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Shikino High-Tech Co., Ltd.

“Indoor location information system is realized and accelerated by Dead Reckoning technology“

～Accelerate joint development with SITESENSING Inc.～

Shikino High-Tech Co., Ltd. (HQ: Uozu Toyama, President: Mitsuhiro Hamada) which develops and manufactures electronic systems, has formed a business alliance to significantly improve and scale-up of SITESENSING Inc.'s (HQ: Chiyoda Tokyo, President: Takashi Hirabayashi) Dead Reckoning system “PDRplus System”, and accelerate the practical application of Dead Reckoning technology. Measure and convert the current position and movement status of operators in an environment where GPS signals do not reach such as factories, warehouses, underground facilities, tunnels etc., and jointly develop on-premises solution “PDRplus System On-pre One” that visualize movements of up to 300 people in real time. In April 2020, the two companies plan to make a joint market debut. The position information data obtained by this system is able to be applied to new technology application that can be used for improving work efficiency, confirming safety position, grasping the area of stay, etc. By visualizing and digitizing what has been perceived sensuously so far in real time, it can contribute to a wide range of applications.

SITESENSING Inc. was founded in 2012 and started full-scale business as an AIST's technology transfer venture company. Based on measurement technology to grasp the current situation, the company is advancing Dead Reckoning technology development dramatically.

Shikino High-Tech Co., Ltd. is deeply related to the manufacturing sites of electric devices and parts. The company understands that grasping the location of indoor operators who are out of GPS signals leads to significant benefits for not only productivity improvement at manufacturing sites but also clarification of manufacturing cost / labor cost, management of operator actions / safety confirmation, etc. In addition to this knowledge, the company has already implemented POC of “PDRplus System” at multiple companies together with SITESENSING and received high evaluation. Under these circumstances, the joint development of “PDRplus System On-pre One” is decided to proceed concretely.

Dead Reckoning has been described as a breakthrough technology that enables positioning out of GPS environment since around 2015. However, since it was assumed that the equipment (sensor module) needs to be mounted, it had not reached full-scale spread due to problems of module size, weight, continuous operation time etc. “PDRplus System On-pre One” is expected to spread in the market because it uses Android smart phone as a mounted module and becomes an on-premises type system that anyone can execute instantly with low cost at anywhere.

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