

OTA LAB.

[City Structure and Urban Regeneration]

Department of Human and Social Systems

Urban Regeneration

Department of Architecture

City Structure and Urban Regeneration

Since the 1990s, most urban regeneration projects conducted in Europe had a clear methodology. It is intended to reconsider the urban sprawl by cars and how pedestrian streets can be fun and safe for visitors. An objective is these ideas to become the structure of cities and to minimize cities themselves. In this Laboratory, we are trying to extract the structure of cities from analyzing the network that combines architectures and streets. Further more, we study how the function and bigness of architectures are affecting the city structure. Theory of arranging architectures in city is also another interest of this laboratory.

- ◆ Structure of the city as seen from the betweenness centrality of the weighted network
- ◆ Structure regeneration of the depopulated city utilizing placement of the magnet facility
- ◆ A new structure formation of the fishing village affected by the disaster
- ◆ Analization of city structure in downtown of Tokyo



Fig1. Extraction of urban structure by weighted betweenness centrality



Fig3. Town planning proposal in Shibitachi



Fig5. Structure regeneration plan in small rural city

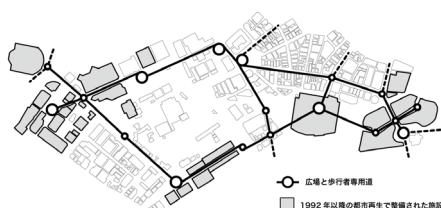


Fig2. Urban structure in regeneration process in Birmingham, UK



Fig4. Drawing of Shibitachi Proposal



Fig6. Study of the relationship between EV and architecture