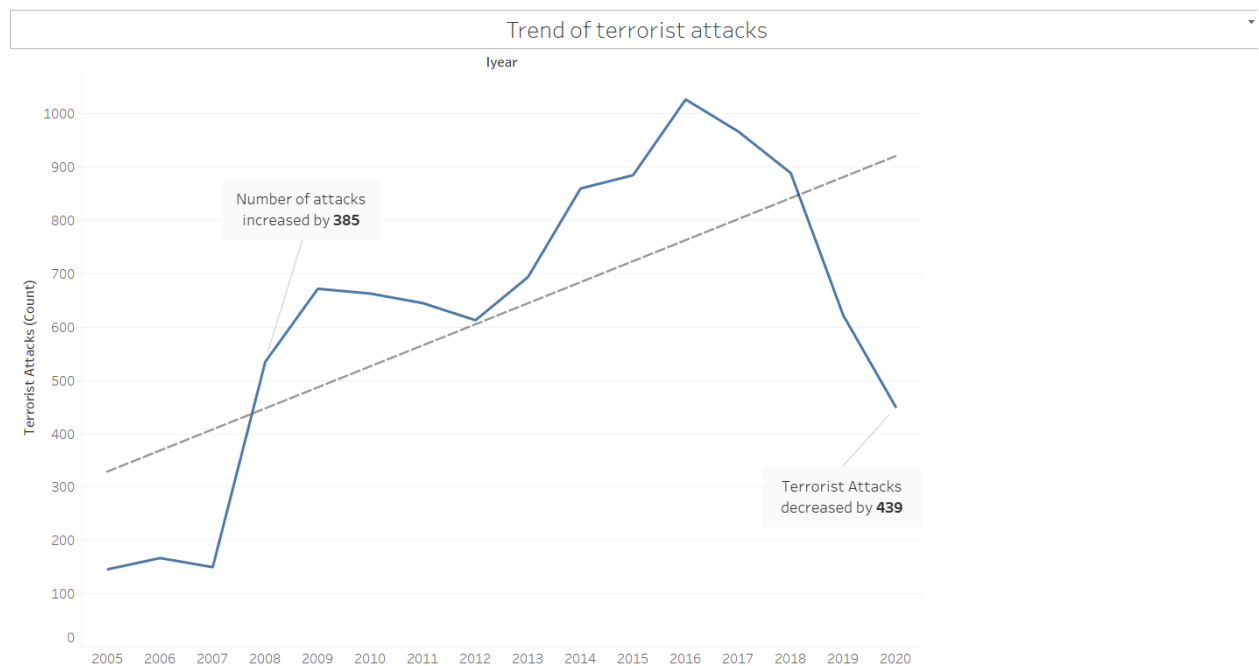**Scenario:** You are part of the data intelligence team under the national security think-tank. The team has gathered data on every terrorist attack which has happened in the nation, from 1970 to 2020. You are tasked with performing an exploratory analysis on this dataset, explore patterns, which can lead to actionable insights. Government is looking forward for critical recommendations from this think-tank, by being proactive, to further improve the security of the country.

Analysis:

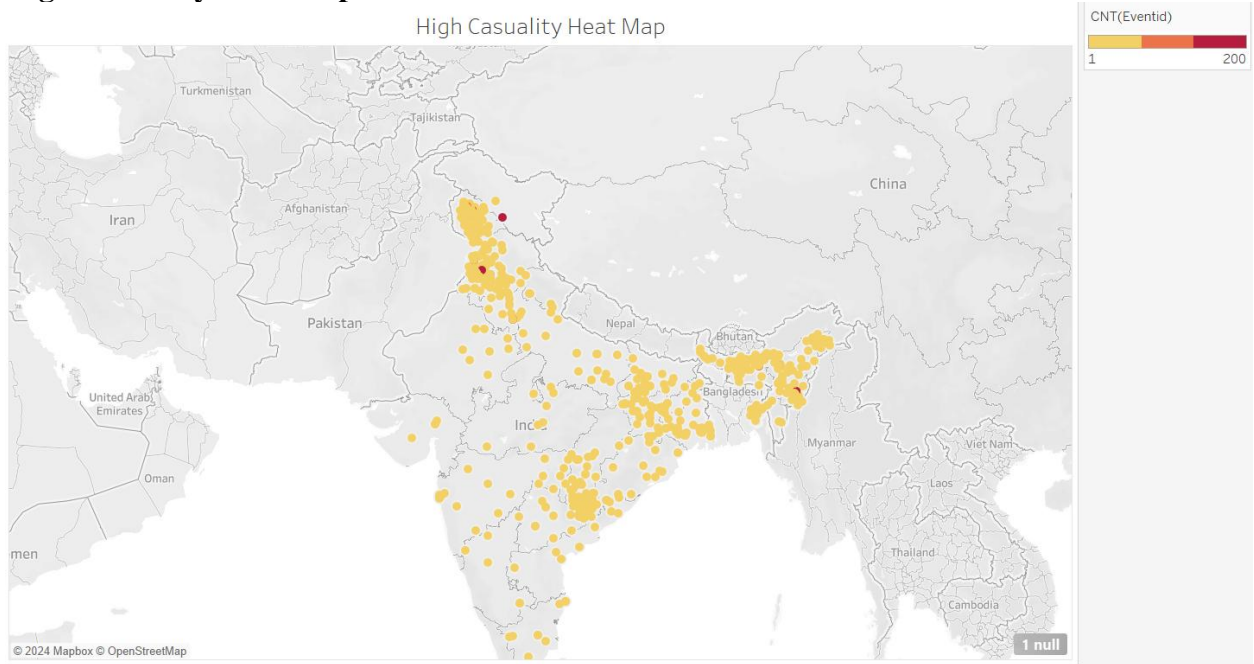1. **Trend of terrorist attack:**

Trend of terrorist attacks

Iyear

- From 2005 to 2016, there is a clear upward trend in the number of terrorist attacks, with a notable spike from around 2009 to 2014.
- The graph shows an **increase of 385 incidents** over this period. This might suggest growing instability or heightened activity by terrorist groups.

- After peaking in 2016-2017, there's a **sharp decline in attacks by 439 incidents** leading up to 2020. This suggests that measures taken during this period might have helped curb terrorist activities.

Measures that must be taken by govt:

The Indian government should enhance counter-terrorism operations through improved intelligence-sharing and predictive analytics to preempt threats. It should address socio-economic issues that fuel terrorism by investing in community development and public

awareness programs. Strengthening border security and implementing de-radicalization initiatives will further mitigate risks and reduce recruitment by extremist groups.
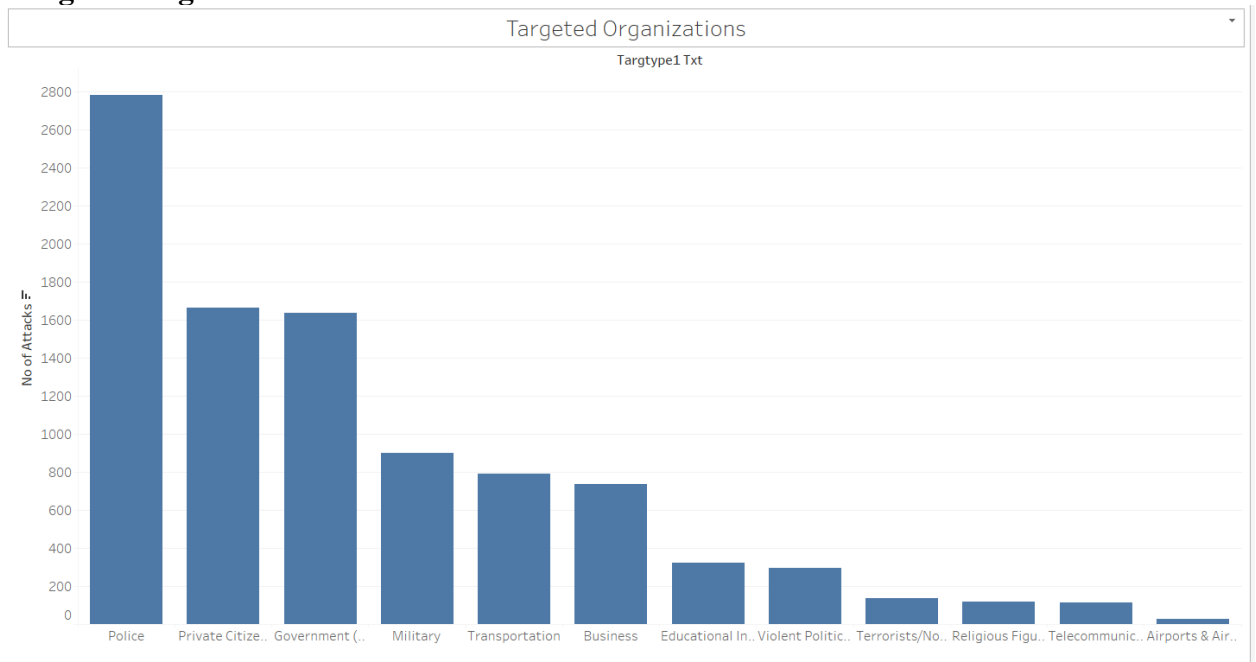
2. **High Causality Heat Map:**

Concentration in the Northwest: The most prominent cluster is located in the northwestern region of India, particularly along the border with Pakistan. This suggests a significant concentration of high-casualty terrorist attacks in this area.
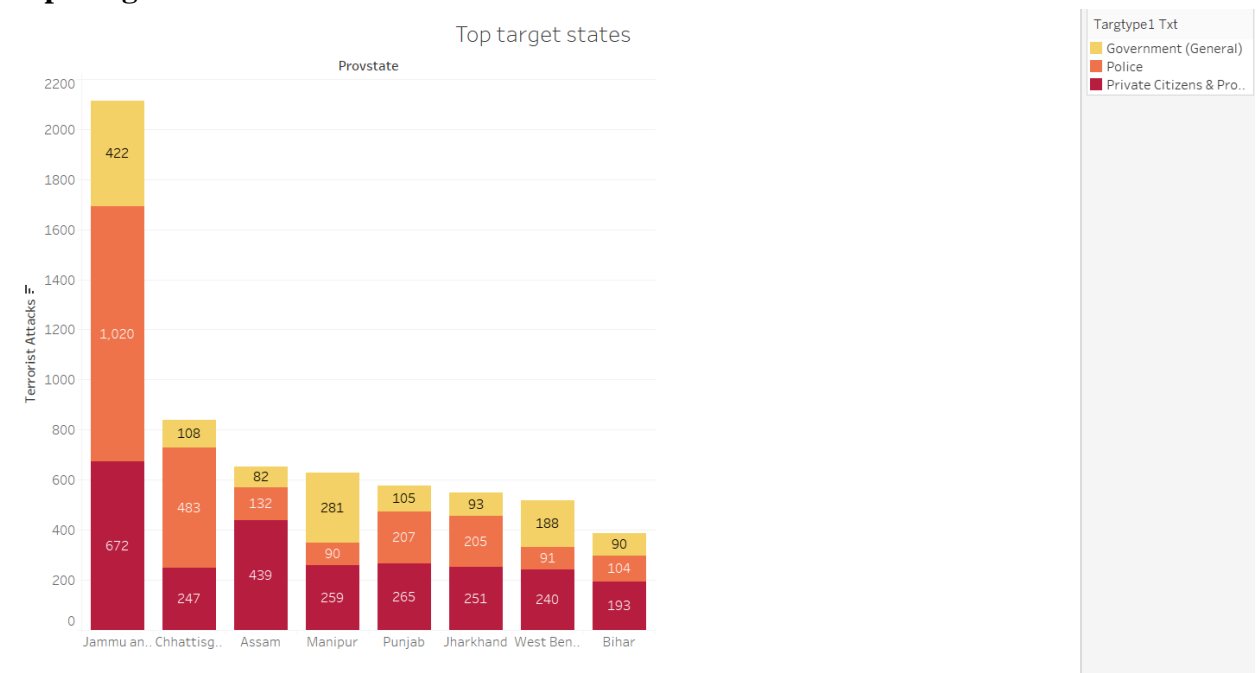
Kashmir Region: The Kashmir region, particularly Jammu and Kashmir, appears to be a hotspot for high-casualty attacks. This aligns with the ongoing conflict in the region.

3. **Targeted Organizations:**

Police and private citizens appear to be the most frequently targeted organizations, suggesting that terrorists aim to instill fear and destabilize society by targeting individuals and law enforcement. Government officials and military personnel are also significant targets, indicating that terrorists seek to undermine the state's authority and capabilities.

4. **Top Target States :**

The top target states for terrorist attacks in India, along with the types of organizations frequently shows that:

Jammu and Kashmir: This state emerges as the most targeted region, with a significant number of attacks directed at government officials, police, and private citizens.

The Indian Govt. must:

-Enhance border security, improving intelligence gathering, and deploying effective law enforcement measures can help prevent and disrupt terrorist activities.

-Fostering dialogue and cooperation between government agencies, civil society organizations, and local communities can help build trust and resilience against terrorism.

Final Dashboard: