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A Study on the Application of Architectural Approach to the Development of Mobility Space UX

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In recent years, in order to respond quickly to rapid technological development and social change, a differentiated approach using heterogeneous industries is also required in the automobile industry. The author majored in architecture and has grown into an expert in understanding and convergence of different universes through research and development for a long time in automobile R&D. Therefore, this study approaches differentiated spatiality that combines new perspectives with customers through a heterogeneous architectural space design approach and presents ways to effectively apply it to automobiles from the perspective of various mobility changes, including autonomous driving.

Fig.1 Architectural approach related to mobility space UX

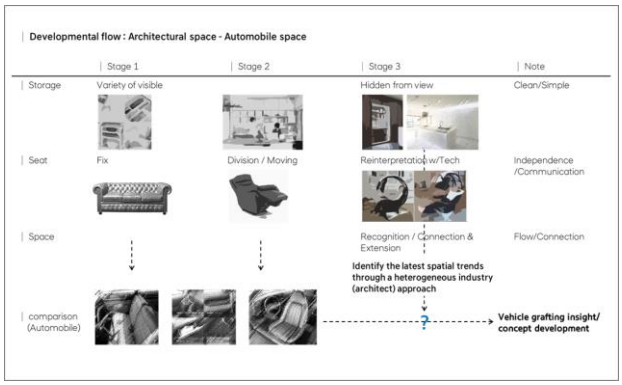

Fig.2 Architectural space change and car spatial correlation study

1) Architectural spaces are more sensitive to technological developments and lifestyle changes and are being composed/directed in a variety of ways, so continuous attention and research are needed.

2) In architecture, the ideation and scale model approach enables effective concept building when applied in the early space concept development of vehicles.

3) Through the understanding and participation of experts and users, new perspectives can be broadened, and specific system and logic configuration is possible only when experts who have a deep understanding of both architecture and automobiles participate.

4) When the era of mobility and autonomous driving beyond the conventional simple car arrives, we need to open our eyes to the value and possibility of that small space. In an area urgently needed by society, the moment when small spaces and spaces are autonomously and quickly connected and formed with each other, mobility goes beyond mobility and becomes architecture for humans, and a small city.

In this study, the latest spatial trend changes were identified/analyzed through an architectural space design approach, and a method was derived to apply the architectural scale model approach methodology to the development of concepts related to automobile space UX. In addition, in this process, an approach method through understanding and participation of experts and users was studied, and a system and logic UX that responds to various mobility changes were also materialized and derived. In particular, autonomous mobility prepared for pandemic and social disaster situations such as Covid-19 can be autonomously placed, connected, assembled and sublimated into architecture in accordance with architectural programs. Through this, it is possible to respond to social needs and contribute to the continuous coexistence and development of mankind and nature by providing architecturally configurable spaces and services in a timely and active manner beyond simply mobility.