

Urban Infrastructure Design



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We study the urban and regional landscape, from nature to culture, by analyzing its spatial and temporal structure and transformation based on landscape analysis, design survey, historical analysis, and community structure analysis. Furthermore, we explore how to design urban infrastructure that are in harmony with the cultural environment, and also study the goals and methodologies of urban and regional planning and design.

See URL below for details.

<https://lepl.uee.kyoto-u.ac.jp/>

<https://sites.google.com/site/hitomukotani/>

Research | Keywords

1. Landscape Analysis and Planning

Analysis of landscape and environment, views, history of cities, landscape planning

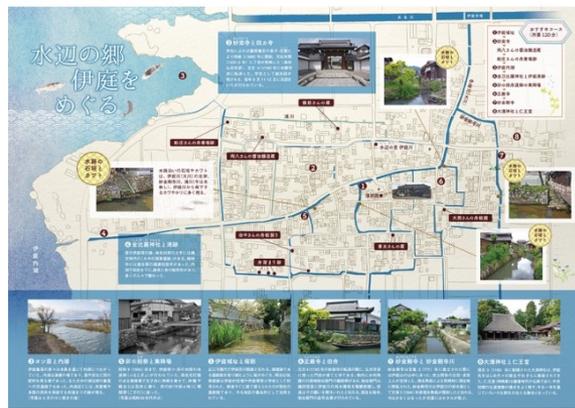
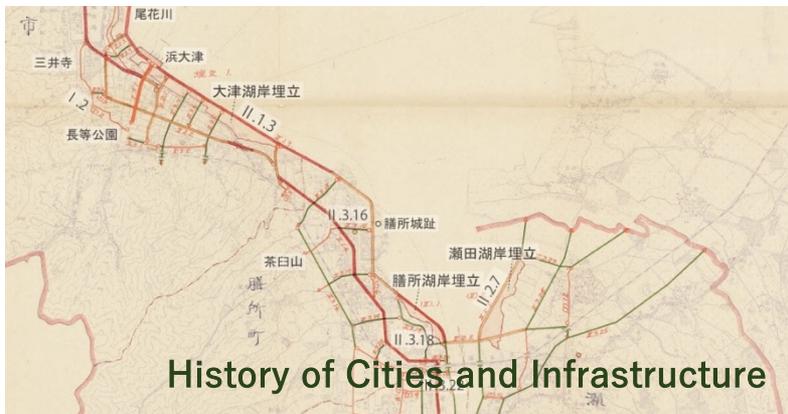
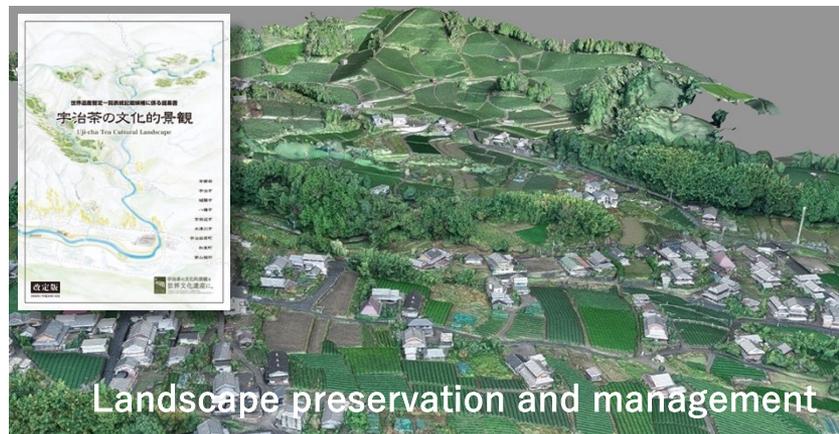
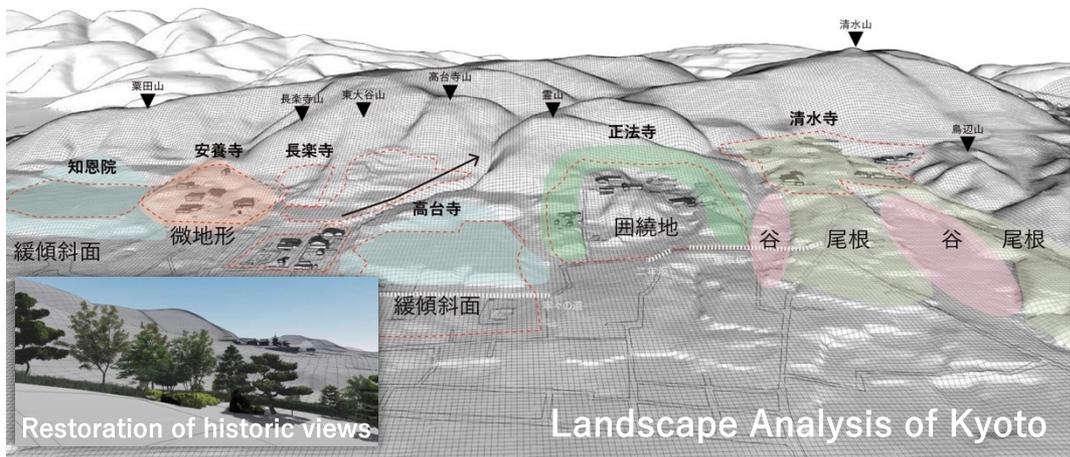
2. Architecture of Infrastructure, Urban and Regional Design

Planning and architecture of urban infrastructure facilities such as roads, parks and rivers in harmony with the natural environment, design management

3. Roles of social networks in cities and regions

Collaborative community planning, social network analysis, disaster management

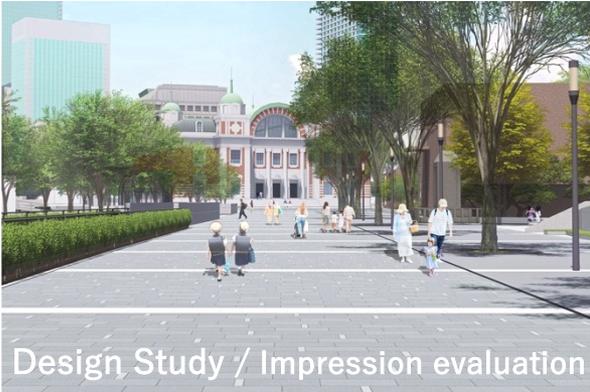
1. Landscape Analysis and Planning



2. Architecture of Infrastructure, Urban and Regional Design



Before



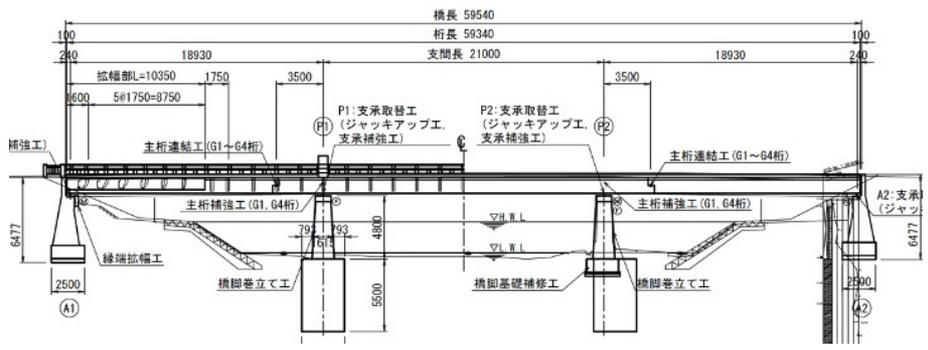
Design Study / Impression evaluation



After/ Space utilization verification

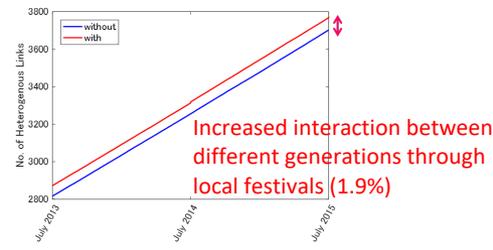


Bridge design on the Kamo River

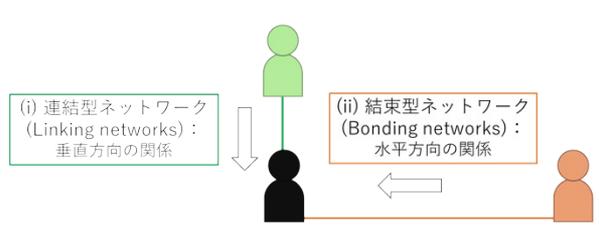


Design that harmonizes with the natural environment

3. Roles of social networks in cities and regions



Quantifying the effect of network expansion through community events



Statistical analysis of the relationship between networks and disaster recovery