

Flooded Streets in Chennai

ABOUT

The south Indian city of **Chennai** experienced unprecedented rainfall during the **monsoon of 2015**. This caused the worst flooding in the history of the city and an estimated **economic loss of \$3 billion**. While water levels kept rising, media reports were incapable to visualize the full scale of the disaster. A clear picture of all areas affected was needed for adequate planning of relief efforts.

Driven by the need to have better information on how their families were affected in the city, a small group of open source technology activists quickly prototyped and launched a reporting tool to **crowdsource the location of flooded roads** on an interactive mobile-friendly map.

PROJECT URL:
<https://osm-in.github.io/flood-map/chennai.html>

STATISTICS

Development time:
3 days

Project views:
Over 1 million views

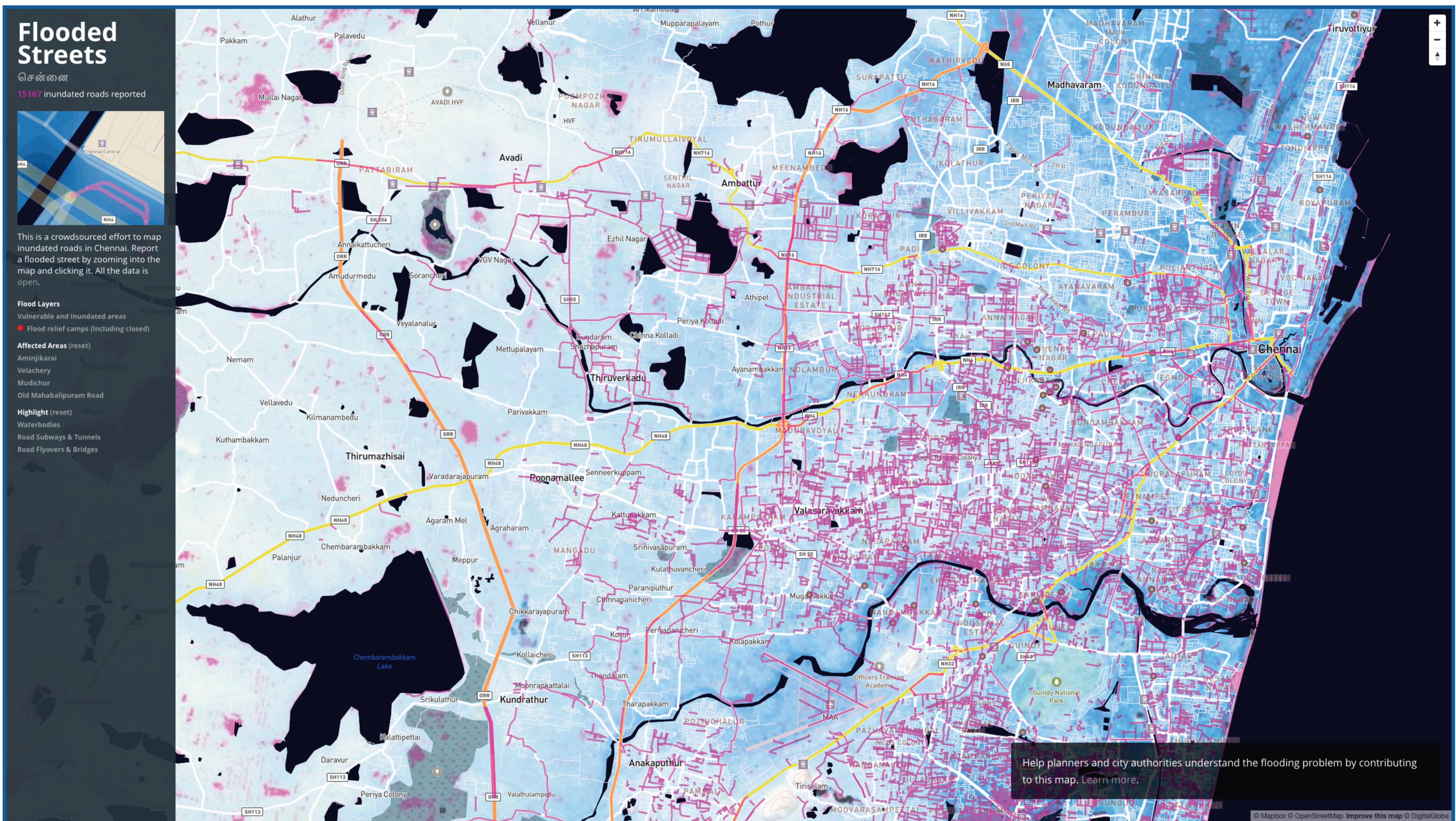
Reports collected:
15,000 inundated street segments
collected in the first week

Maximum simultaneous users:
1,400 users

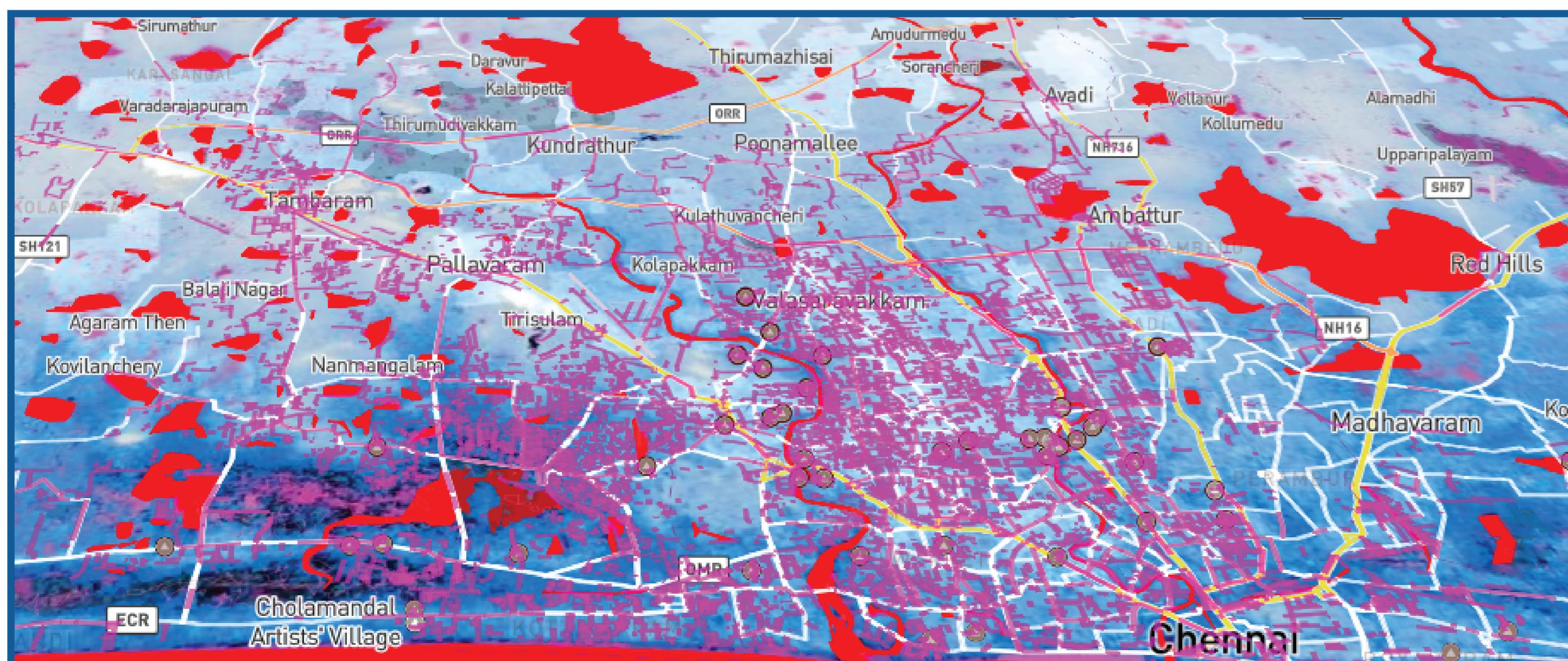
MORE DETAILS

Project Members:
Arun Ganesh, Mapbox
Aruna Sankaranarayanan, Mapbox
Prasanna V. Loganathan
Sajjad Anwar, Mapbox
Sanjay Bhangar, Mapbox
Vasanth Kumar, VIT University

Data sources:
Map data: OpenStreetMap
Inundated areas: UNITAR
Terrain data: ISRO



Main interface with inundated street segments in pink



Overview of the city, with waterbodies highlighted



Low lying areas near wetlands were worst affected by the floods