

FROM
TERAI TO
BUNDELKHAND
A STATE OF
DIVERSE
LANDSCAPES

PEOPLE
PLAINS
RIVERS
RESOURCES
CULTURE
DEVELOPMENT
OPPORTUNITIES

SIMPLIFIED GEOGRAPHY OF UTTAR PRADESH

A COMPREHENSIVE WORK

FOR

ASSISTANT PROFESSOR
AND OTHER STATE EXAMINATIONS

*Where
Rivers, People and
Possibilities
Converge*



PHYSICAL
GEOGRAPHY



WATER
RESOURCES



ENVIRONMENT
& ECOLOGY



AGRICULTURE
& ECONOMY



PEOPLE
& SETTLEMENTS



INFRASTRUCTURE
& DEVELOPMENT



TOURISM
& HERITAGE



DISASTERS
& RESILIENCE

 **TheGeoecologist**

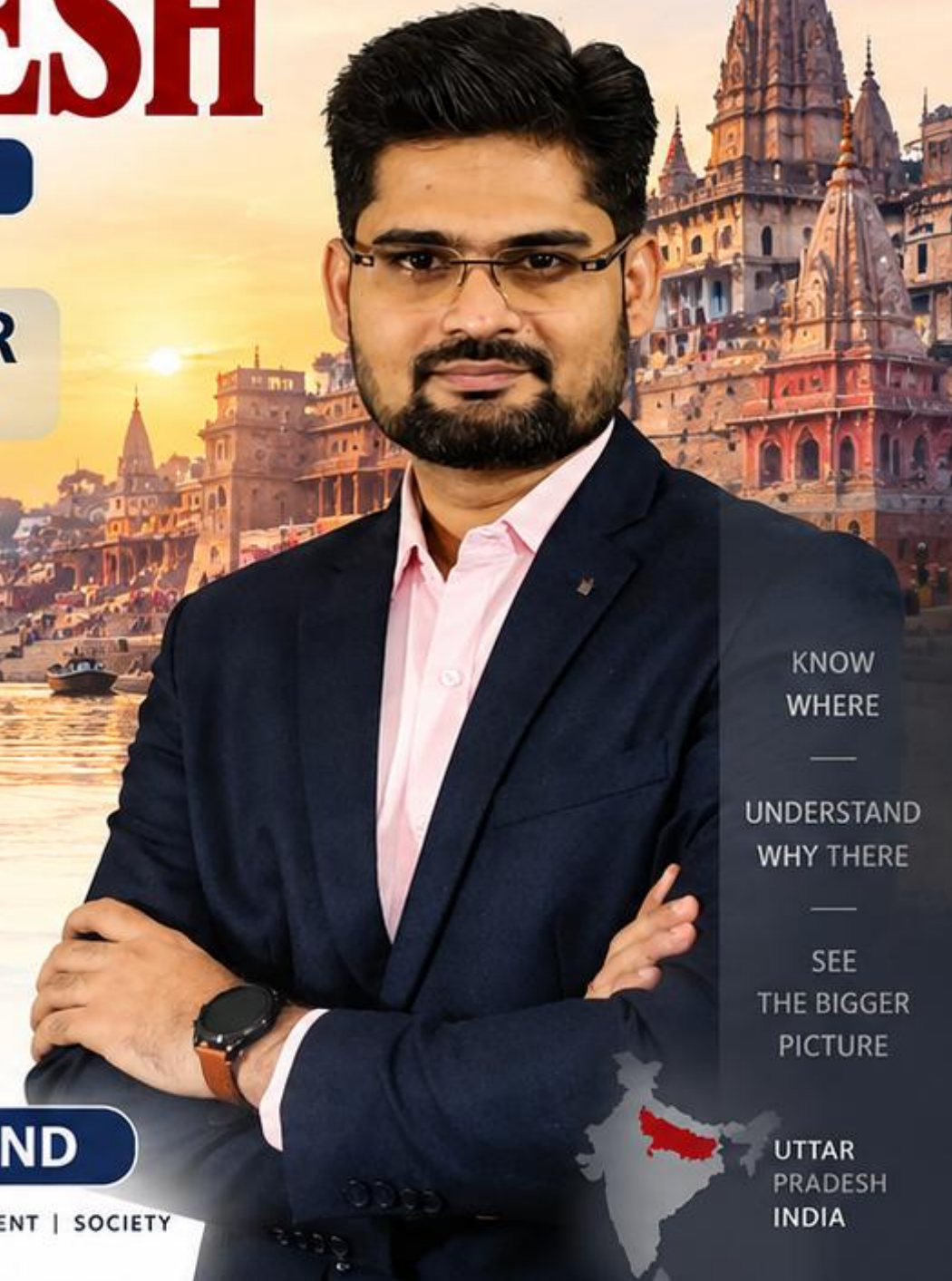
MAPS | CONCEPTS | PLACES | PERSPECTIVE



BASED ON LECTURES BY

DR. KRISHNANAND

GEOGRAPHY | GEOSPATIAL | ENVIRONMENT | SOCIETY



KNOW
WHERE

UNDERSTAND
WHY THERE

SEE
THE BIGGER
PICTURE

UTTAR
PRADESH
INDIA

ABOUT THE AUTHOR

Dr. Krishnanand, Founder and Director of **TheGeoecologist**, is a scholar, educator and researcher in the field of **Geography, Geospatial Studies and Environmental Research**. He graduated from **Shaheed Bhagat Singh College, University of Delhi**, and completed his **Ph.D. from the Department of Geography, Delhi School of Economics, University of Delhi**. He has been actively involved in teaching Geography for **UPSC, State PCS, UGC NET and other competitive examinations**. An avid **field researcher, geographical photographer and visual geography educator**, Dr. Krishnanand approaches landscapes through a spatial, interdisciplinary and applied perspective. His academic interests include **Geomorphology, Geology, Climatology, Hydrology, Environmental Geography, Disaster Geography, Remote Sensing and GIS, Resource Geography, Geodiversity, Geoheritage and Regional Geography**.

Through **TheGeoecologist**, he has developed and delivered extensive **visual and concept-based Geography content**, with a distinctive emphasis on making complex geographical processes easier to understand through **maps, diagrams, spatial models, geospatial analysis and real-world examples**.

Geography of Uttar Pradesh

Geography of Uttar Pradesh is a visually driven and spatially integrated compilation designed for **Assistant Professor, UGC NET, UPPSC, State PCS and other competitive examinations**. The eBook presents Uttar Pradesh through an integrated geographical framework, covering its **geographical setting, geology, physiography, geomorphology, climate, drainage, soils, natural vegetation, biodiversity, population, settlements, agriculture, industries, minerals, transport, tourism, environment, disasters, regional geography and district-wise geography**.

A distinctive feature of the eBook is its emphasis on **maps, thematic diagrams, spatial relationships, regional patterns and geographical synthesis**. Rather than presenting Uttar Pradesh as a collection of isolated facts, the book connects **landforms with rivers, climate with agriculture, resources with industries, transport with regional development, and environmental conditions with disaster vulnerability**.

This eBook is an attempt to transform the geography of Uttar Pradesh from a collection of facts into a connected spatial story; where **geology, mountains, plains, rivers, climate, soils, people, resources, cities and hazards** interact to shape the landscape of the state.

TheGeoecologist is an initiative dedicated to making Geography **visual, conceptual, spatial and applied**—helping learners understand not only **“What?”**, but also **“Where?”**, **“Why there?”** and **“What does it lead to?”**.



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- 2. GEOLOGY, TECTONIC STRUCTURE & GANGA FORELAND BASIN EVOLUTION**
- 3. DRAINAGE SYSTEM, RIVER BASINS & FLUVIAL GEOMORPHOLOGY**
- 4. CLIMATE, MONSOON, PRECIPITATION & REGIONAL CLIMATIC VARIATION**
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- 10. MINERAL RESOURCES, ENERGY & INDUSTRIAL GEOGRAPHY**
- 11. IRRIGATION, GROUNDWATER RESOURCES & WATER SECURITY**
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- 13. TRANSPORT, EXPRESSWAYS, LOGISTICS & STRATEGIC INFRASTRUCTURE**
- 14. URBANISATION, INDUSTRIAL CORRIDORS & REGIONAL DEVELOPMENT**
- 15. ENVIRONMENTAL DEGRADATION, POLLUTION & CLIMATE CHANGE**
- 16. NATURAL HAZARDS: FLOODS, DROUGHTS, HEAT WAVES, EARTHQUAKES & EXTREME WEATHER**
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- 19. REGIONAL & DISTRICT GEOGRAPHY OF UTTAR PRADESH**
- 20. UTTAR PRADESH THROUGH MAPS: PHYSICAL, HUMAN, ECONOMIC & ENVIRONMENTAL ATLAS**

Welcome to the digital realm of **Geography of Uttar Pradesh**, a comprehensive eBook designed to present the geography of Uttar Pradesh in a clear, systematic and visually engaging format. This work has been developed to transform the complex geographical character of India's most populous state into an accessible resource for **Assistant Professor, UGC NET, UPPSC, State PCS and other competitive examinations**.

The eBook brings together the major dimensions of Uttar Pradesh's geography—from its **territorial extent, geology, physiography and drainage to climate, soils, forests, biodiversity, agriculture, population, settlements, industries, water resources, transport, tourism, environment and natural hazards**. The content is organized around the fundamental geographical principle that the physical landscape of Uttar Pradesh strongly influences its human, economic and environmental geography. A distinctive feature of this book is its emphasis on **maps, diagrams, spatial models and geographical visualization**. Complex concepts such as **Ganga Foreland Basin evolution, alluvial geomorphology, Bhabar–Terai–Bangar–Khadar differentiation, river systems, groundwater stress, agricultural regionalisation, industrial clusters, transport corridors and disaster vulnerability** have been presented through visual representations to facilitate quicker understanding, revision and recall. The book repeatedly connects geographical concepts with specific landscapes, regions and districts of Uttar Pradesh.

The book also moves beyond conventional descriptive regional geography by examining contemporary geographical challenges. **Groundwater depletion, river pollution, floods, droughts, heat waves, air pollution, urban expansion, climate change, environmental degradation, disaster vulnerability and the pressures of rapid infrastructure development** are approached as interconnected geographical processes rather than isolated topics.

This eBook is intended not merely as a collection of facts, but as a **connected geographical narrative**. From the **Terai and Himalayan foothill transition in the north to the vast Ganga–Yamuna alluvial plains, and from the densely populated eastern plains to the hard-rock landscapes of Bundelkhand and the Vindhyan terrain of southern Uttar Pradesh**, every region reflects a distinct relationship between **relief, geology, climate, water, resources, society and development**. The Regional and District Geography section further brings these relationships together at the local and regional scales.

The **Map Atlas** further strengthens this spatial approach by bringing together the physical, human, economic, environmental and district-level patterns of the state. It is designed to help learners move from simply locating a feature on a map to understanding **why it occurs there, what processes control its distribution, and how it is connected with other geographical phenomena**.

It is hoped that this work will help **Assistant Professor aspirants, UGC NET and UPPSC candidates, State PCS aspirants, Geography students, researchers and all those interested in the geography of Uttar Pradesh** to develop a deeper, more analytical and spatial understanding of the state.

Geography is not merely about knowing places; it is about understanding why places are the way they are; and how the interaction of physical and human processes continuously transforms them.

Dr. Krishnanand

Geography of Uttar Pradesh

—— For Assistant Professor and Other State Exams ——

*People
Rivers
Heritage
Possibilities*

From
Terai to Bundelkhand
A State of
Diverse Landscapes

○ Lucknow

○ Prayagraj

Varanasi ○

 **TheGeoecologist**

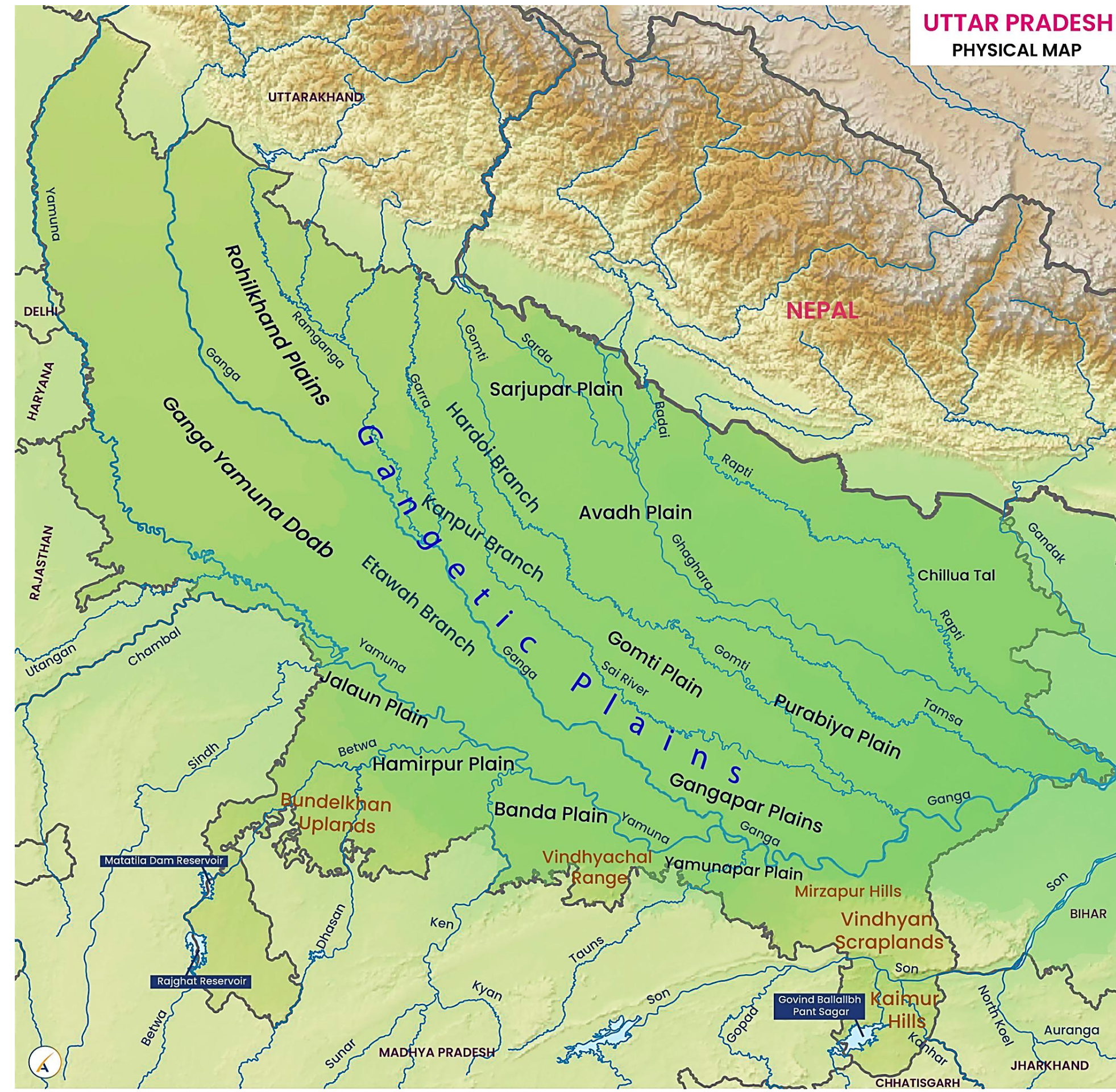
MAPS | CONCEPTS | PLACES | PERSPECTIVES



GEOGRAPHY OF UTTAR PRADESH



UTTAR PRADESH
PHYSICAL MAP



PART I

PHYSICAL GEOGRAPHY OF

UTTAR PRADESH

The Geospatial Architecture of Uttar Pradesh

Core Concept

Uttar Pradesh is predominantly an Indo-Gangetic alluvial state, but its physical geography extends from the Himalayan foothill environment to the ancient Peninsular terrain.

Landscape Equation:

Geological Inheritance
+
Himalayan Sedimentation
+
Fluvial Processes
+
Monsoon Dynamics
+
Human Modification

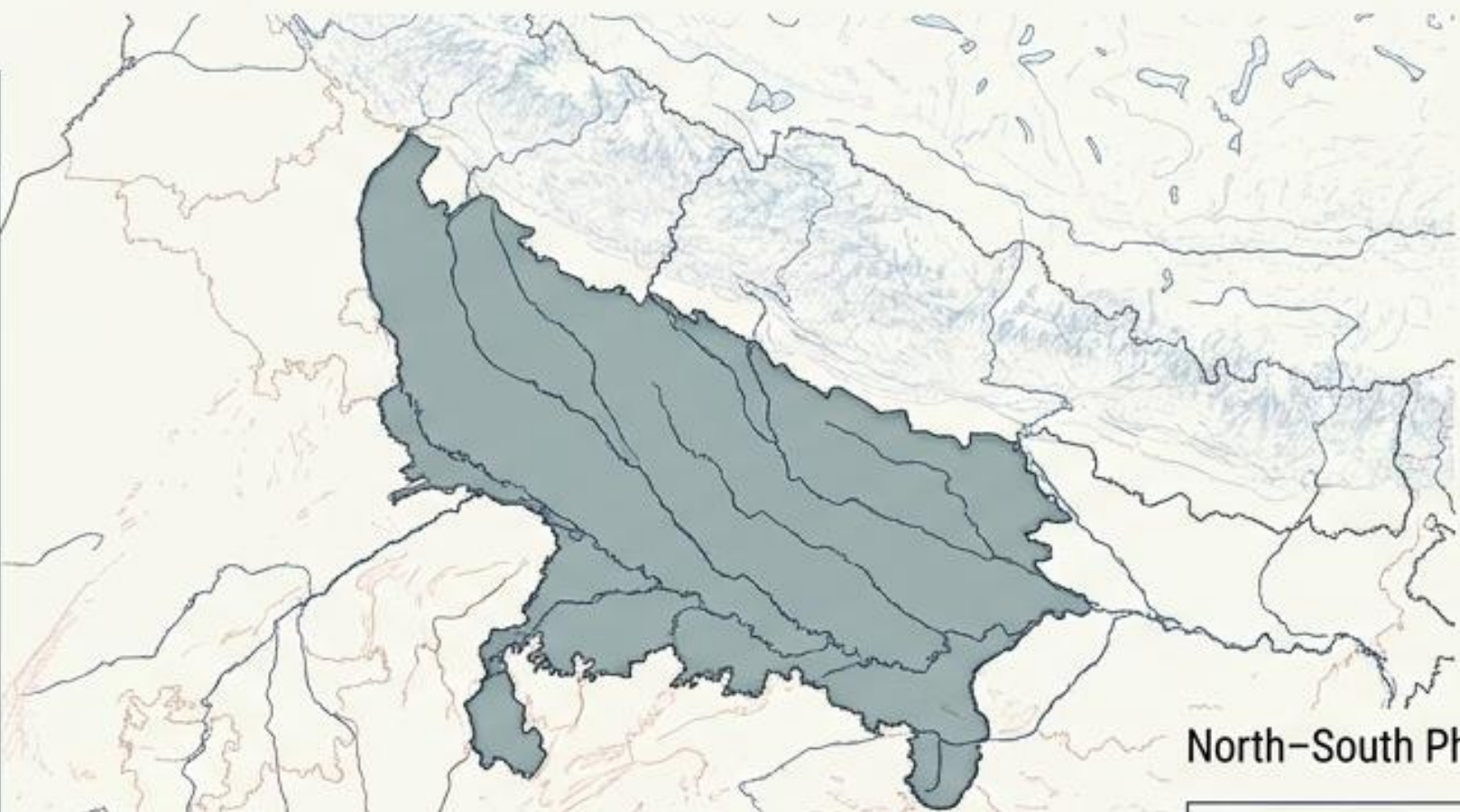
Key Facts

Area: 2,40,928 km²
(Survey of India: 2,40,927.56 km²)

Administrative divisions: 18

Districts: 75

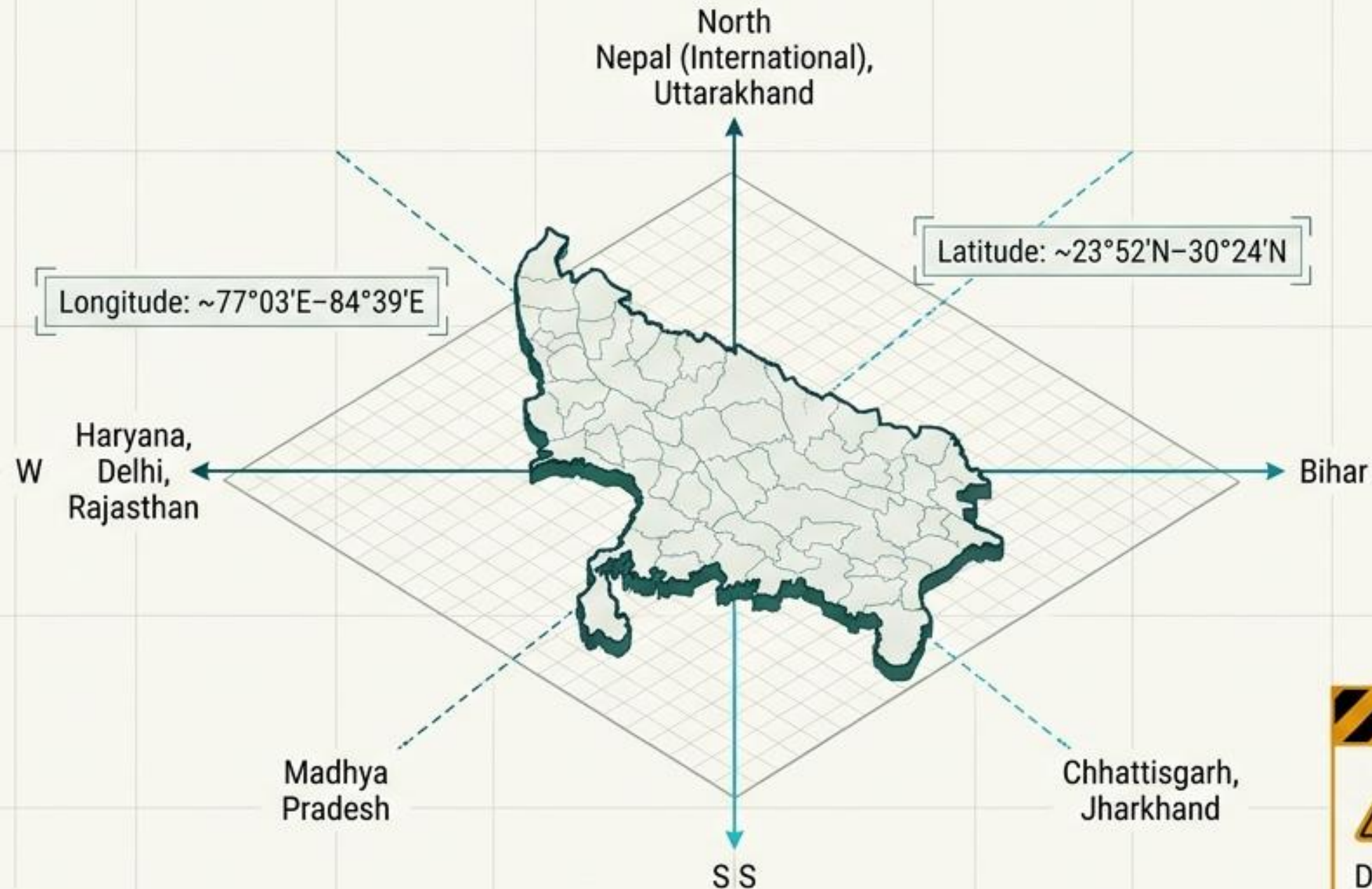
International boundary: Nepal



North-South Physical Sequence



Spatial Extent and Geopolitical Boundaries



Map-Based Learning Pathway

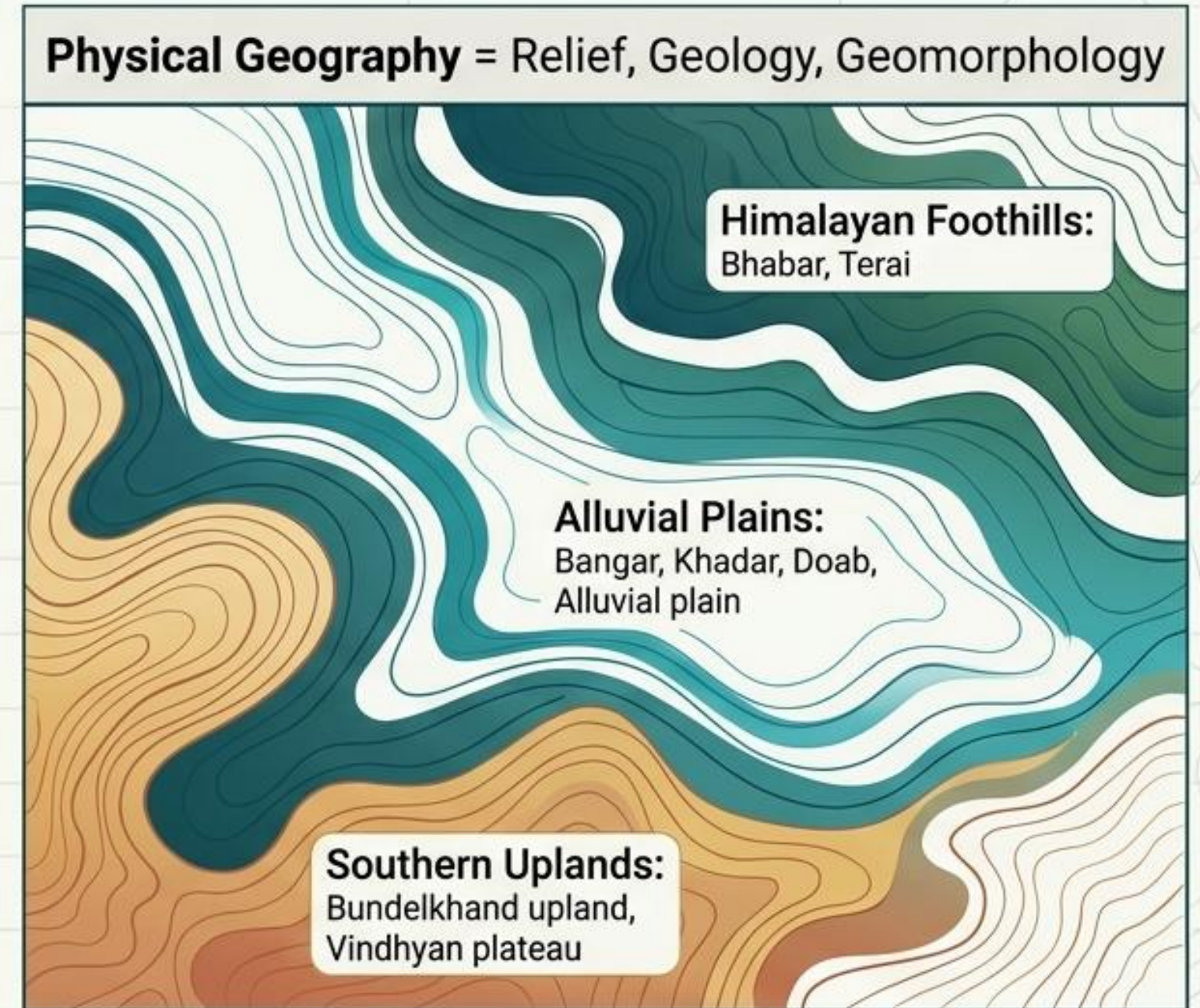
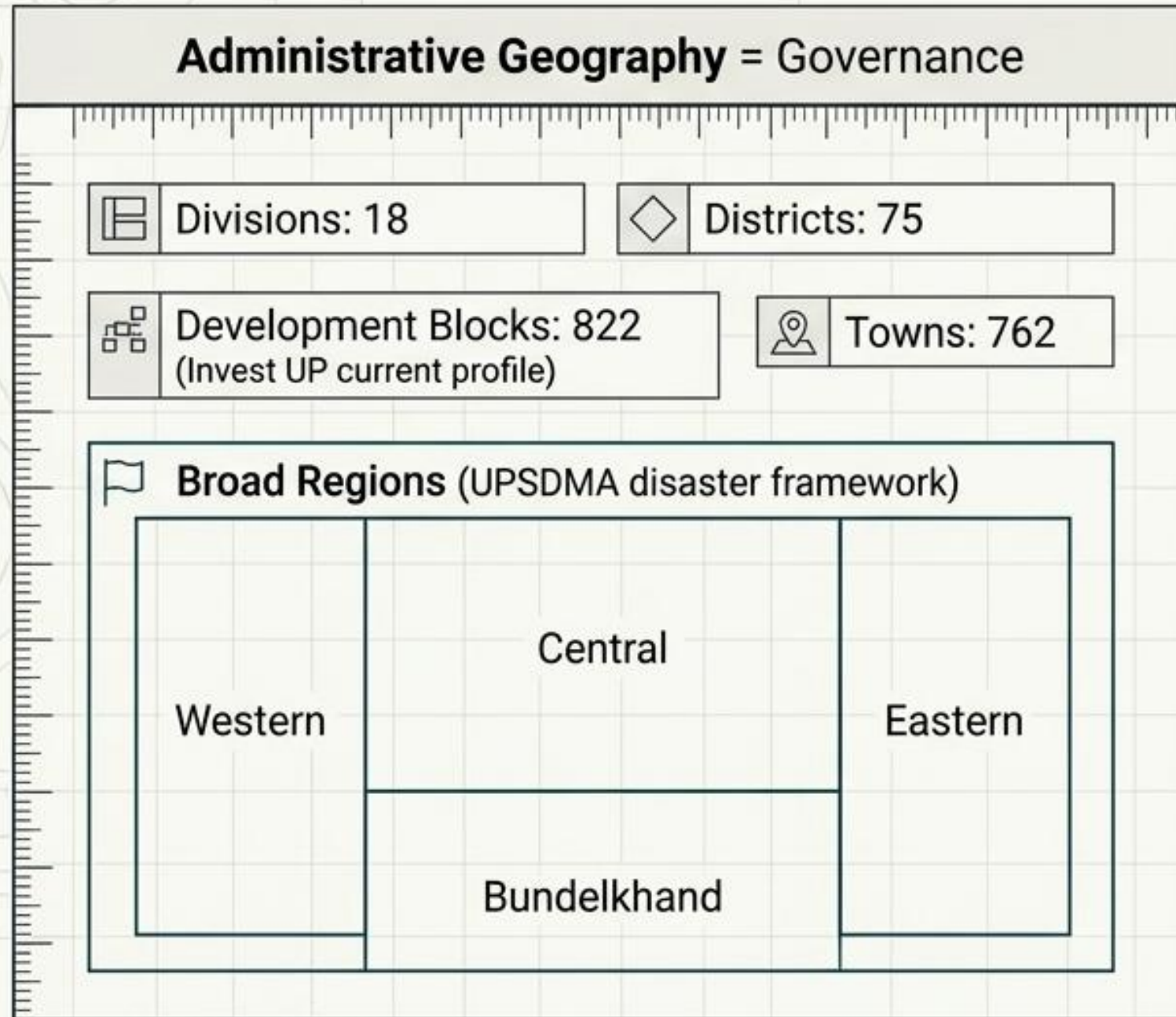


Exam Trap:

Do not state that the entire southern UP is the 'Vindhyan Plateau'.

Bundelkhand and Vindhyan terrains are related but geographically and geologically distinguishable units.

Disentangling Frameworks: Administration vs. Physiography



Administrative regions define governance boundaries; Physiographic regions define relief and earth processes; Climatic regions define atmospheric characteristics. Do not conflate them.