

I-Face System : IBS Facilitator For 3d Modular Design Process In Building Construction

TECHNOLOGY DESCRIPTION

This technology is an Interface System for Facilitating 3D Modular Design Process in Building Information Modelling.

TECHNOLOGY FEATURES

This technology able to manage, simulate and exchange building data in digital format. It focuses on two major functions, to facilitate specifiers-manufacturers-builders on using Industrialized Building System (IBS) components and to facilitate naming convention system from design phase. This technology addresses the challenges in the product designing industry and the industry which are losing businesses due to the time taken to get the products to be manufactured. It also focuses on the challenges that are faced by builders such as wrong components for wrong sequence from the design process so builders know which ones when they receive from manufacturers.

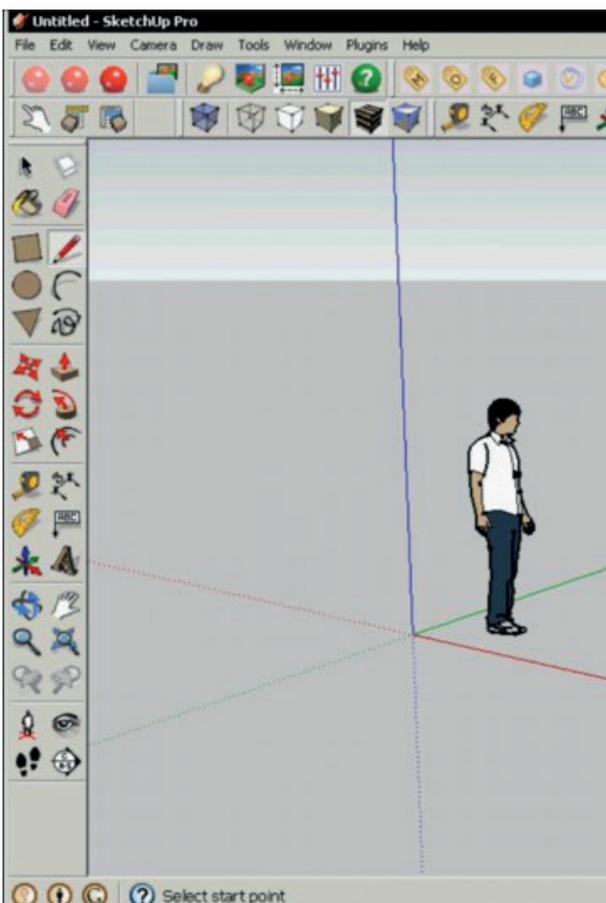
ADVANTAGES

- A potential BIM extension application for use by IBS specifiers
- Ensures products are being considered and used by specifiers during the design process
- Compatible with most BIM software

INDUSTRY OVERVIEW

Prospect: Engineering and Construction Industry, Manufacturing Industry

This system potential consumers would be industries from engineering, construction and manufacturing. Technology and digitalization is one of the key factors that would increase the productivity of these industries. Some examples are the growing number of construction projects that incorporates technology such as systems of digital sensors, intelligent machines, mobile devices; and new software applications which are increasingly integrated with a central platform of Building Information Modelling (BIM). The construction output will grow by more than 70% to \$15 trillion worldwide by 2025. China, India and U.S. will account for almost 60% of all global growth. Significant opportunities are growing for countries such as Indonesia, Vietnam and the Philippines which represent a \$350 billion construction market growing at more than 6% annually. By 2050, it is projected that there will be two billion additional city dwellers. Thus, sustainable urbanisation will be a major construction challenge; and the industry must strive to find innovative new products and solutions, to contribute to building better cities.



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