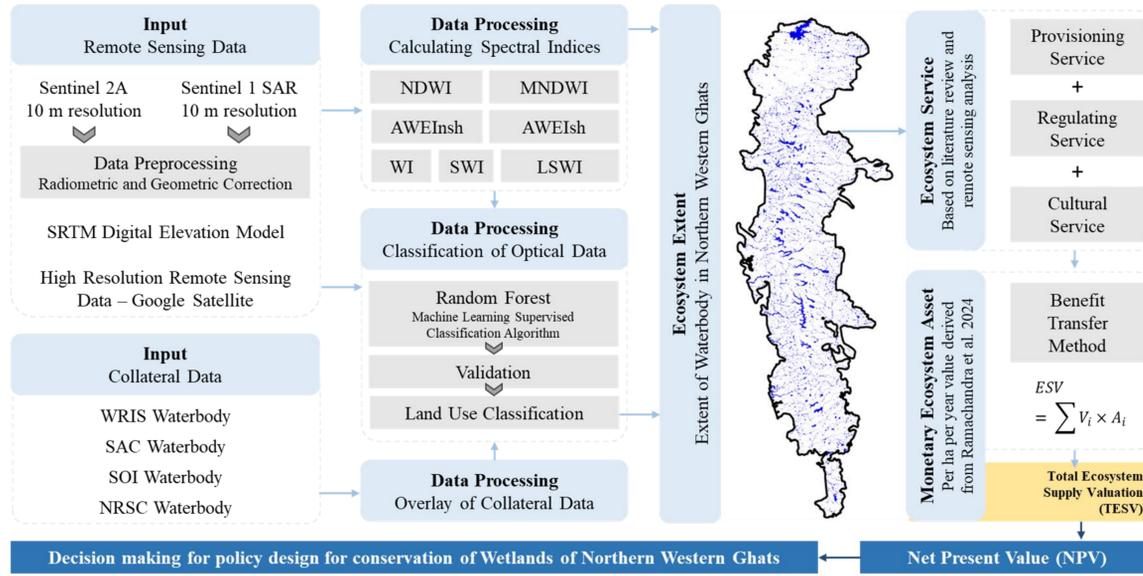
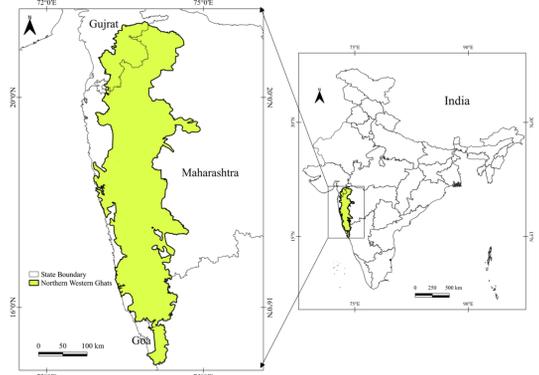


### Ecosystem services

- Wetlands play a crucial role in sustaining human life and promoting well-being by offering a diverse array of ecosystem services.
- Ecosystem goods and services** encompass tangible and intangible advantages that humans derive from ecosystems and their functioning, which hold both direct and indirect value.
- The process of evaluating ecosystem services plays a vital role in establishing the link between the unique attributes of ecosystem assets and the advantages gained by individuals through economic and various other human activities.

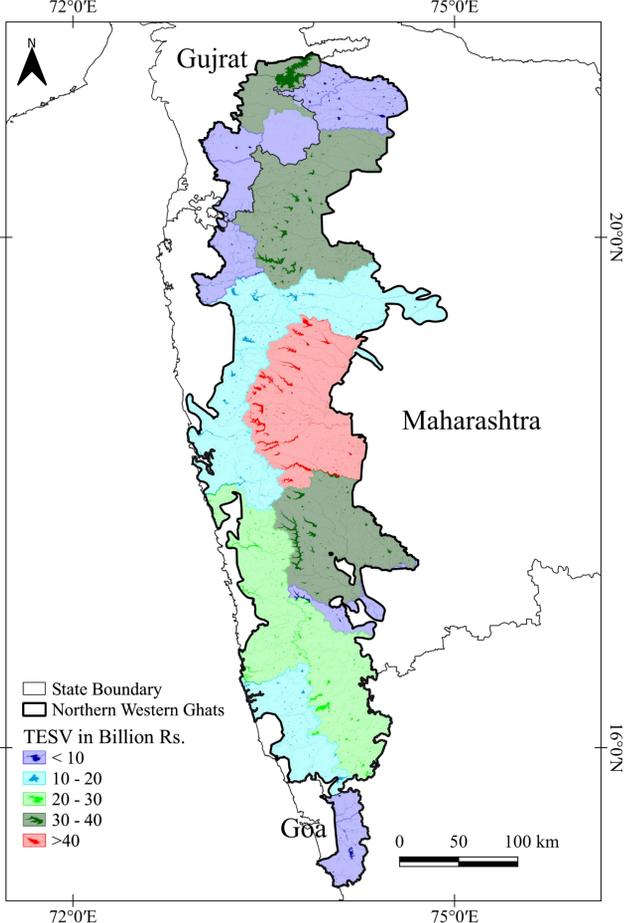
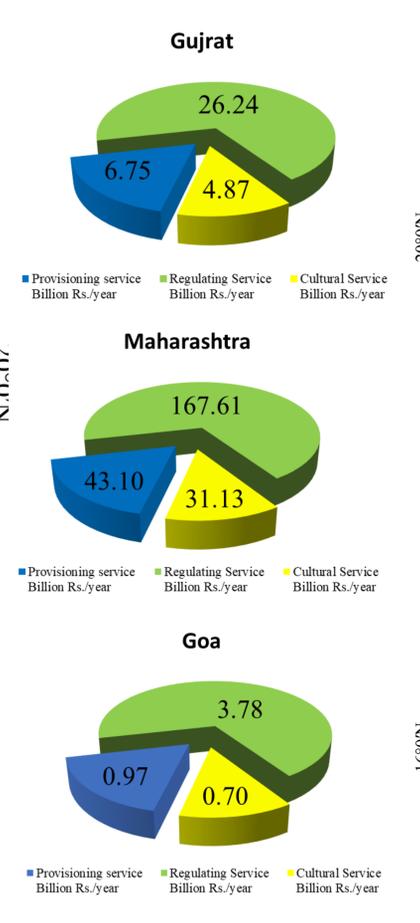
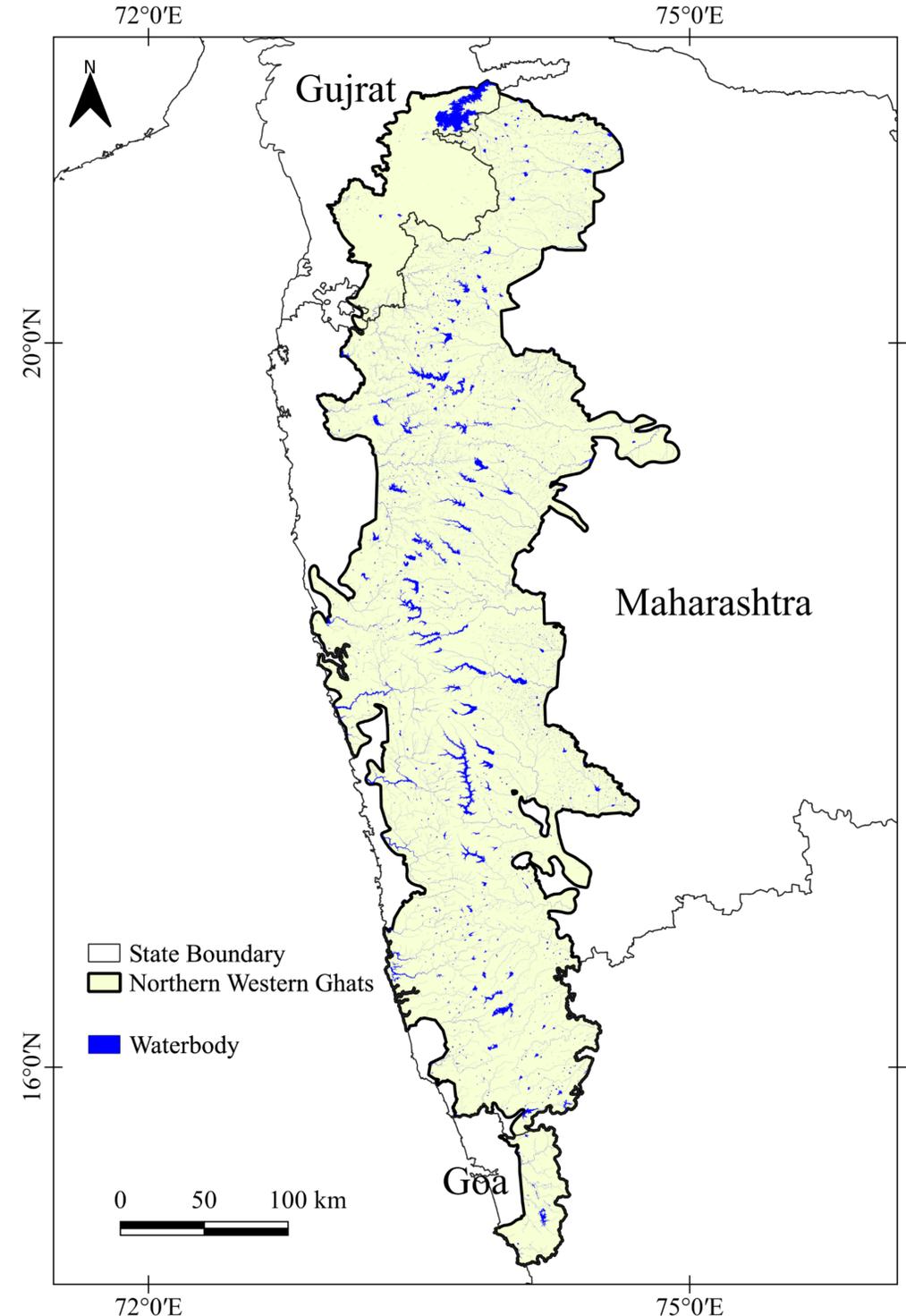
<b>Region</b>	Northern Western Ghats (NWG) or Sahyadri Mountains
<b>Length</b>	750 km
<b>Area</b>	65,000 square kilometers
<b>Location</b>	Parallel to the west coast of Peninsular India, from Gujarat to Goa
<b>Climate</b>	Monsoonal with three seasons: rainy (June-October), winter (November-February), summer (March-May)
<b>Rainfall</b>	600-700 cm during the monsoon
<b>Humidity</b>	Up to 94% during the monsoon
<b>Temperatures</b>	Can reach up to 42°C during the summer



### Objectives

- To assess the spatial extent of wetlands in Northern Western Ghats.
- To assess different indices to map the spatial extent of wetlands.
- Valuation of ecosystem services provided by wetlands in Northern Western Ghats.

State	Gujrat	Maharashtra	Goa	Dadra & Nagar Haveli	Total NWG
Provisioning service million Rs./year	6,747.12	43,099.44	971.99	45.40	50,863.97
Regulating Service million Rs./year	26,238.83	167,608.70	3,779.97	176.56	197,804.06
Cultural Service million Rs./year	4,872.93	31,127.33	701.99	32.79	36,735.04
<b>TESV million Rs./year</b>	<b>37,858.88</b>	<b>241,835.47</b>	<b>5,453.95</b>	<b>254.76</b>	<b>285,403.07</b>
<b>TESV Billion Rs./year</b>	<b>37.858</b>	<b>241.835</b>	<b>5.453</b>	<b>0.254</b>	<b>285.40</b>
<b>NPV Billion Rs.</b>				<b>7343.35</b>	



### Conclusion

- The valuation of ecosystem services underlines the fact that wetlands are highly productive and economically viable ecosystems, and the accounting of ecosystem services provides crucial information for optimal decision-making toward the judicious use of wetland resources.
- Conservation of wetlands requires comprehensive management, including water quality monitoring, biodiversity protection, habitat restoration, pollution control, community engagement, research, and effective governance.

