

Workshop : Restoration of forests and other ecosystems
(27 June —1 July, Bangkok, Thailand)

Restoration of forest and other ecosystems

-Promotion of Nature Restoration in Japan-



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(撮影：岡田 操)

I Background of Era

- Construction of Many kinds of Infrastructure(High Priority)
- Industrialization

Era of Conflict

○The Convention on Biological
Diversity(1993)

○The National Biodiversity
Strategy (1995:1st St.)

○Japan Biodiversity Outlook
:JB0(2010)

○The National Biodiversity
Strategy 2012-2020(2012:5th)

○The 5th National
Report(2012)

○Japan Biodiversity
Outlook 2:JB02(2016)

1993:Environment Basic Act
(Est.)

1997:Environmental Impact
Assessment Act(Est.)

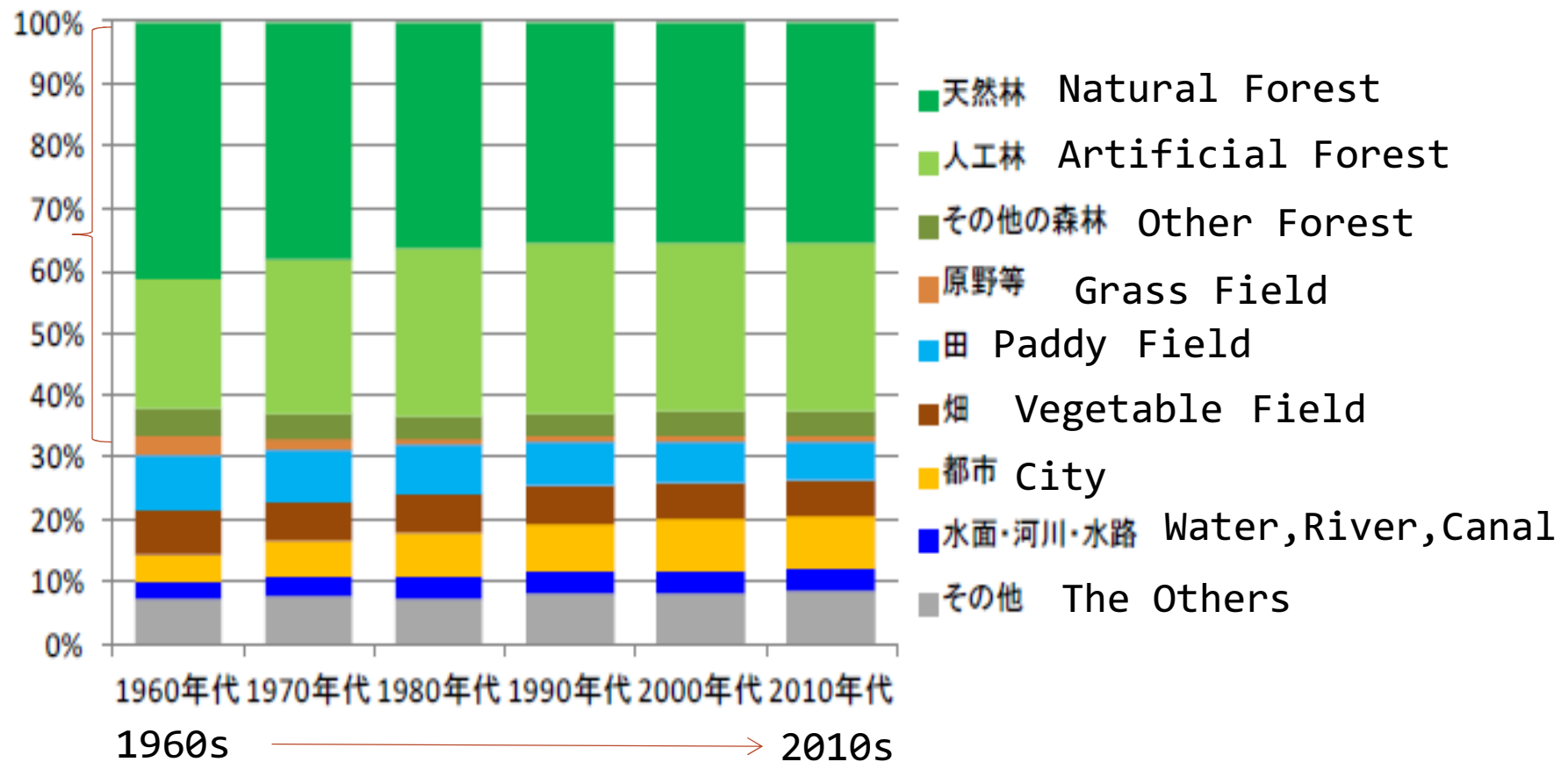
2000:Port and Harbor Act(Rev.)

2001:Land Reclamation Act
(Rev.)

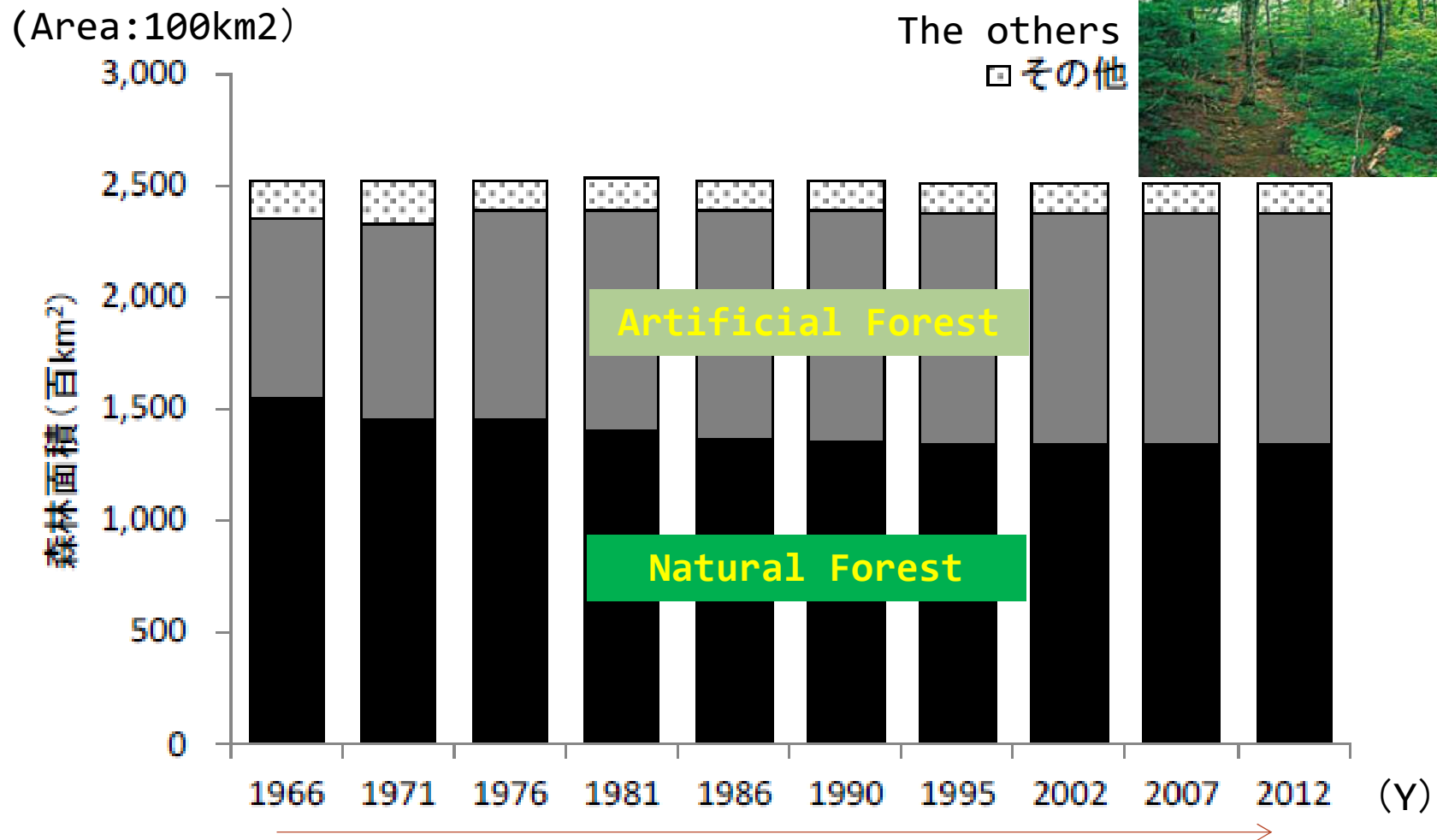
2002:Law for the Promotion of
Nature Restoration(Est.)

Era of Dialogue & Cooperation

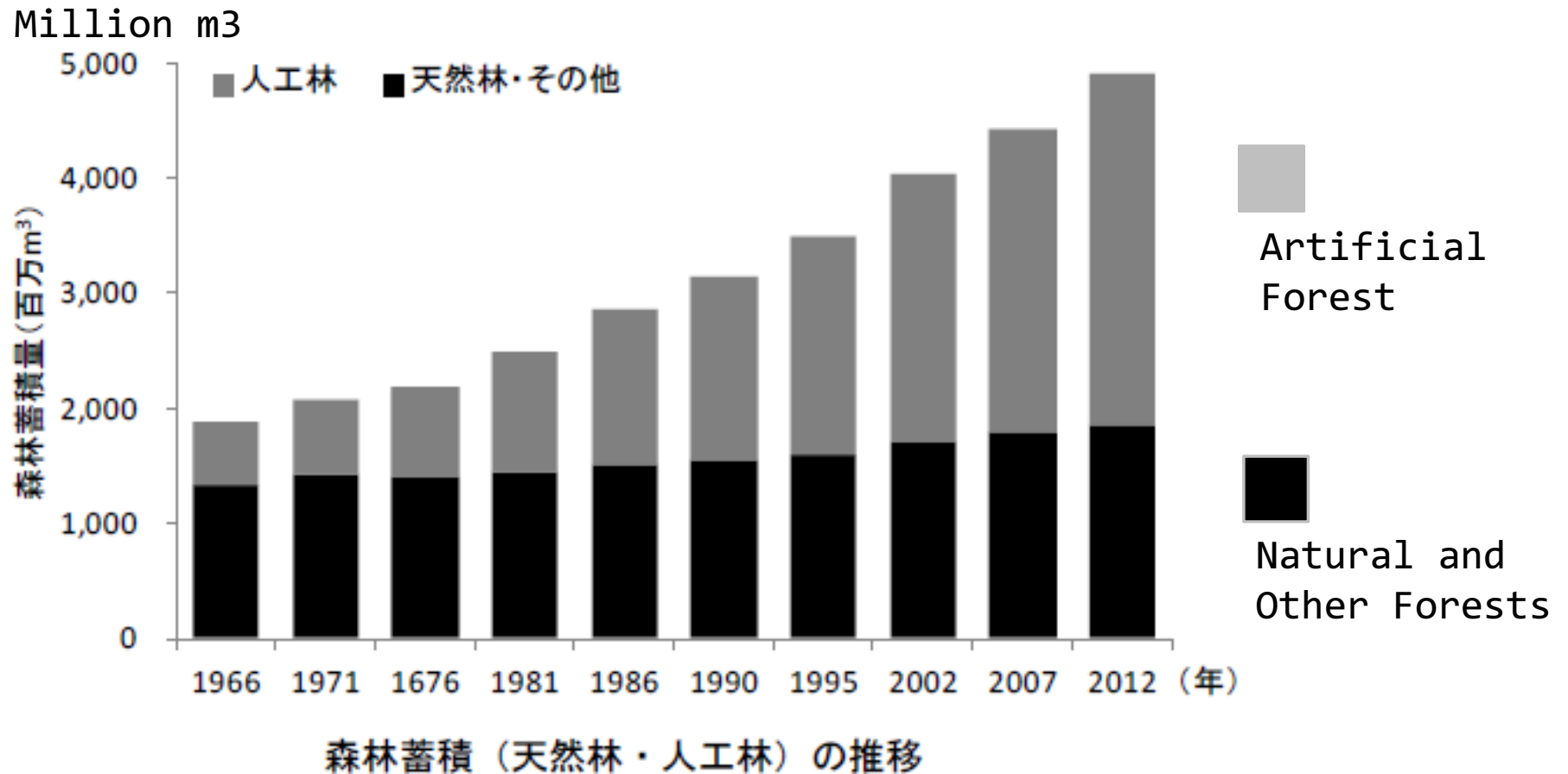
2-1 Japanese Land Use Transition



2-2 Forest Area Transition



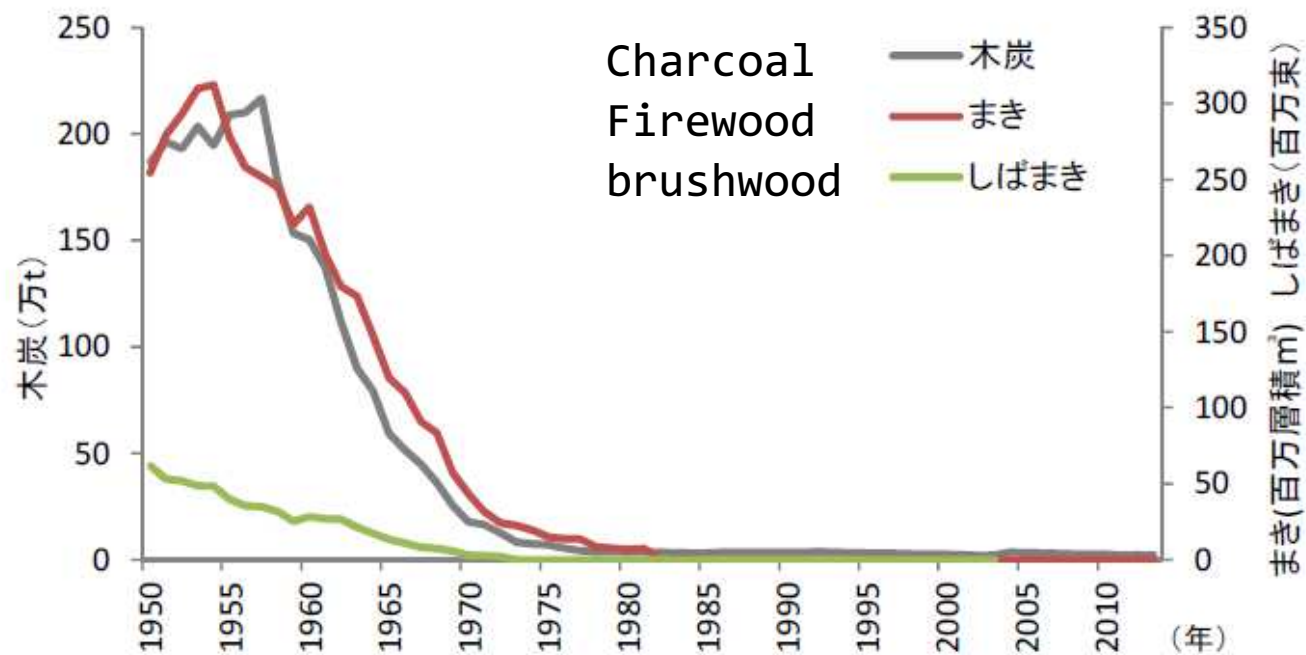
2-3 Forest Resource Volume



2-4 Production of firewood etc.

(Charcoal:10,000ton)

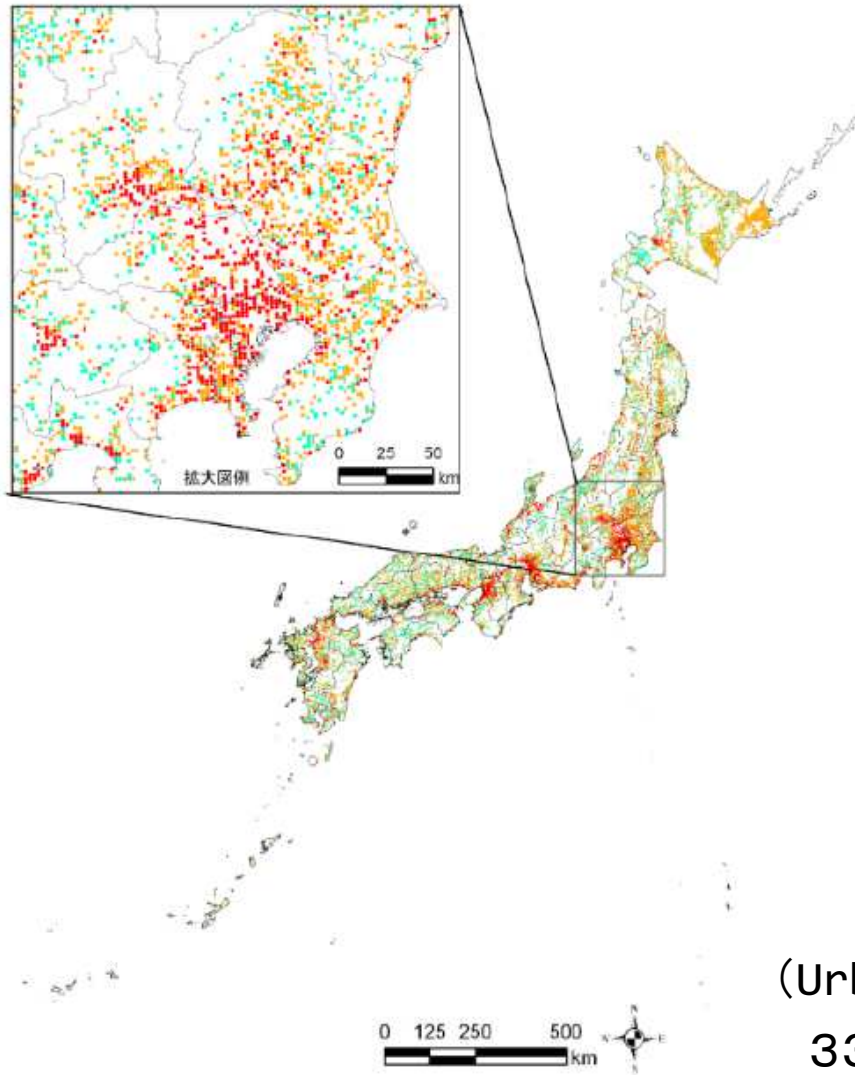
(Firewood,brushwood:million ton)



出典) 農林水産省, 1950-2013: 特用林産物生産統計調査より作成.

図 II-18 薪炭の生産量

3 Urbanization of Land Use (Y1900 → Y2006)



● Forest → Agri-field
or City

33,000km²

● Agri-field → City

11,000km²

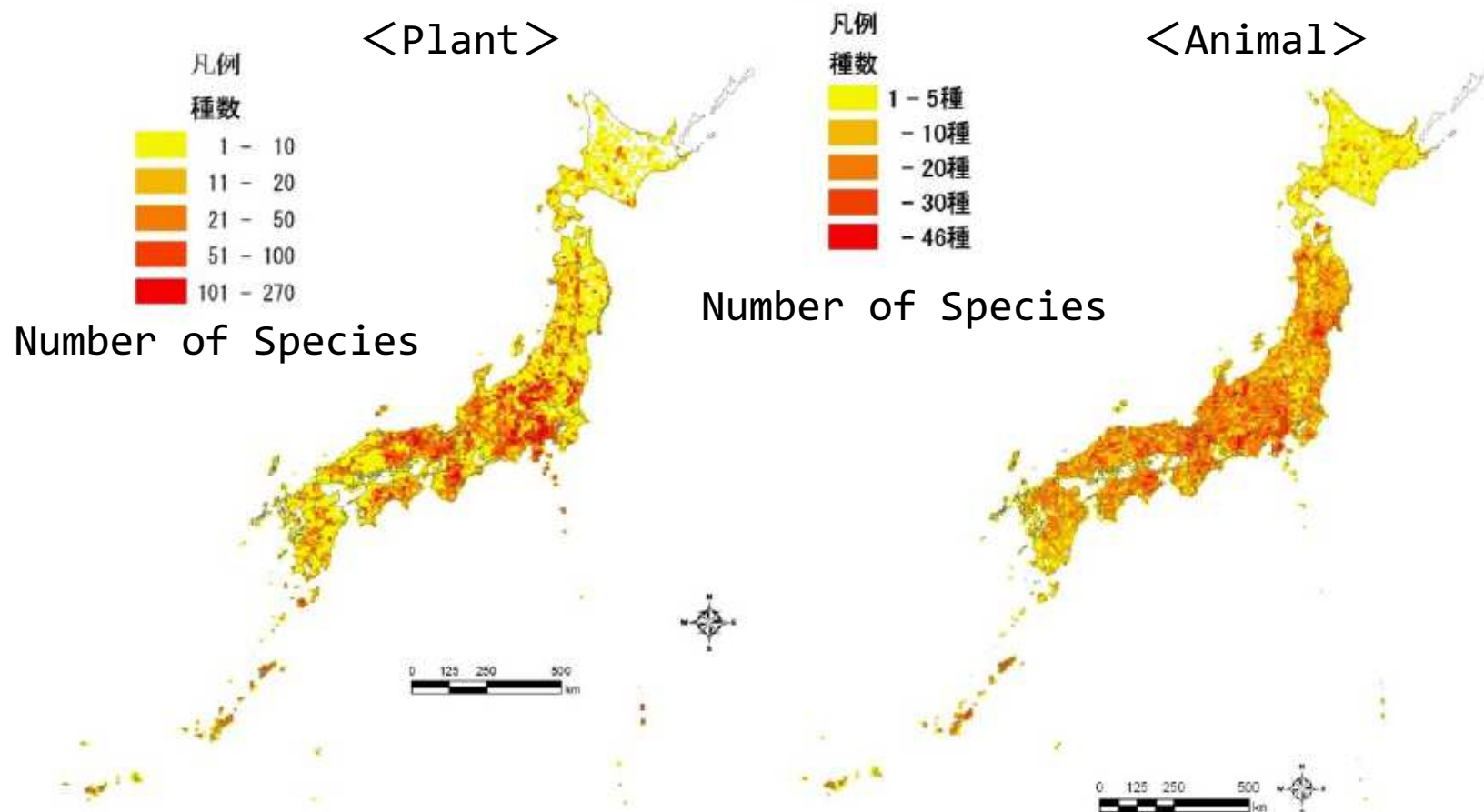
● Agri-field → Forest

18,000km²

(Urbanization)

$$33 + 11 - 18 = 26,000\text{km}^2$$

4 Distribution of Japanese Plant and Animal Endemic Species



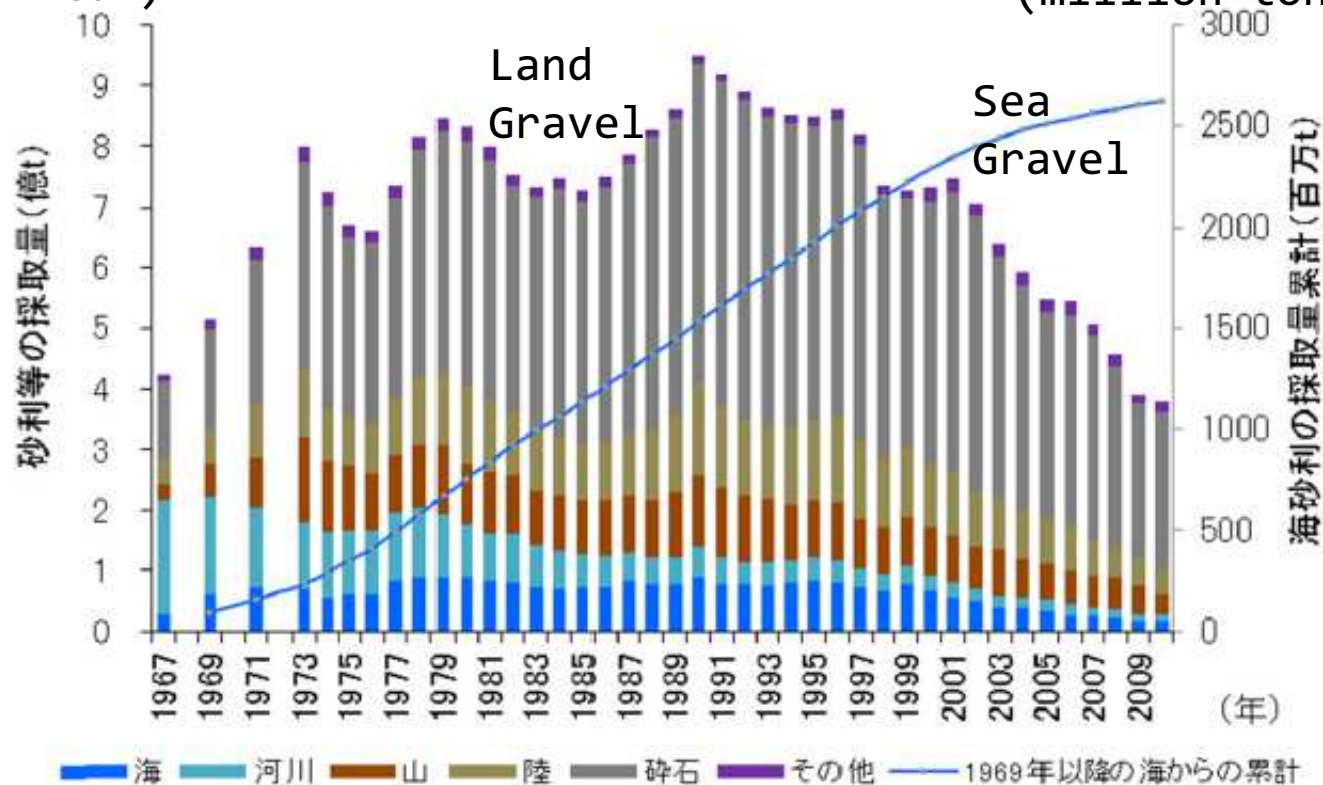
出典) 環境省, 2012: 平成 23 年度生物多様性評価の地図化に関する検討調査業務報告書.

図 I-2 日本固有種の確認種数 (左: 維管束植物、右: 脊椎動物)

5 Gathering Gravels Transition

Land Gravel
(100million ton)

Sea Gravel
(million ton)



注：「砂利」には砂や玉石を含む。採取量は砂利採取法や採石法に基づく認可を受けて採取された量
出典）経済産業省, 1967-2010: 骨材需給表より作成..

図 II-7 砂利等の採取量の推移

Challenges

- ❑ Promotion of Nature Restoration
 - Connecting and Supporting Project between Forest, Rural area, River and Sea
 - Small nature restoration
 - Organization of new nature restoration council & dissemination (25 councils was established based on law)
- ❑ Prioritized nature restoration Maps (Monitoring for improvement of baseline and dissemination ... Need to set target)