Exploratory Study on Real-Time Scenario Supporting ICT Solution for Communication with and Involvement of the Community in Urban Landscape Planning

1 Urban Agriculture Research Division, National Institute of Horticultural & Herbal Science, Rural Development Administration, Wanju 55365, Republic of Korea. 2 Seoul School of Integrated Sciences & Technologies / Korean System Dynamics Society, Republic of Korea *Correspondence to : Seoul School of Integrated Sciences & Technologies / Korean System Dynamics Society, Korea. E-mail: benjamin@system-leadership.org

Introduction

The landscape planning has been carried out by landscape architects and clients mainly funded by local government. Recently, the communication with and involvement of the community is getting more important, which needs the collective learning of the interaction of stakeholders (Kim, 2015; Lee, 2016). ICT should be re-configured to be used for the public who don't have the specific software and knowledge to use it with and want to know the impact of their decision at hands. We developed a real-time scenario technology for landscape using Stella Online running on any internet browser.

Methods









Soojin You¹, Benjamin Chang-Kwon Chung^{2*}, Hyung Gewon Yun¹, Kwang Jin Kim¹, Seung Won Han¹, Nara Jeong¹

We conducted an exploratory study on a real-time scenario model that anyone can easily understand and make a direct decision making. It has the advantage that all the decision makers of the project, landscape architects, residents, and public officials, can access the system in real-time. Limitations of the research: In the development process of story line, only one variable, quantity of trees, was selected and various conditions were not considered. Further study: It is needed that the upgrade of the realtime scenario model to develop the feedback structure of "Green Roof"

*This work was supported by research program (project No. PJ01364501), Rural Development Administration, Republic of Korea

4) Output Design

Conclusion

Rural Development Administration **National Institute of Horticultural** and Herbal Science