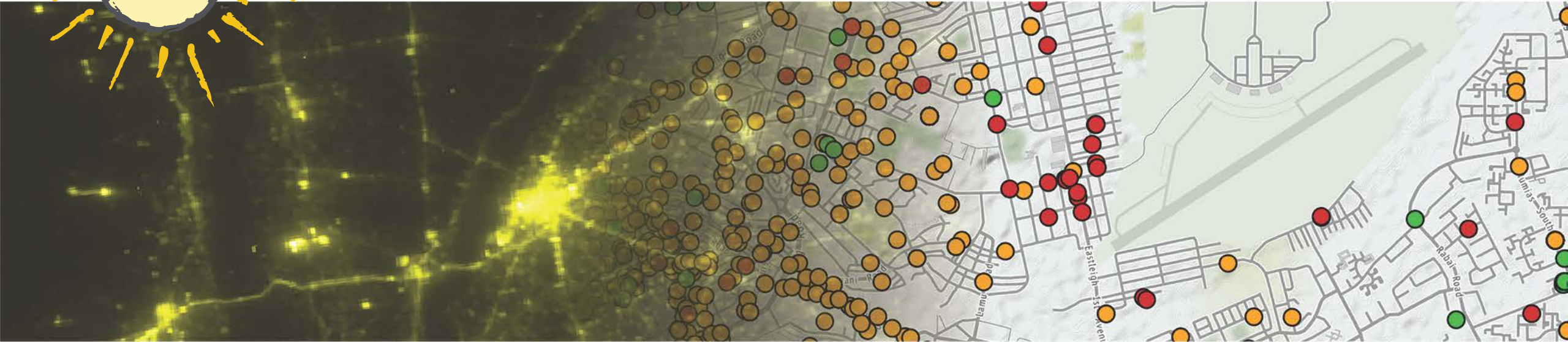




# IE CONNECT FOR IMPACT

Transforming the Growth Potential  
of Transport Investments

## Trauma Registries to Support Cross-Sectoral Policies for Road Traffic Crashes in Malawi



Sveta Milusheva





# Challenge: Evaluate Impact of Post-Crash Care Pilot

**Project Goal: Save lives through post-crash care**

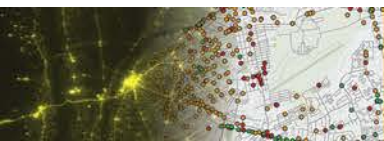
**WILL IT WORK?**

**HOW CAN IT WORK BETTER?**



# Existing Data System Prior to IE

- Health Management Information System
  - Monthly aggregate data
  - No information on the cases including severity
  - Missing data





# Solution: Trauma Registries

- Demographic info
- Mode of transport to hospital
- Geographic location of trauma
- Time of trauma, hospital arrival & attended
- Setting, intent, cause
- Vital signs, AVPU, GCS, (KTS)
- Details on up to 3 injuries
- Outcome of day 1
- Outcome and indicators of day 2



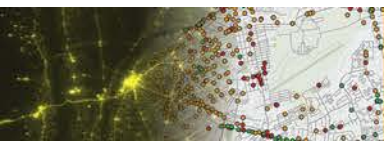
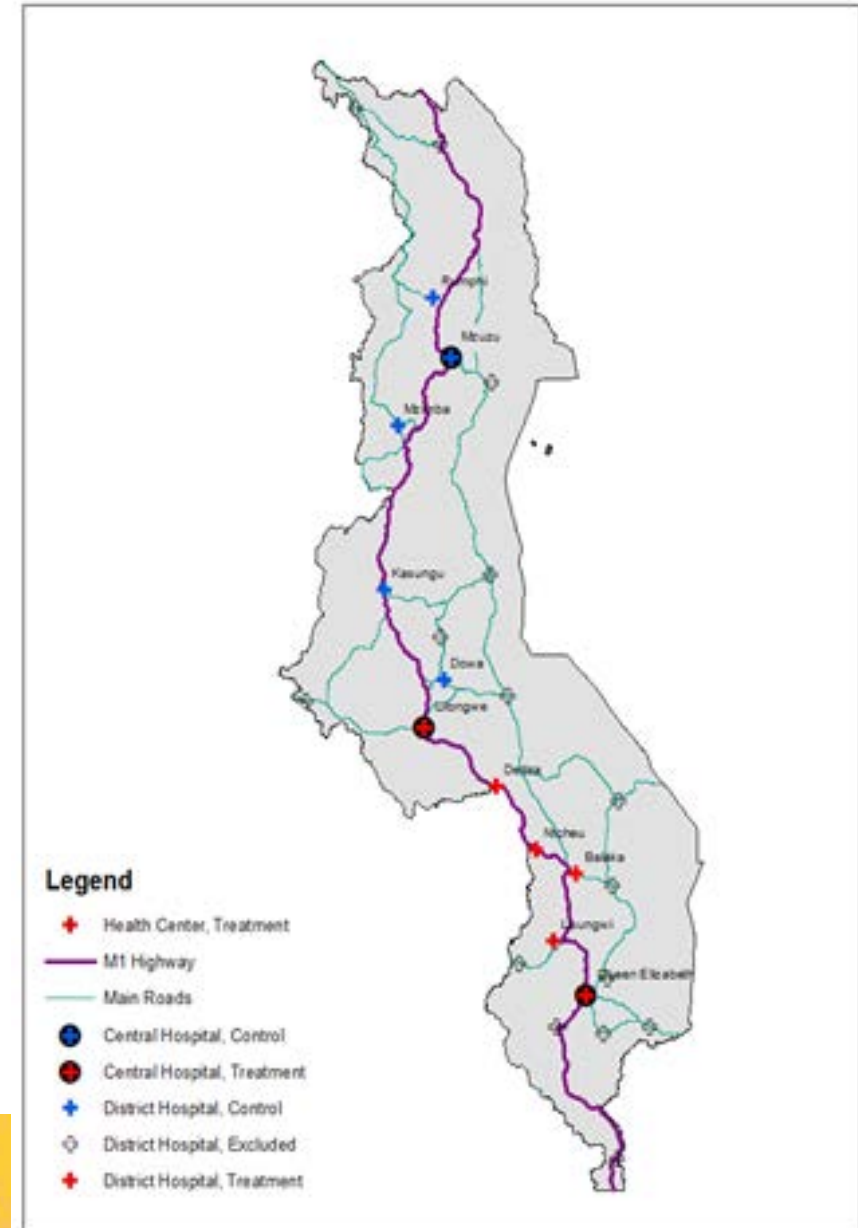
# Key Element 1: Digital

- Digital data collection



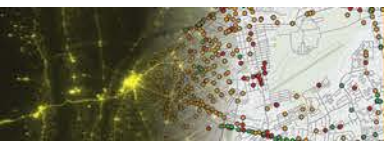
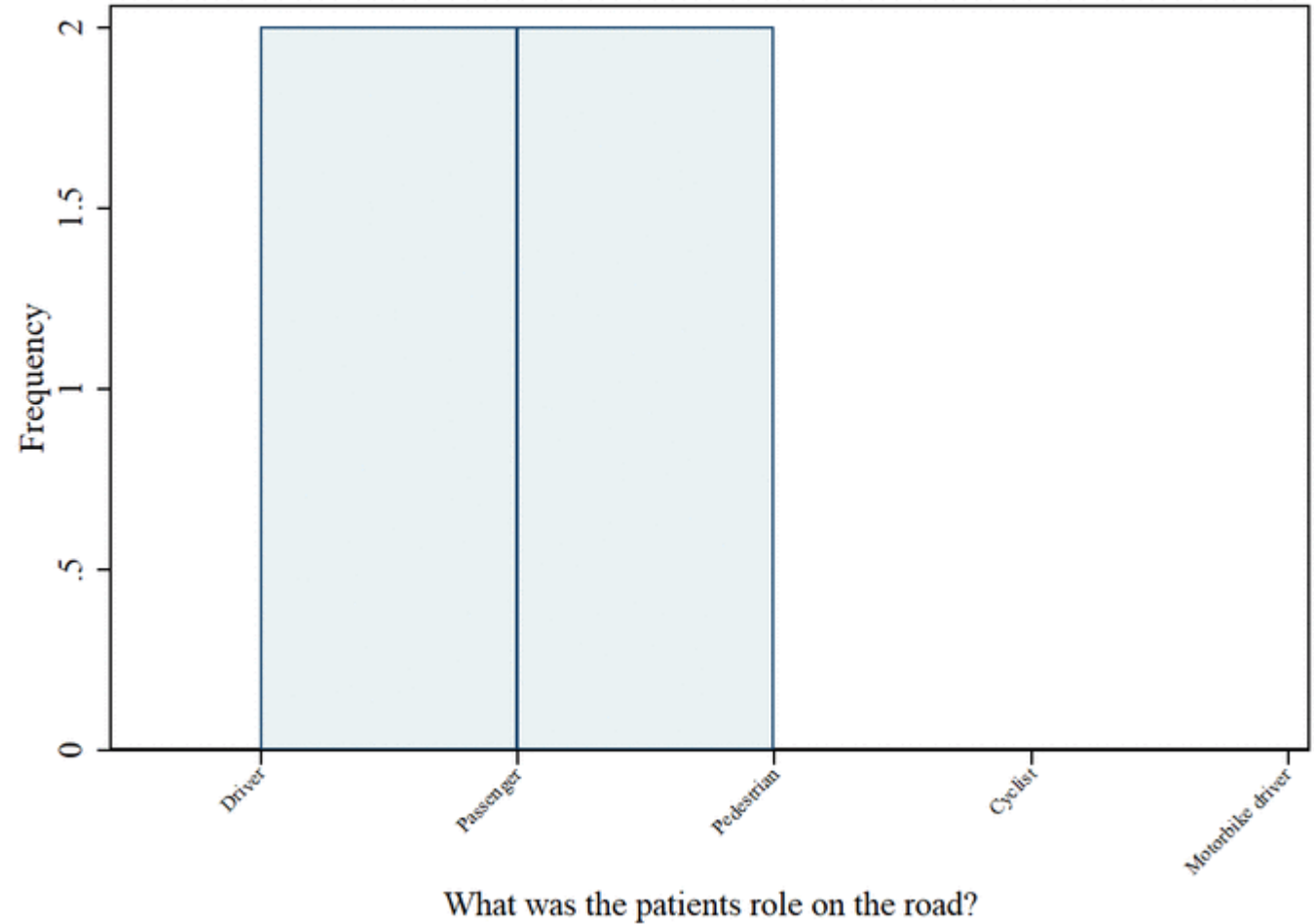
# Key Element 2: Wide Coverage

- Digital data collection
- 10 health facilities



# Key Element 3: Real-Time

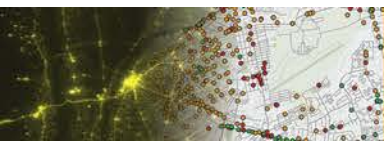
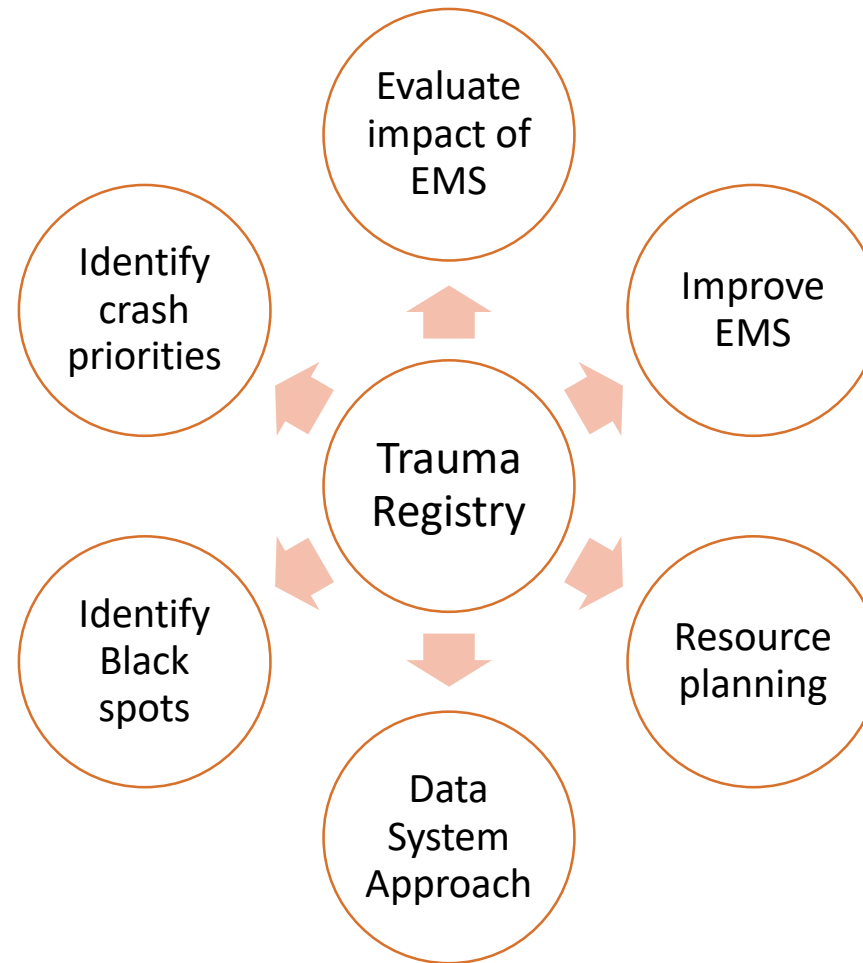
- Digital data collection
- 10 health facilities
- High frequency data in real time





# Building Digital Collaborations Across Sectors

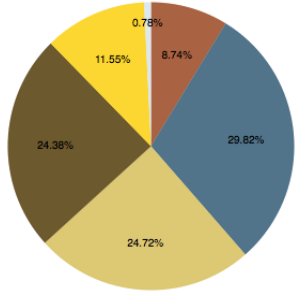
57,864 Trauma Entries since August 2018



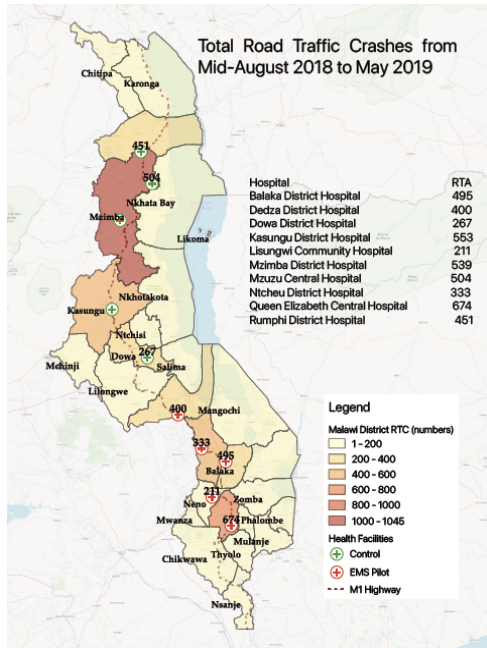


# Building Digital Collaborations Across Sectors

Types of Road Traffic Crash Victims



TRANSPORT SECTOR



Identify crash priorities

Identify Black spots

Evaluate impact of EMS

Improve EMS

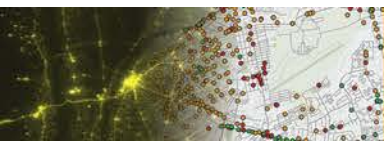
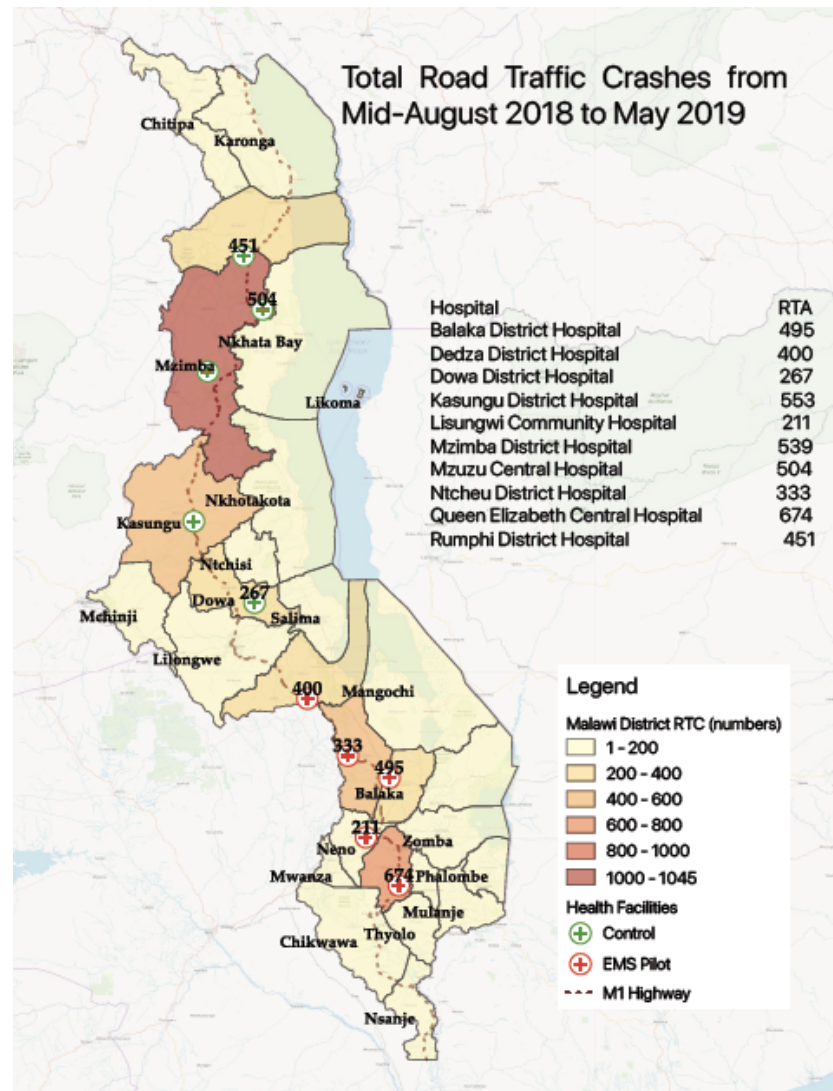
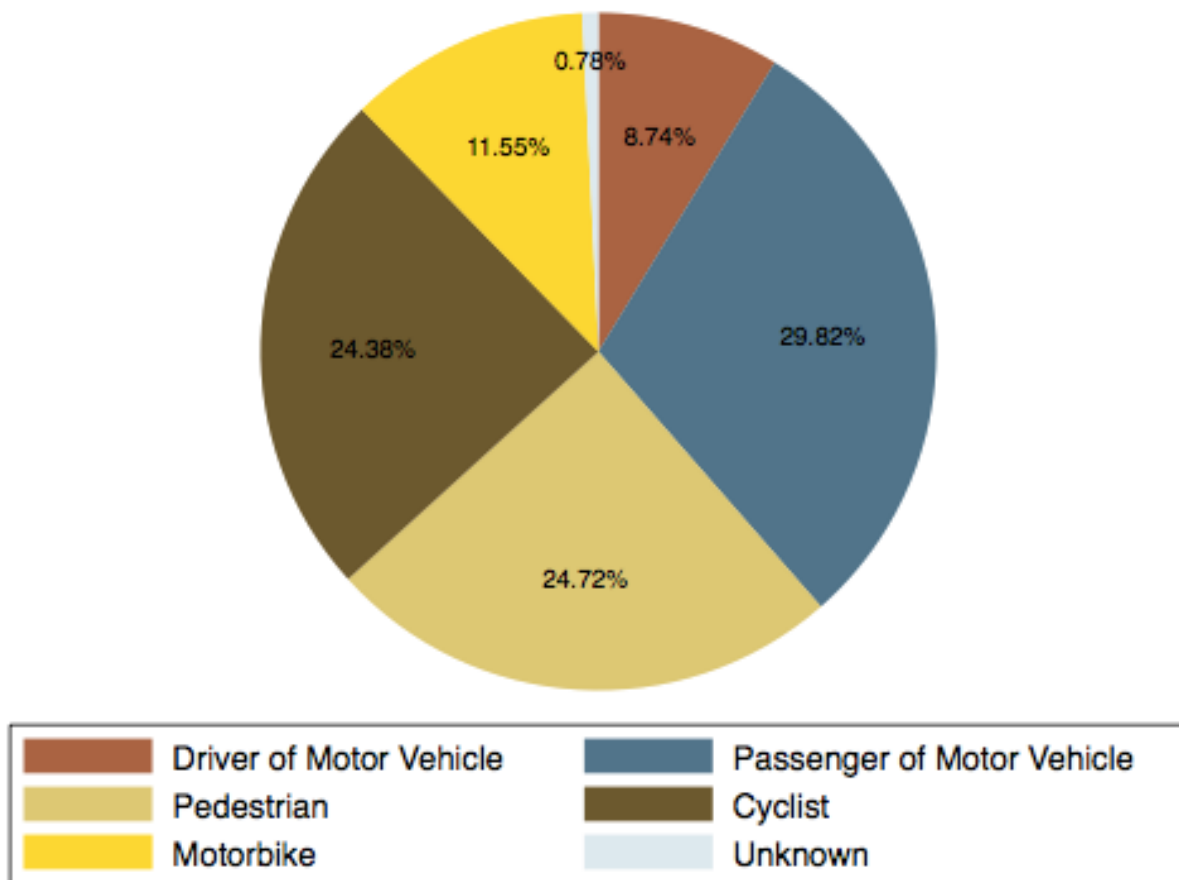
Trauma Registry

Resource planning

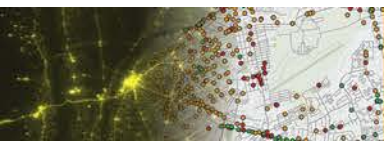
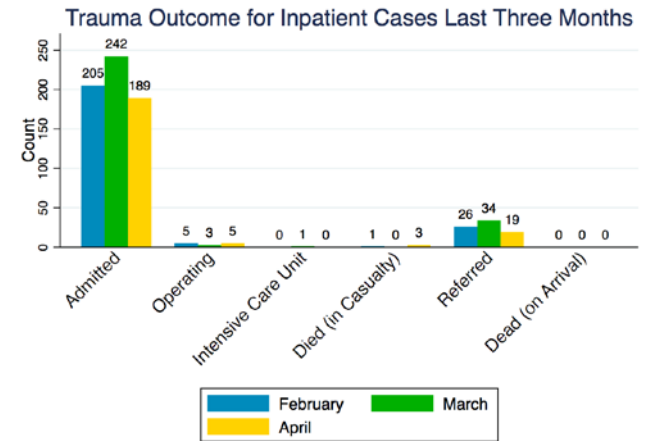
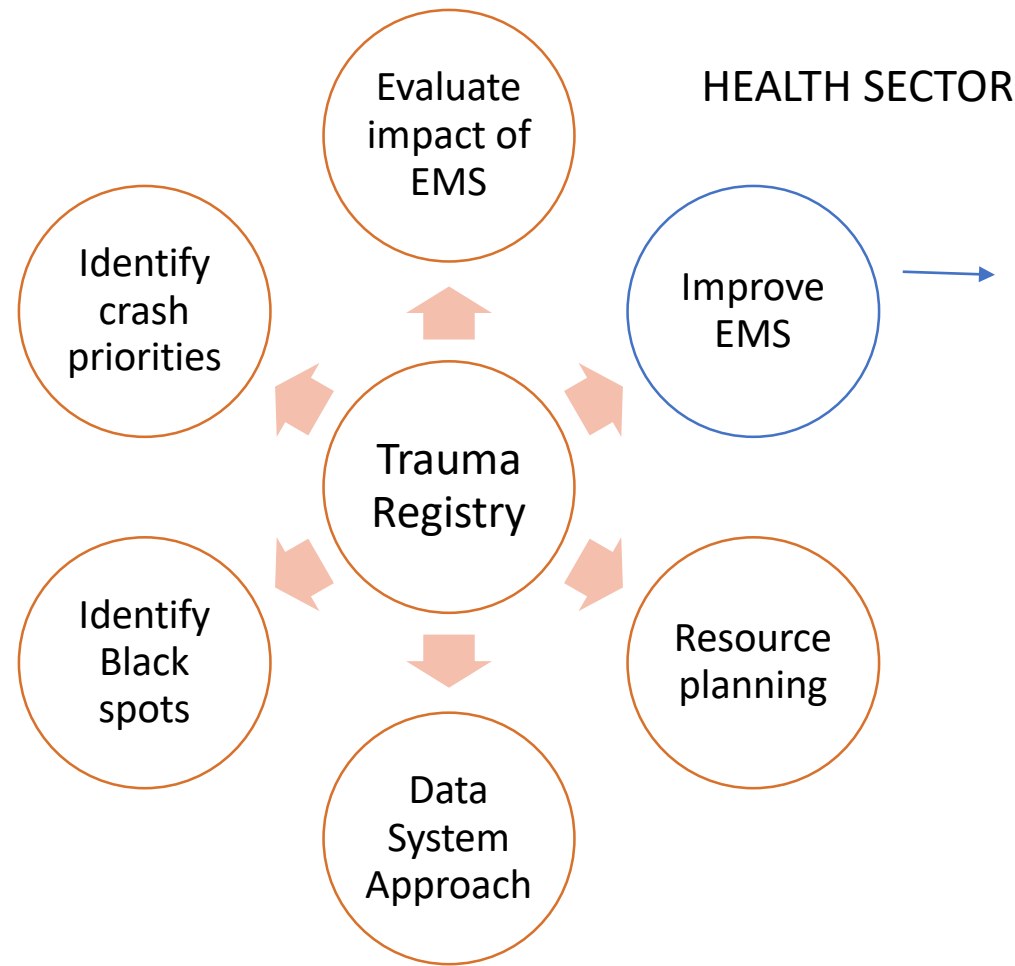
Data System Approach

# Identifying Priorities for Preventative Policies

Types of Road Traffic Crash Victims

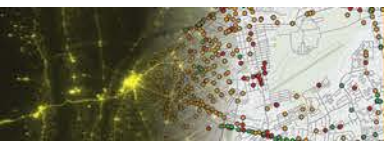
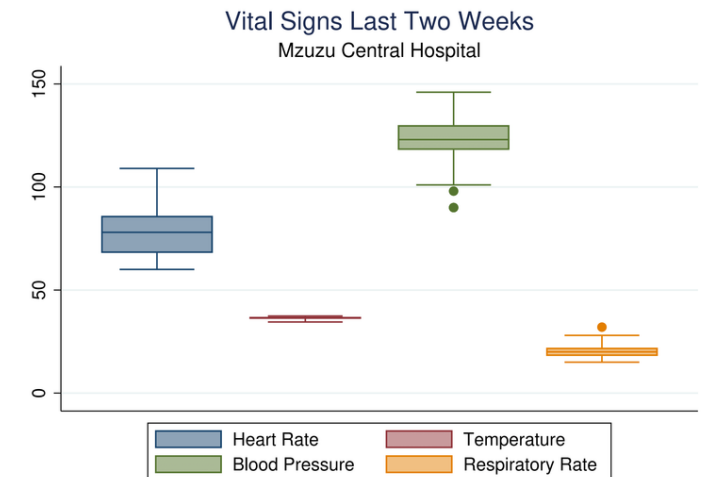
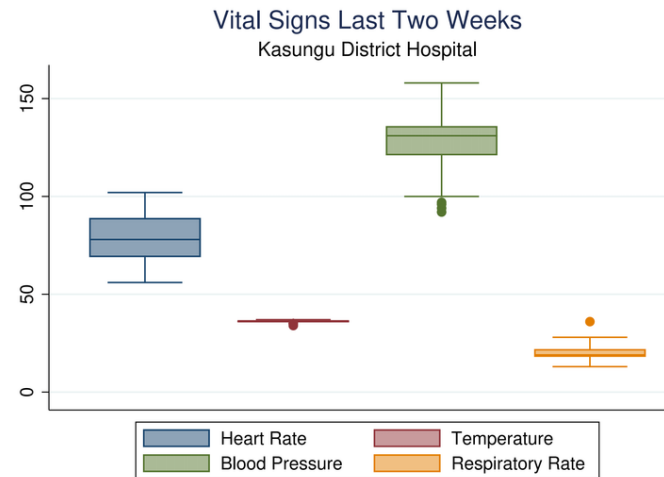
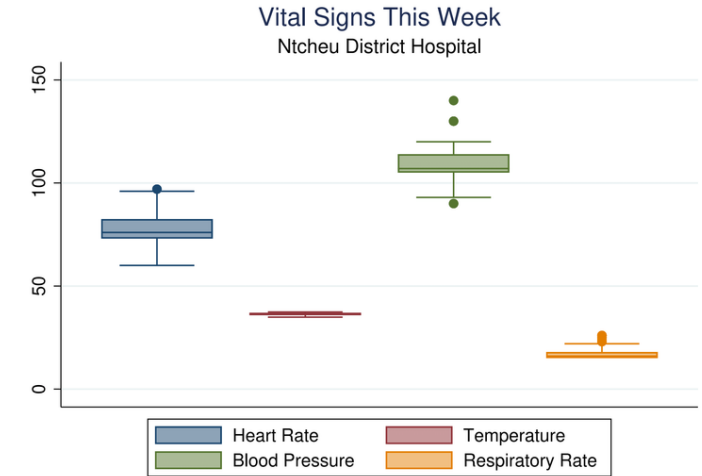
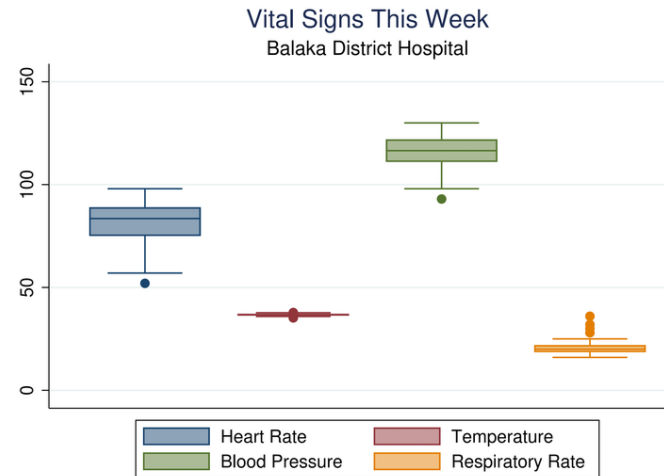
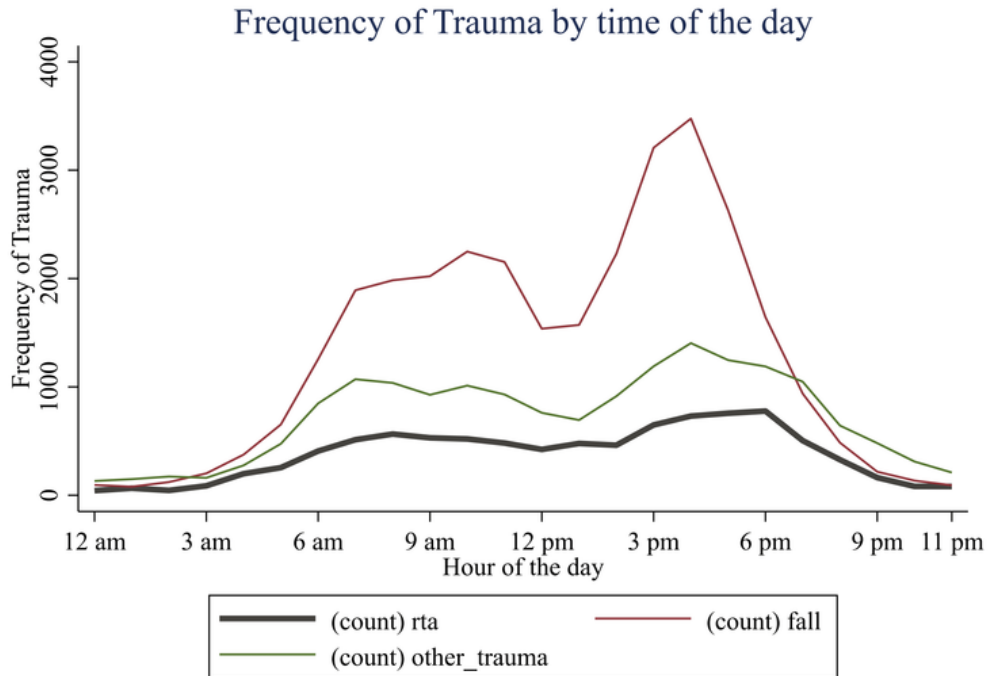


# Building Digital Collaborations Across Sectors

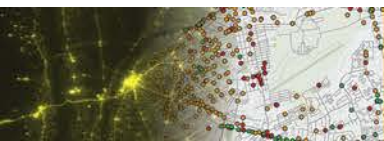
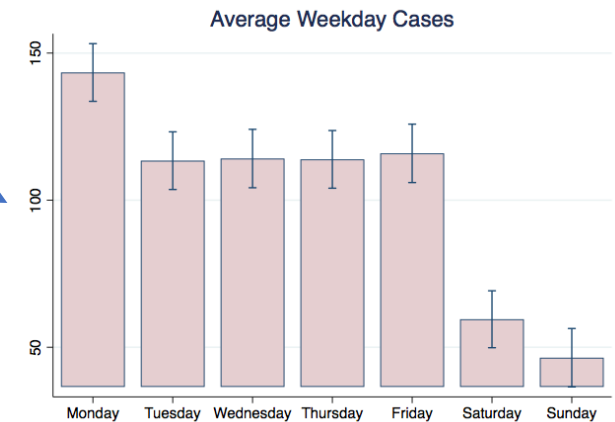
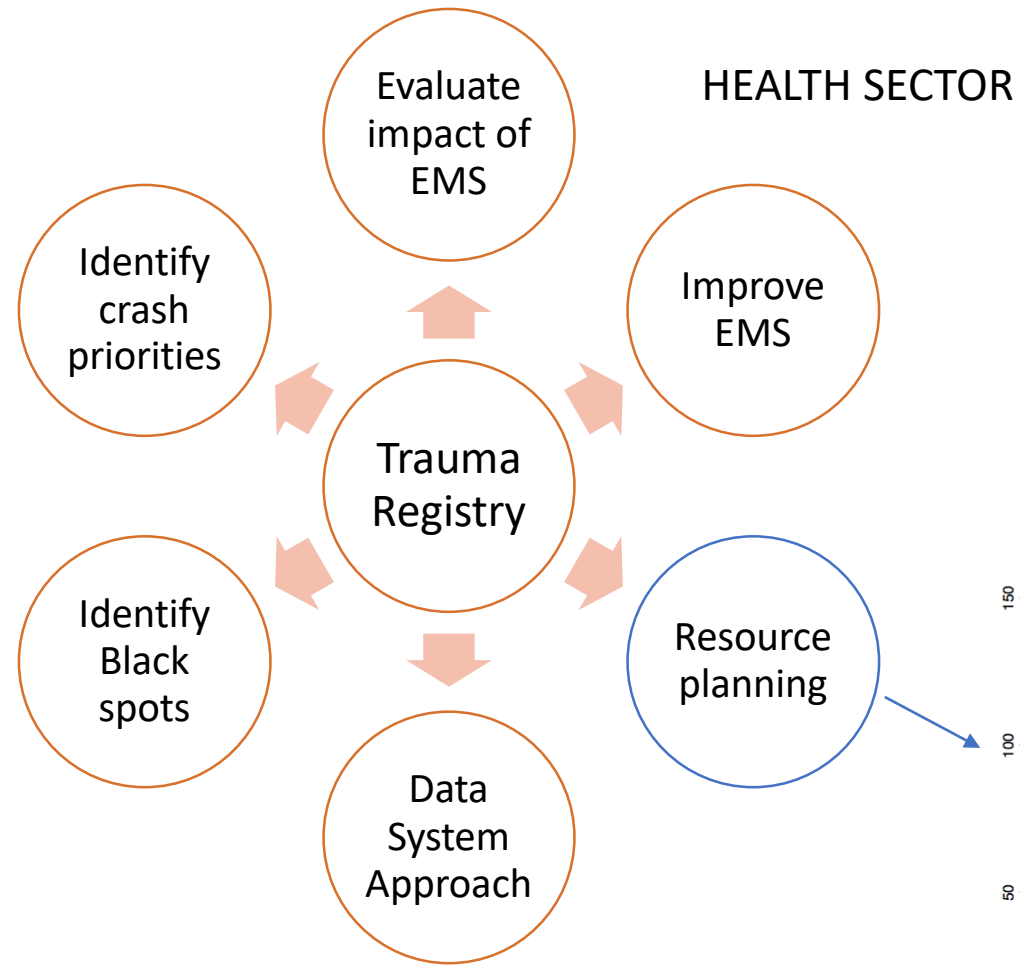




# Data for Improved EMS Care



# Building Digital Collaborations Across Sectors



# Monitoring data & data for decision making

## Hospital Wide Trauma Summary

### Links to Each Hospital

- +Balaka District Hospital
- +Dowa District Hospital
- +Dedza District Hospital
- +Kasungu District Hospital
- +Lisungwi Community Hospital
- +Mzimba District Hospital
- +Mzuzu Central Hospital
- +Queen Elizabeth Central Hospital
- +Rumphi District Hospital

### Summary of Incoming Trauma Cases

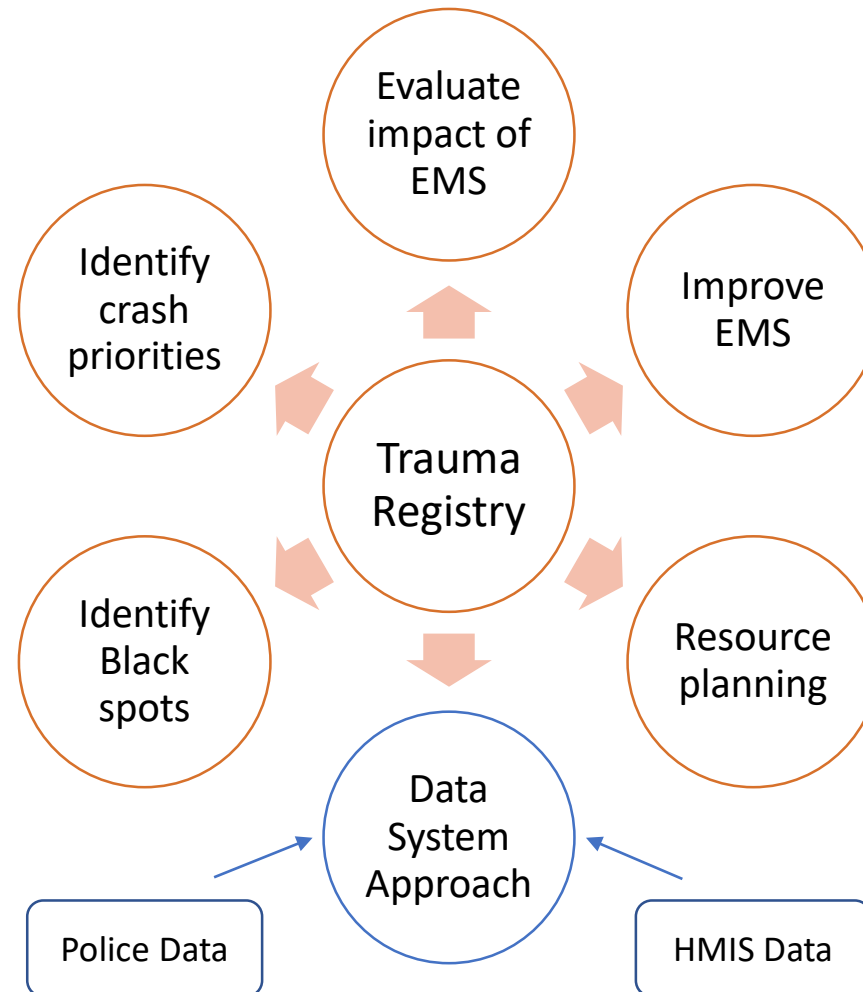
1. Total Number of Trauma Cases:

Updated 19 hours ago





# Building Digital Collaborations Across Sectors

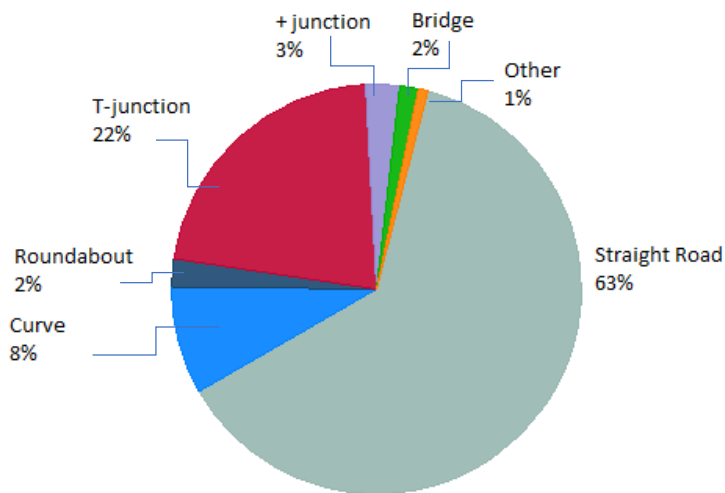


*Accident locations in 2018, according to our existing database.*

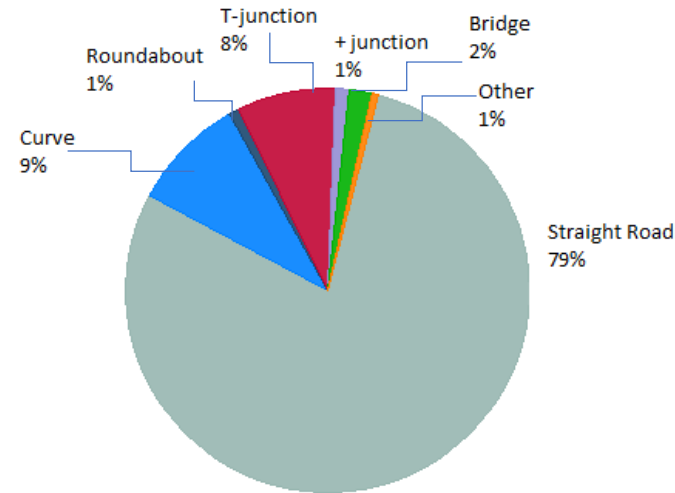
# Data System Approach

## Data from Police via Directorate of Road Traffic and Safety Services

Motor Vehicle/Cyclist Crash

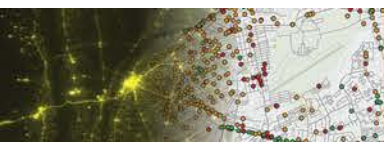


Motor Vehicle/Pedestrian Crash



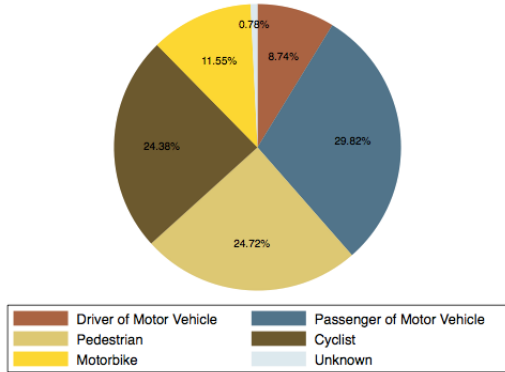
## Validation and Future Sustainability through Existing Health Management Information System (HMIS)

Hospital	HMIS Total number of trauma	Trauma Registry # of entries	%
QECH	155	119	77%
Balaka	114	118	104%
Ntcheu	94	56	60%
Dedza	106	44	42%
Lisungwi	24	16	67%
Kasungu	59	71	120%
Mzuzu	148	55	37%
Mzimba	154	121	79%
Rumphi	36	58	161%



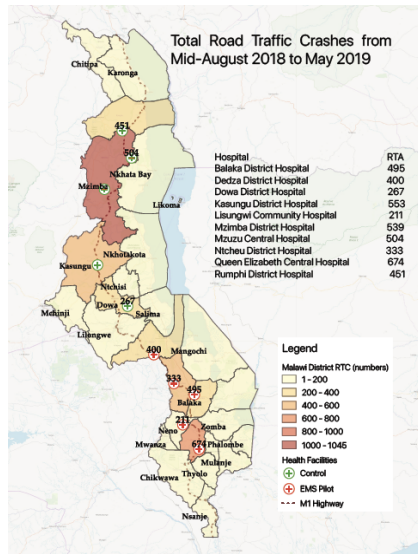
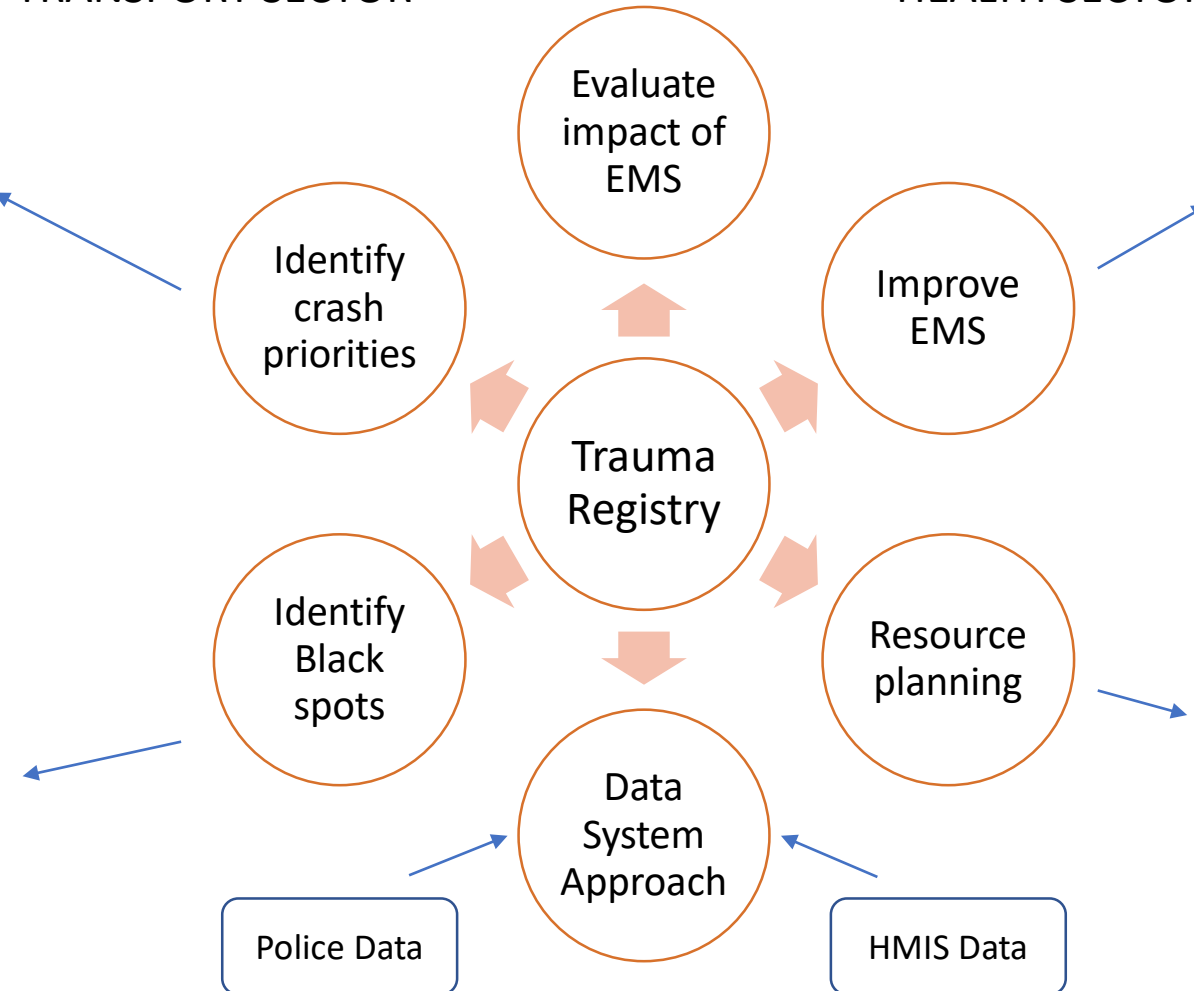
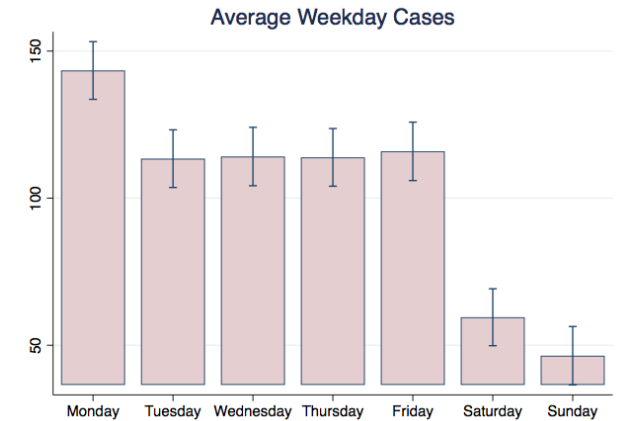
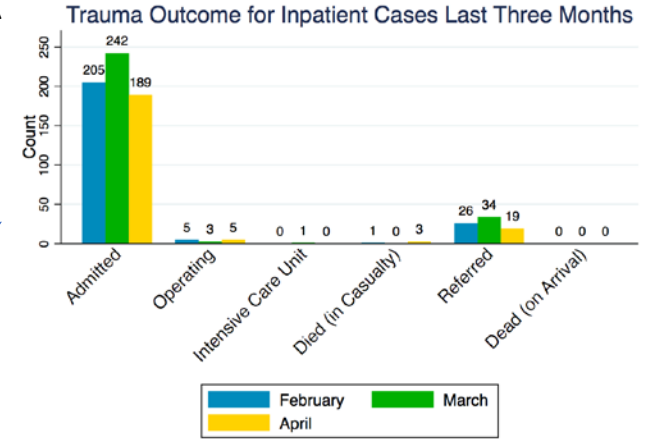
# Building Digital Collaborations Across Sectors

Types of Road Traffic Crash Victims



## TRANSPORT SECTOR

## HEALTH SECTOR



Accident locations in 2018, according to our existing database.





Thank you!

