

SAPPORO

The Cluster of “Carrozzeria” of Information Technology in Sapporo

Outline of the Project

Our goal is, to visualize products of Hokkaido’s IT industries, from “invisible, untouchable software” to “visible, easy-to-touch products.” To create this industrial platform, it is necessary to promote the style of industrial designing in order to raise the level of prototypes of Hokkaido’s IT industries up to the competitive level in world market. Toward that goal, we realize “carrozzeria” which creates highly-valued business with merging elemental IT-technologies and industrial designs with consciousness of “the usability,” focusing on the intelligence of Hokkaido University and research institutes of Hokkaido.

Members of the Headquarters

- President…………… SHIMOKAWA Tetsuo (Prof. Otaru Univ. of Commerce)
- Project Director…………… KITOU Koichi
- Research Director…………… AOKI Yoshinao (Prof. Hokkaido Univ.)
- Vice Research Director…………… YAMAMOTO Tsuyoshi (Prof. Hokkaido Univ.)
- Science and Technology Coordinator…………… OZAWA Wataru

Central Project Organization Northern Advancement Center for Science & Technology

Core Institute(s) Hokkaido Univ. Graduate School of Engineering

Participants

Industry…Hokkaido Venture Capital Inc., Datacraft Co.,Ltd., etc.
Institute…Hokkaido Univ., Univ. of Tokyo, Future Univ.-Hakodate, Hokkaido Tokai Univ.,
Hokkaido Institute of Technology, Showa Univ., Sapporo Medical Univ.,
Hokkai Gakuen Univ., Sapporo School of the Arts, Asahikawa National College of Technology
Government…Hokkaido Industrial Research Institute

Main Researchers

YAMAMOTO Tsuyoshi (Prof., Hokkaido Univ.)
KISHINAMI Takeshi (Prof., Hokkaido Univ.)
MORITA Toshiaki (Lecturer, Sapporo School of the Arts)
MATSUBARA Hitoshi (Prof., Future Univ.-Hakodate)
AOKI Yoshinao (Prof., Hokkaido Univ.)
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Outline of Researches

● Establish the Circumstances of Developing Embedded System of “Next-generation”, and Develop a Model-product

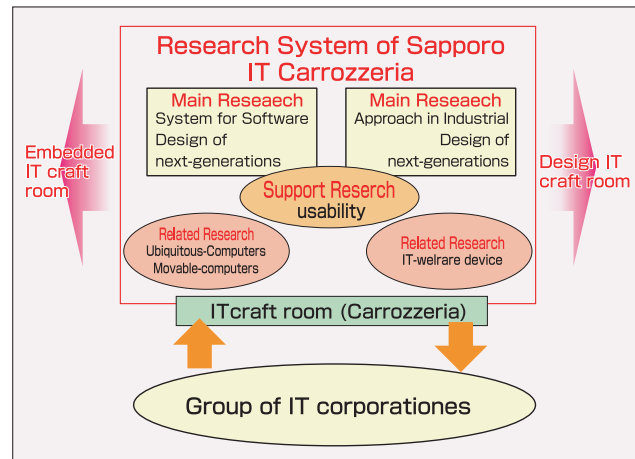
There are issues which cause spending too much time in manufacturing process, such as, “lack of portability in circuit design,” “constant returning procedures in board, exterior, and format designs.” Therefore, we establish the circumstances of developing IT facilities, and then we create a platform to develop highly-trusted embedded IT-products within short term. We also verify the versatility of developing circumstances and set-up libraries with a test manufacturing of an item, and improve practical developing circumstances and libraries to verify the circumstances with high productivity.

[Hokkaido Univ., Micronet Co.,Ltd., Softfront,Ltd., etc.]

● Project for Research and Development of Approach in Industrial Design of Next-generations

We develop “rapid-prototyping techniques” which enables to evaluate its functions on the software so that we obtain quick designing of industrial products with high-quality, which have excellent shape and operationalities in human-interface sections, with digital data.

[Hokkaido Univ., Hokkai Gakuen Univ., Sapporo School of the Arts, Asahikawa National College of Technology, Hokkaido Industrial Research Institute, Fujitsu Kyushu System Engineering,Ltd., Hitachi,Ltd., Mechanical Engineering Research Laboratory]



Goal of Image Figure of IT- Carrozeria

● Project for Research and Development of Usability

We develop evaluation programs which effectively evaluate usability in designing IT facilities.

[Sapporo School of the Arts, Hokkaido Tokai Univ., Future Univ.-Hakodate, Hokkaido Industrial Research Institute, etc.]

● Project for Research and Development of Applicable System

We develop circumstances focusing on required conveniences of ubiquitous computers which communicate each other to assist human operations. We also develop a test IT-device for welfare use.

[Hokkaido Univ., Univ. of Tokyo, Future Univ.-Hakodate, Hokkaido Tokai Univ., Hokkaido Institute of Technology, Showa Univ., Sapporo Medical Univ., Hokkaido Industrial Research Institute, C.work Co.,Ltd., etc.]

Expected Results

- Excavation of potential needs by visualizing products of Hokkaido’s IT industries
- Establishment of a bland as an attractive base for prototype production, by such reputations as, “if you order in Sapporo, you will get it whatever you want,” or, “when you think about a new product, why don’t you come to Sapporo?”
- Establishment of a cosmopolitan city of research, development and business by accumulation of talented people and excellent industries