

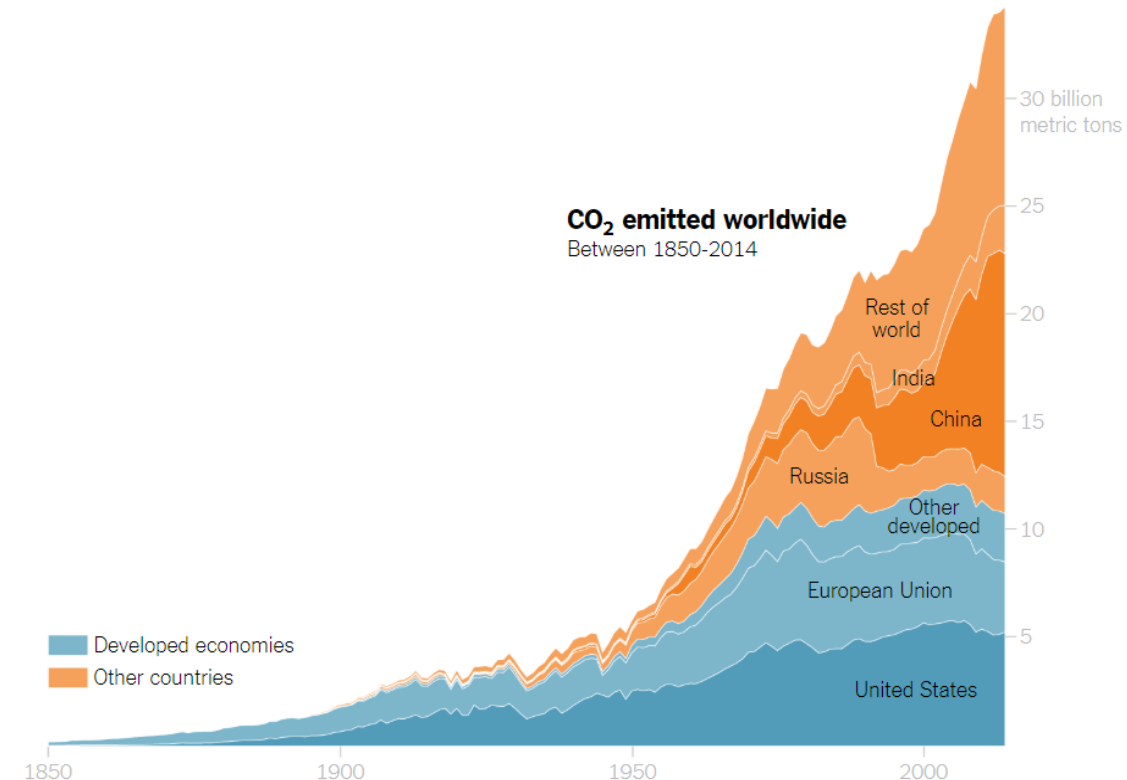
Using OSM to counter Climate Change

Leveraging Open
Data for a
Sustainable Future

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Climate Change

- **Long-term shifts:** Refers to significant and lasting changes in global temperatures and weather patterns.
- **Human-caused:** Primarily driven by the burning of fossil fuels (coal, oil, gas).
Greenhouse gases: Release of gases like carbon dioxide traps heat in the atmosphere.
Rapid warming: Current warming trend is happening at an unprecedented rate. **Global impacts:** Rising temperatures and heatwaves.



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- Changes in rainfall (droughts and floods).
- Sea-level rise.
- Ocean acidification.
- Ecosystem and biodiversity disruption.
- **Significant threats:** Impacts human health, food and water security, infrastructure, and societal well-being.
- **Requires global action:** Needs significant reduction in greenhouse gas emissions.
- **Key solutions:** Transition to renewable energy, improve energy efficiency, protect ecosystems, sustainable practices.
- **Crucial understanding:** Essential for building a resilient and sustainable future.

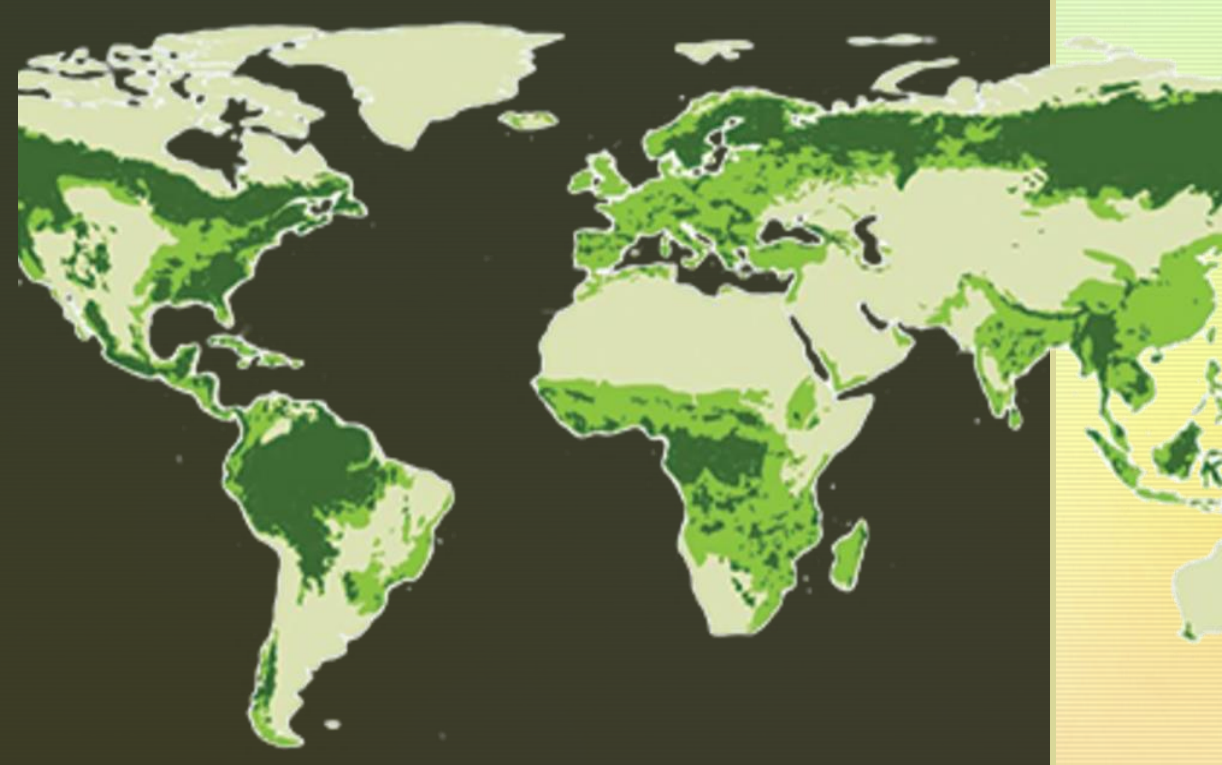
What is OpenStreetMap?

- OpenStreetMap (OSM) is a free, open-source, collaborative mapping platform.
- Anyone can contribute and use the data for various purposes.



How OpenStreetMap Can Help Combat Climate Change

- OSM provides detailed, up-to-date geographic data for climate action.
- Applications:
 - Disaster preparedness
 - urban planning
 - deforestation monitoring
 - renewable energy projects.



Case Study 1 - Disaster Preparedness

- Mapping flood-prone areas to improve emergency response.
- OSM data helps NGOs and governments plan evacuations and resource allocation.



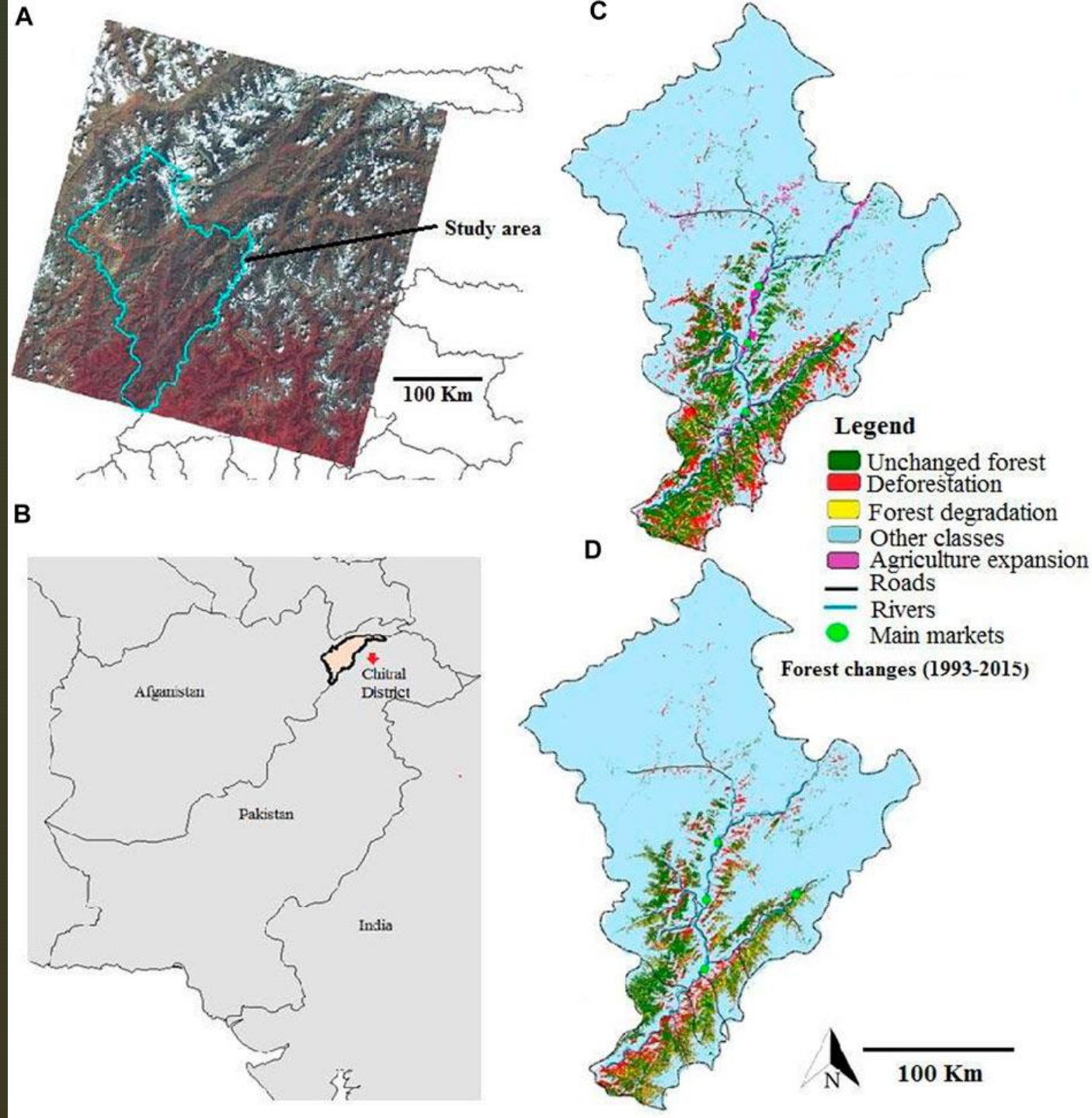
Case Study 2 - Urban Green Spaces

- **Content:**
 - Mapping parks, trees, and green infrastructure to improve urban resilience.
 - Helps cities plan for heatwave mitigation and carbon sequestration.

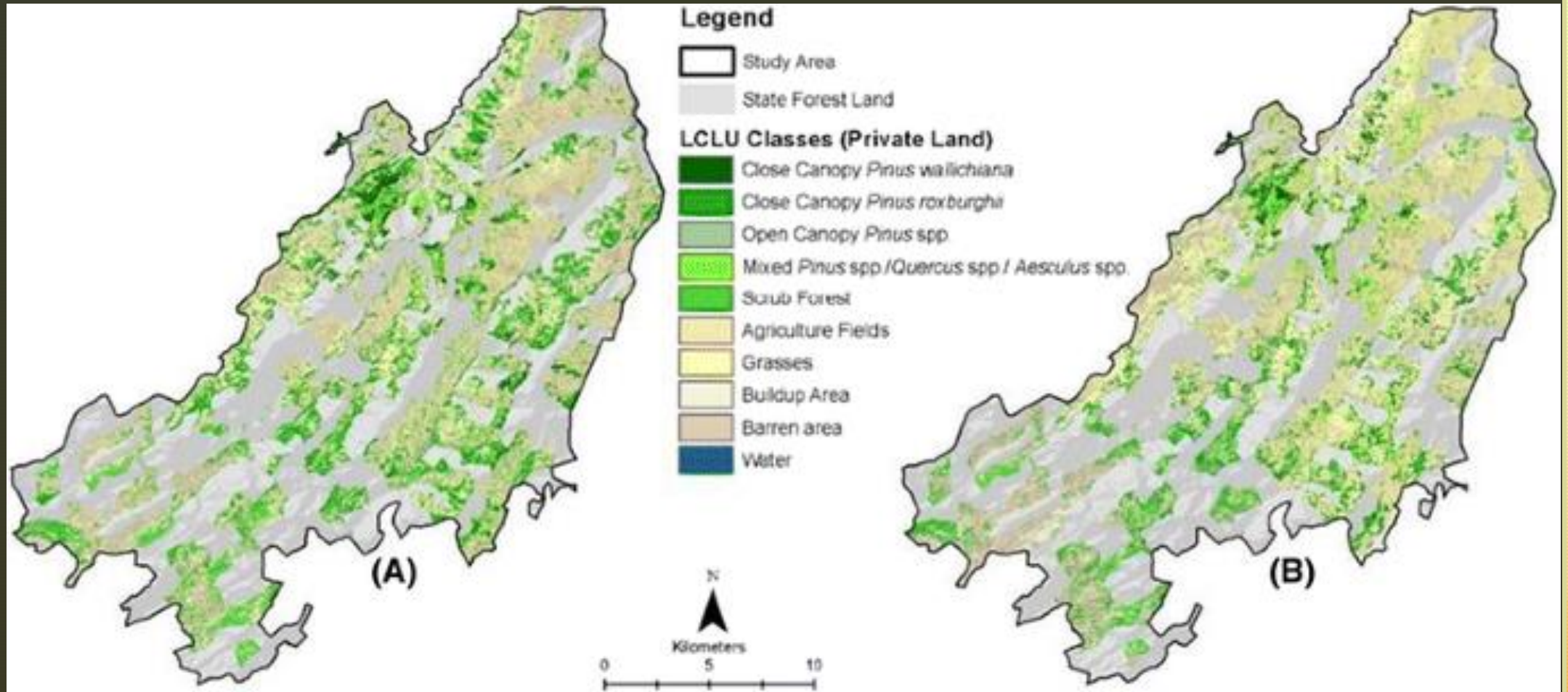


Case Study 3 - Deforestation Monitoring

- OSM data combined with satellite imagery can track deforestation in real-time.
- Enables activists and governments to take action against illegal logging.



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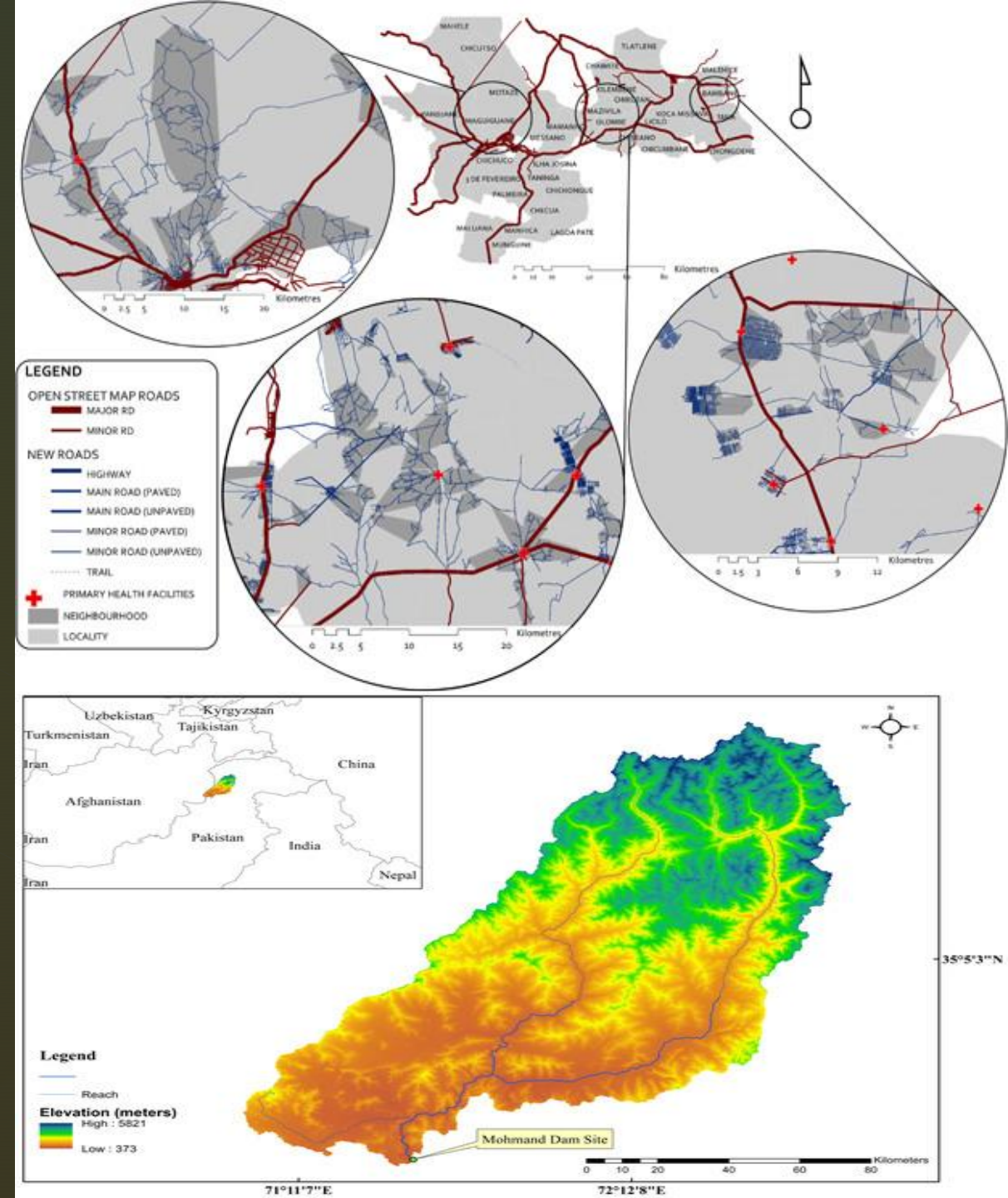
How You Can Contribute

- Anyone can contribute to OSM by adding or editing map data.
- Join mapping initiatives like Missing Maps or local climate-focused projects.



Challenges and Limitations

- Data accuracy and completeness in remote areas.
- Need for more contributors and awareness.
- Integration with other climate data sources.



Conclusion

- OpenStreetMap is a powerful tool for climate action.
- Collaborative mapping can drive meaningful change.
- Call to action: Join the OSM community and contribute to climate resilience.

