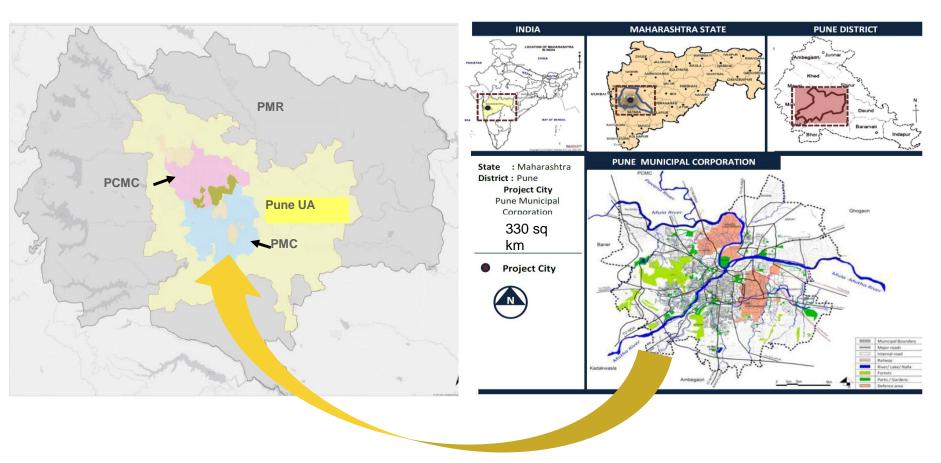
Responsetto COVID-19

Informed Decision making

- Case study of Pune

- Mahesh Harhare, CRO, Pune

Pune – regional setting



*PMC : Pune Muni. Corp. *PCMC: Pimpri Chinchwad Muni. Corp. *Pune UA: Urban Agglomeration *PMR: Pune Metro Region

Pune – salient features

- Pune Municipal Corporation (PMC) administers Pune City
- Population of Pune is > 5 mn (2020 estimates)
- Around 40% population resides in 564 no. of slums
- Recently developed GIS map of Pune city
- Like many other Indian cities focus is more on creation of physical infra. facilities and lesser on digitalisation, use of data for decision making
- Still Pune is among one of the few top reform-oriented cities in India

Pune – past disasters and pandemics



2019 Swine flu

~ **34 casualties reported in Pune** (Till June 2019, news reports)

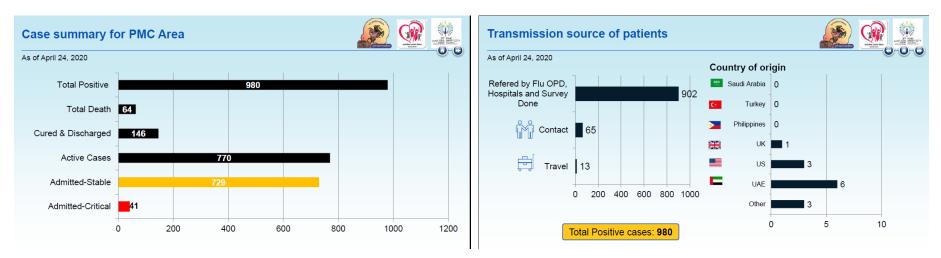


Lack of timely forecast of monsoon data

Interagency coordination challenges

- Lack of data processing, mapping
- Decision making based on Institutional memory

Corona outbreak – data was still analysed in traditional way

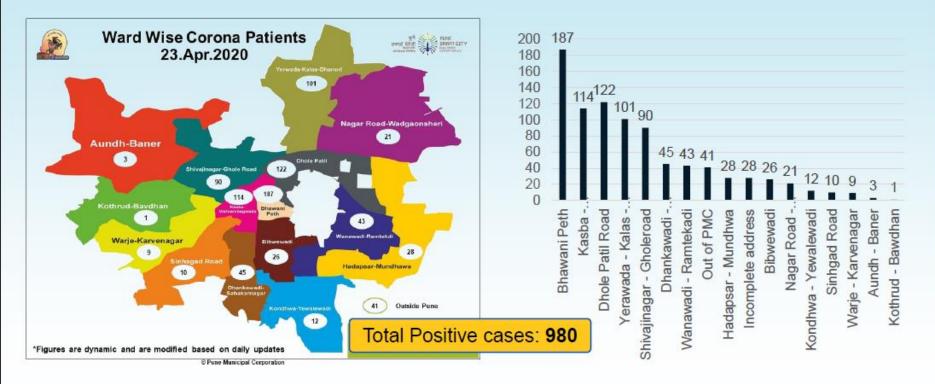


- City level data and information was analysed and communicated
- It was unnecessarily putting lot of pressure on limited resources like manpower, health workers, hospital facilities, police, providing relief measures etc.
- Communication reaching to citizens (within and outside Pune city) was not clear, entire city was perceived to be HOTSPOT of COVID- 19

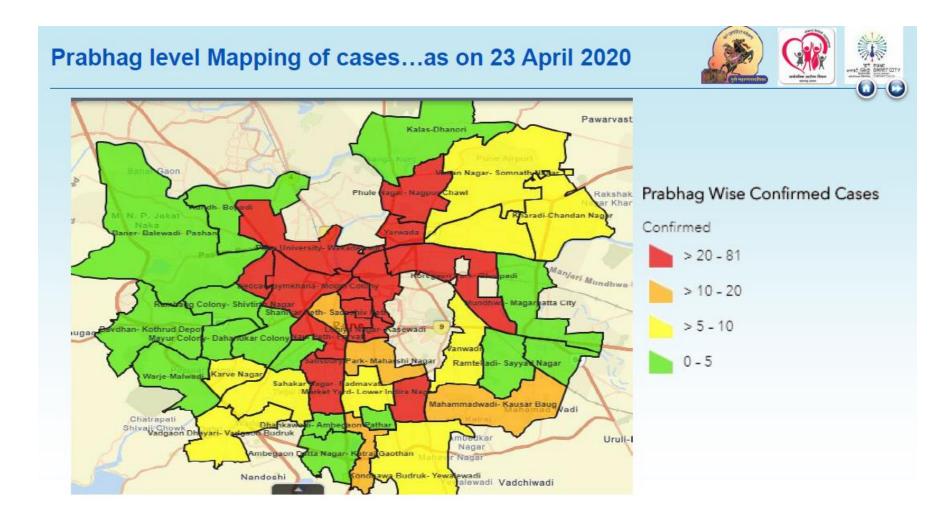
First time city attempted use of spatial tools for mapping ward wise data

Ward-wise breakdown of Positive Patients

As of April 24, 2020



Spatial mapping helped in analyzing dynamic changes in COVID-19 cases across wards and sub wards within Pune city



It further helped in delineating containment zone and allocating critical resources in an efficient manner

Containment Zone Buffer Analysis

BALEWAL

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04

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Hund -

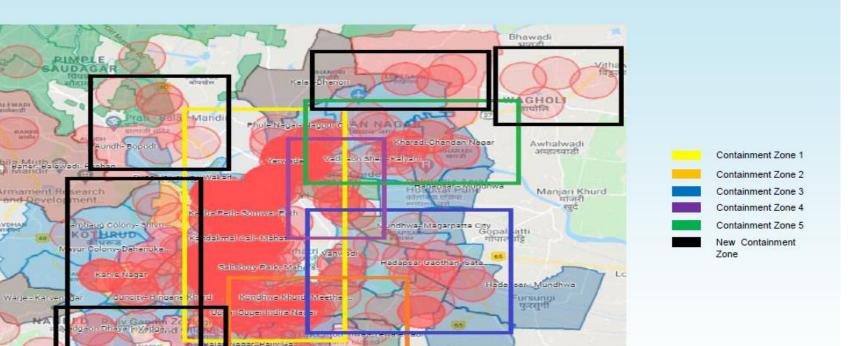
BAVDH

Warie

Krushnai Water

Temporarily closed

Park & Resort



Holkarwadi

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Askarwadi

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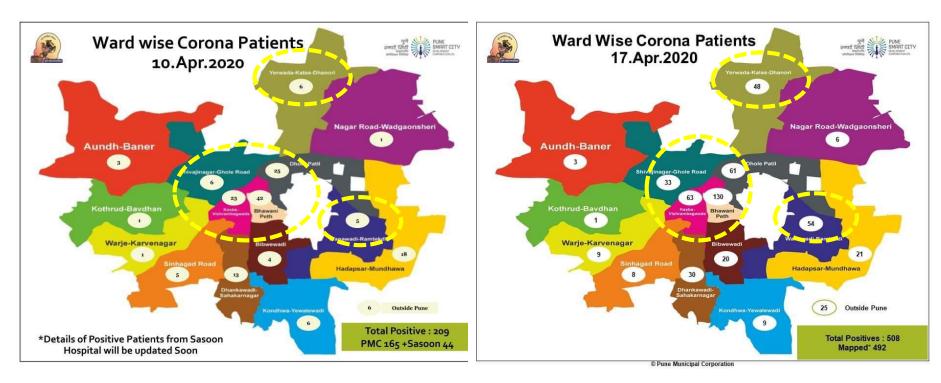
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Jadhavwadi

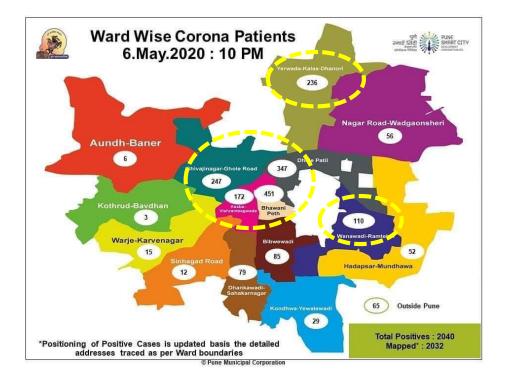
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Wadki वाडकी

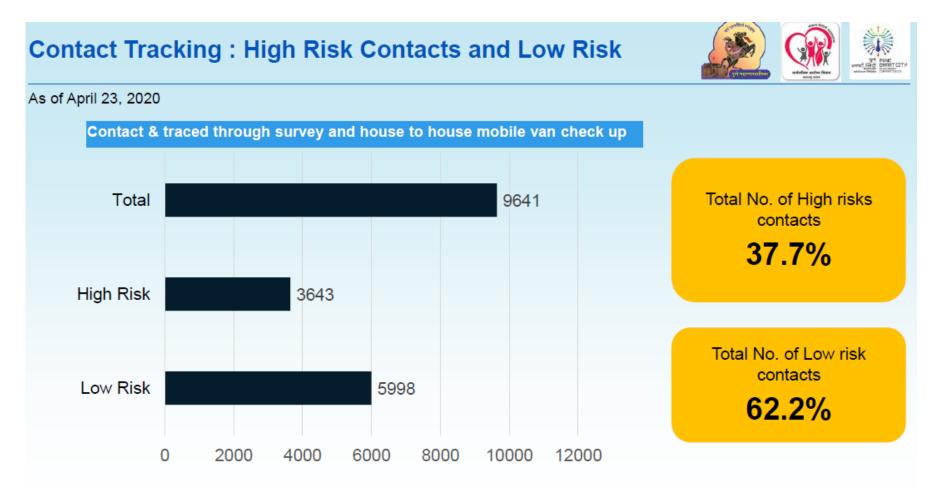
It further helped in delineating containment zone and allocating critical resources in an efficient manner



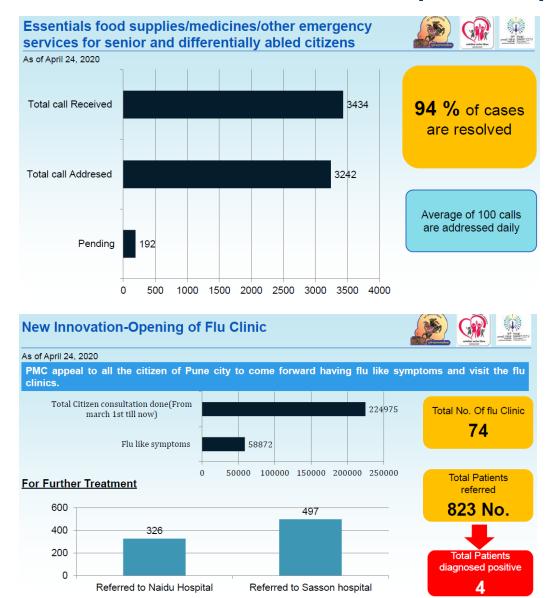
It further helped in delineating containment zone and allocating critical resources in an efficient manner



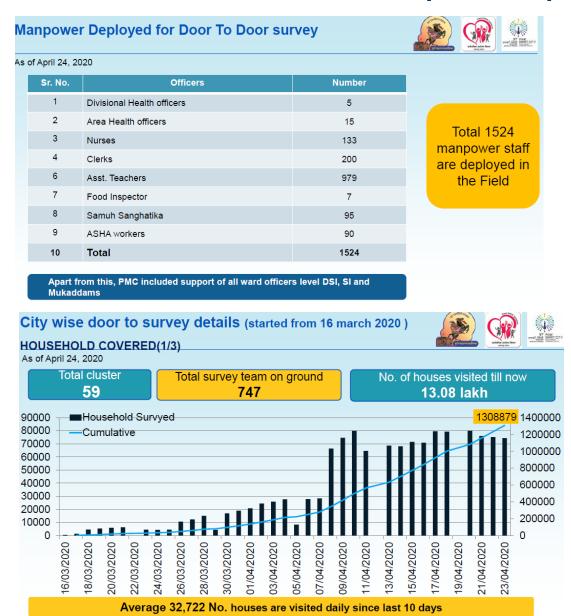
In the initial stage, contact tracing i.e. identification and tracing of high-risk contacts is very critical. The spatial mapping helped in reducing the crucial time required in this activity.



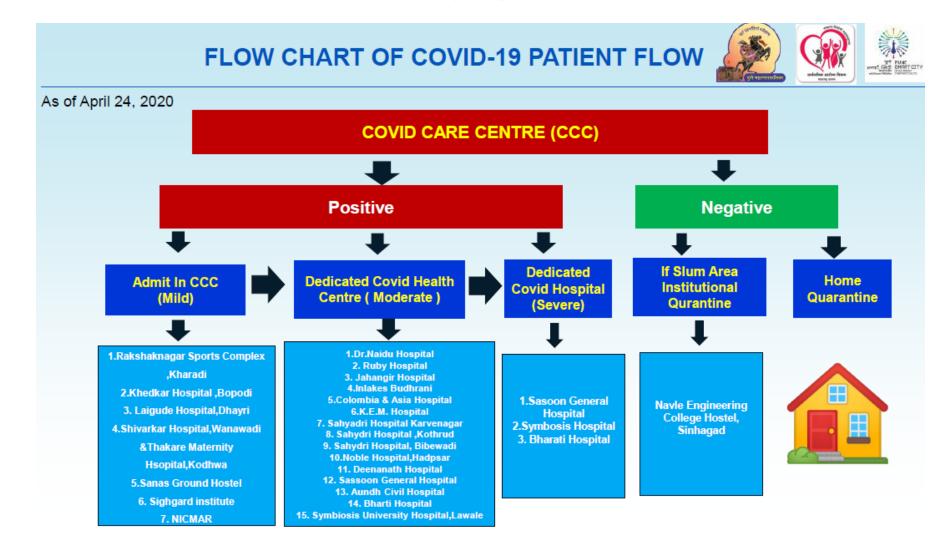
Now PMC is better oriented and focused to respond the pandemic



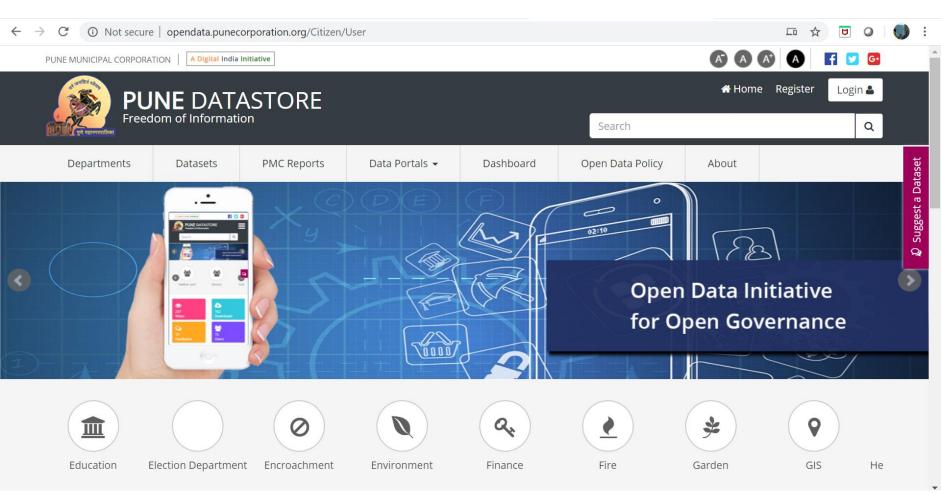
Now PMC is better oriented and focused to respond the pandemic



Helped in identification of pvt. treatment facilities closer to hotspots, creation of a flow chart and develop a protocol



Pune is one of the very few Indian cities which have Open data portal where substantial data is available for different stakeholders



COVID -19 Imapct – Urban Planning need to be relooked

Planning & Decision making Redevelopment of slum areas, to provide better access to housing, and services

 Self sufficient neighbourhoods with open spaces, food supplies, health facilities



- Decentralisation of Agri Produce Markets (APMC)
- Smart Affordable Solutions for effective operations management and city planning.

Role of open spaces, especially in high density areas



Partnering & Collaboration

- Collaboration with NGOs and partners, sharing of data
- Collaboration with researchers
- Innovative solutions for Citizen engagement & Collaboration



Thank You