

A Study on the Service model of risk mitigation on livestock pandemic based on Networks

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Abstract

The service model for the risk mitigation based on networks described in this paper covers real time data acquisition, monitoring of risk events, and provision of mitigation services for the identified risks. It occurs regularly every year and the goal is to minimize the killing and loss of livestock by monitoring in advance for quarantine of African swine fever, avian influenza, foot-and-mouth disease and bovine spongiform encephalopathy to use the network and AI technologies. Animal epidemics, which occur regularly every year, are causing economic losses worldwide and a great crisis in securing food resources.

For the prevention of such livestock infectious diseases, it is more problematic because it is handled manually and there is no standardization procedure until now.

A service model is required to derive necessary service features that support these missions. Therefore, the service model is proposed in this paper for the future standardization.

Keywords— Risk mitigation service, Livestock pandemic, Risk mitigation action, Risk monitoring function



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