ABSTRACT

CREATIVE PROJECT: Sustainable Urban Planning and Design: Sustainable Solutions for Retrofitting a Neighborhood in Beijing, China

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Rapid urbanization and population growth in China have remarkably improved people’s quality of life. However, these changes have also brought significant negative impacts, which limit further development in China. As the capital of China and one of the world’s densest cities, Beijing is facing serious urban environmental issues, especially air pollution.

Working within this dynamic period of urban transformation, this creative project defines current urban air pollution issues, explores driving factors, and proposes solutions through sustainable planning and design concepts. This creative project also meets the challenge of accommodating rapid population growth and development while maintaining balance between the human and natural environments. The key feature of this creative project is to improve the integration of land use, transportation, and renewable resources to achieve a healthy, livable, and
sustainable neighborhood. The site is a typical dense urban residential neighborhood and located beyond the North 4th Ring Road of Beijing. The proposed planning and design also sets an example for other neighborhoods and reflects how to transform all of Beijing into a sustainable and more livable city.