

H-3 Land Use for Global Environment Conservation (LU/GEC)

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Total Budget for FY1995-FY1997 78,467,000Yen (FY1997: 26,791,000Yen)

Key Words Land Use/Cover Change, Linkage Model, Asia-Pacific Region

Main Target : Prediction of the State of Land Use/Cover of Asia-Pacific Region at 2025 and 2050.

Method: Model Simulation and Field Survey on Land Use /Cover Change

- (1) Econometric Analysis (Multiple Choice Logistic Model) for Estimation of Land Use Fraction
- (2) Linkage Model Representing Labor, Commodity and Resources Flows
- (3) Application the Above Methods to a Particular Area
- (4) Field Surveys to Investigate Driving Forces of Land Use Changes
- (5) Another Modeling Approaches

Organizations and Current Activities:

- (1) Group for Model Framework Development and Application to Japan (LU/GEC-Japan)
 - Application of the LU/GEC-I (Version 1) to Japan
 - Modification of the LU/GEC-I (Version 2) (Development of a Linkage Model Module)
 - Application of LU/GEC-I (Version 2) to the Kansai District, etc.
- (2) Group for China Model Development (LU/GEC-China)
 - Field Surveys for Three Typical Areas to Investigate Driving Forces of Land Use Changes
 - Development of LU/GEC-II (Generalized Kane's Simulation Model) and its Application to China
 - Attempt at Applying LU/GEC-I (Version 1) to the Yangtze River Lower Basin
- (3) Group for Southeast Asia Model Development (LU/GEC-Southeast)
 - Field Survey to Investigate Driving Forces of Land Use Change around Jakarta
 - Application of the Multiple Choice Logistic Model to Sumatra Island
- (4) Group for Data Set Creation
 - Collection of Historical Data of Forests of China by Provincial Unit
 - Statistic Data Set Creation for Whole Thailand
 - Statistic Data Set Creation for Java and Sumatra Islands
- (5) Group for Geophysical Explicit Model Development
 - 2 km × 2km Digital Mapping of Past and Latest Land Use in Particular Parts of China