Achieving the SDGs in a time of COVID-19: Bangladesh Perspective

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Big Data: What we have in place

1. Data from Digital Devices

2. e-Commerce site and NID

3. Historical Data for Insights

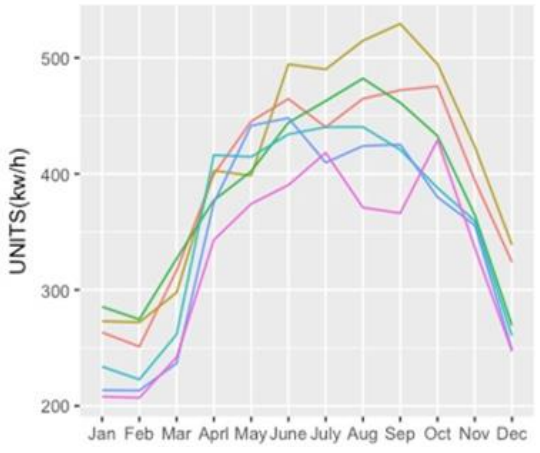
4. Telco Data

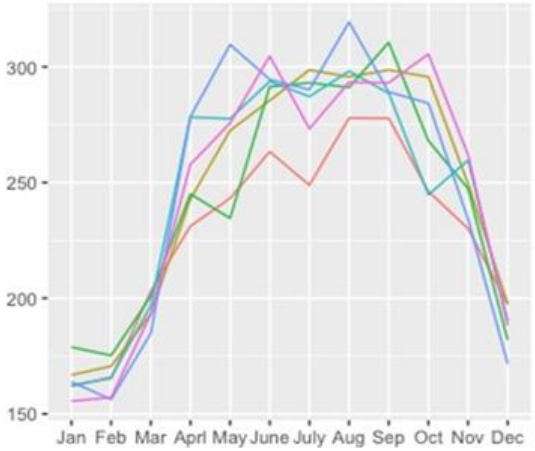
5. Social Media Data

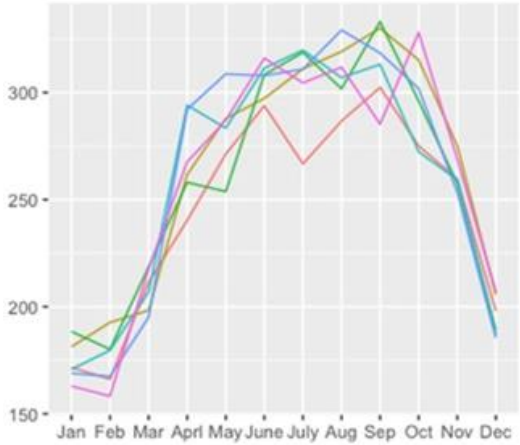
6. Advanced Data analytics

Initial Findings: *Electricity data analysis*

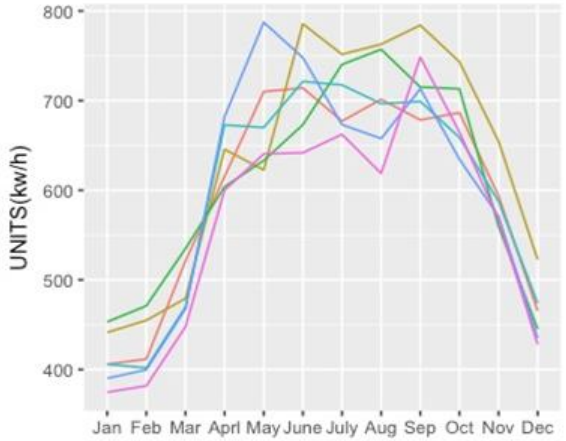
Average consumption of residential connections

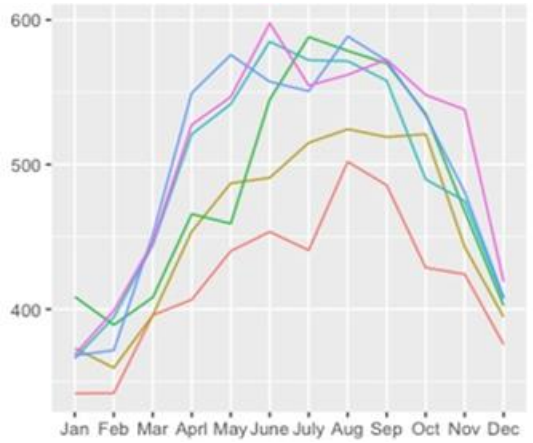


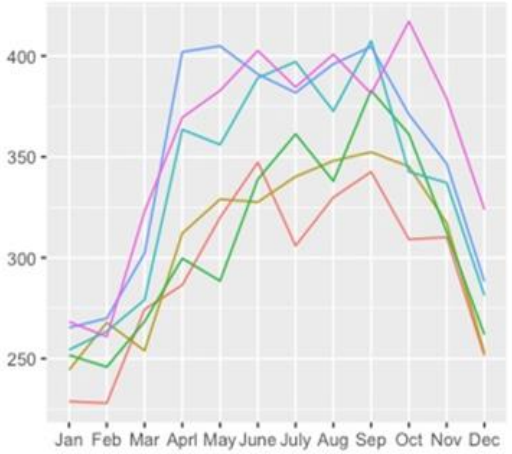




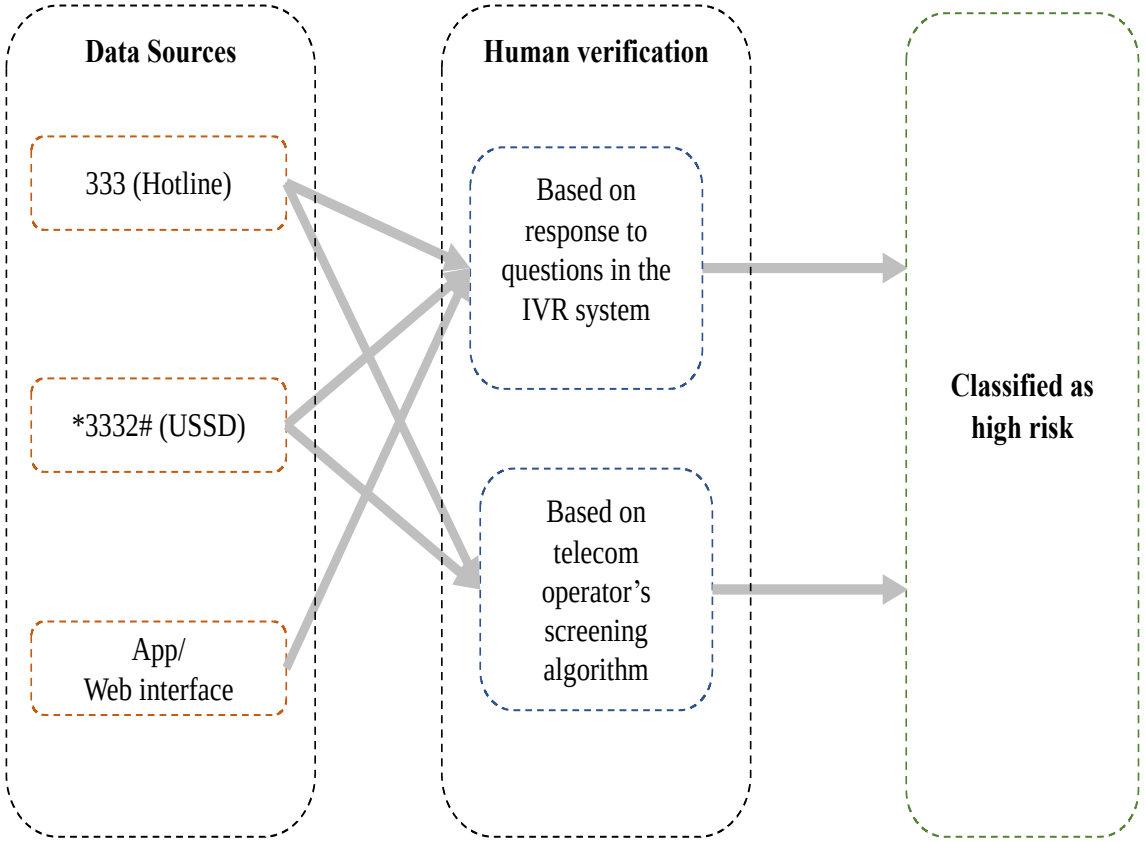
Average consumption of commercial offices

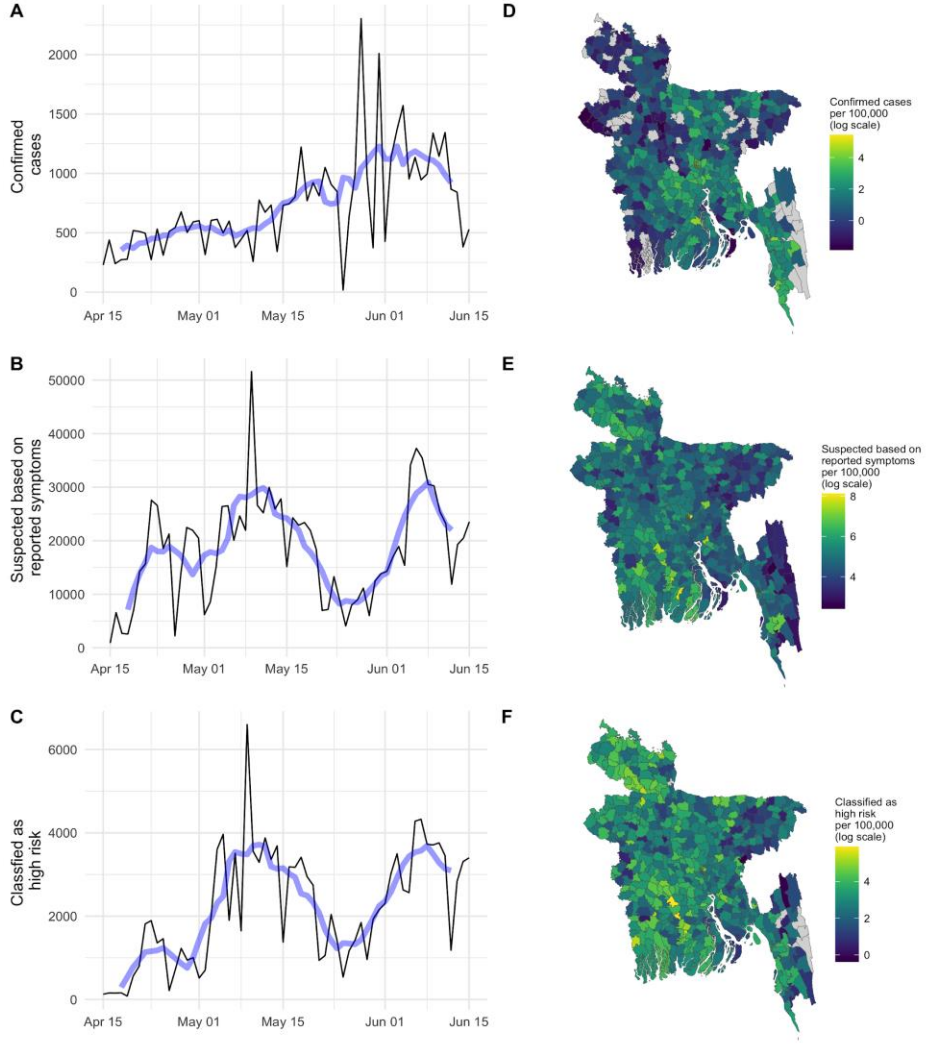






Self-reported Syndromic data streams and human verification process

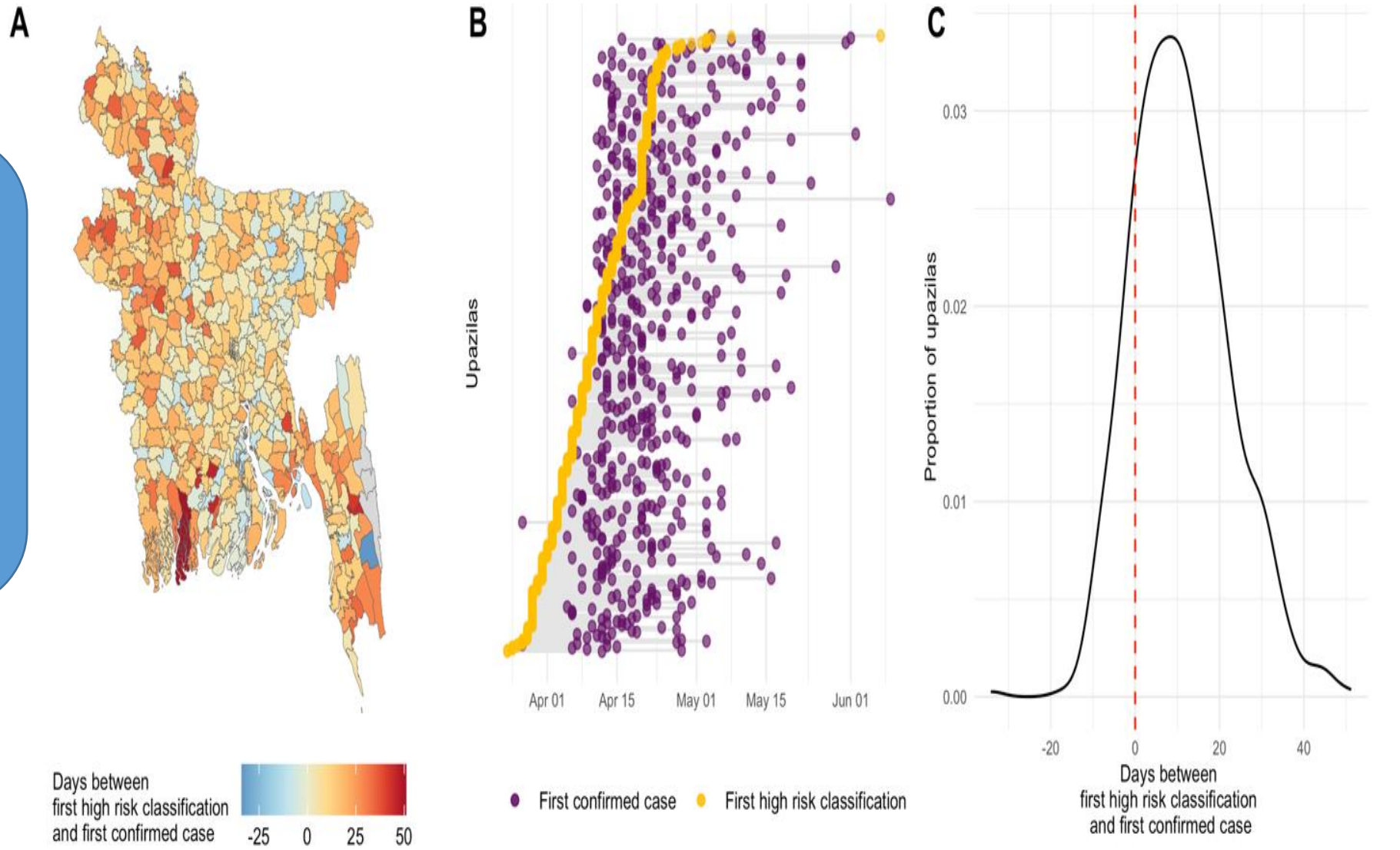




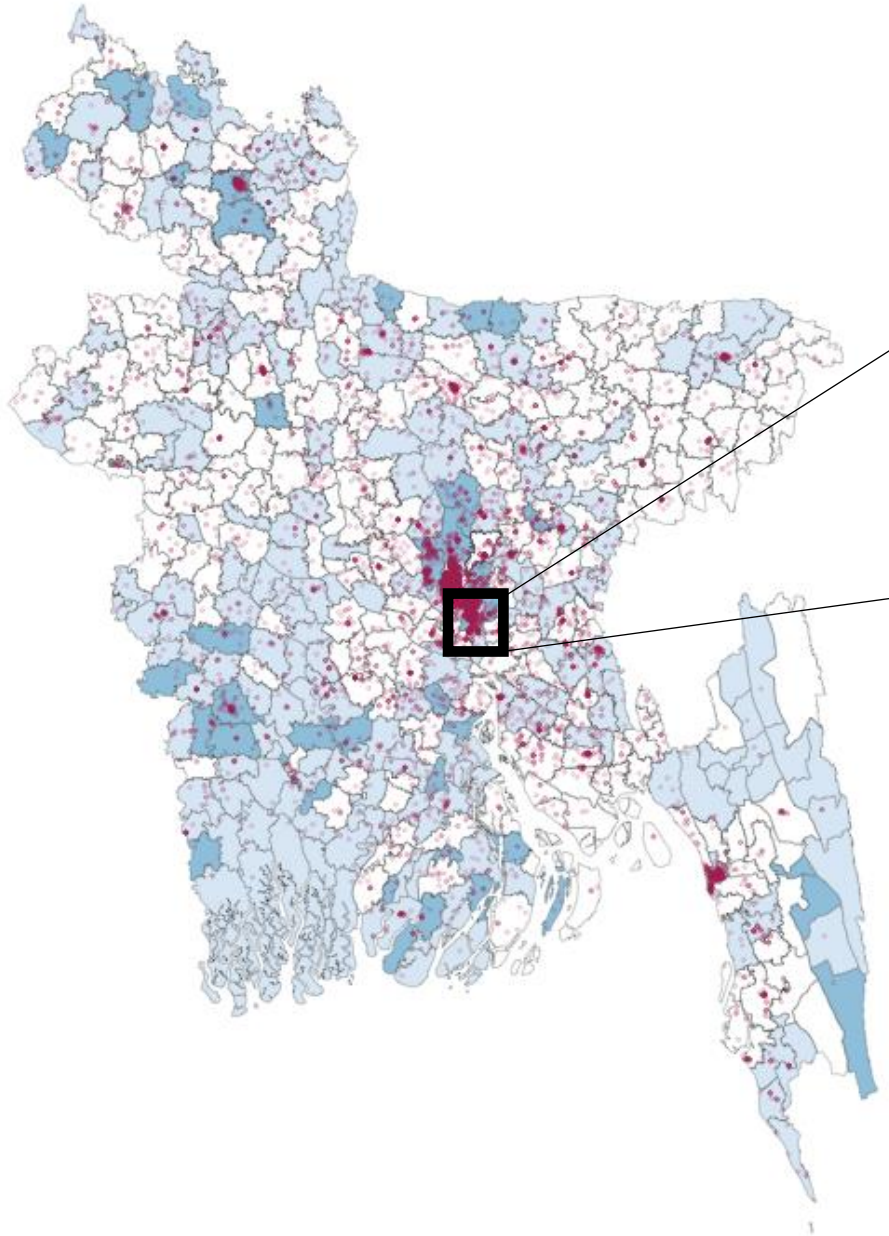
(A) daily number of confirmed cases,
(B) total number classified as a suspected COVID-19 case and (C) the total number classified as being high risk of COVID-19

Early spread of COVID-19 in Bangladesh

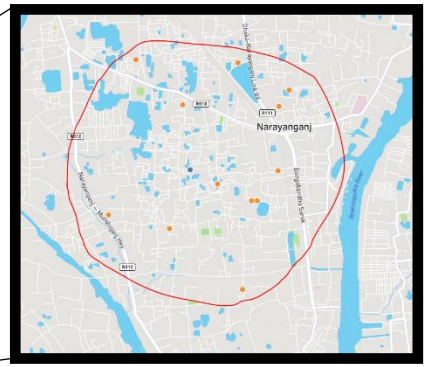
Aligned with
National Preparedness and Response Plan (NPRP)
to prevent, quickly detect, characterize the response and efficiently control the COVID-19 threats

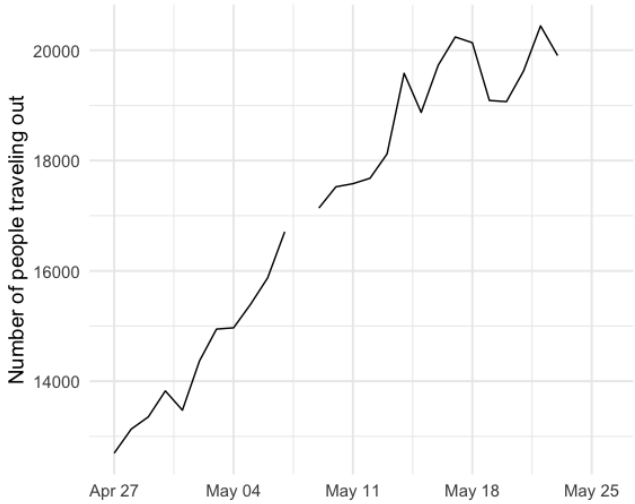


Tracking the spread of the outbreak in near real-time using mobility data



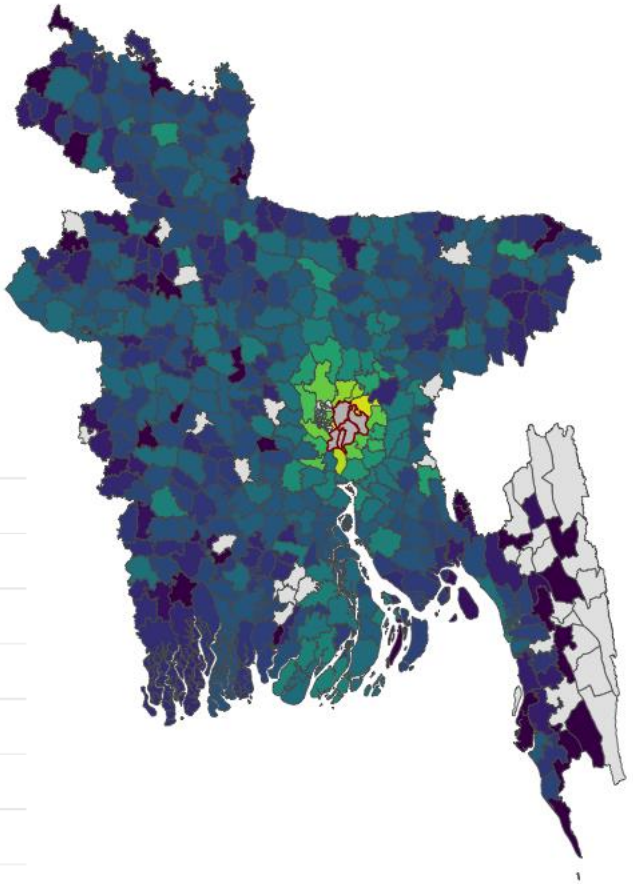
Narayanganj Sadar
Hotspot identified
First confirmed case



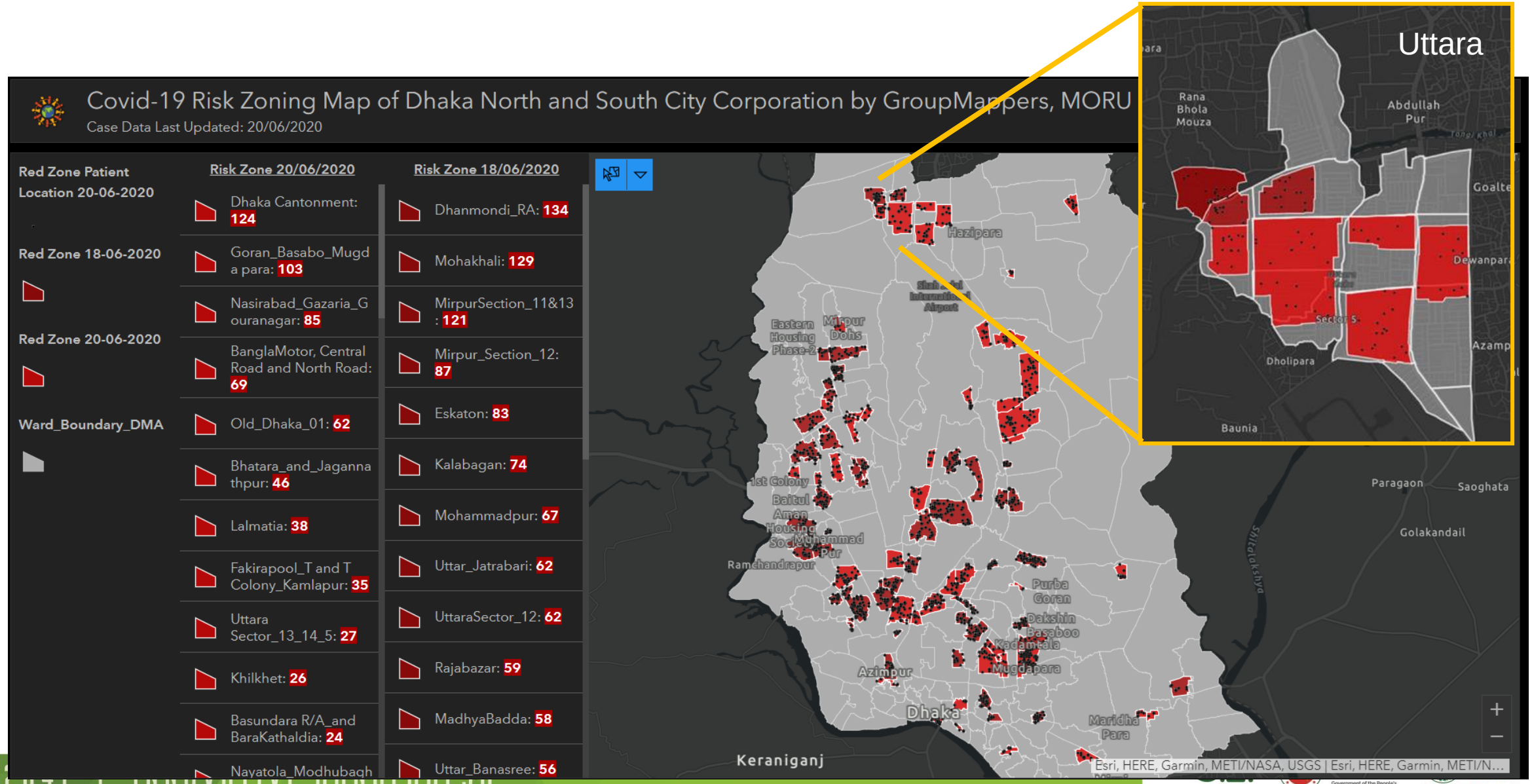


Large volume of people moving out of this hotspot

Number of people traveling from Narayanganj district to other locations (on a single day)



nCOVID response: Red Zoning Based on COVID-19 Patient Location Cluster in Dhaka North and South City Corporation (50 Red Zones)



nCOVID response: Road selection for lockdown based on patient location (to be used by CC)

SDG Tracker

Data Visualization & Reporting

Indicator Linkage

Progress Tracked

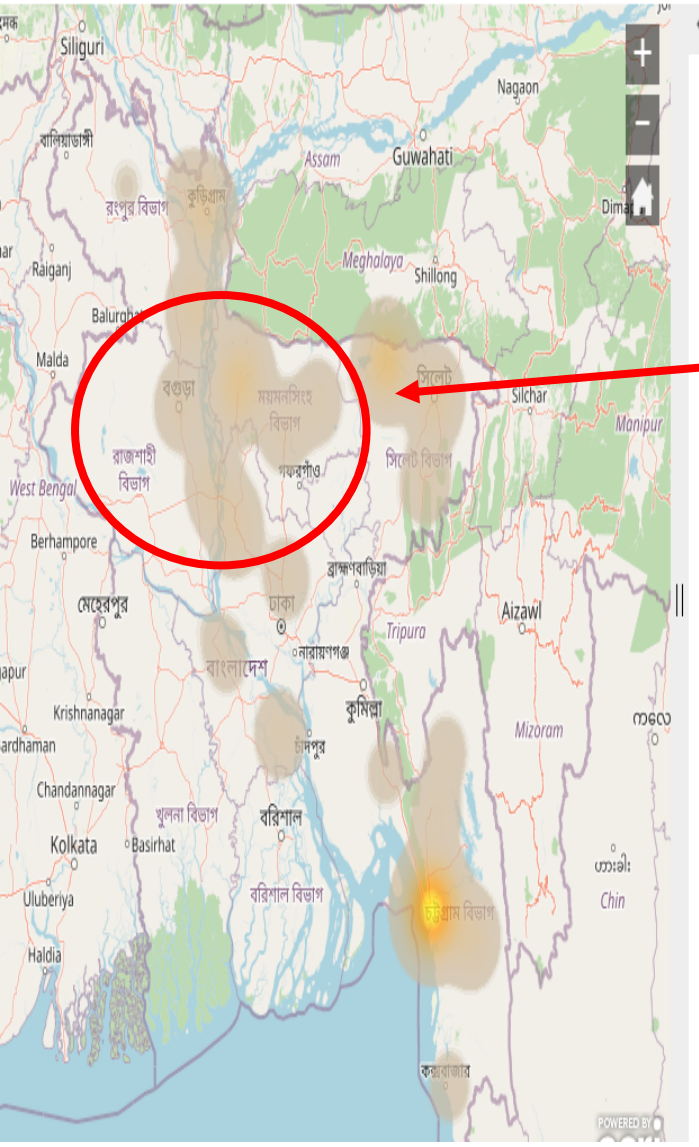
Target and indicator focused

Global Ranking

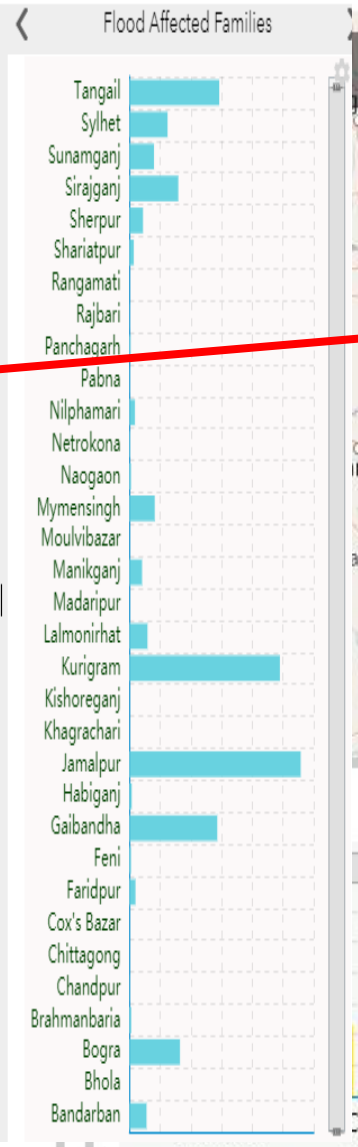
Disaggregation

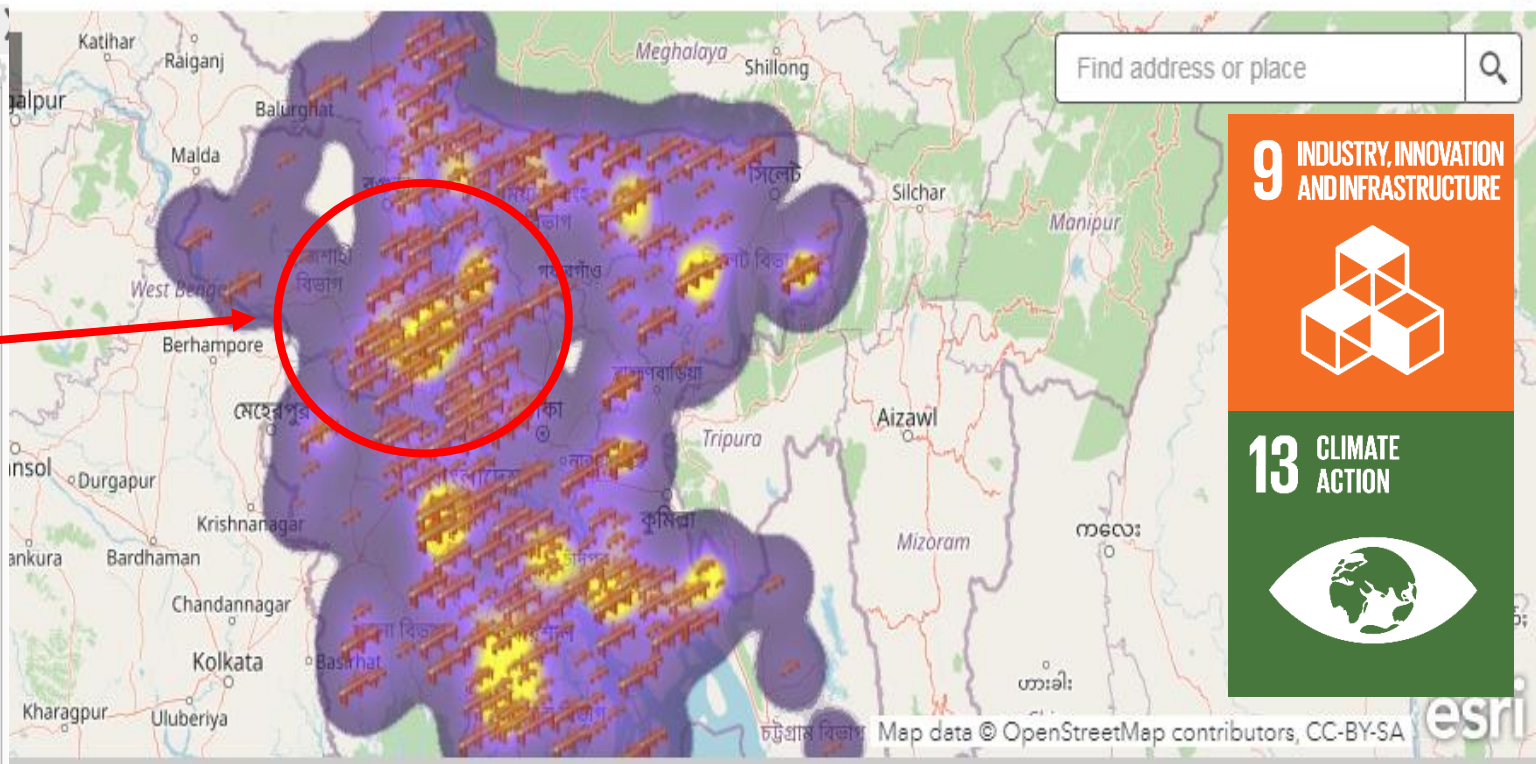
a2i innovate for all
Cabinet Division Government of the People's Republic of Bangladesh
ICT DIVISION FUTURE IS HERE
UNDP Empowered lives. Resilient nations.

Infrastructural development in Disaster prom areas: Flood Incident and Bridge construction

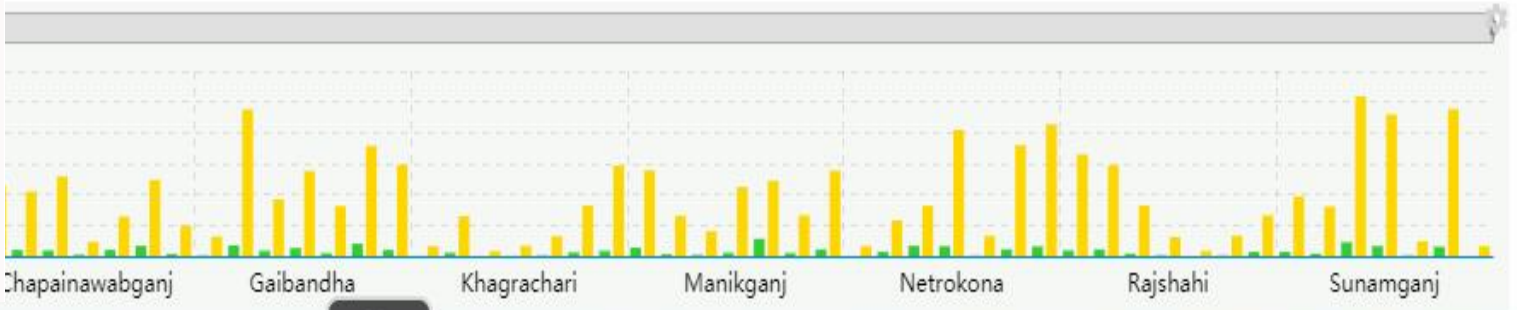


Flood affected areas in 2019





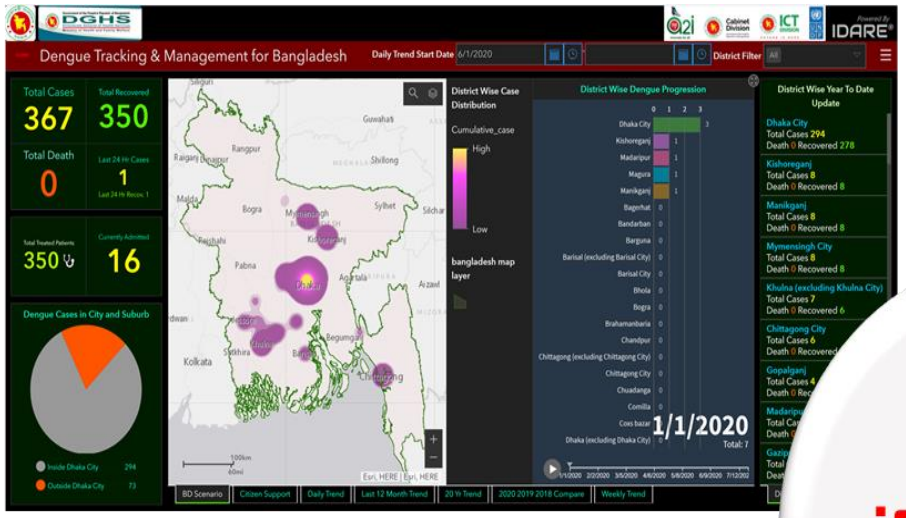
Ongoing bridge and culvert construction in 2019



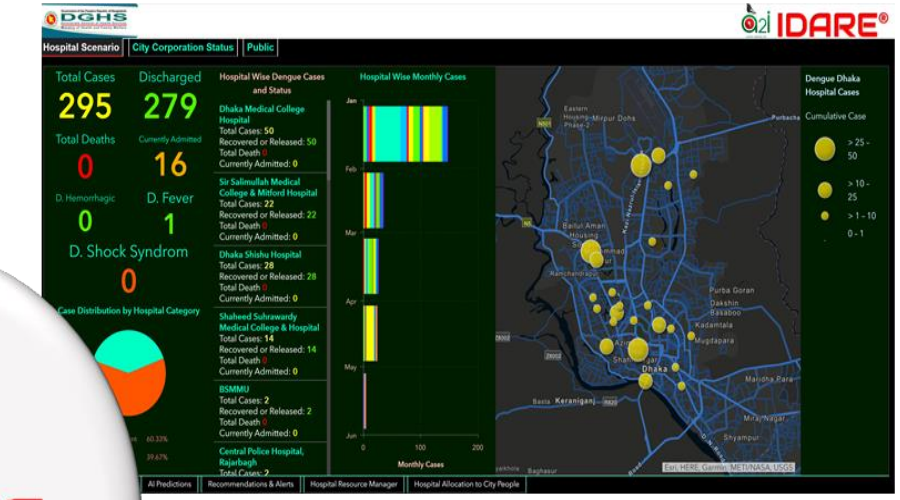
Intelligent Dengue Tracking & Management System (iDTAMS)

- 50+ Decision Support Info
- Dengue Prediction using Artificial Intelligence
- Early Warning System for better Preparedness
- Intelligent Hospital Resource Manager for Reducing Cost and More Service
- Automated hospital Selection System for reducing Patient Harassment
- Inter-Operable Information layer between City Corp and DGHS

Citizen/Public Interface

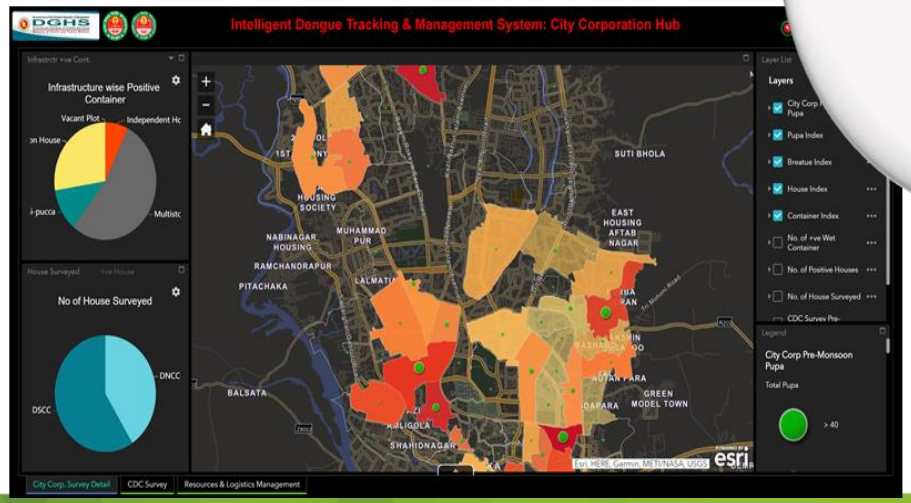


DGHS Hospital System Interface

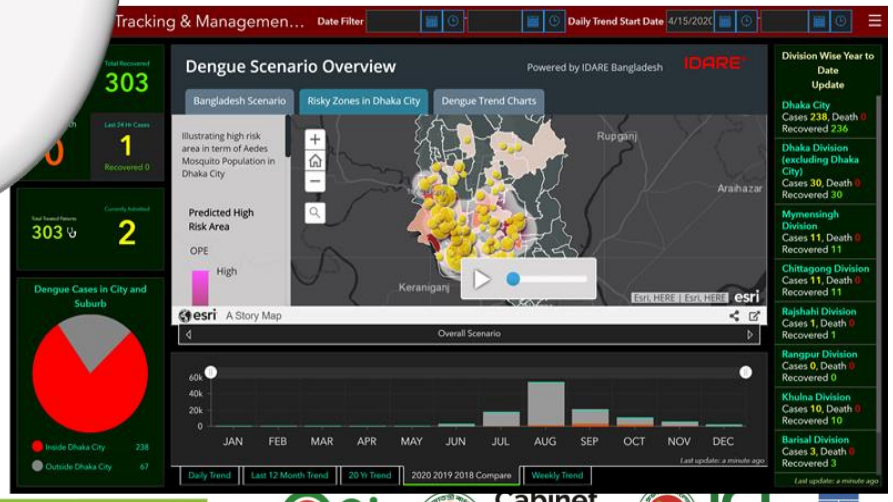


iDTAMS

City Corporation Interface



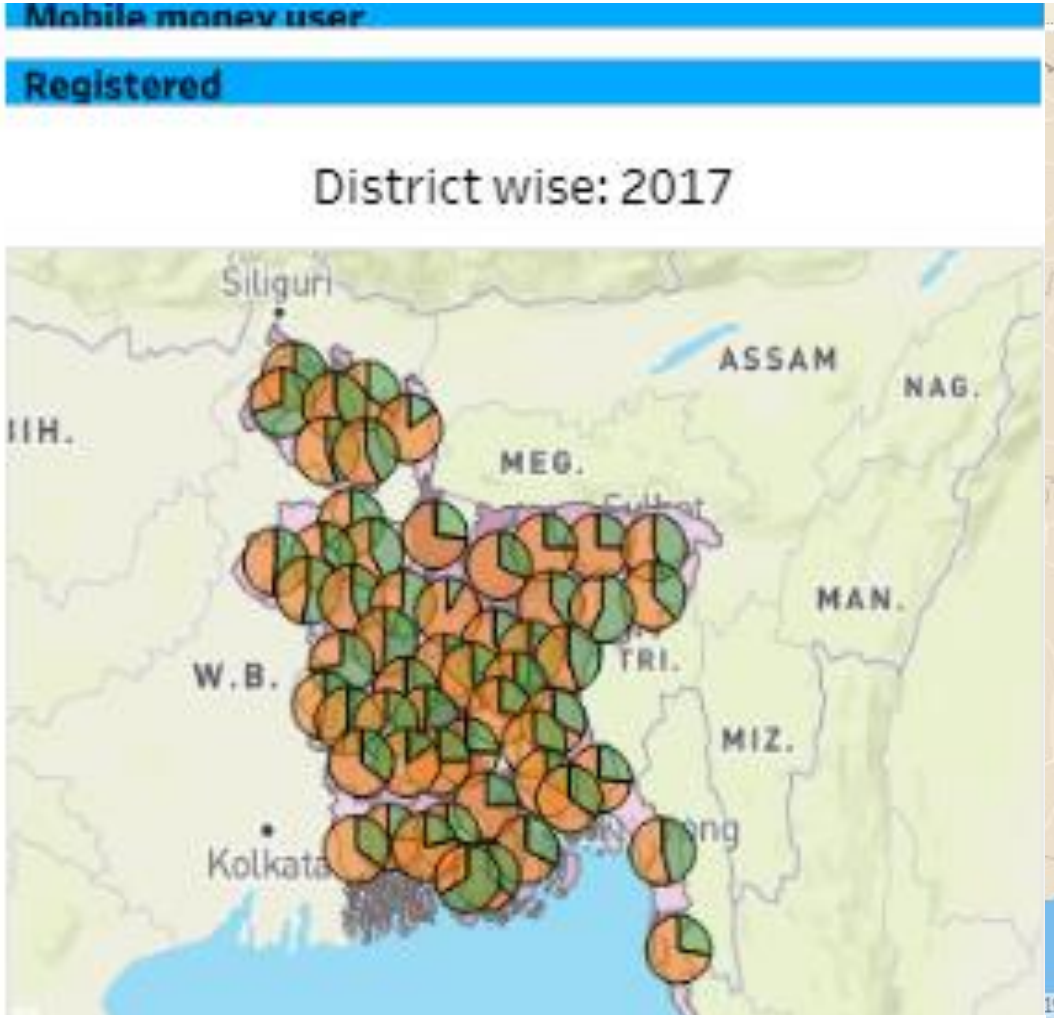
Community Engagement Interface



Data Analytics on financial Inclusion and Student and Teacher ratio

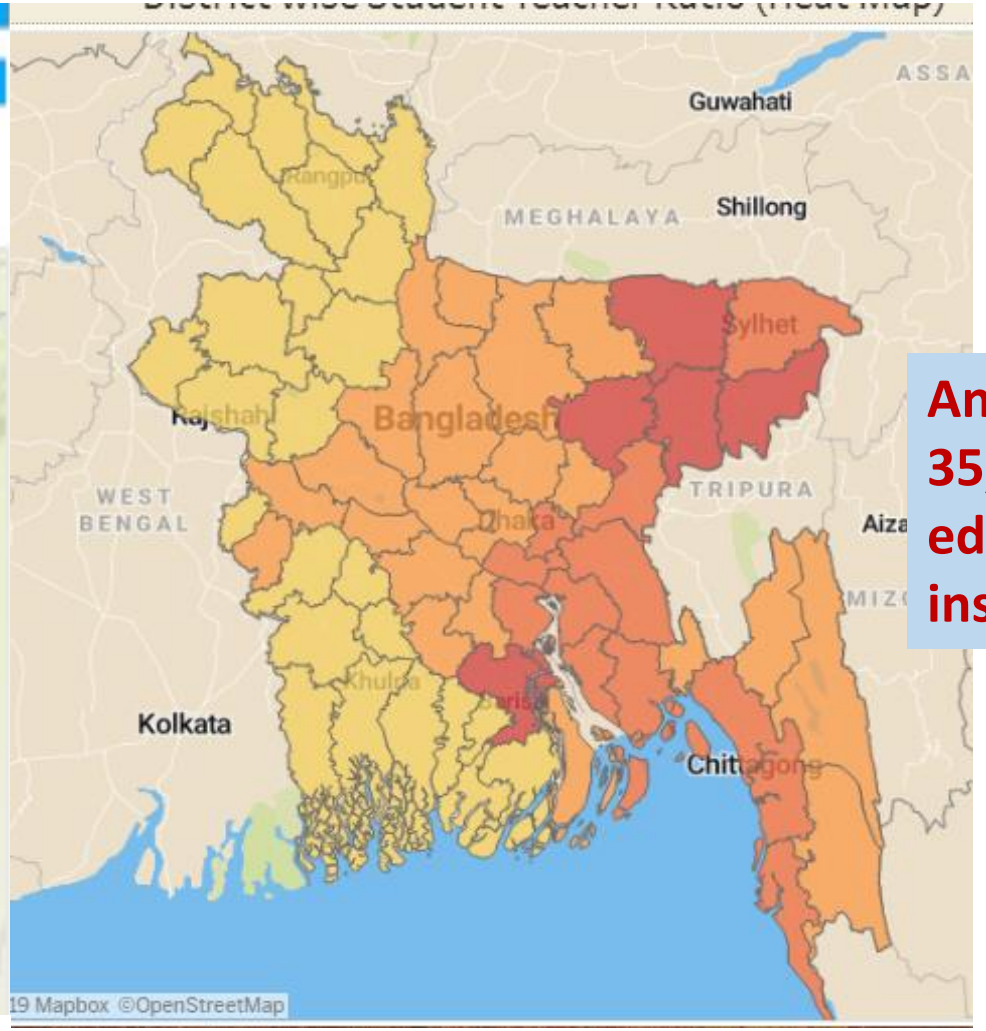
1 NO POVERTY

8 DECENT WORK AND ECONOMIC GROWTH



Data Analytics on Financial Inclusion (mobile money users)

Source: Inter media



Data Analytics on Student and teacher ratio

Source: BANBEIS

4 QUALITY EDUCATION

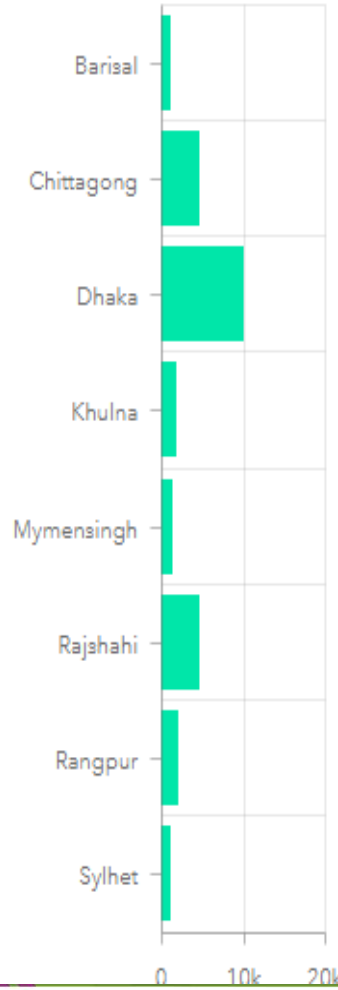
Analyzed 35,000+ educational institutions

2041

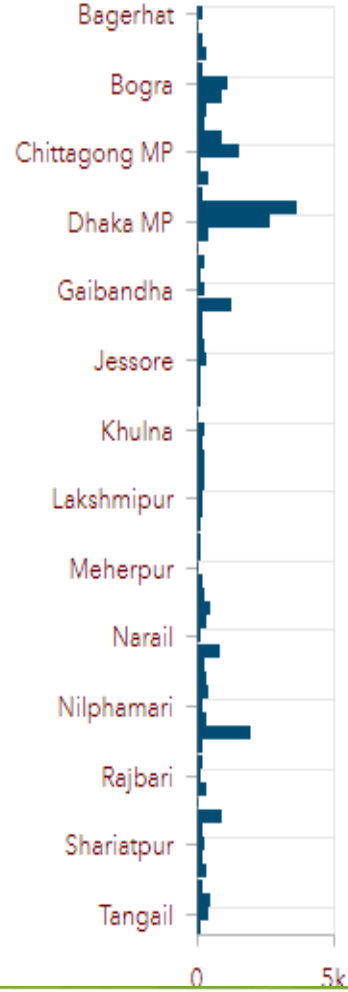
Food Assistance using 333 Helpline to newly poor and Digital financial aid to Poor/newly classified as poor

Covid-19 Impact: Poor subjected to Food Insecurity Seeking Relief

Division Wise Candidate Count



District Wise Candidate Counts



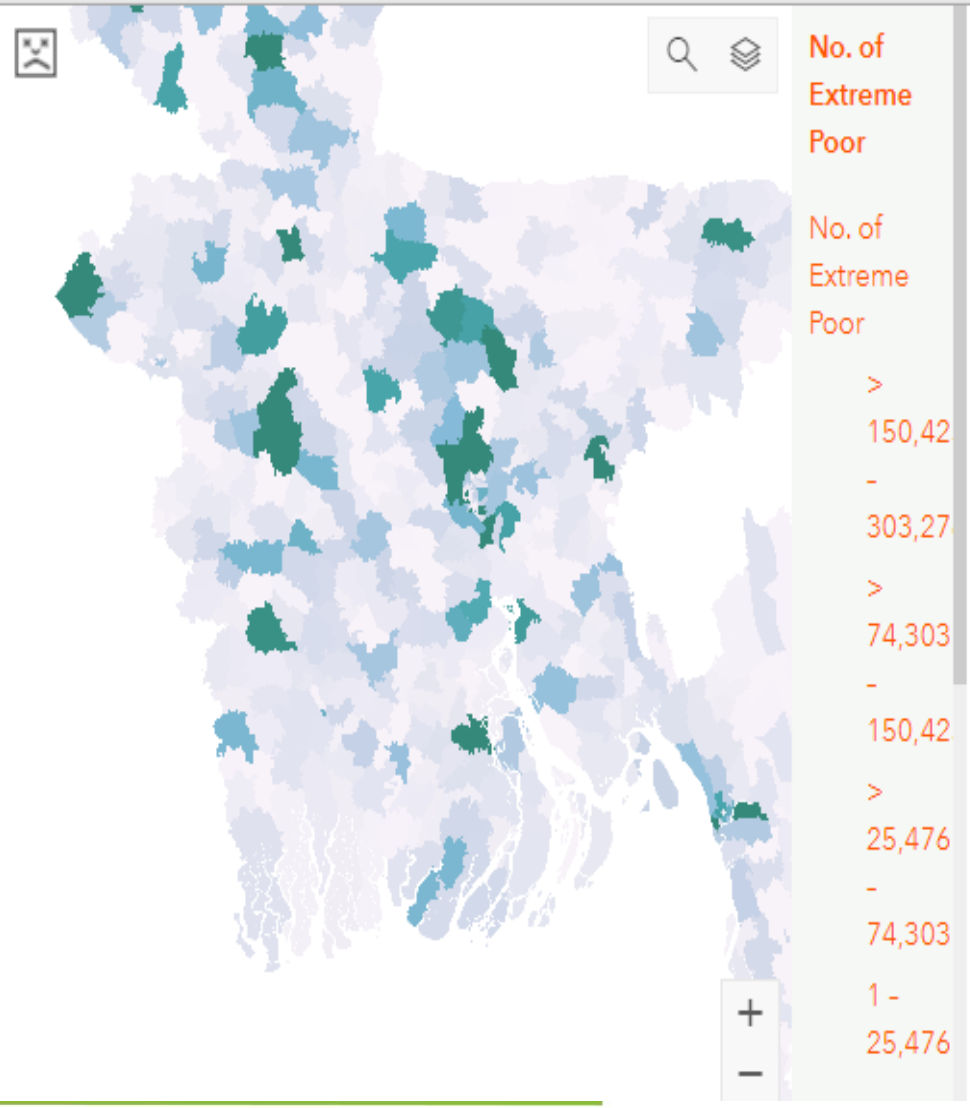
Upazilla Wise Candidate List

Sabujbagh Upazilla
No. of Candidate 2,612
Distributed:
Amount of Food Relief:
Amount of Monetary Relief:

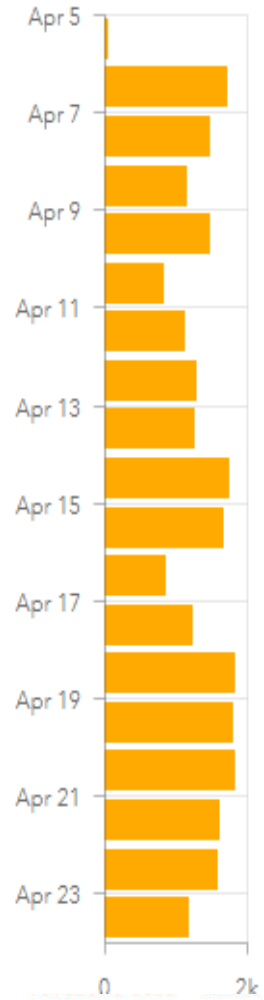
Savar Upazilla
No. of Candidate 1,242
Distributed:
Amount of Food Relief:
Amount of Monetary Relief:

Gazipur Sadar Upazilla
No. of Candidate 945
Distributed:
Amount of Food Relief:
Amount of Monetary Relief:

Bogra Sadar Upazilla
No. of Candidate 792
Distributed:
Amount of Food Relief:
Amount of Monetary Relief:



Date wise Count



Health Impact due to COVID-19

3 GOOD HEALTH AND WELL-BEING

করোনা ইনফো

হটলাইন | ৩৩৩ ন্যাশনাল কল সেন্টার | ১৬২৬৩ স্বাস্থ্য বাতায়ন | ১০৬৫৫ আইইডিসিআর | ০৯৬১১৬ ৭৭৭৭৭ বিশেষজ্ঞ হেলথ লাইন | ১০৯ ন্যাশনাল হেল্পলাইন | সকল কল সেন্টার | English

Bangladesh Covid-19 Scenario | Impact: Health Care | Impact: Education | Impact: Employment | Relief Effort Scenario

Hospitals
85
Last update: a few

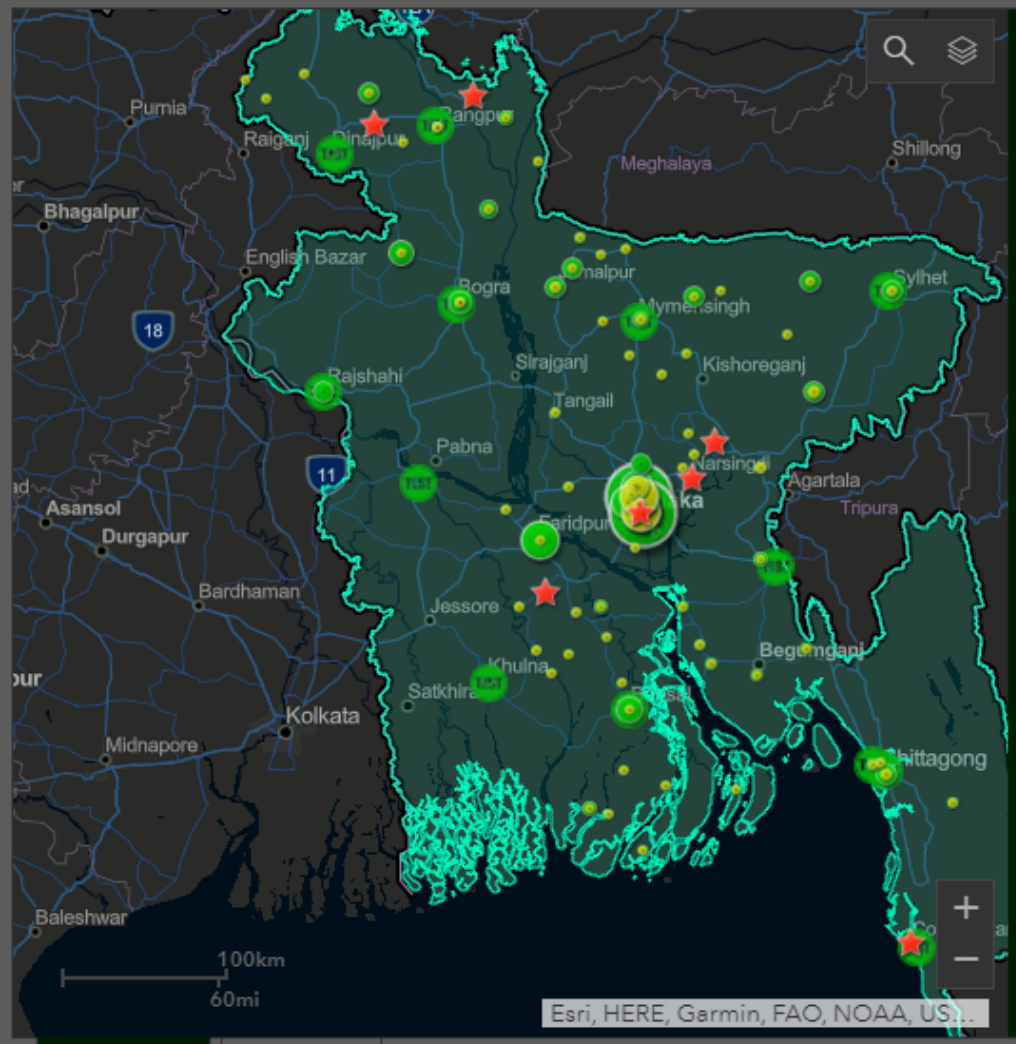
Testing Facilities
28
Last update: a few s

Isolation Facility
94
Last update: a few

Collection Facility
640
Last update: a few s

Current Iso. Bed
4,745

Current Admitted
1,045
Last 24 hr: 68
Last update: a few s



Current Hospital Overload Flag

0
1

Current Patient Load

Currently admitted

> 500
400
250
100
< 1

Covid-19 Hospital Bed Capacity

Kuwait Bangladesh Friendship Government Hospital, Dhaka
Available Bed: 200
Current Patient: 115
Current Utilization: 0.57
Required Bed by 2 Weeks: 0

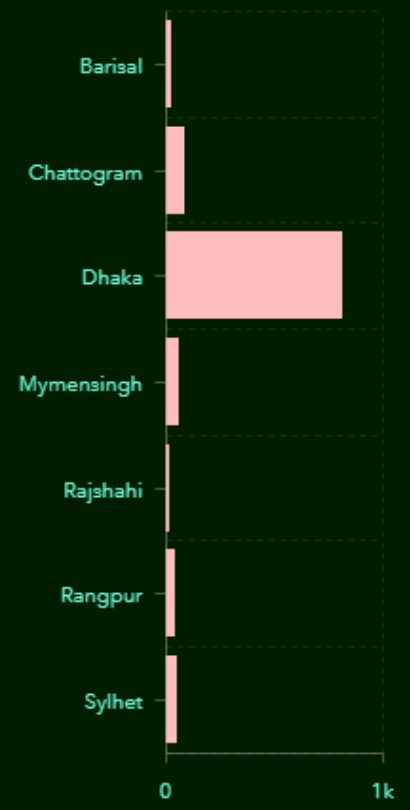
Kurmitola General Hospital, Dhaka
Available Bed: 500
Current Patient: 252
Current Utilization: 0.5
Required Bed by 2 Weeks: 0

Infectious Diseases Hospital, Dhaka
Available Bed: 10
Current Patient: 9
Current Utilization: 0.9
Required Bed by 2 Weeks: 0

Sheikh Rasel Gastroliver Institute, Dhaka
Available Bed: 250

Last update: a few seconds ago

Division wise Currently Admitted Patient



Last update: a few seconds ago

Bangladesh | Dhaka City

Admitted Patient | Capacity

Education Impact

4 QUALITY EDUCATION

করোনা ইনফো

হটলাইন ৩৩৩ ন্যাশনাল কল সেন্টার | ১৬২৬৩ স্বাস্থ্য বাতায়ন | ১০৬৫৫ আইইডিসিআর | ০৯৬১১৬ ৭৭৭৭৭ বিশেষজ্ঞ হেলথ লাইন | ১০৯ ন্যাশনাল হেল্পলাইন | সকল কল সেন্টার | English

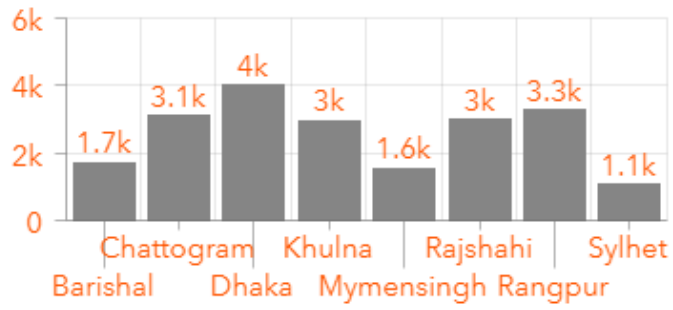
Bangladesh Covid-19 Scenario | Impact: Health Care | Impact: Education | Impact: Employment | Relief Effort Scenario

20,660 Institutions — *Last update: 2 minutes ago*

10,349,323 Students — *Last update: 2 minutes ago*

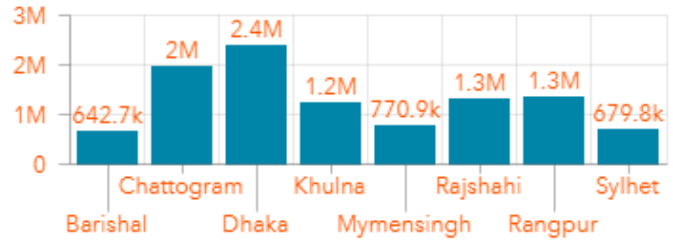
246,845 Teachers — *Last update: 2 minutes ago*

Division wise Closed Educational Institution



Last update: 2 minutes ago

Affected Students by Divisions



Last update: 2 minutes ago

Affected Students | Affected Teachers

District Wise Affected Institution

Dhaka District
Edu. Institution: 818
Student: 632,437
Teacher: 19,013

Chattogram District
Edu. Institution: 816
Student: 598,941
Teacher: 10,898

Dinajpur District
Edu. Institution: 703
Student: 236,274
Teacher: 8,050

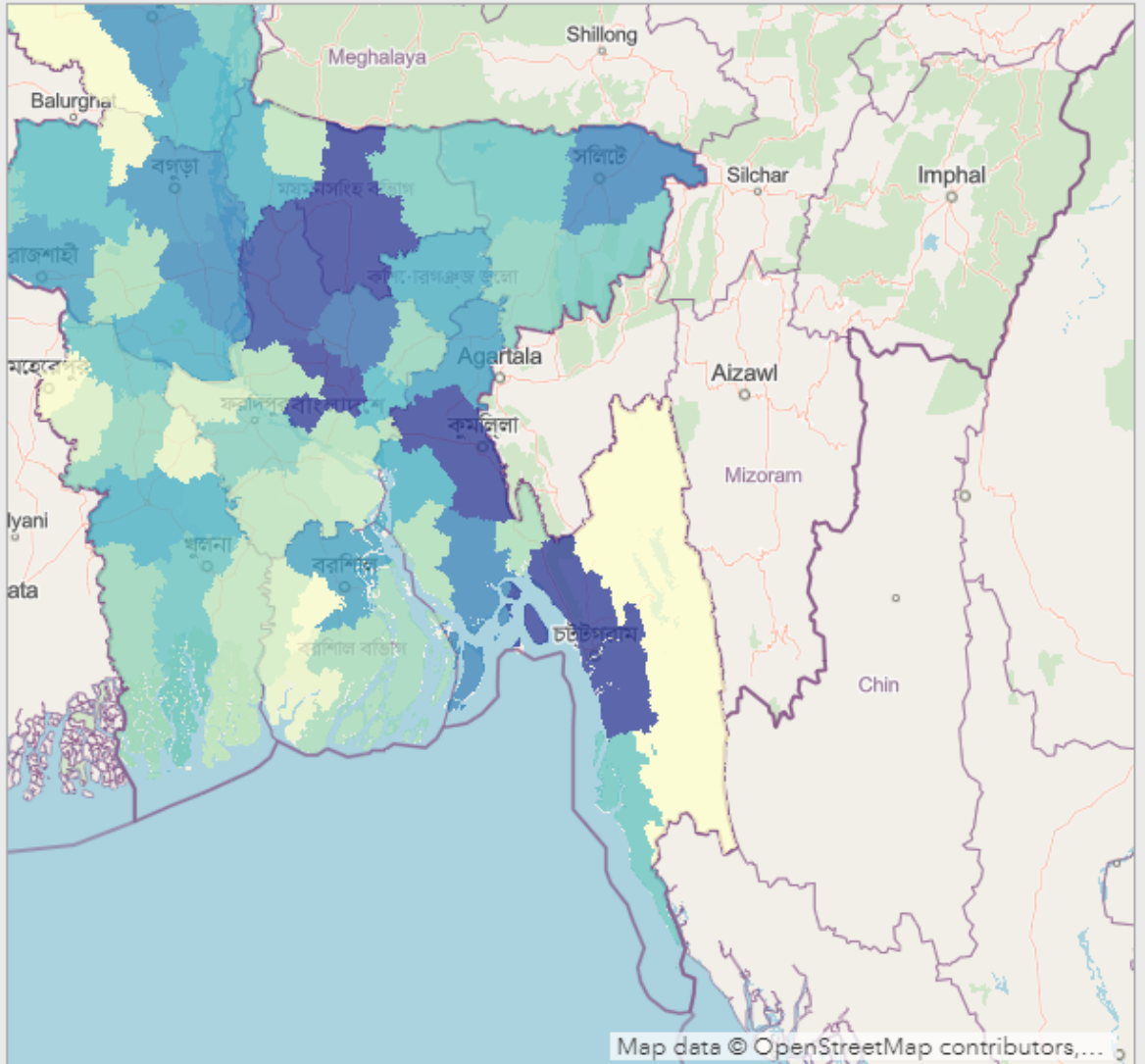
Mymensingh District
Edu. Institution: 657
Student: 337,350
Teacher: 7,103

Cumilla District
Edu. Institution: 647
Student: 420,266
Teacher: 7,880

Rajshahi District
Edu. Institution: 593
Student: 203,829
Teacher: 6,926

Jashore District

Last update: 2 minutes ago



Affected_Studen

Sum Tot_Stu

> 295,403

174,009

< 52,615

Employment Impact

8 DECENT WORK AND ECONOMIC GROWTH

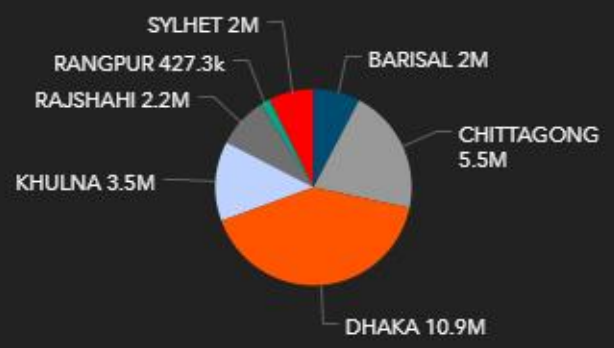
করোনা হটলাইন | হটলাইন ৩৩৩ ন্যাশনাল কল সেন্টার | ১৬২৬৩ স্বাস্থ্য বাতায়ন | ১০৬৫৫ আইইডিসিআর | ০৯৬১১৬ ৭৭৭৭৭ বিশেষজ্ঞ হেলথ লাইন | ১০৯ ন্যাশনাল হেল্পলাইন | সকল কল সেন্টার | English

Bangladesh Covid-19 Scenario | Impact: Health Care | Impact: Education | Impact: Employment | Relief Effort Scenario

Effect of Lockdown

83,243,640 People *Last update: a few seconds ago*	49,669,400 Employees *Last update: a few seconds ago*
18,337,080 House Holds *Last update: a few seconds ago*	3,681,360 Industrial Employee *Last update: a few seconds ago*
7,948,960 Service Holders *Last update: a few seconds ago*	11,657,220 Farmers *Last update: a few seconds ago*

Division Wise Vulnerable Poors



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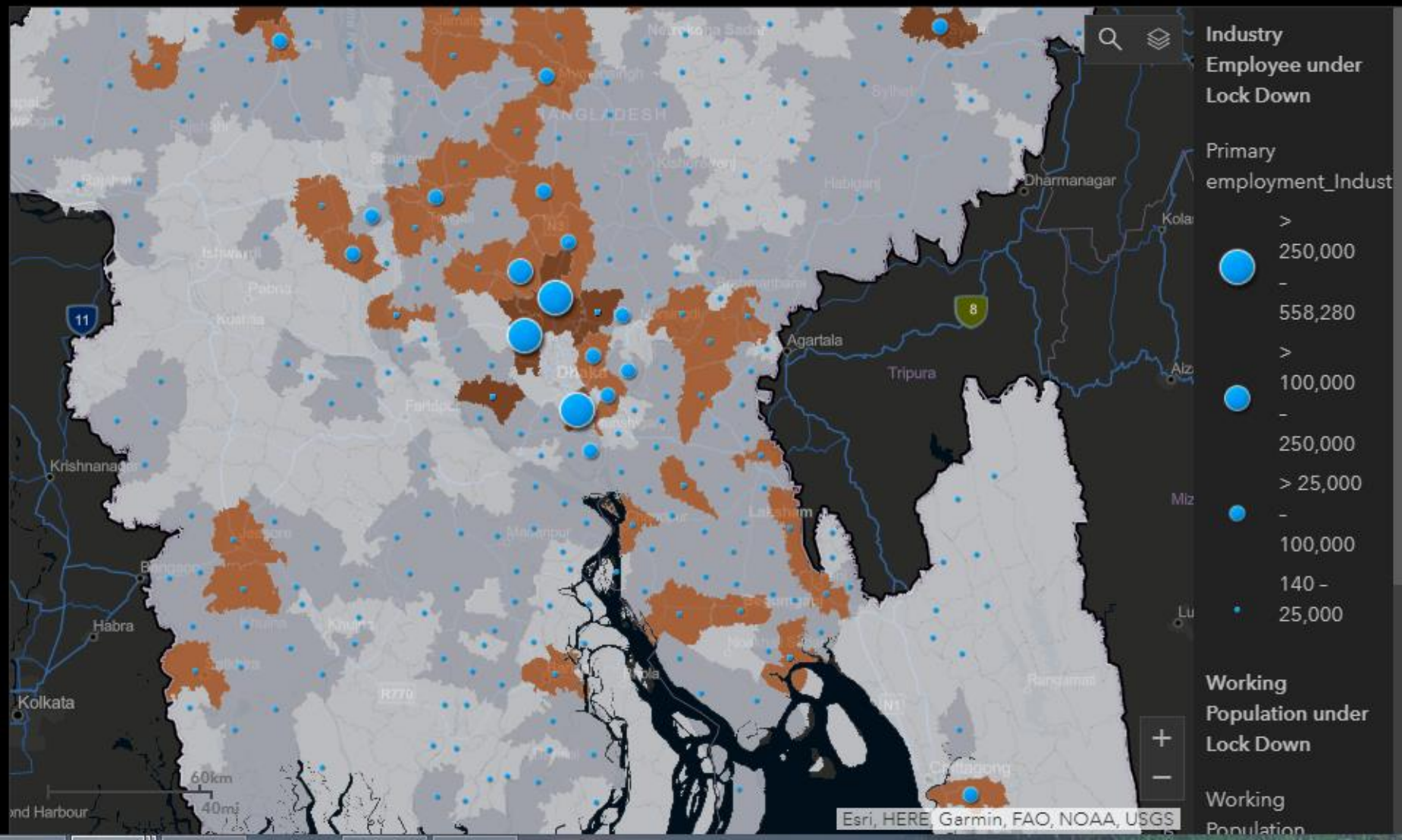

Next Step

1. Data Sharing Policy
2. Data Integration
3. Data Privacy
4. Partnership

Thank You