

# Mantra system

## Main contents

Previously, 2D data visualization software was used to visualize the operation status of the factory production line. We upgraded that 2D software to 3D software. Users can choose automatic or manual camera mode. In automatic camera mode, the camera automatically moves inside the factory along a determined route. In the manual camera mode, users can move the camera forward and backward and rotate the camera left and right by inputting buttons or using a mouse. In addition, they can instantly move the camera to the product line that they want to see by clicking the production line ID button. In both modes, if there is a production line on the screen that users want to see more details about, they can access the details page by clicking the panel of the production line. We made this software with four people and reached the stage where it could be used at the factory within the period.

## What kind of problem was solved by the project?

2D data visualization system is difficult for people who don't have deeper understandings of the underlying system. 3D data visualization system is easy for everyone to understand. Further, users can access the software anywhere in the company using mobile devices. As a result, factory production management becomes more efficient.



Fig. 1 The screen of finished product

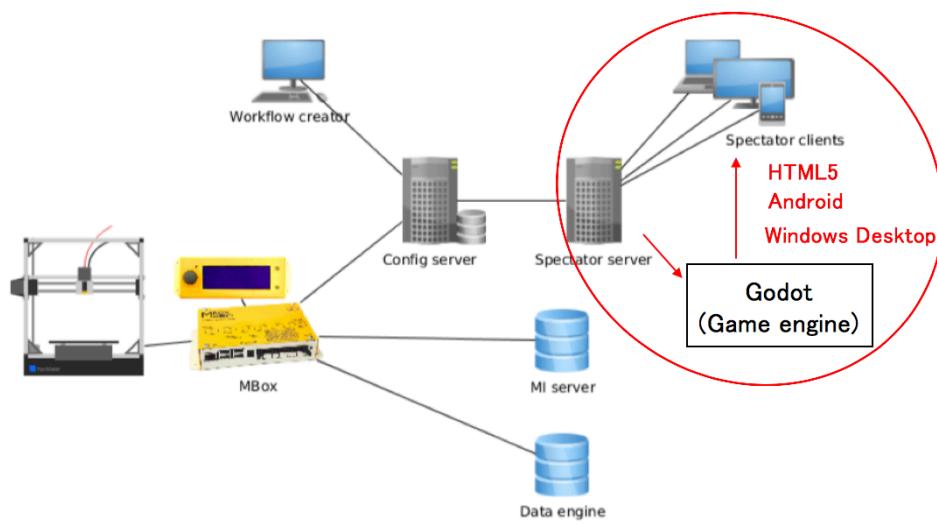


Fig. 2 Architecture