Dengue Epidemic Control using Geospatial Analysis

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Geospatial analytics is...

Combining geographic information systems with Business intelligence data to gain new insights that can guide in decision making and uncover trends and patterns.

Business Intelligence

Geographic Information
Systems

Geospatial Analytics



Business Intelligence

Data we have

- Dengue affected area
- Number of people infected

Data we need

Where next?

Geographic Information Systems

- Interactive Map API Visualize data on a map
- Driving Distance Matrix API Distance between locations
- Distance Matrix with Predictive ETA Estimated travel time based on traffic history
- GeoAnalytics MapmyIndia JS Display overlays and layers
- GeoAnalytics Listing APIs List of places and their attributes

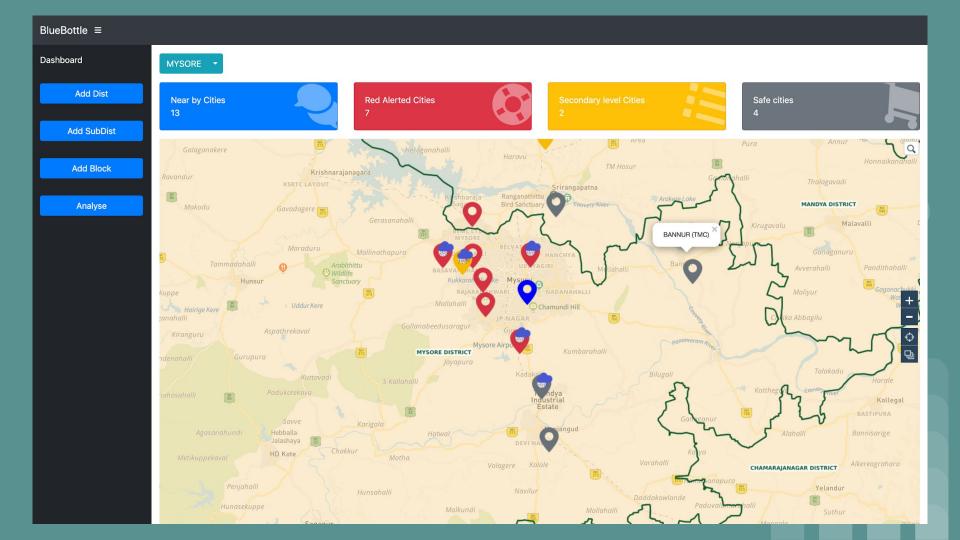
Geospatial Analytics

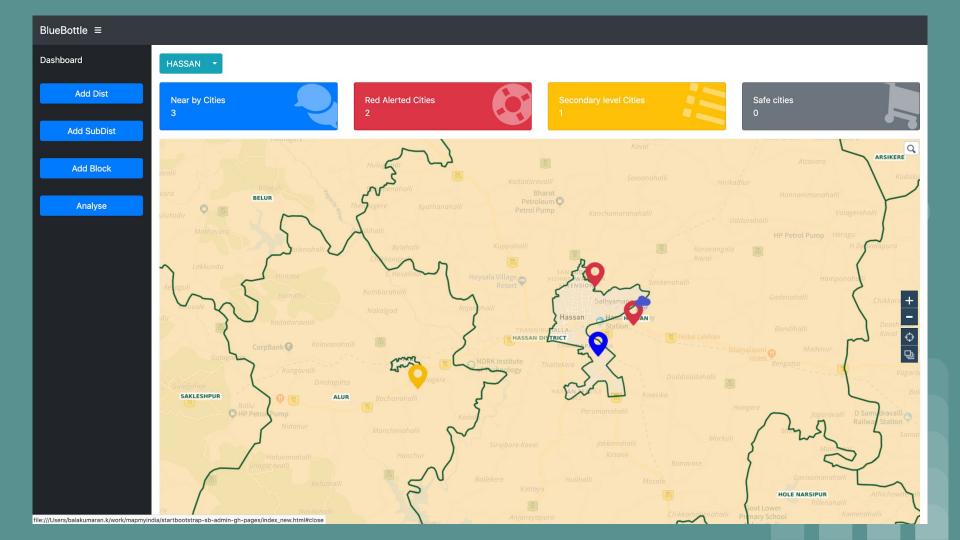
- Driving Distance Matrix API
- Distance Matrix with Predictive ETA

Know most people movement happened; thus that place is more vulnerable

- GeoAnalytics MapmyIndia JS
- GeoAnalytics Listing API

Get details of administrative level to act upon





DEMO



Target Audiences

- Governments & NGOs
 - State and central governments
- Researchers
 - Mosquito borne disease researchers
- FMCG Industry
 - E.g. Goodnight, Allout
 - Mosquito Repellent Market is expected to garner
 \$4.8 billion by 2022 in world-wide CAGR 7.7%

Singapore breeds Mosquito!

https://www.nea.gov.sg/media/news/news/index/project-wolbachia---singapore-progresses-to-phase-3-field-study-at-two-extended-sites-in-february-2019





Microsoft with Mosquito!

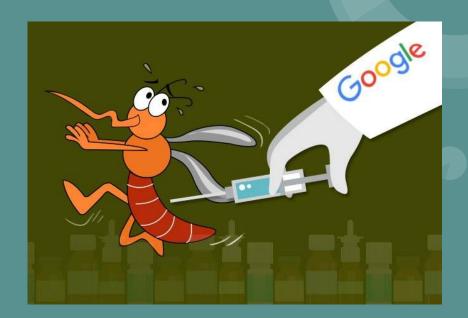
Project Premonition

https://news.microsoft.com/features/building-a-better-mosquito-trap-how-a-microsoft-research-project-could-help-track-zikas-spread/

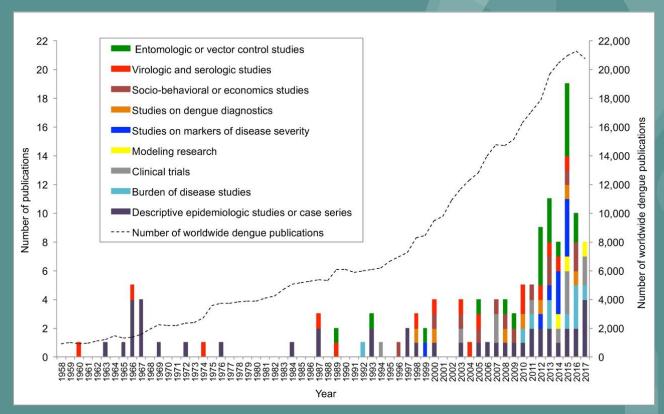


Google vs Mosquitoes

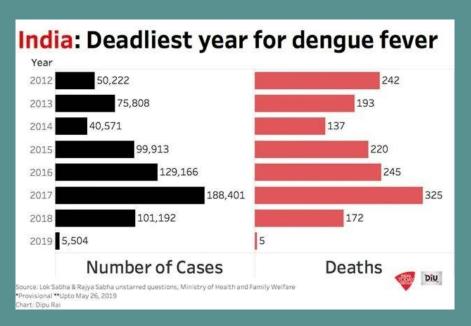
https://www.bloomberg.com/news/features/2018-11-28/how-to-kill-mosquitoes-google-and-verily-have-a-plan

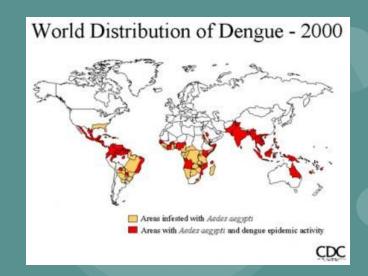


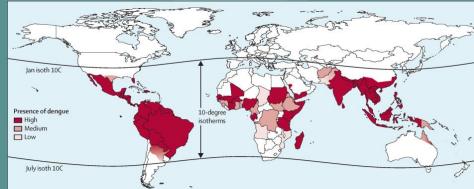
Number of Dengue related researches



Facts







WHO listed dengue as a potential threat among ten diseases for 2019

Thank you

Special thanks to MapmyIndia API support team

- Team BlueBottle