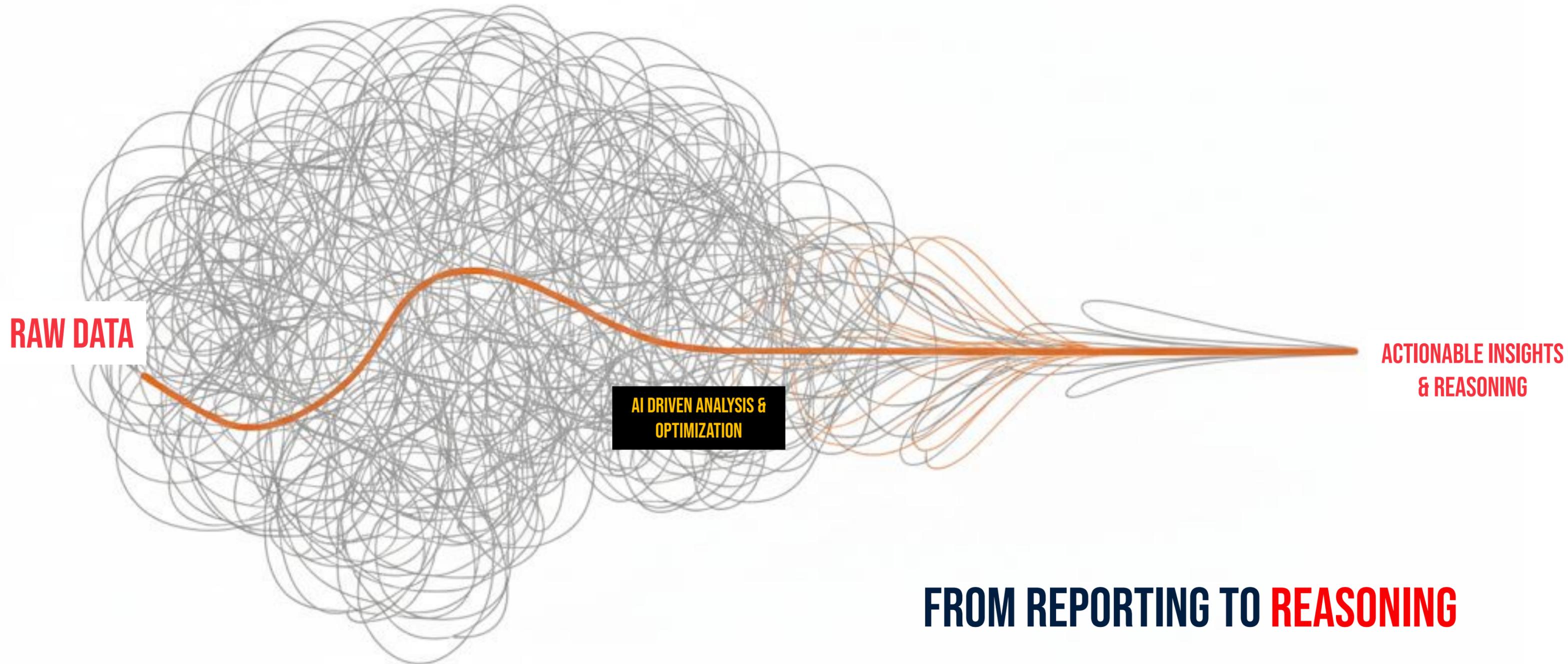


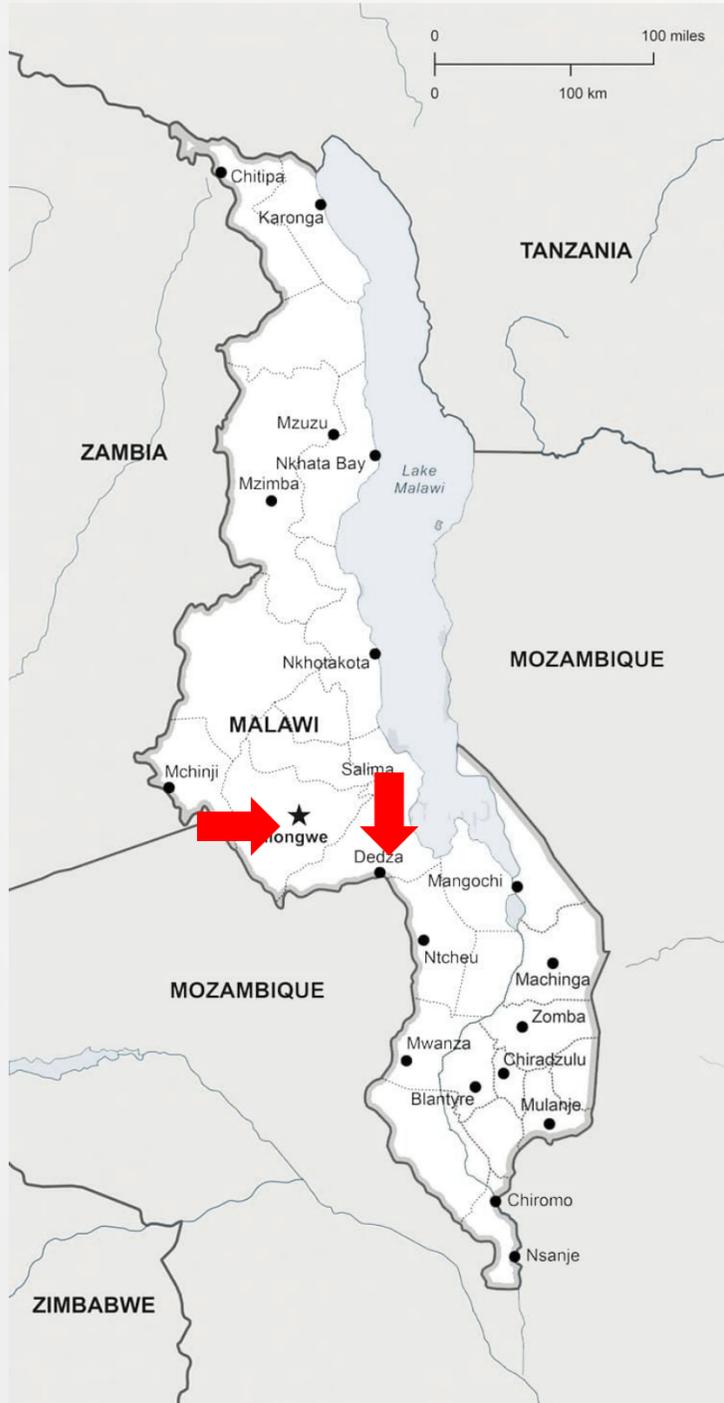
# USING AI TO OPTIMIZE HEALTH SERVICE DELIVERY AND OPERATIONS





**WE HAVE THE DATA. WHY DON'T WE ALWAYS ACT ON IT IN TIME?**

# COVERAGE IS NOT IMPACT



## THE METRICS (SUCCESS ON PAPER)

- ✓ NETS ARRIVED
- ✓ NETS DISTRIBUTED
- ✓ COVERAGE TARGETS MET

## THE REALITY

-  NETS USED FOR FISHING
-  NETS USED TO ENCLOSE CHICKEN COOPS
-  UNUSED DUE TO FERTILITY BELIEFS
-  MYTHS: MALARIA COME FROM THE SUN
-  MYTHS: MALARIA COMES FROM MANGOES

THE INTERVENTION WAS DELIVERED. BEHAVIOR DID NOT ALIGN

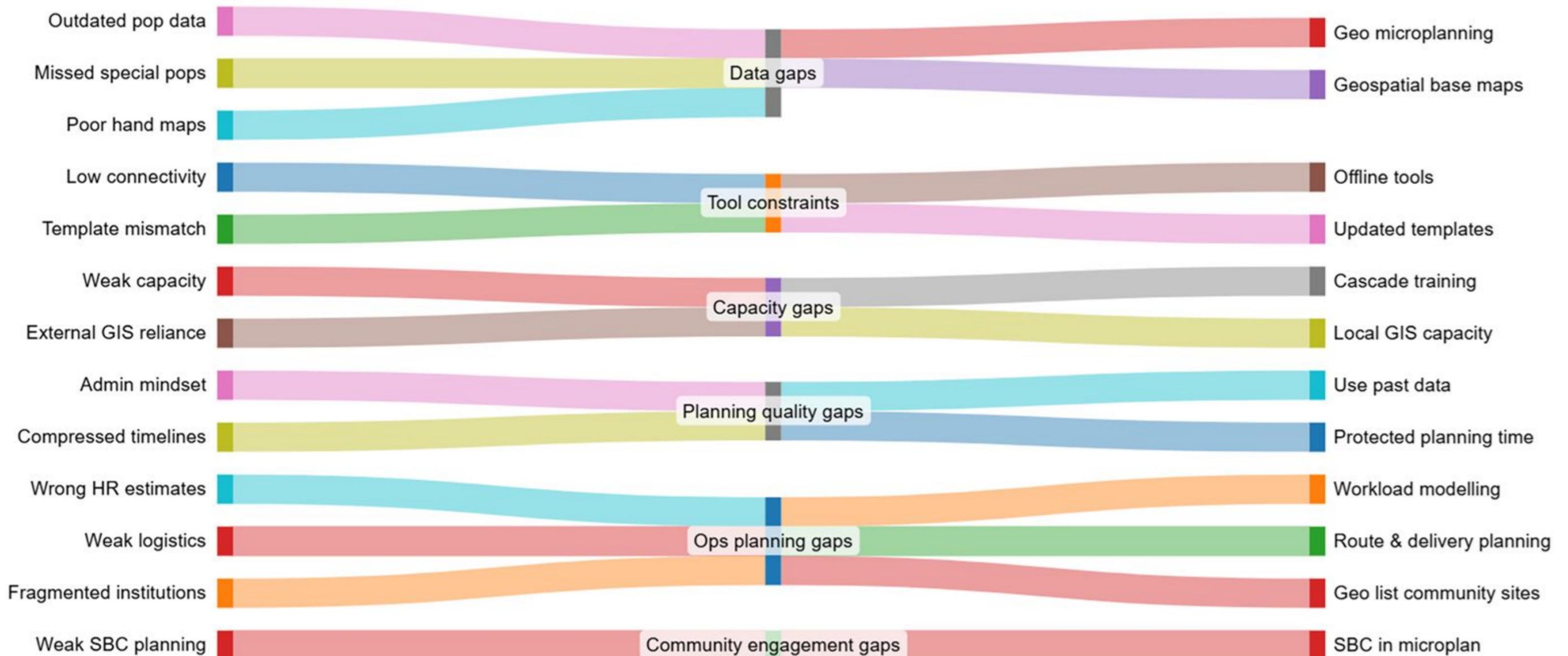
# WHY COVERAGE DOESN'T ALWAYS BECOME IMPACT



## CHALLENGES

## GAP AREAS

## ACTIONS



# WE DIGITALIZED. NOW WHAT?



**DIGITALIZATION GAVE US FASTER REPORTING OF THE PAST. IT DID NOT GIVE US A VIEW OF THE FUTURE**

**TOO MANY CHARTS**

**TOO MANY FILTERS**

**CAN I CALL SOMEONE?**

**BUT WHAT ARE WE SEEING?**

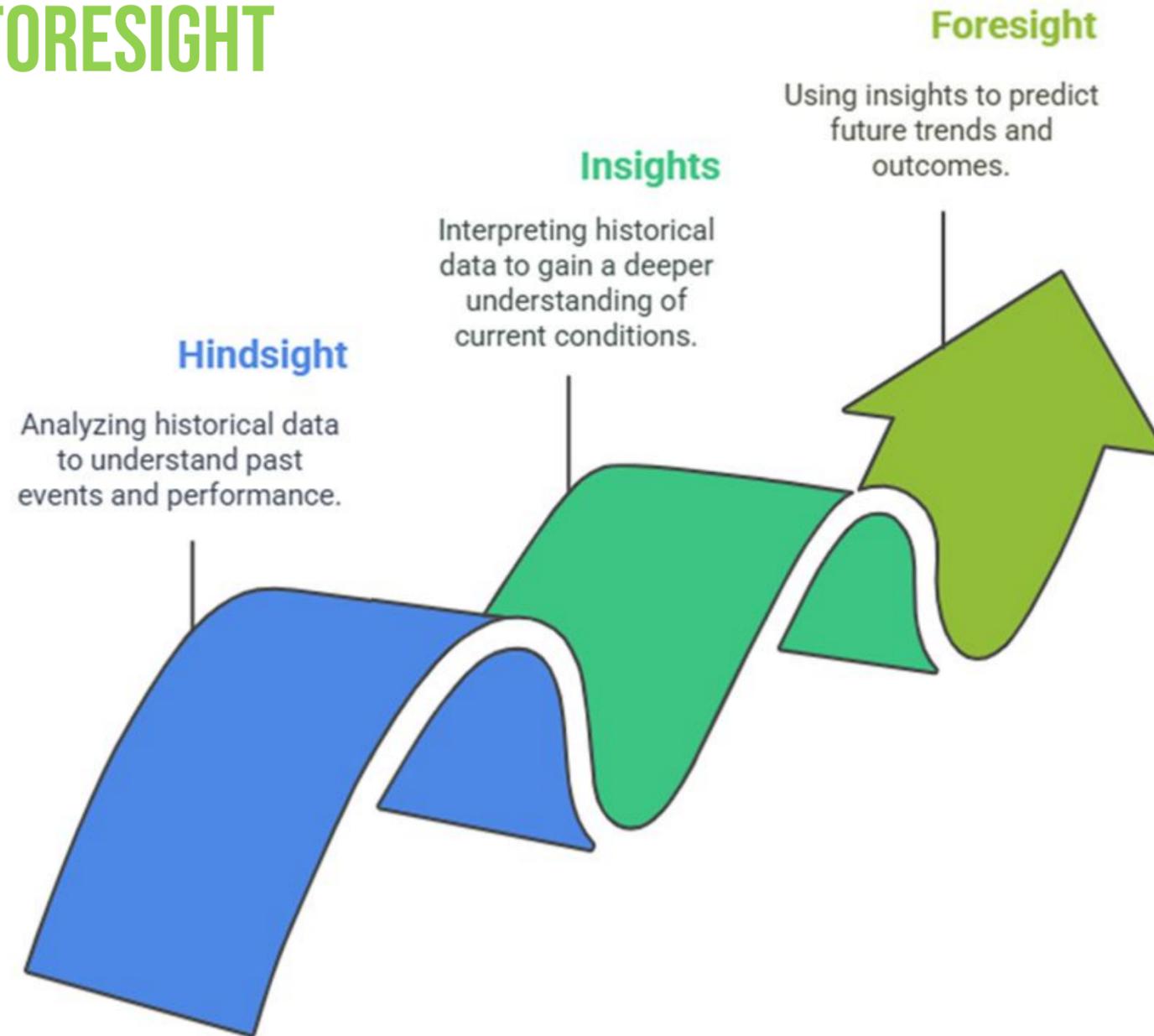
**WHERE SHOULD I BE PAYING ATTENTION RIGHT NOW?**

# THE DESIRED SHIFT



FROM HINDSIGHT ---  FORESIGHT

## Advancing Data Capabilities for Improved Decision Making



FROM REPORTING TO REASONING

# AI AS A NAVIGATION SYSTEM FOR MALARIA CAMPAIGNS



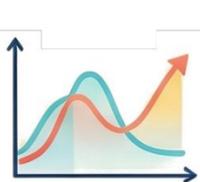
## OPERATIONAL EFFICIENCY & LOGISTICS



**Real-Time Issue Flagging**  
Automatically identify low coverage, stock imbalances, and missed households as they occur.



**Rapid Field Feedback**  
Generate instant feedback loops for supervisors and field teams to accelerate decision-making.



**Predictive Commodity Monitoring**  
Anticipate stock shortages and facilitate the reallocation of essential supplies during implementation.



## QUALITY CONTROL & TARGETED ACTION



**Automated Data Quality Checks**  
Instantly detect duplicates, inconsistencies, and outliers during the active campaign phase.



**Prioritized Recommendations**  
Direct supervision and corrective actions specifically to underperforming areas using risk alerts.



**Actionable Insights & High Coverage**

*If we think of campaigns as journeys, this AI layer becomes the navigation system by continuously recalculating priorities and guiding teams toward impact.*

# WHAT IF YOU COULD CHAT WITH YOUR DATA?



DHIS 2 Demo - Sierra Leone - AI Insights Online 20 236 JT

Settings

Data Selection AI Insights Data Dashboard

^ Collapse

**▼ Step 1: Select Organization Unit**  
Select an organization unit  
User org unit User sub-units  
User sub-x2-units  
 Include child organization units breakdown

- ▶ Bo
- ▶ Bombali
- ▶ Bonthe
- ▶ GAL-R BELIER
- ▶ GAL- R BERE
- ▶ GAL-R KABADOUGOU
- ▶ Kailahun
- ▶ Kambia
- ▶ Kenema
- ▶ Koinadugu
- ▶ Kono

**▶ Step 2: Select Data Type**  
**▶ Step 3: Select Program**  
Analysis Period  
This Month

**Step 4: Select Data Elements**  
First complete steps 1-3 to see available options

Available data elements	Selected data elements
2m Temperature, Average Daily High - Ensemble Max (RCP 8.5, CORDEX)	
2m Temperature, Average Daily High - Ensemble Mean (RCP 8.5, CORDEX)	
2m Temperature, Average Daily High - Ensemble Min (RCP 8.5, CORDEX)	
2m Temperature (ERA5)	
2m Temperature, Highest Daily - Ensemble Max (RCP 8.5, CORDEX)	
2m Temperature, Highest Daily - Ensemble Mean (RCP 8.5, CORDEX)	

Analyze Data with AI



[Download AI Insights App for DHIS2](#)

[Click here to watch the demo from the DHIS2 website.](#)

# CAN WE PUSH IT FURTHER?



[Go to Disasters.aidstack](https://Disasters.aidstack)

**FACILITY DATA + CLIMATE DATA + CONFLICT DATA | MAPPED**

# WHAT THIS MEANS IN PRACTICE?



AI identifies  
**WHERE** to look.



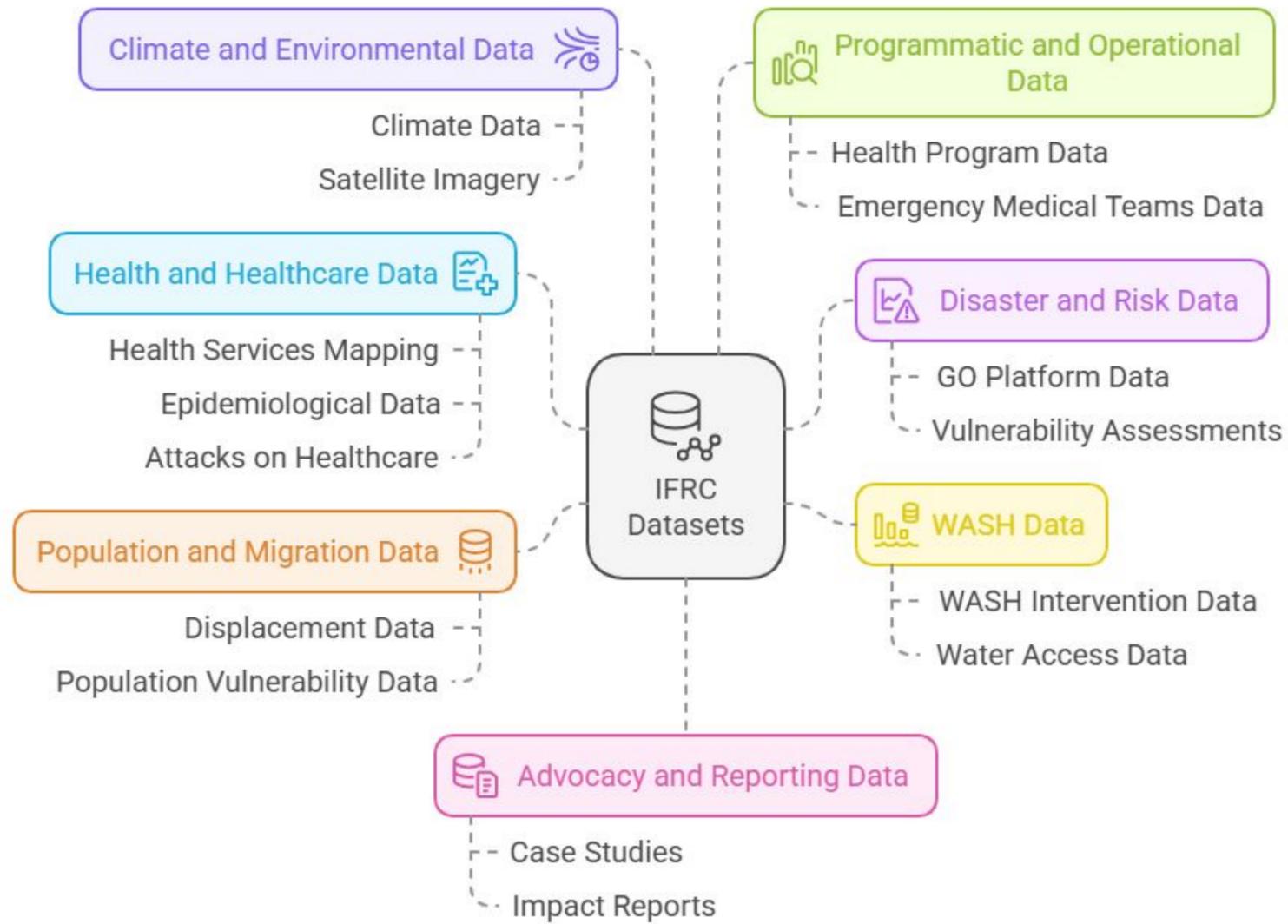
Humans decide  
**WHAT** to do.

**YOU ALREADY KNOW THE KEY DRIVERS.**

**THE VALUE IS KNOWING EXACTLY **WHERE AND WHEN** TO APPLY THEM.**



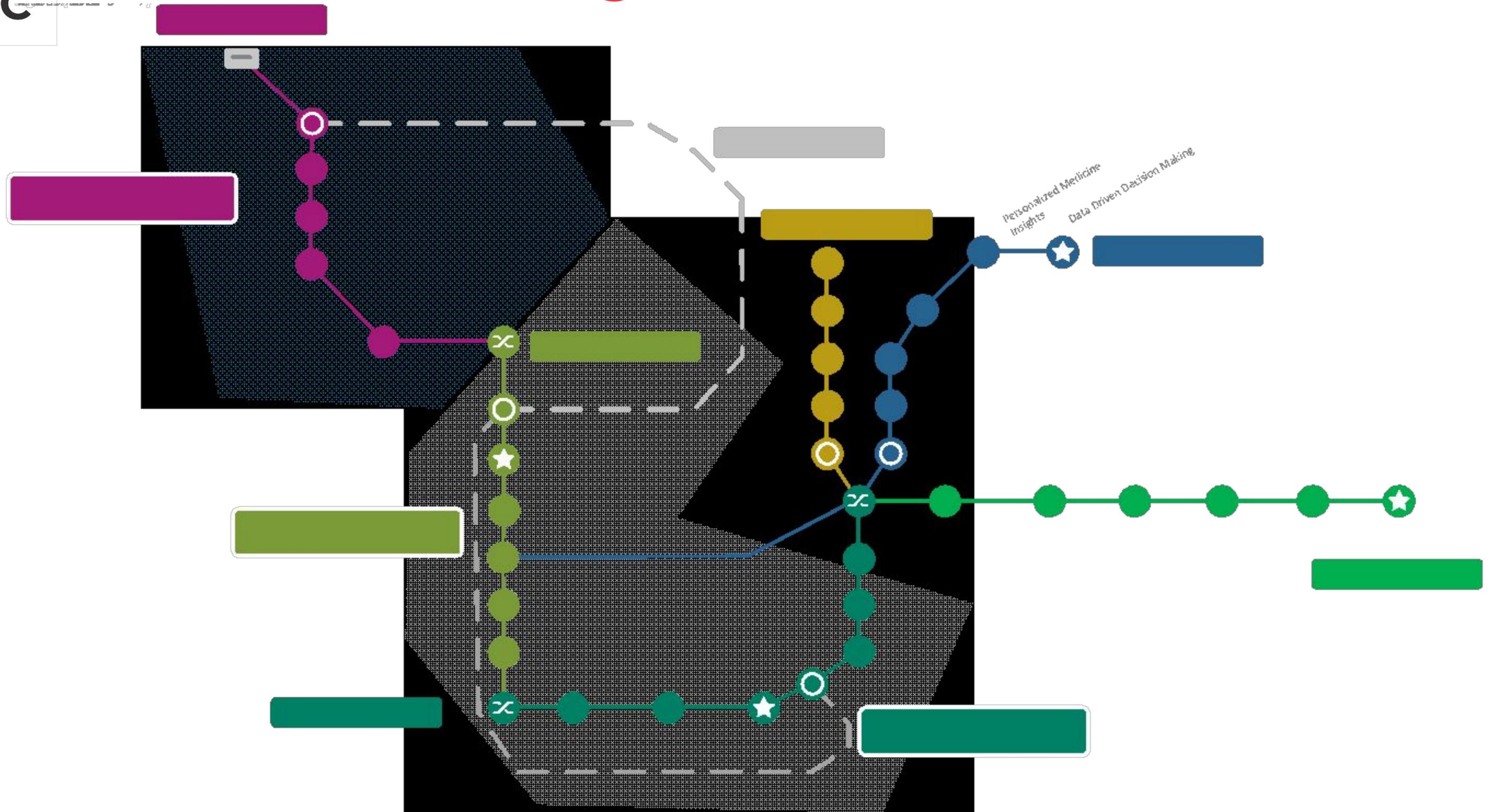
# IFRC Datasets



Created by [John Mark Esplana](#) | GDACS Facilities Impact Assessment Tool



# Path forward – Digital Health



# A FEW LAST POINTS



AI **IS NOT** THE STRATEGY

**MALARIA ELIMINATION** IS THE STRATEGY

**BUT** AI HELPS US GET THERE FASTER



THANK YOU