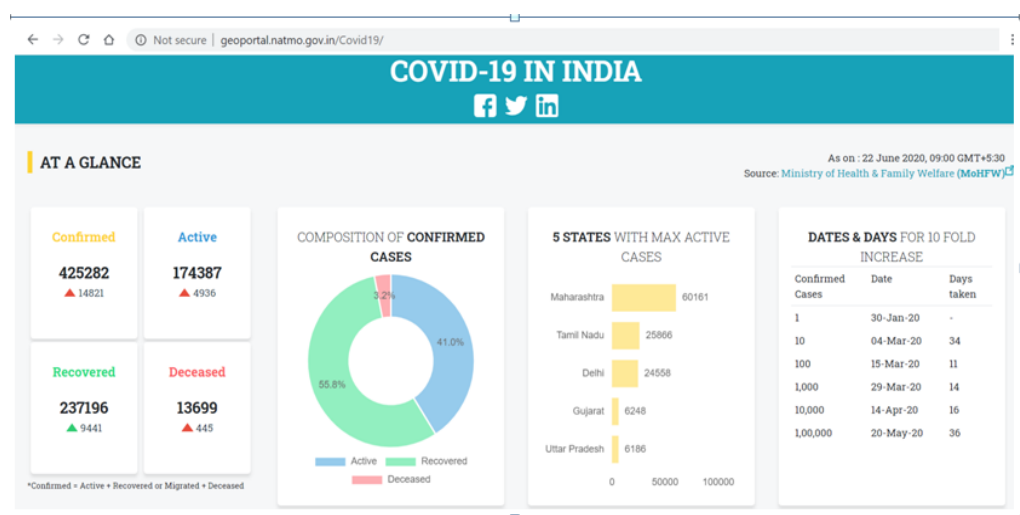


## COVID19 Dashboard of NATMO

Covid-19, a worldwide health disaster and is a state of global emergency leading towards immense hardships to 217 countries of the world to fight against this deadly disease. India is of no exception and the first Covid positive case was detected in India on 30<sup>th</sup> January 2020. Since then it has created an alarming situation for which Government of India has taken several initiatives to control its adverse impact on Country's community health, capacitated covid specific health infrastructure and spread awareness to control panic-stricken social behavior.

Under such circumstances spreading of awareness among the citizen and to overcome an anxious and worrisome panic most popular approach is the visualisation of situation analysis through Dashboard. NATMO took an initiative to host its COVID19 Dashboard on 14<sup>th</sup> April 2020 under the guidance of Geospatial Group, Department of Science & Technology, Ministry of Science & Technology to create a single window platform to integrate all Government Department data including COVID19 combat initiatives. It has been observed commonly that the other COVID dashboards focus on state/district-wise distribution of covid cases only. But NATMO, in its dashboard, provisioned dissemination of health infrastructure related information that may help common people to find relevant information to solace in their struggle in Covid situation.

After the initial hosting of COVID19 Dashboard, it has been updated time to time to keep pace with the changing situation, depending on availability of authenticated thematic information. Initially, district wise occurrence of covid cases and Hotspot District Zonation were referred from MoHFW's published data. However from May, 2020 onwards district-wise information was being published by respective State Departments in their Media Bulletin but of different dates. In the initial version, district data irrespective of states were seamlessly available for a particular date, but in later period the single date district data availability for PAN India became a constraint. It created a scope to further revise the architecture of the dashboard to facilitate the data updation mechanism. State wise district data may be updated as or when updated by state government departments.



4th update of COVID19 Dashboard hosted on 19.06.2020 having special attributes like:

1. Through a single Map Window user may get wide range of information related with COVID-19.

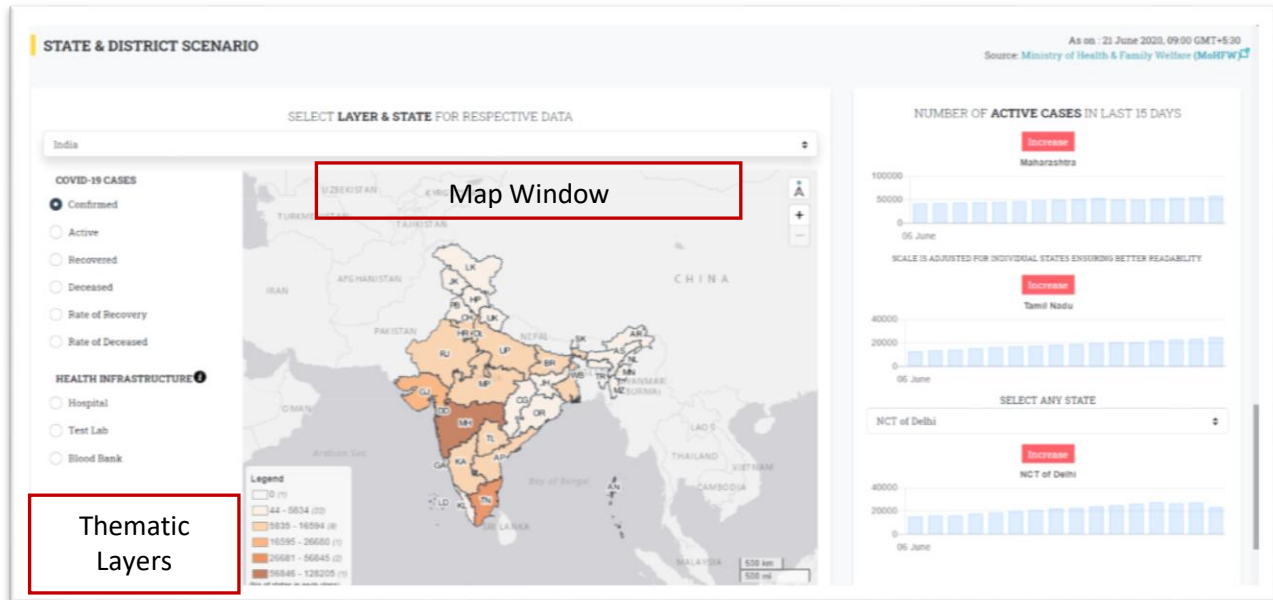


Fig1: Single Map frame for Covid Statistics and Health facilities

2. Covid Statistics: Confirmed Cases, Recovered, Deceased, Rate of Recovery and Rate of Death information have been given state and district wise, while the health facilities Information like – Hospitals, Test Labs, Blood Banks also shown on the same map frame.

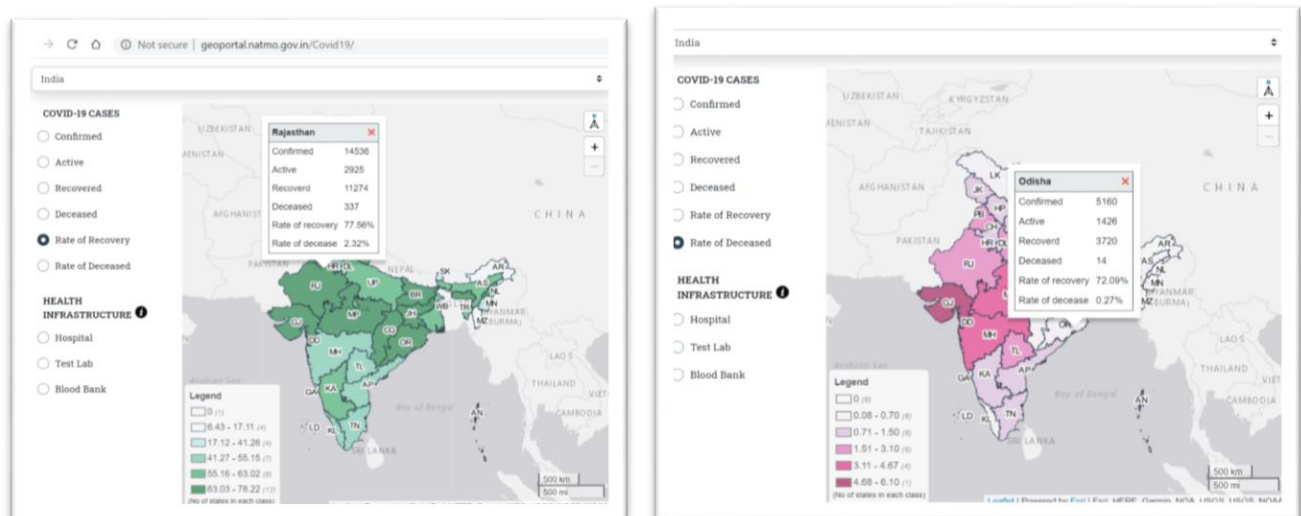


Fig 2: State wise Covid Statistics including Rate of Recovery and Rate of Deceased calculated based on MoHFW data

3. 'Drill Down' approach adopted to represent the data. User may select a state to see District wise distribution of Covid cases and available health infrastructural facilities. User

may find individual health facility info at a higher zoomed level. Some useful information to common people like address, categories and city locations have been indicated with info tool. The cartographic preferences for data visualization has been considered and adopted to ensure easily interpretable data visualization.

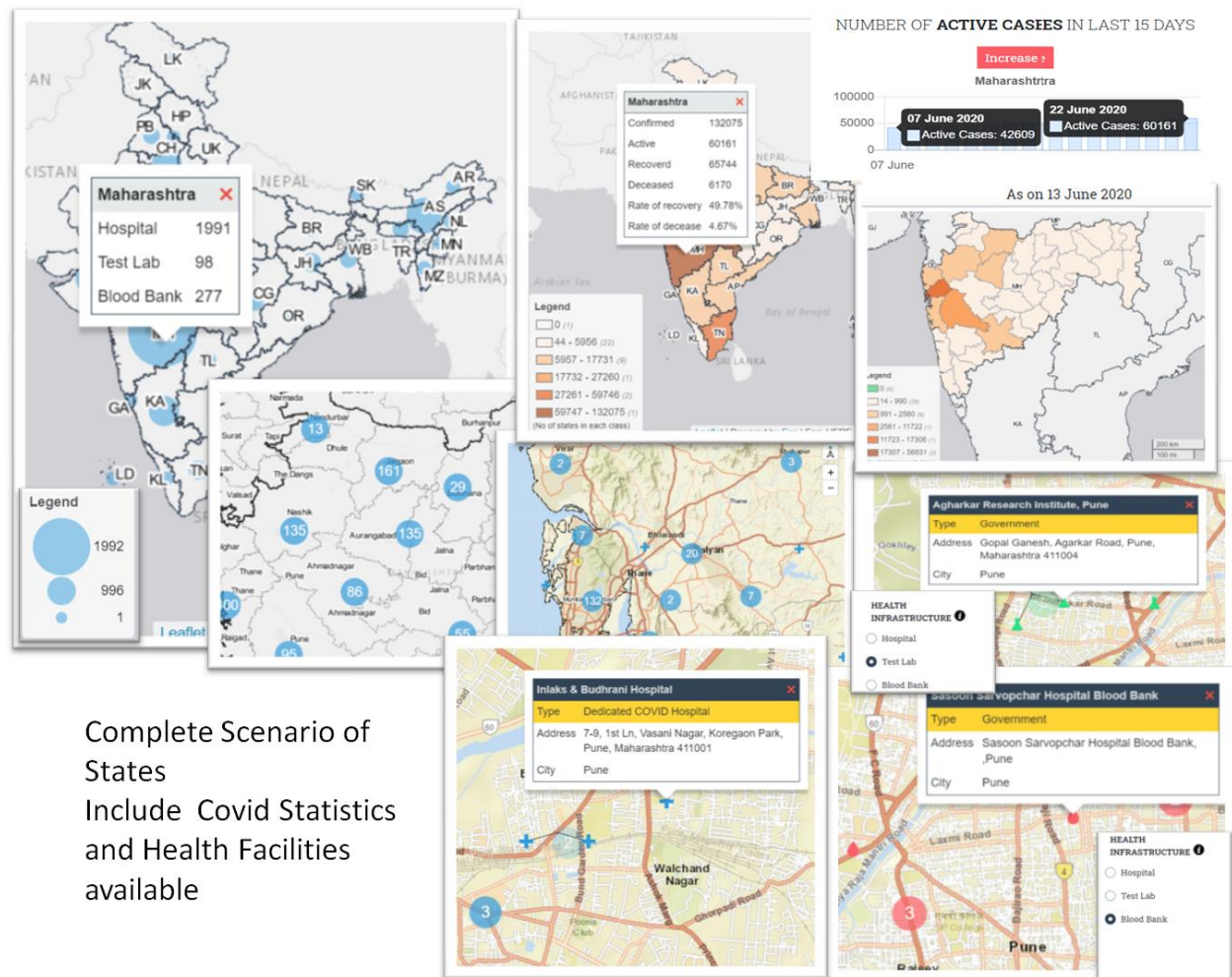


Fig 3 : State Scenario of Maharashtra showing available health facilities for Covid19 Treatment and detailed locational information of the facilities. COVID Statistics – Confirmed, Active, Recovered, Deceased cases along with Recovery Rate, Death Rate. COVID Situation of last 15 days has been shown on a graph.

4. States Scenario with an emphasis to last 14 days illustrated through charts. First two dominant states in terms of maximum Confirmed Cases are showing by default and a user may opt to see any other state by choosing the same from the drop down

In conclusion it may be mentioned that COVID19 pandemic has imposed a dynamic scenario which is changing very fast within short span of time. The Cause-Effect relation may be analyzed further in consideration of demographic-socio-economic factors which may help us to acquire maximum knowledge from this scenario considering it is a learning instance. It may help us to fight the battle against such deadly diseases in more empowered way in future days.