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Possible Contribution to the COE Strategy from Center for Spatial Information Science (CSIS), University of Tokyo

Hiroyuki Miyazaki, Ph.D.

Center for Spatial Information Science (CSIS) University of Tokyo, Japan





Contents

- CSIS's collaborations with ADB
- CSIS's technologies for energy sector

*CSIS: Center for Spatial Information Science, the University of Tokyo

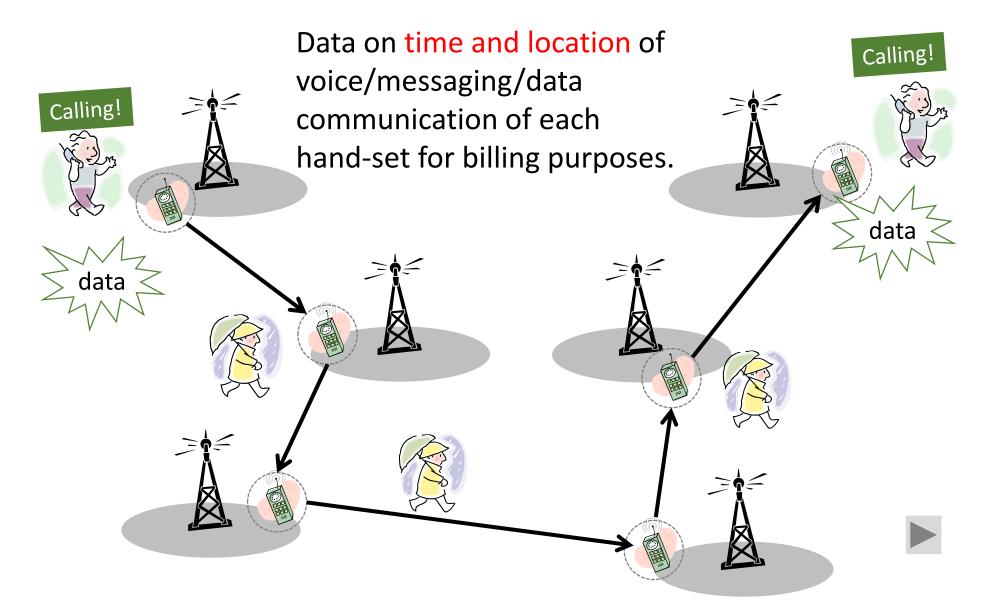
Our Collaboration with ADB

- Secondment to ADB HQ since 2012
 - Promotion of geospatial technology and space technology in ADB
 - Support in applications of geospatial technology and space technology in ADB's operations.
 - Create innovations using geospatial technology and space technology
- Close collaboration from knowledge exchange to project implementation in various sectors/themes.

Examples of Our Technology for Energy Sector

- People mobility data from mobile phones
- Earth observation of socioeconomics and energy
- Analysis and management of geospatial information/data
- → Support in planning, monitoring, and decision making by geospatial information technology.

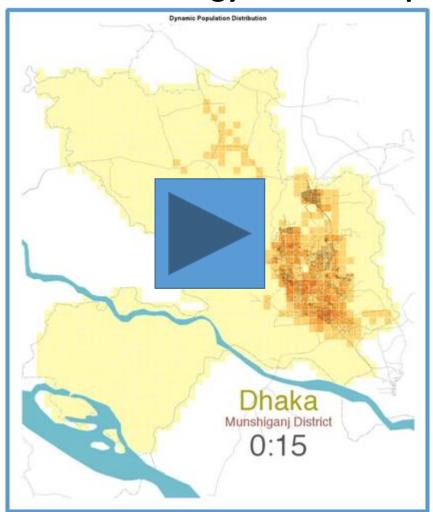
CDR(Call Detail Record) data





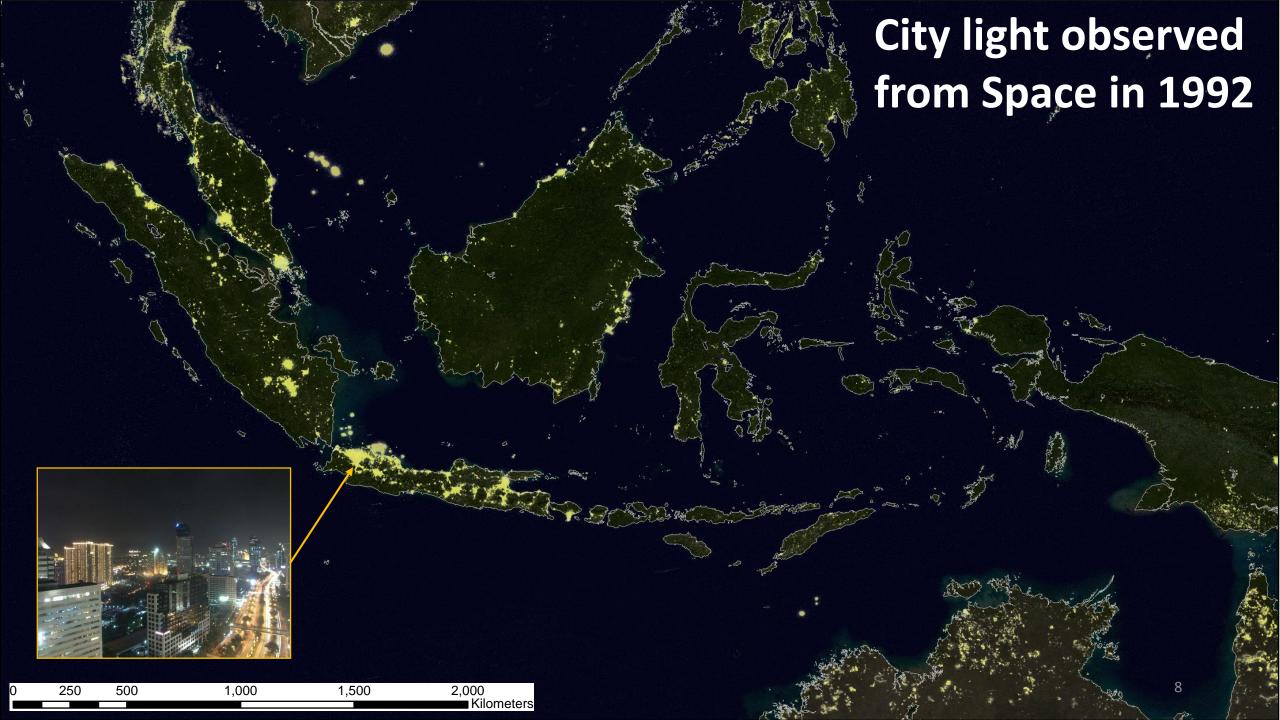
Applications of People Mobility Data

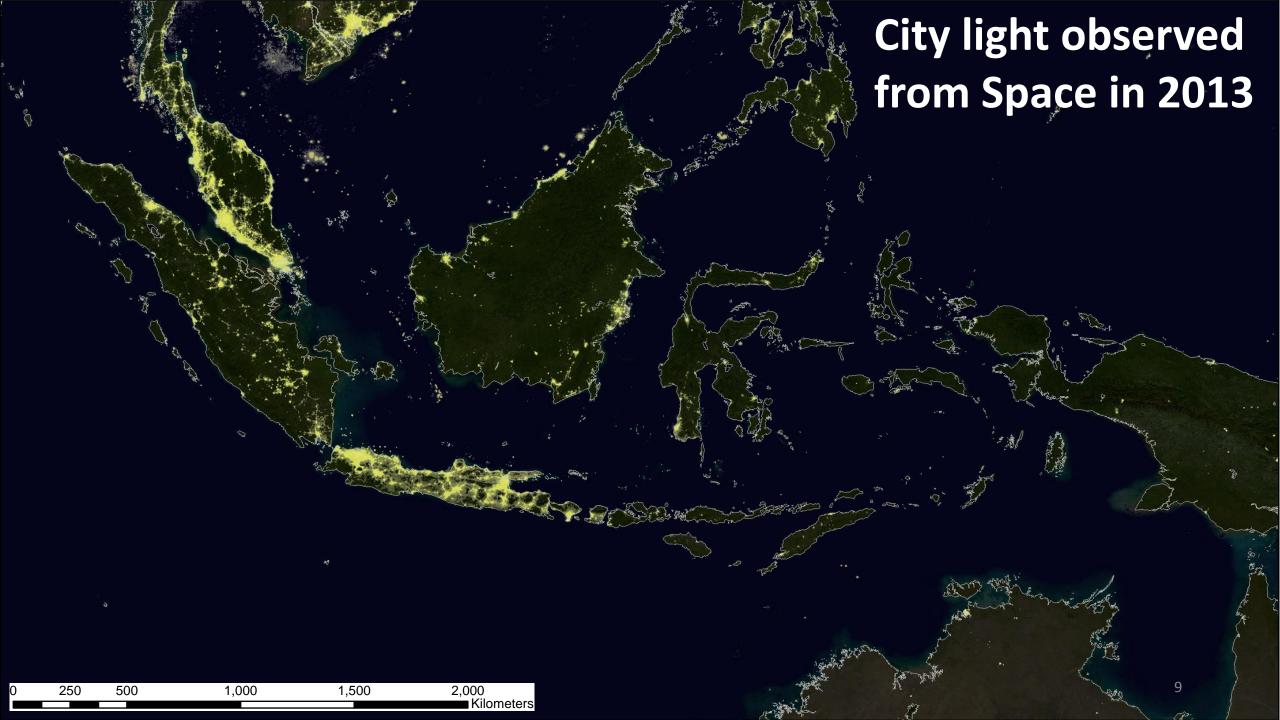
Estimating/predicting population dynamics for energy demand response

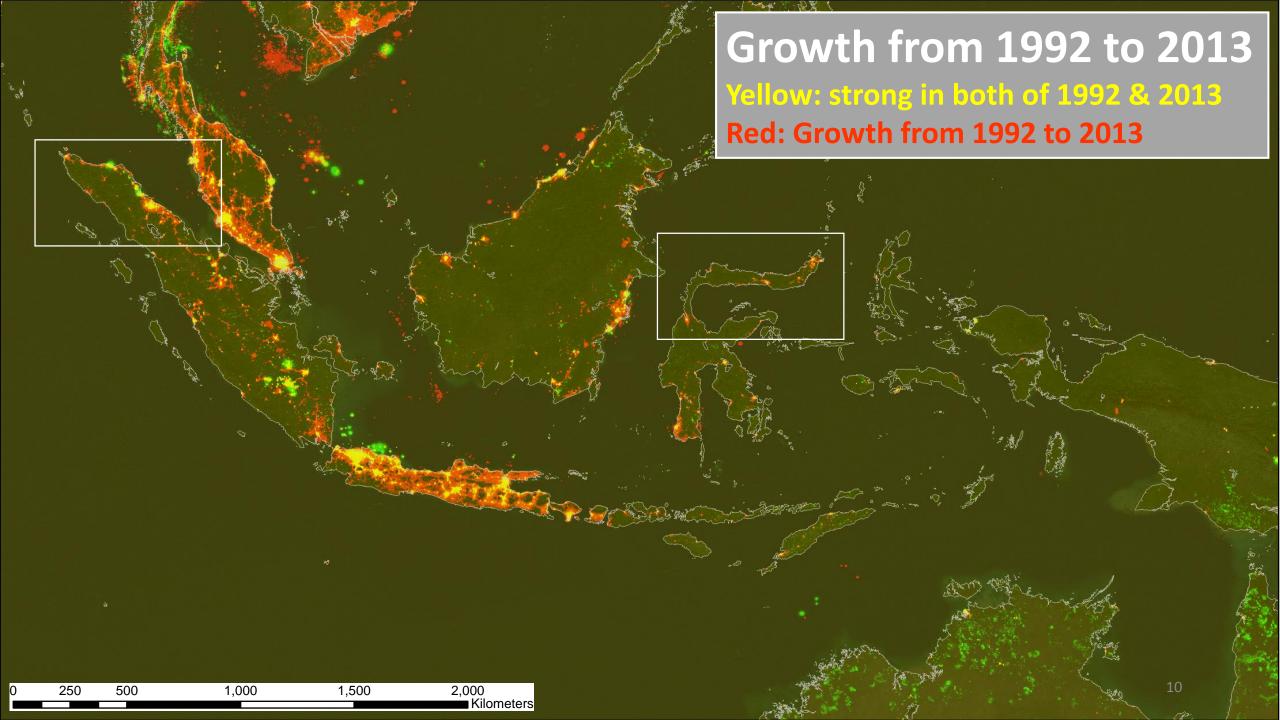


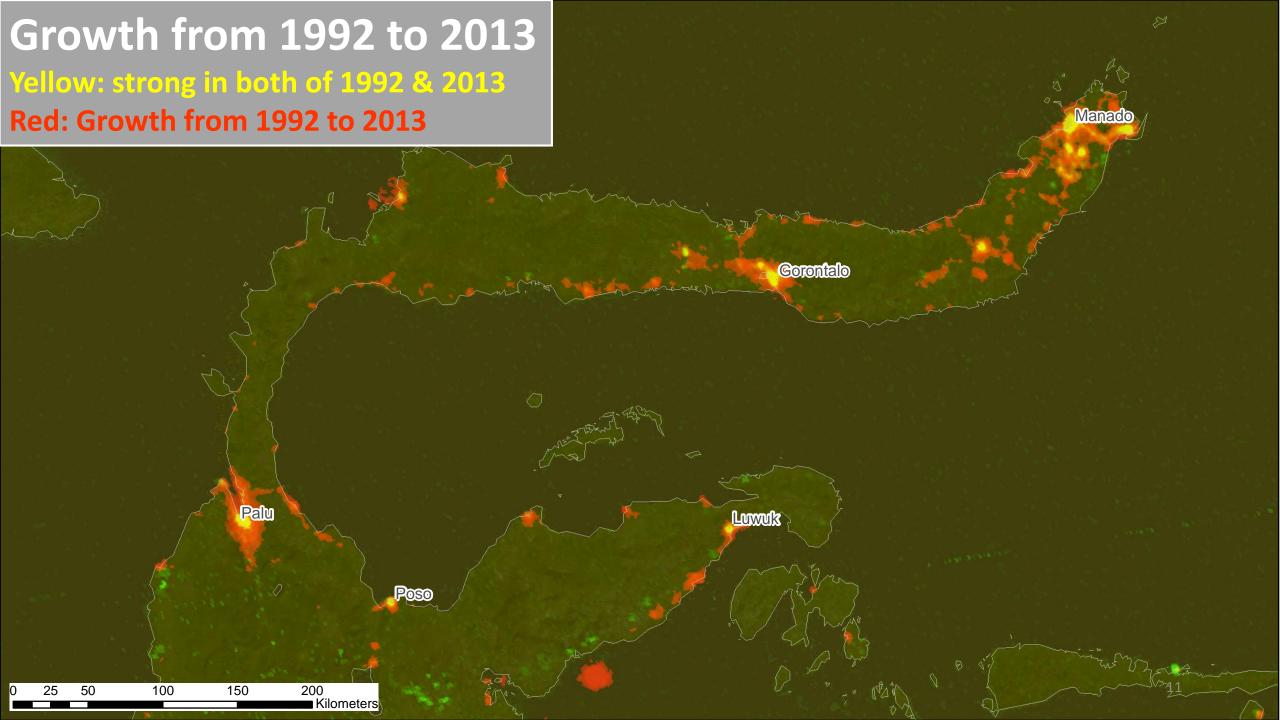
Seasonal & long-term nationwide people's migration

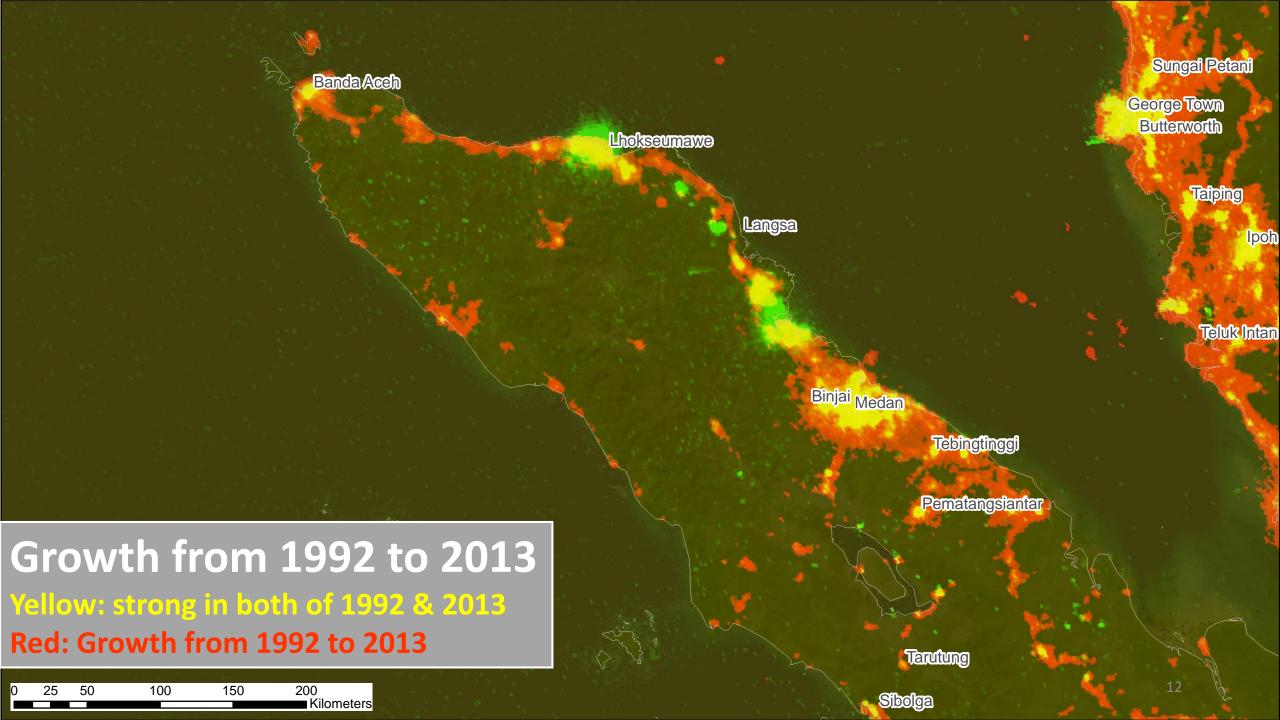




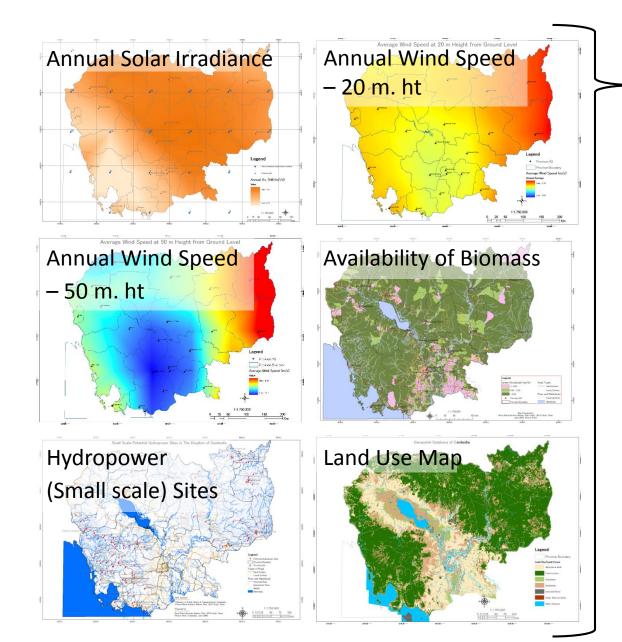






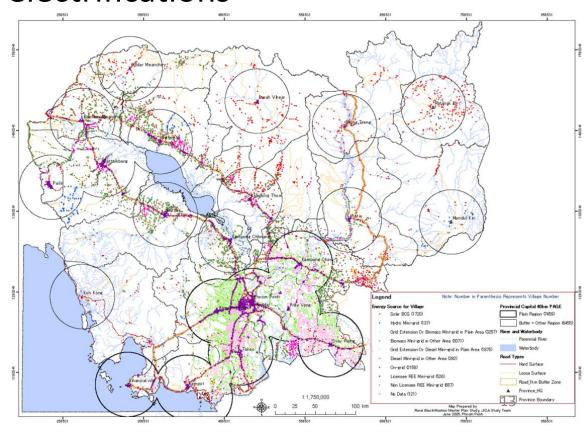


Analysis & management of geospatial information & data



Integration by geographic information system (GIS)

Energy mix planning for on/off-grid electrifications



Our Technology for Energy Sector

- People mobility data from mobile phones
- Earth observation of socioeconomics
- Analysis and management of geospatial information/data
- → Support in planning, monitoring, and decision making by geospatial information technology... and new innovations by collaborations through the COE!