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eTRUST Co., Ltd.  
DSR Corporation

## **Business partnership with DSR Corporation to develop river monitoring systems utilizing Edge AI Camera**

### **■ Outline**

eTRUST Co., Ltd. (Headquarters: Taito-ku, Tokyo; CEO: Ryuichi Sakai, hereinafter referred to as the “eTRUST”) and DSR Corporation (Headquarters: Denver, Colorado, USA; CEO: Anatoli Pechkov; hereinafter referred to as “DSR”) is pleased to announce that we made a business partnership agreement to develop a river monitoring system incorporating AI functions.

### **■ Background of development**

In recent years, torrential rains and typhoons becomes larger. Therefore, there is an urgent need to take measures to prevent floods that may cause devastating damages across the country. eTRUST participated in the "Innovative River Technology Project" led by the Ministry of Land, Infrastructure, Transport and Tourism, and we have successfully delivered simple river surveillance cameras to many local development bureaus and local governments. In order to improve the functionality of river surveillance cameras, we made a business partnership with DSR. DSR has extensive knowledge and experience in the AI field. Through this partnership, we will work together to develop efficient and highly accurate river monitoring cameras that incorporate AI-based water level detection functions.

### **■ Detail of development**

We will develop "Edge AI camera" that combines DSR's computer vision technology and eTRUST's river monitoring system technology. The AI-based camera has a function to detect the water surface from images taken by the camera and read the water level with high accuracy. Conventionally, the river water level was monitored by human. AI can reduce the burden of human and also prevent flood damage through remote monitoring system with a quick and safe method. Our accurate and efficient water level observation system can help local governments and government offices that has concern of manpower shortages to build appropriate disaster prevention systems. We have already started demonstration experiments on a pilot system and plan to commercialize our system next spring. In the future, we will expand the scope of monitoring not only to rivers but also to road flooding and snowfall, mountain environmental monitoring, and countermeasures against wildlife damage. We will keep our effort to promote our system that could improve data collection even in severe environment.



Edge AI camera (Prototype)



Images with marking by AI

### ■ DSR Corporation Comment from Anatoli Pechkov, CEO

DSR has been delivering mission-critical applications on the market since 1998. This time partnering with eTRUST DSR has a unique opportunity to offer an advanced software solution that directly supports the safety and well-being of local communities located in flood-risk areas. We are proud to work side by side with eTRUST as a real trusted partner.

We are looking forward to creating AI and Computer Vision solutions that serve people around the globe.

### ■ eTRUST Co., Ltd. Comment from Ryuichi Sakai, CEO

Natural disasters caused by global warming are major issues not only in Japan but all over the world. The improvement and promotion of disaster prevention monitoring systems such as river monitoring are urgent issues. We will contribute to solving this social issue by incorporating DSR's latest AI technology based on our many years of experience in building disaster prevention systems.

### ■ Company information of DSR Corporation

DSR is a software services company with advanced technology in fields such as computer vision, wireless communications, and data processing. DSR has bases in the United States, Portugal, Uzbekistan, Taiwan, and Japan. In addition to AI system development, DSR delivers software development and consulting services to the ICT market with unique products and know-how in various elemental technologies such as data processing and IOT frames.

### ■ Company information of eTRUST Co., Ltd.

Since its establishment in 1935, eTRUST has been engaged in infrastructure construction such as rivers, roads, and public facilities under the jurisdiction of government offices and local governments, construction of base stations for major communication carriers, and solar power construction based on electrical equipment and information communication technology. In addition to these fields, we are currently working on the development and promotion of disaster prevention solutions based on the knowledge and successive track records over many years.

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