



@ Kishor Atreya

**NEPAL**

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**DOTI**

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**NDPBA SUBNATIONAL PROFILE**

# NEPAL

## DOTI

Area: 2,025 km<sup>2</sup>



### RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) - Very High**  
Score: 0.623 • Rank: 10/77



**RESILIENCE (R) - Very Low**  
Score: 0.313 • Rank: 69/77



**MULTI-HAZARD EXPOSURE (MHE) - Low**  
Score: 0.496 • Rank: 47/77



**VULNERABILITY (V) - Very High**  
Score: 0.698 • Rank: 7/77



**COPING CAPACITY (CC) - Very Low**  
Score: 0.324 • Rank: 66/77



Population (2021 Statistical Yearbook)  
**205,683**



Infant Mortality Rate (per 1,000 live births)  
**42.2**



Population below Poverty Line  
**48.9%**



Population with Safe Drinking Water  
**66.0%**



Adult Literacy  
**47.7%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 47 / 77 DISTRICTS

SCORE: 0.496



MHE  
0.496

Raw MHE  
0.527

Relative MHE  
0.464

## ESTIMATED EXPOSURE TO EACH HAZARD:



Earthquake

**100%**

253,352

\$366.96 Million

Critical Infrastructure Exposed:  
100%



Landslide

**100%**

252,734

\$360.26 Million

Critical Infrastructure Exposed:  
98%



Extreme Heat

**3%**

7,207

\$9.79 Million

Critical Infrastructure Exposed:  
3%



Wildfire

**48%**

122,140

\$152.56 Million

Critical Infrastructure Exposed:  
42%



Fluvial Flood

**2%**

3,823

\$7.05 Million

Critical Infrastructure Exposed:  
2%



Pluvial Flood

**6%**

15,115

\$24.51 Million

Critical Infrastructure Exposed:  
7%

NOTE: Population exposure values for Nepal districts are estimated using PDC's AIM model. Values may differ from Census population estimates.



## VULNERABILITY (V)

**RANK: 7 / 77 DISTRICTS ASSESSED**  
**SCORE: 0.698**

Vulnerability in Doti is primarily driven by Economic Constraints and Food Insecurity. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



### Information Access Vulnerability

0  1 **SCORE: 0.779** **RANK: 11/77 DISTRICTS ASSESSED**

<b>47.7%</b> Adult Literacy	<b>2.53</b> Mean Years of Schooling	<b>85.5</b> Primary School Net Enrollment	<b>30.37</b> Student Teacher Ratio
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### Access to Clean Water Vulnerability

0  1 **SCORE: 0.584** **RANK: 14/77 DISTRICTS ASSESSED**

<b>66.0%</b> Access to Safe Drinking Water	<b>58.3%</b> Households without Toilet	<b>32.2%</b> Water Schemes in Disrepair	<b>155.8</b> Typhoid Incidence (per 10,000)	<b>118.5</b> Cholera Incidence (per 100,000)
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### Economic Constraints

0  1 **SCORE: 0.825** **RANK: 7/77 DISTRICTS ASSESSED**

<b>\$774</b> Income per Capita (PPP \$)	<b>48.9%</b> Poverty Headcount Ratio	<b>13.5%</b> Poverty Gap	<b>104.0</b> Age Dependency Ratio
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### Food Insecurity

0  1 **SCORE: 0.782** **RANK: 7/77 DISTRICTS ASSESSED**

<b>56.7%</b> Food Poverty Prevalence	<b>41.4%</b> Low kcal Intake Prevalence	<b>80.5%</b> Agricultural Insufficiency Rate
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### Gender Inequality

0  1 **SCORE: 0.654** **RANK: 9/77 DISTRICTS ASSESSED**

<b>0.59</b> Female to Male Literacy Ratio (Distance from Parity)	<b>0.05</b> Female to Male Secondary Enrollment Ratio (Distance from Parity)	<b>96.6%</b> No Female Home nor Land Ownership
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## VULNERABILITY (V)

RANK: 7 / 77 DISTRICTS ASSESSED  
SCORE: 0.698

Vulnerability in Doti is primarily driven by Economic Constraints and Food Insecurity. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



## Vulnerable Health Status

0  1 SCORE: 0.566 RANK: 13/77 DISTRICTS ASSESSED

**65.0**  
Life Expectancy

**3.4%**  
Disabled Population



## Child Health

0  1 SCORE: 0.593 RANK: 19/77 DISTRICTS ASSESSED

**57.6%**  
Child Malnutrition Rate

**42.2**  
Infant Mortality Rate (per 1,000 live births)

**1017.7**  
Child ARI Incidence (per 1,000)

**71.1**  
Child Diarrhea Incidence (per 100)

**76.2**  
Child Pneumonia Incidence (per 1,000)



## COPING CAPACITY (CC)

**RANK: 66 / 77 DISTRICTS ASSESSED**  
**SCORE: 0.324**

Doti exhibits weaker Coping Capacity in the areas of Communications Capacity and Energy Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.



## Economic Capacity

0  1 **SCORE: 0.153** **RANK: 62/77 DISTRICTS ASSESSED**

**6,591** **71,448**  
 Gross Domestic Product (Million Rs.) Labor Productivity (Rs.)



## Governance

0  1 **SCORE: 0.451** **RANK: 46/77 DISTRICTS ASSESSED**

<b>0.13</b> Average Annual Conflict (per 10,000)	<b>6.88</b> Government Management (Score out of 9)	<b>4.16</b> Organization and Administration (Score out of 8)	<b>6.13</b> Budget and Plan Management (Score out of 11)	<b>6.09</b> Fiscal and Financial Management (Score out of 11)	<b>8.59</b> Service Flow (Score out of 16)	<b>4.59</b> Judicial Work (Score out of 7)	<b>4.34</b> Physical Infrastructure (Score out of 13)
<b>3.75</b> Social Inclusion (Score out of 10)	<b>3.13</b> Environmental Protection and Disaster Management (Score out of 9)	<b>2.13</b> Cooperation and Coordination (Score out of 6)					



## Environmental Capacity

0  1 **SCORE: 0.297** **RANK: 32/77 DISTRICTS ASSESSED**

**8.8%**  
Protected Area



## COPING CAPACITY (CC)

**RANK: 66 / 77 DISTRICTS ASSESSED**  
**SCORE: 0.324**

Doti exhibits weaker Coping Capacity in the areas of Communications Capacity and Energy Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.



### Infrastructure Capacity

0  1 **SCORE: 0.322** **RANK: 66/77 DISTRICTS ASSESSED**



### Communications Capacity

0  1 **SCORE: 0.249** **RANK: 68/77 DISTRICTS ASSESSED**

<b>2.7%</b> Households with Landline	<b>0.4%</b> Households with Internet	<b>6.6%</b> Households with Television	<b>42.8%</b> Households with Radio	<b>34.0%</b> Households with Mobile Phone
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### Logistics Capacity

0  1 **SCORE: 0.444** **RANK: 66/77 DISTRICTS ASSESSED**

<b>11</b> Road Density (km per sq. km)	<b>54.1%</b> Improved Roadway	<b>13.0</b> Average Distance to Airport (km)	<b>362.1</b> Average Distance to Dry Port (km)	<b>13.0</b> Average Distance to Warehouse (km)	<b>13.8</b> Average Distance to Police Station (km)	<b>17.2</b> Average Distance to Hospital (km)	<b>0.73</b> Operational Hospital Beds (per 10,000)
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### Energy Capacity

0  1 **SCORE: 0.272** **RANK: 58 /77 DISTRICTS ASSESSED**

<b>30.2%</b> Households with Electricity	<b>2.7%</b> Households using Gas for Cooking
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## RESILIENCE (R)

**RANK: 69 / 77 DISTRICTS ASSESSED**  
**SCORE: 0.313**

Doti's score and ranking are due to Very High Vulnerability combined with Very Low Coping Capacity scores.

**Below are the four thematic areas with the weakest relative scores:**



**Economic Constraints**



**Food Insecurity**



**Communications Capacity**



**Energy Capacity**

## KEY FACTORS INFLUENCING RESILIENCE



### Economic Constraints

Economic constraints have individual, household, community, and district-wide influence. Limitations on available financial resources reduce opportunities to invest in mitigation and preparedness measures and limit the ability to facilitate short- and long-term recovery.



### Food Insecurity

The changing frequency and intensity of disasters can expose the entire food system to supply chain disruptions. Promoting resilient agricultural systems through training of local farmers in sustainable practices (e.g., soil improvement, erosion reduction) and improving efficiencies in food marketing, storage, delivery, and waste management will help to increase the nutrition and food security of present and future generations.



### Communications Capacity

The density, diversity, resilience, and quality of communications infrastructure influence how subnational- and local-level populations are able to facilitate effective and coordinated communication.



### Energy Capacity

Homes, businesses, industry, and government all rely on access to energy resources for continuity of daily activities. Expanding, strengthening, and securing the energy network and increasing the availability and quantity of energy reserves will contribute to economic development and increase the speed of recovery processes in the aftermath of a disaster.





## HAZARD-SPECIFIC RISK (HSR)



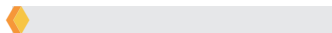
**Earthquake**

**RANK: 6 / 77** DISTRICTS ASSESSED  
**SCORE: 0.503**



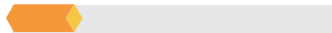
**Extreme Heat**

**RANK: 57 / 77** DISTRICTS ASSESSED  
**SCORE: 0.021**



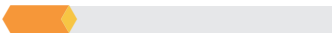
**Fluvial Flood**

**RANK: 36 / 77** DISTRICTS ASSESSED  
**SCORE: 0.174**



**Pluvial Flood**

**RANK: 36 / 77** DISTRICTS ASSESSED  
**SCORE: 0.170**



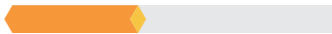
**Landslide**

**RANK: 6 / 77** DISTRICTS ASSESSED  
**SCORE: 0.542**



**Wildfire**

**RANK: 9 / 77** DISTRICTS ASSESSED  
**SCORE: 0.365**





## MULTI-HAZARD RISK (MHR)

**10 / 77**

RANK WITHIN DISTRICTS  
Score: 0.623



Doti's score and ranking are due to Low Multi-hazard Exposure combined with Very High Vulnerability and Very Low Coping Capacity scores.

### Multi-hazard risk component scores compared to overall average country scores:

**DISTRICTS SCORE**  
**COUNTRY SCORE**



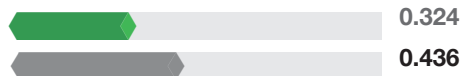
#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



**Better solutions.  
Fewer disasters.**

# Safer world.

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