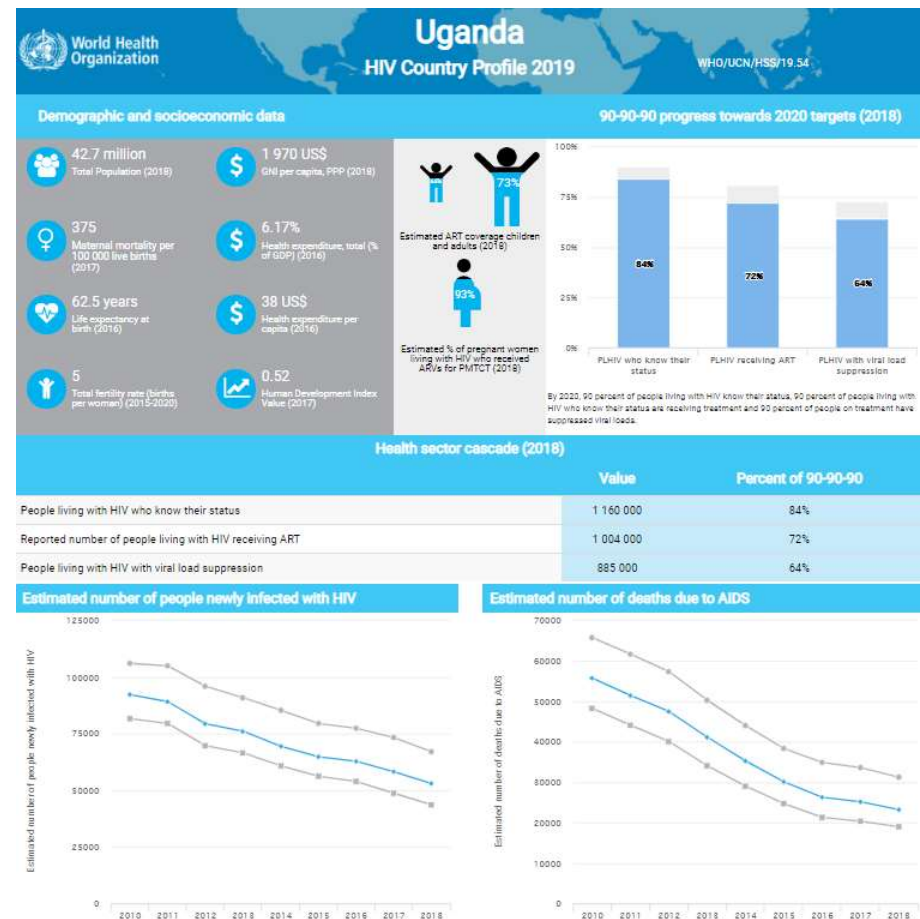
## Static data

(e.g., reports, reference sheets, published posters/articles)

&

## Dynamic data

(e.g., dashboards, public datasets)



WHO HIV Country Profiles

<https://cfs.hivci.org/country-factsheet.html>

# Data Sources

PEPFAR Panorama Spotlight

<https://data.pepfar.gov/>

Population-based HIV Impact Assessment (PHIA)

<https://phia-data.icap.columbia.edu/visualization#>

WHO HIV Country Profiles

<https://cfs.hivci.org/country-factsheet.html>

UNAIDS AIDSinfo

<https://aidsinfo.unaids.org/>

UNAIDS Key Population Atlas

<https://kpatlas.unaids.org/dashboard>

USAID Demographic & Health Surveys

<https://dhsprogram.com/>

<https://www.statcompiler.com/en/>

*Other static and dynamic data sources?*

- Program data
- National statistics
  - DHIS2
  - MOH dashboards
- Population surveys
- Clinical trials
- Academic journals
- Conference posters
- Qualitative feedback
  
- Faith-based data sources
  - Some national data
  - Some PHIA
  - Others?

# Final Considerations

- Ethical considerations
- Data should be publicly available; be careful before you pay for data
- Static and dynamic data sources
- Can use data from your program or other programs, but might need to collaborate to ensure using it correctly
  - Study of faith/religion is nuanced field

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# Questions? Comments?

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