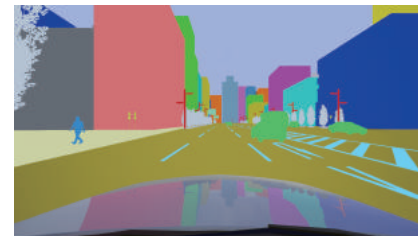
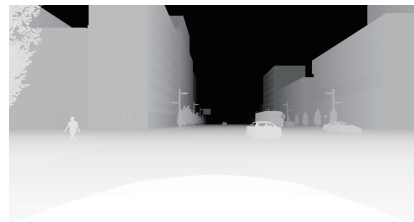




A controllable virtual environment optimized for simulating driving conditions.

The ADAS assist system is composed of various sensors such as an in-vehicle camera, millimeter-wave radar, and ultrasonic-sensor. The driving support system of the vehicle is composed of various sensors such as in-vehicle camera, millimeter-wave radar and ultrasonic-sensors. It is clear that a lot of data is necessary for self-driving vehicles, but in practice it is difficult to acquire and examine real-world driving footage and spatial data. Therefore, VERTEechs provides a controllable virtual environment optimized for simulating driving conditions.



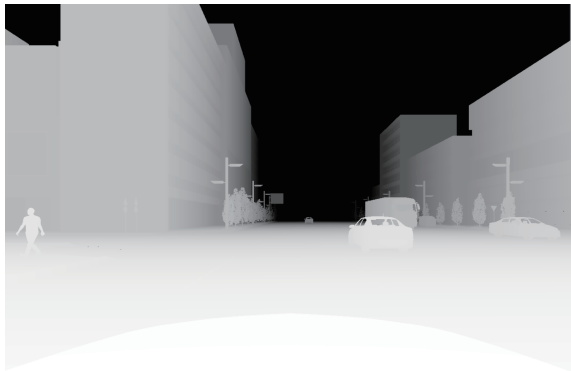
Large varieties of CG data sets optimized for AI training

Packages of "Basic Assets" including roads, vehicles, signs, signals, road-signs, etc. required for the development of self-driving technologies, coupled with configurable assets. Combination of "Asset Configurator" and "Basic Assets" will generate immense amount of scenarios of vehicle transfer very quickly. Optimized for AI training, different from usual CG data sets Useful data sets for generating training data as well as evaluating AI

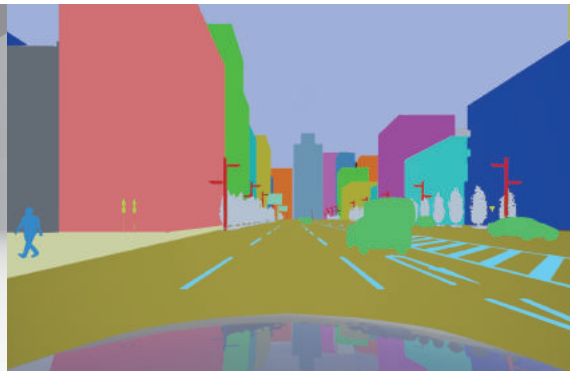


Verification of AI and the generation of training data

Variety of training data can be generated by using the virtual environment of "AUTO City" Automatic generation of annotation data,such as semantic segmentation and depth-map,suitable for deep learning. By using "V-Car Simulator" simultaneously, virtual self-driving can be verified in the "Camera in the loop" environment.



Depth map



Semantic Segmentation



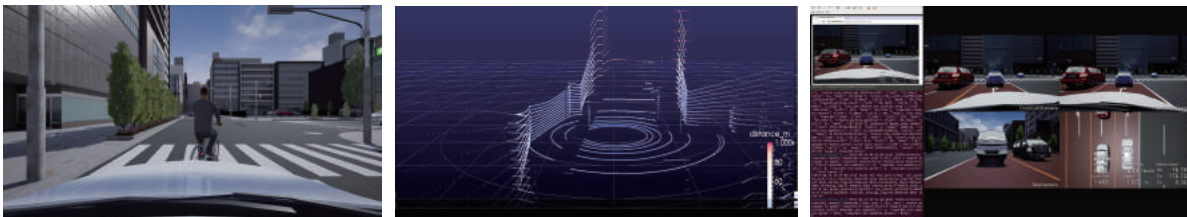
Region of Interest

By implementing our process we have confirmed that the object recognition systems used by deep learning react almost identically to reality. We have also demonstrated improved effectiveness through the use of our data.
(Special Thanks to Fujitsu)



Service of VERTEchs.

Low cost and rapid development of AI technologies for self-driving systems. Varieties of data sets with different conditions such as weather and human motions are provided, required for image recognition verification. Scenario with different patterns of vehicles, signals, pedestrians, etc. are also provided. Real image sensor data can be reflected in the CG environment. Varieties of requirements such as building fusion sensors including LiDAR sensor are accepted.



VERTEchs. Inc. is a joint venture company of ADAC(Advanced Data Controls) and wise,inc. ADAC has lots of connections with automotive companies and strong sales management. wise inc. has explored the advanced technologies in computer graphics for movies and TV commercials, and in realtime rendering using game engines.

VERTEchs. Inc. has obtained knowledge and know-how in providing software environment, suitable for automotive and industries such as robotics, which require high-level safety and reliabilities.

contacts —

VERTEchs. Inc 5F EM minamiazabu-building, 2-13-12 Minamiazabu, Minato-ku, Tokyo 106-0047 Japan
phone: 03.4582.2014 mail: sales@vertechs.jp URL: <http://vertechs.jp/>