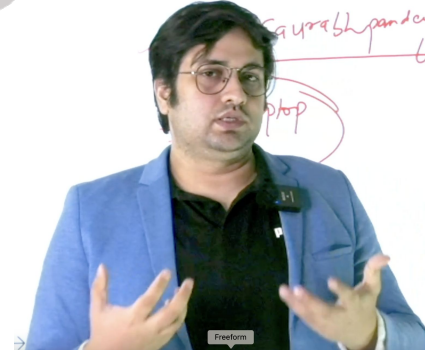


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- BPaLM Regimen
- Importance of Quad Grouping: USA, India, Japan, Australia
- Different Zones in Tiger Area
- Ecological Impact of Tourism in Jammu and Kashmir
- Technical Textile
- Typhoons formation / Naming
- Madeira River
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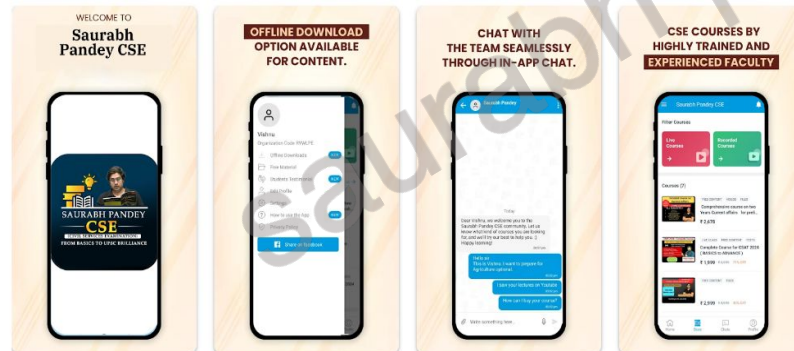
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Topic- BPaLM Regimen

BPaLM: New treatment regimen for *drug-resistant tuberculosis (TB)*.

Approval: Recently approved by health ministries in various countries.

Features:

Shorter treatment duration (6 months).

Improved efficacy compared to traditional regimens.

Aimed at meeting global TB elimination goals.

Topic-Importance of Quad Grouping: USA, India, Japan, Australia



The Quad (Quadrilateral Security Dialogue) involves four nations:

USA  India  Japan  Australia 

Focus on Indo-Pacific security, economic cooperation, and shared democratic values.

Strategic Partnership: Strengthening cooperation against challenges from China.

Maritime Security: Cooperative efforts to ensure safety in Indo-Pacific waters.

Economic Ties: Enhancing trade and investment among member countries.

Crisis Response: Joint humanitarian and disaster relief operations.

Key Areas of Importance



Security Cooperation:

Military Exercises: Joint drills to enhance interoperability.

Intelligence Sharing: Strengthening surveillance and reconnaissance capabilities.

Economic Growth:

Supply Chain Resilience: Reducing dependency on China.

Technology Collaboration: Advancing innovation in critical sectors.

Global Governance:

Climate Change Initiatives: Collaborative efforts for sustainable practices.

Health Security: Joint response to pandemics and health crises.

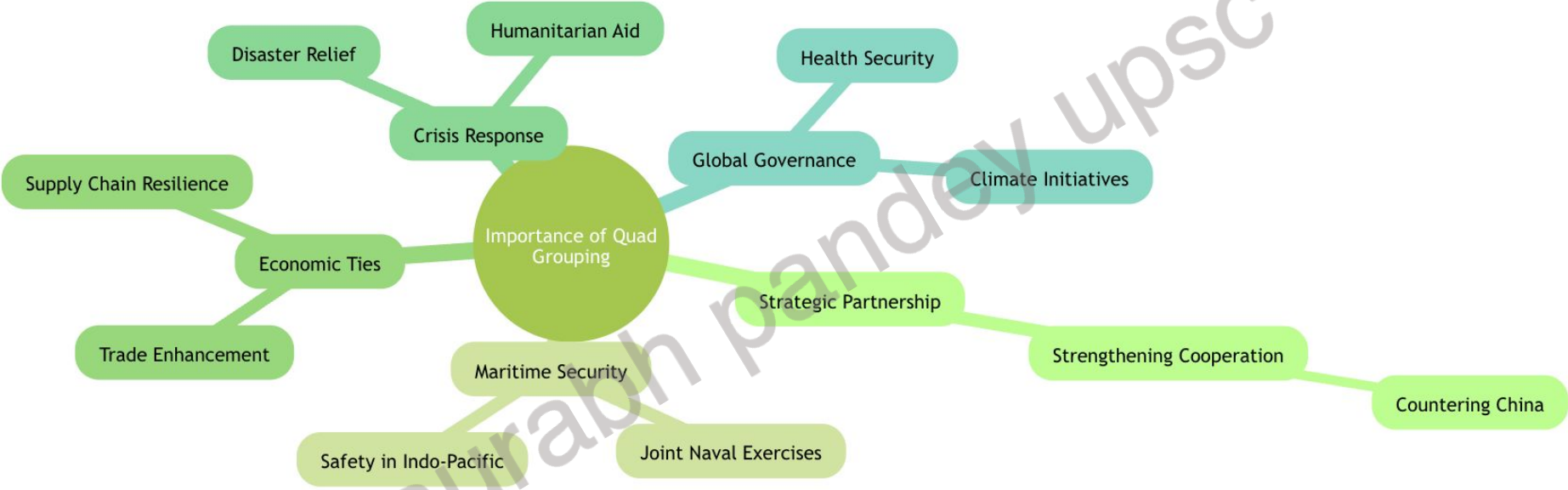


figure 1 2: image

Topic- Different Zones in Tiger Area



Overview of Tiger Zones

Habitat Diversity 

Conservation Efforts 

Ecological Importance 

Tourism Impact 

Legal Framework 

Establishment under the Wildlife Protection Act, 1972.

Government Initiative 

Part of the Project Tiger initiative launched in 1973.

Key Zones in Tiger Areas

Core Zone

Protected habitat for tigers

Minimal human interference

Buffer Zone

Surrounding areas with controlled access

Allows for some human activities

Tourism Zone

Designed for eco-tourism

Safaris and guided tours

Migration Corridor

Pathways for tiger movement

Essential for genetic diversity

Conservation Strategies

Satellite Monitoring

Use of technology to track tiger movements

Assessing habitat changes

Community Involvement

Local participation in conservation efforts

Education and awareness programs

Legal Protection

Enforcing laws to protect tiger habitats

Regulating tourism activities

Recent Developments

SC Nod for Safaris

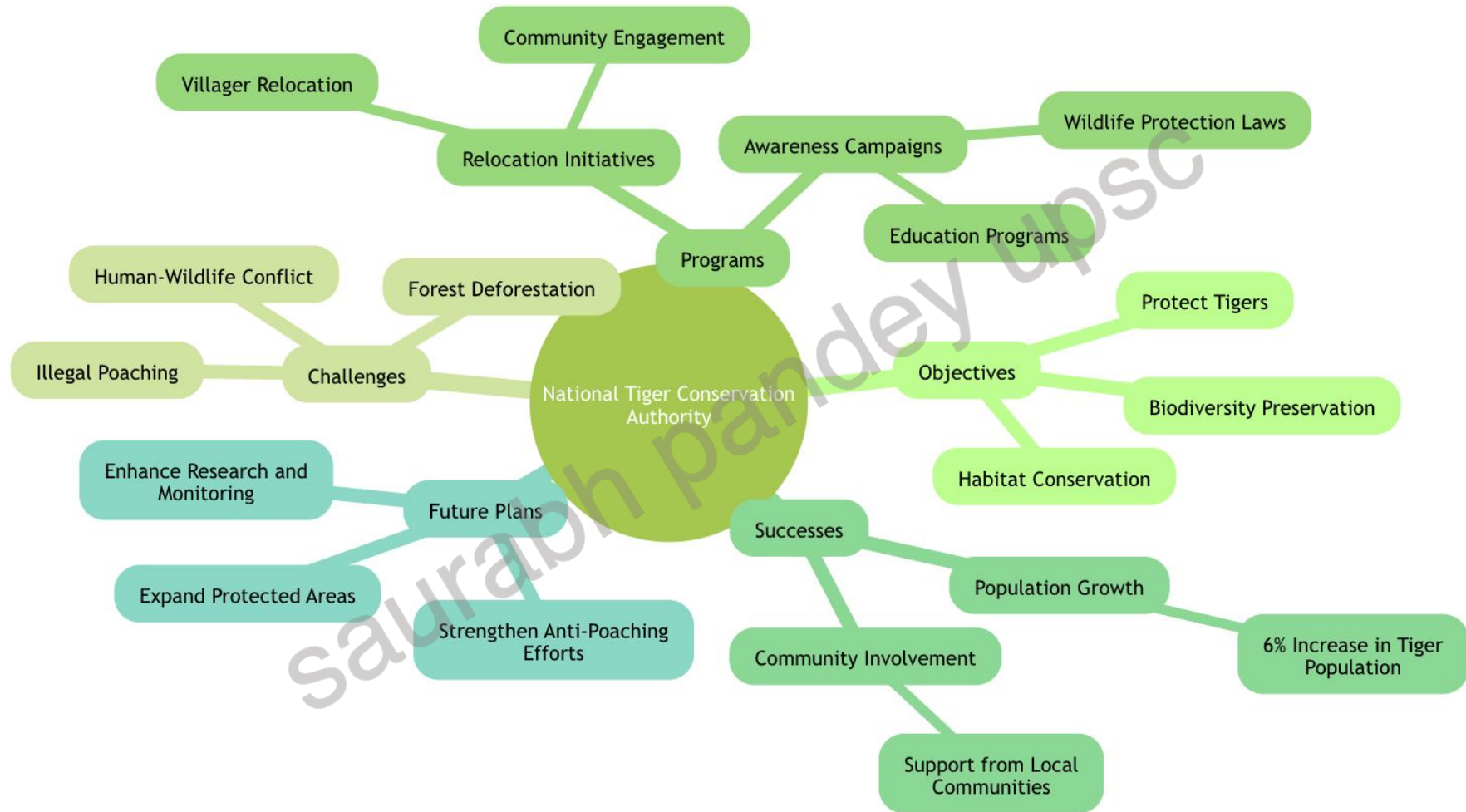
Legal permissions for safaris in buffer zones

Balance between tourism and conservation

Ecological Concerns

Potential impacts of increased tourism

Need for sustainable practices





Topic- Ecological Impact of Tourism in Jammu and Kashmir

Overview

Increased Tourism: Uncontrolled surge in visitors.

Ecological Disturbances: Strain on fragile ecosystems.

Waste Management Issues: Pollution in water bodies.

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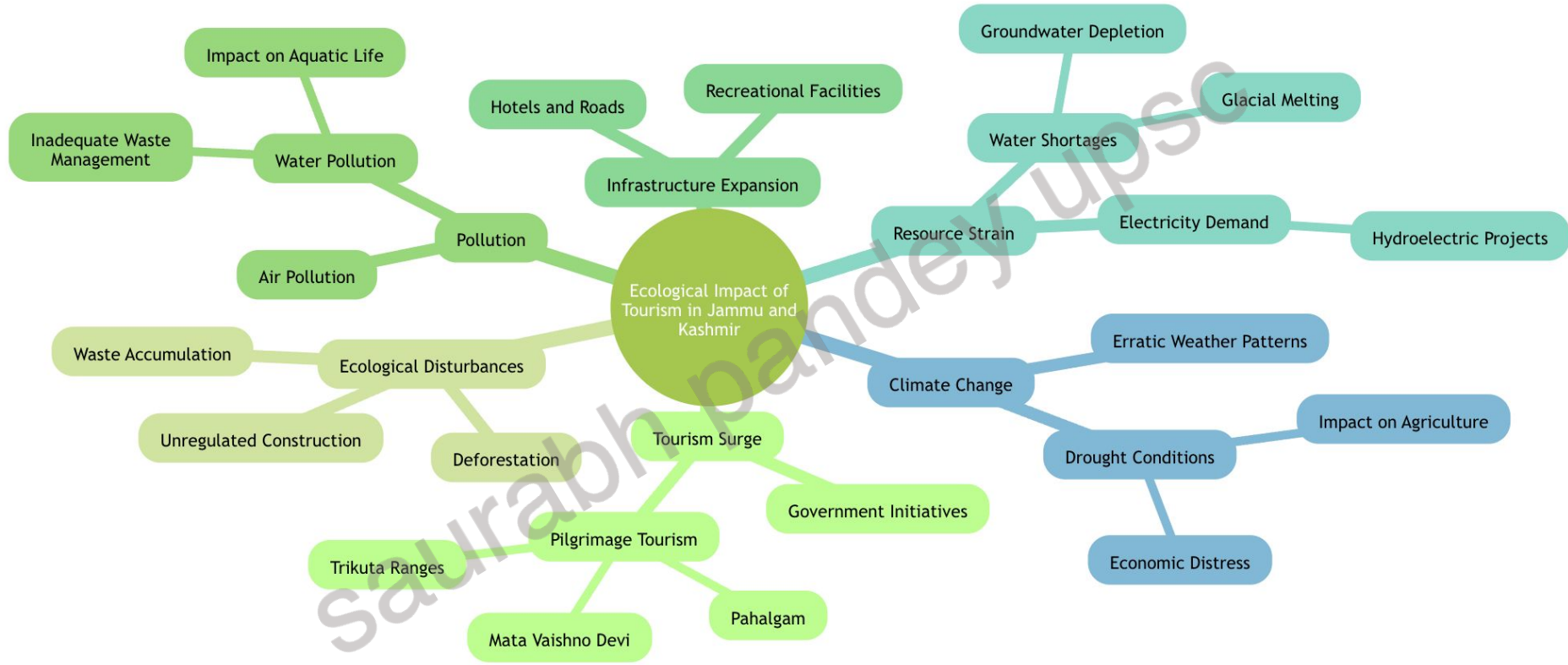


Figure 10.10.1

Fragile Region: Jammu and Kashmir

Overview

Natural Disasters

Earthquakes

Floods

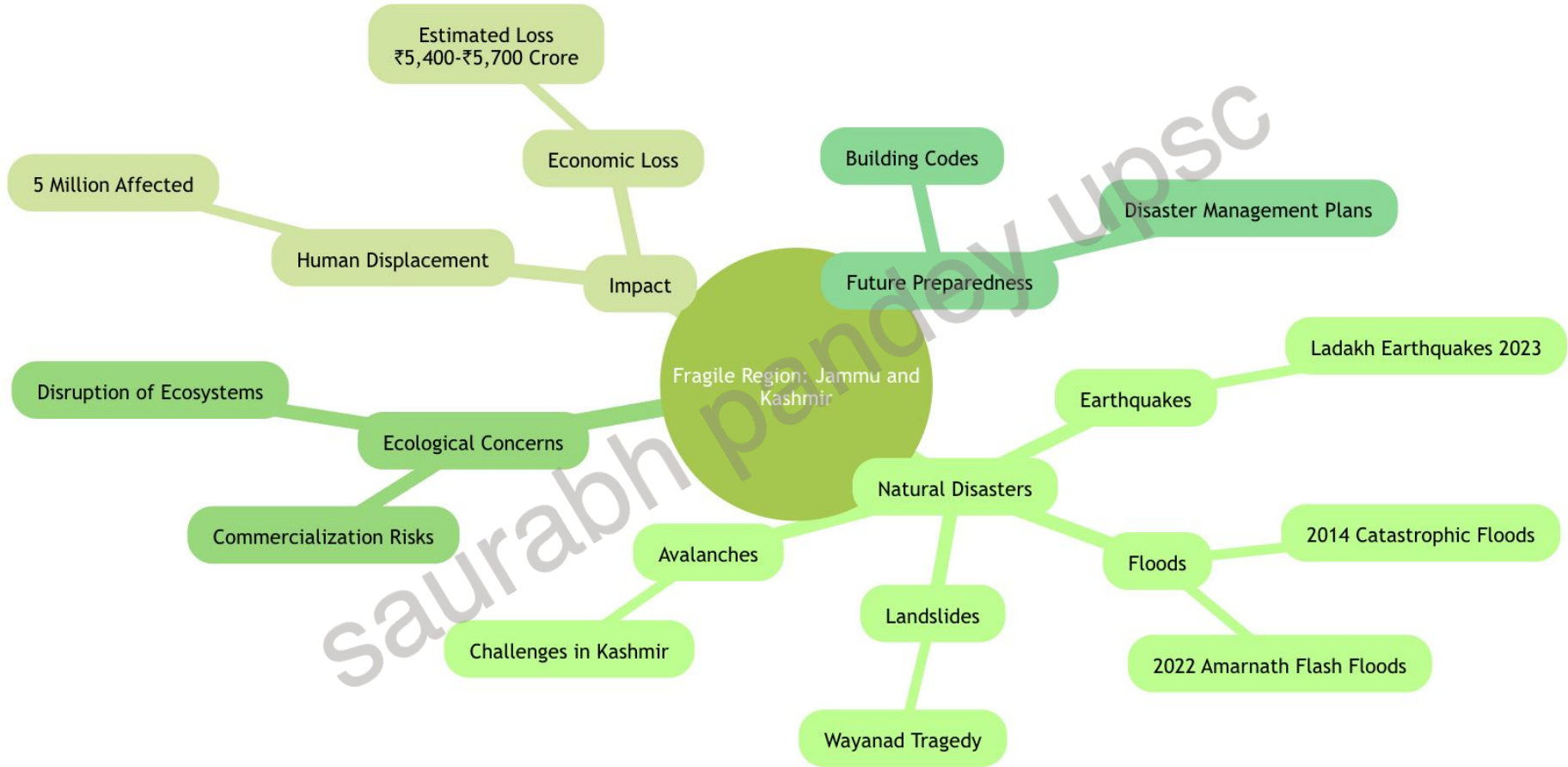
Landslides

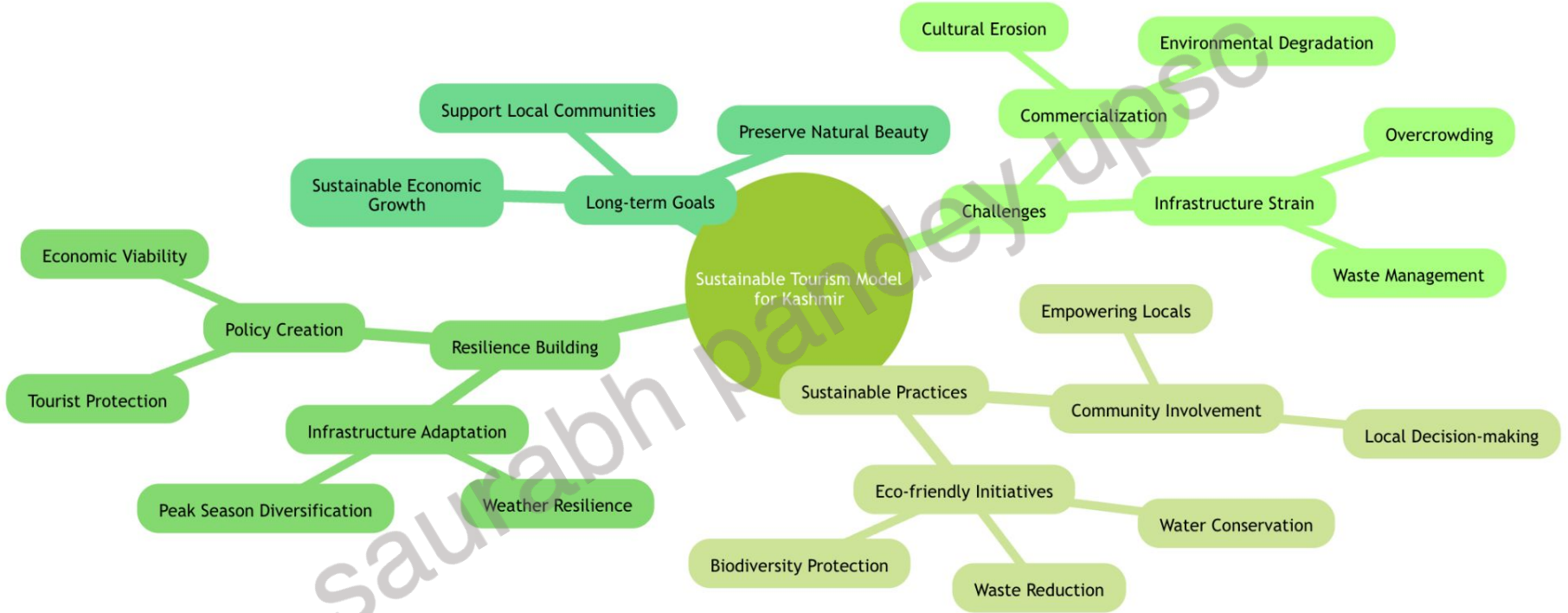
Avalanches

Seismic Activity

Region's vulnerability

Historical events





Topic- Technical Textile



Overview

Definition: Specialized textiles designed for specific performance characteristics.

Applications: Construction, automotive, medical, agriculture, and more.

Market Growth: Expected to exceed \$10 billion in exports by 2030.

Technical textiles are engineered for performance rather than aesthetics.

Major growth areas include sustainable materials and smart textiles.





Topic- Typhoons formation / Naming

Typhoons, also known as hurricanes or cyclones depending on their location, are powerful tropical storms that form over warm ocean waters. Here's a step-by-step explanation of how they are formed:

Warm Ocean Waters: Typhoons typically form over warm ocean waters, usually at temperatures of at least 26.5 degrees Celsius (about 80 degrees Fahrenheit). This warmth provides the energy needed for the storm.

Moisture and Humidity: The warm water causes the air above it to heat up and rise, creating an area of low pressure. As the air rises, it cools and condenses, forming clouds and releasing latent heat, which further fuels the storm.

Coriolis Effect: The rotation of the Earth causes the Coriolis effect, which helps the storm to spin. In the Northern Hemisphere, this causes the storm to rotate counterclockwise, while in the Southern Hemisphere, it rotates clockwise.

- **Low Wind Shear:** For a typhoon to develop, there must be low vertical wind shear, meaning that the wind speed and direction do not change much with altitude. High wind shear can disrupt the storm's structure.



Organization and Intensification: As the storm continues to draw energy from the warm ocean, it becomes more organized. The central area of low pressure deepens, and the storm's winds increase, leading to the formation of a well-defined eye in stronger storms.



Movement and Landfall: Typhoons are steered by prevailing winds and can travel vast distances. When they make landfall, they can cause significant damage due to high winds, heavy rainfall, and storm surges.

Understanding these conditions helps meteorologists predict the formation and path of typhoons, allowing for better preparation and response to these powerful natural phenomena.

What Are Typhoons?



Understanding Typhoons

Definition: Typhoons are a type of *tropical cyclone* that occurs in the Northwest Pacific Ocean.

Formation: They form over warm ocean waters, typically between 5° and 20° latitude.

Characteristics: Strong winds, heavy rain, and a defined eye.

Categories: Classified by wind speed (Tropical Storm, Typhoon, Super Typhoon).

Impact of Climate Change

Intensity: Climate change is leading to more intense storms.

Frequency: Increased ocean temperatures contribute to higher typhoon occurrences.



Typhoon Effects

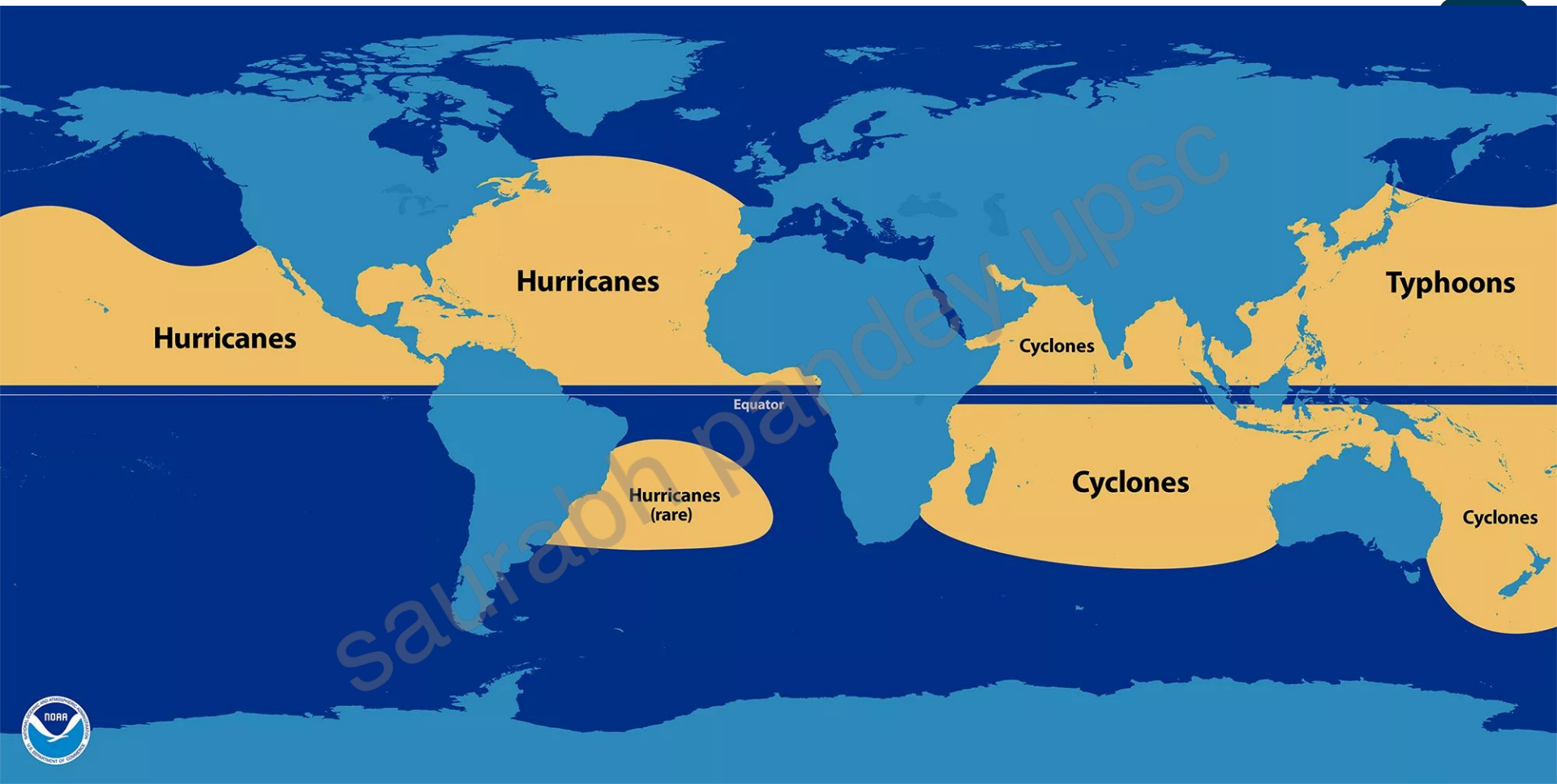
Destruction: Can cause severe damage to infrastructure and ecosystems.

Evacuations: Governments often evacuate areas prone to typhoons.

Economic Impact: Significant costs due to damages and recovery efforts.

Recent Typhoon Example

Super Typhoon Yagi: A recent powerful typhoon that impacted China, resulting in evacuations and severe damage



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Naming of the Hurricane / Typhoons



- **The names were chosen through committees that include national meteorological services in the region those storms could affect, according to the WMO.**
 - **"It is important to note that tropical cyclones/hurricanes are named neither after any particular person, nor with any preference in alphabetical sequence," the WMO said.**
 - **"The tropical cyclone/hurricane names selected are those that are familiar to the people in each region."**
-

-
- When picking a name, the WMO says they aim for names that are short in character length for ease of use in communication, easy to pronounce, carry appropriate significance in different languages used in the region and should not be a name used in other regions.
 - "In addition, English, French and Spanish names are used in balance on the list in order to reflect the geographical coverage of Atlantic and Caribbean storms,
-

Topic - Madeira River



Overview

The Madeira River is a major tributary of the Amazon River, located in South America.

It plays a crucial role in navigation, ecosystems, and local economies.

Key Themes

Navigation: Impact of drought on river navigation.

Technology: Role of technologies like Starlink in remote areas.

Ecosystem: Effects of hydropower plants on biodiversity.

Climate Change: Drought and its consequences on river levels. ———

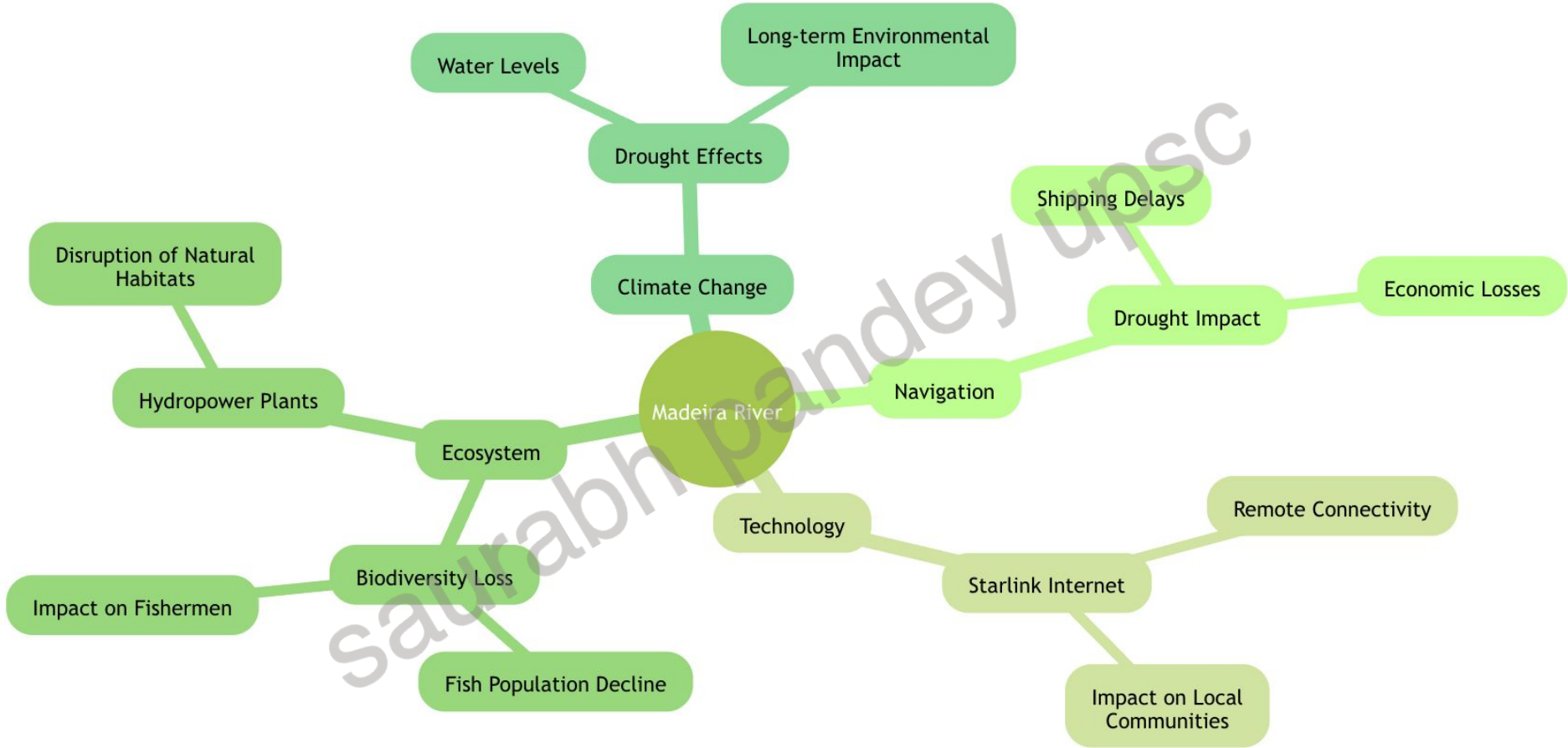


Figure 12: Image

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