

JICA's Cooperation for Spatial Planning in Developing Countries

In Fukuoka, August 1st, 2018

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Composition of presentation

- 1. What is JICA?
- 2. JICA's cooperation for National **Comprehensive Development Plan** (NCDP): Case of Bhutan
- 3. What are to be addressed?
- 4. What are values to cooperate for NCDP



1. What is JICA?

- **Japan International Cooperation Agency (JICA)** is a Japanese government agency implementing Official Development Assistances (ODA) to developing countries.
- > JICA provides technical cooperation as well as grants and loans to implement development projects.
- As a kind of technical cooperation, JICA supports to formulate master plans for development such as an urban development plan, regional development plan and National Comprehensive Development Plan (NCDP).
- JICA is cooperating to formulate NCDP in Bhutan, and will start in Mongolia.



(1) Composition of NCDP (Draft)

| Vol. I:EXAMINATION OF EXISTING | Vol. II: COMPREHENSIVE |
|--|--|
| CONDITIONS AND IDENTIFICATION O | Presenting Presenting |
| DEVELOPMENT ISSUES | Ch. 11 Vision and Objectives Vision |
| Ch. 1 Introduction Reviewing existing | Ch. 12 National Spatial Plan |
| Ch. 2 Envisaged Vision of Existing policy | 12.1 Strategies for National Spatial |
| National Policy and Plan for Bhutan | Planning Targeted |
| Ch. 3 Natural Environment of Bhutan | 12.2 National Spatial Structure spatial |
| Ch. 4 Socioeconomic Conditions of | 12.3 National Land Use Plan structure |
| Bhutan | 12.4 Specification of Cities, Towns and |
| Ch. 5 Spatial Pattern and Environmental | Main Villages |
| Conditions of Bhutan Reviewing | Ch. 13 General Guidance for Rural |
| Ch. 6 Social Development facts of | Development Sectoral policy |
| Ch. 7 Analysis of Gross National | Ch. 14 General Guidance for directions |
| Happiness | Industrial Development |
| Ch. 8 Characteristics of Dzongkhag (Province | Industrial Development General Guidance for Transportation System Industrial Development Flority program Projects Transportation System |
| <u>Identitying issues</u> | Transportation System Projects |
| Ch. 9 Development Issues of Bhutan | Ch. 16 Priority Projects of Priority Sectors |
| Ch.10 Strategic Environmental Assessment | Ch. 17 Recommendations for the |
| Inclusive decision making on | Implementation of the CNDP |
| selection of development scen | ario Issues and recommendation on |

schedule, budget, legislation etc.

(2) Logical approach to identify and address issues

Major issue: Migration

Accelerating migration from villages to the Capital Region Difficulty in sustaining villages and providing all migrants with good job & living condition

Balanced development to mitigate the migration

Creation of "decent Capital Region" + Development of "regional urban center" + "good access from villages to urban center within region"

But any town will not be able to be the Second Capital

National minimum to be ensured by the national government + Regional development taking comparative advantages into consideration

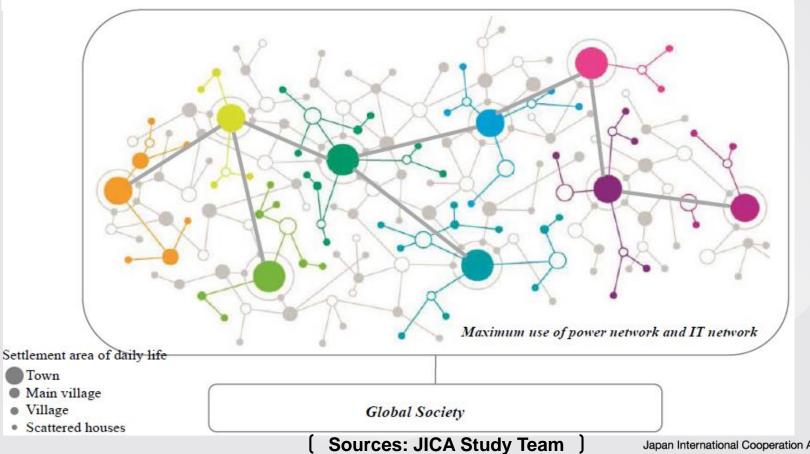
Settlement Area with Effective Network & Outward-Oriented Economy

Sources: JICA Study Team)

(3) Targeted Spatial Structure

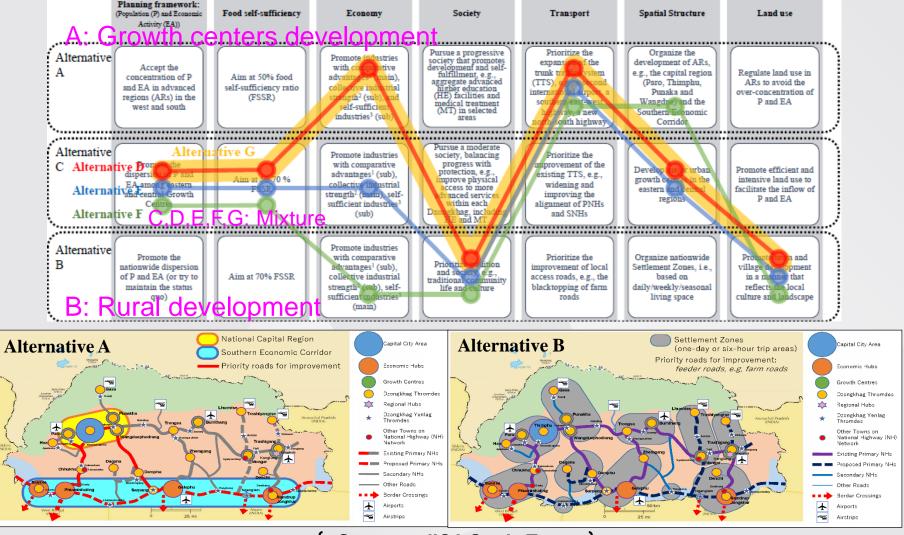
- **Growth Centers & networks, Hierarchy of Cities & Towns**
- Similar concept to the recent "National Spatial Strategy" in Japan

Image on spatial structure (Hub and Network)





(4) Selection of development scenario among alternatives



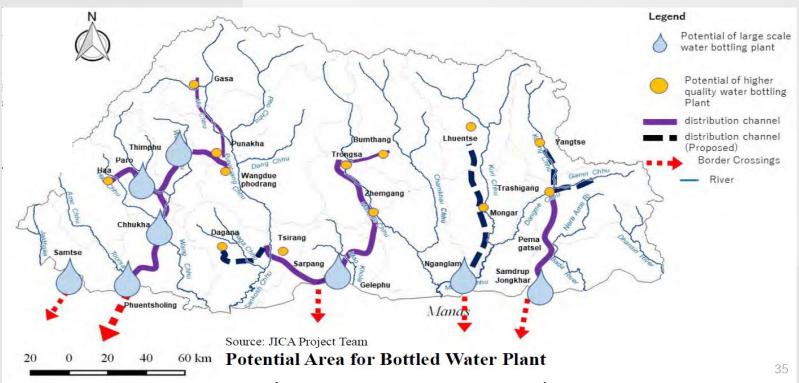


(5) Development Program

1) Creation of Water Business Promotion Area

Promotion of export-oriented business to appeal Bhutan as Clean Country"

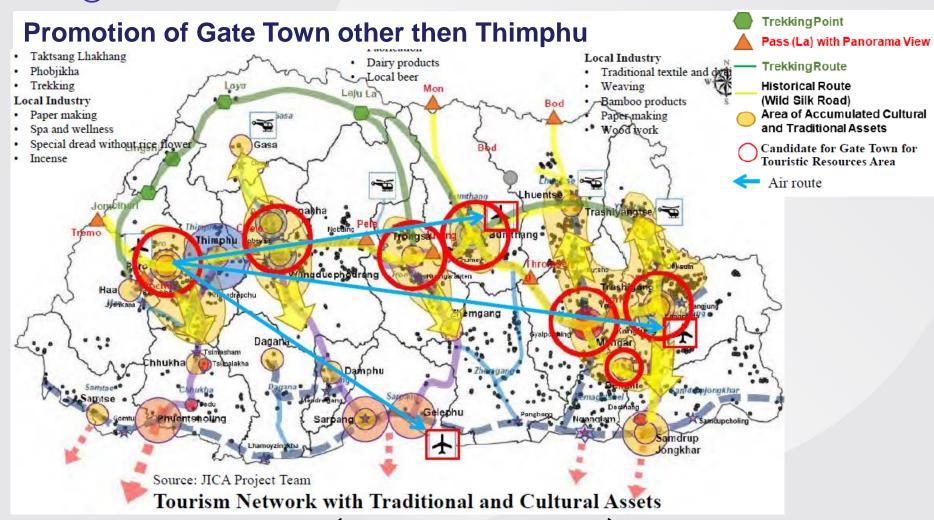
- ✓ Water production: 36 million m3/year
- ✓ Sales in Bhutan: 0.95 million m3/year
- ✓ Sales in India: 16 million m3/year (500~750 million BTN)
- ✓ Sales in other countries: 20.05 million m3/year



Sources: JICA Study Team



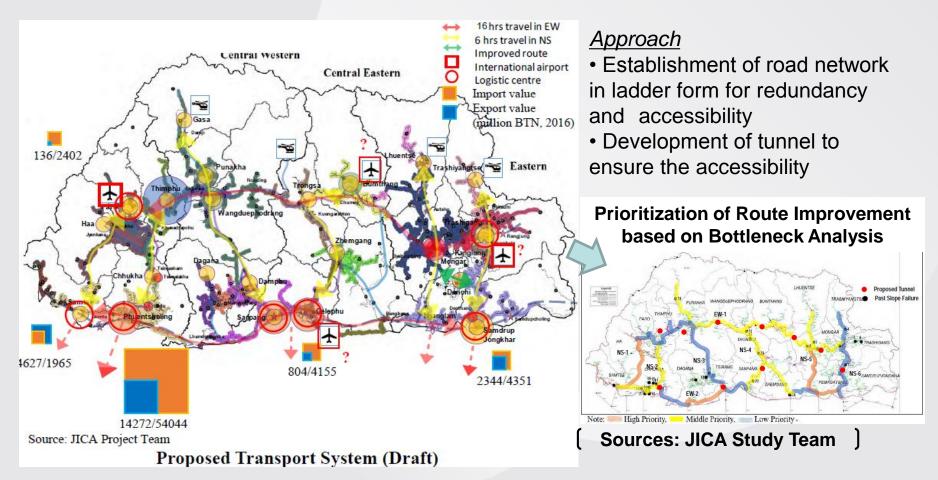
- (5) Development Program
 - ② Creation of Holistic Tourism Network





- (5) Development Program
 - 3 Effective Transport System

Sub-program: Creation of Trunk Road Network





(1) Clarifying position & relations of relevant plans

(Ex.) In Mongolia, "Regional Development Policy" and "Human Settlement Plan" are supposed to be formulated according to NCDP.





(2) Planning based on facts and data

- Clarifying available statistics and data
- > Figuring out a country as it is (utilization of GIS)
- Predicting future socio-economic framework (ex. GDP, Possible public investment, Population by regions, employment by sectors etc)

(3) Clarifying Mechanism of decision making

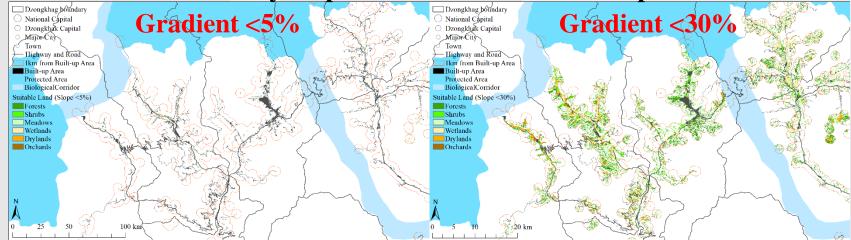
- Implementing structure and demarcation among relevant agencies
- ➤ Involvement of local people (Ex.) Government of Mongolia has set up regional and local committees
- Selecting a strategy among alternative scenarios with involvement of various stakeholders (SEA).

(4) Consideration to features of the country

(Ex.) Steep mountains strictly limit lands to be developed in **Bhutan. Integrated Spatial** Information System developed under the NCDP Study supports to identify lands to be developed and formulate land use master plan.

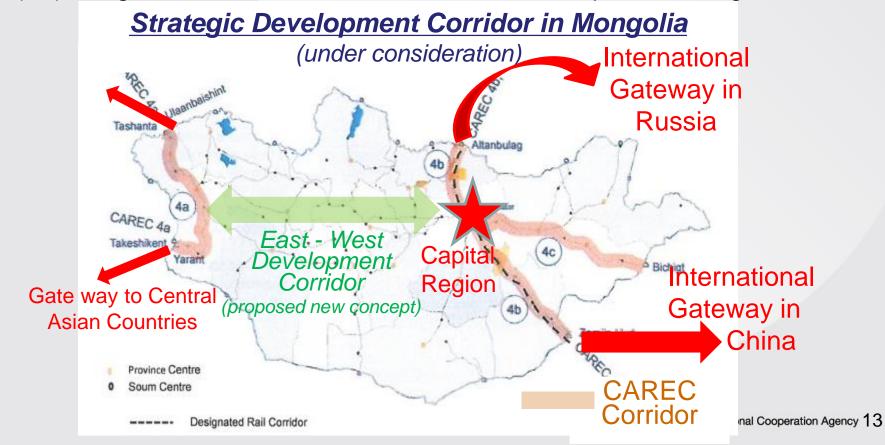


Land Cover by Slope within 1km from Built-up Area



(5) Consideration to geopolitical situation

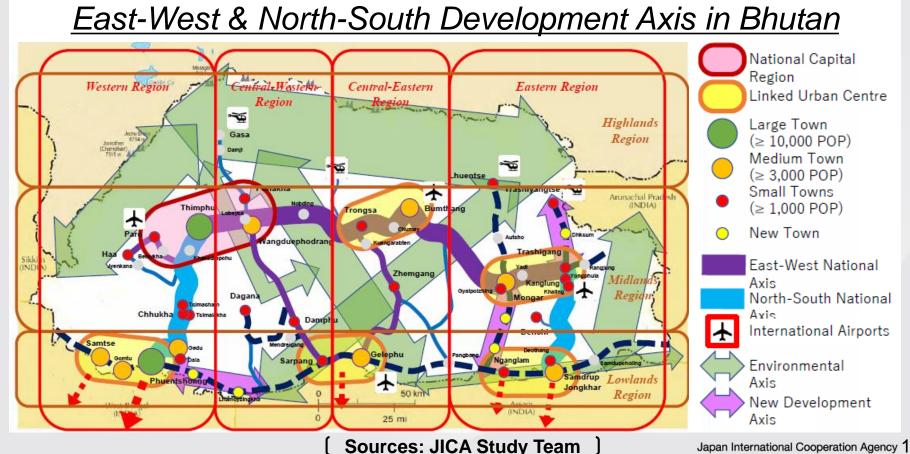
- Considering relations with neighboring countries (especially for land locked countries).
- International corridor development is a hot issue for not a few countries (ex. Africa, Greater Mekong Region, Central Asia)
- (ex.) Mongolia needs two international corridors to seaports securing resilience.





(6) Inclusive Development

- "Alleviation of regional disparity" and "Ethnic consideration" are common issues.
- (Ex.) In Bhutan, lateral & longitudinal development corridors are identified. Longitudinal corridors are also important in terms of ethnic inclusion.





4. What are values to cooperate for NCDP

- Promoting inclusive development by sharing common visions among people
- Comprehensive and effective development based on Master Plan
- Sharing Japanese experiences (Methodologies of development under Rapid Growth Period, Stable Growth Period & Population Decreasing Society)
- Fusion of objective observation & hints of Japanese experts and political will & deep knowledge of the country bring new values.



Thank you for your attention!