

Application and Construction Experience of Civil IoT Taiwan's Private Network

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Abstract : The technology of the Internet of Things (IoT) has been well-matured. With the development of network transmission technologies, the communication methods adopted by IoT have also become increasingly diverse. The cost of network communication is still an important factor in whether the IoT can be widely deployed. As a result, IoT deployment still heavily relies on government funding and cannot be fully supported independently by private enterprises. The purpose of this article is to introduce Taiwan's Civil IoT Program, which uses non-commercial network frequencies to create experimental IoT private network services that are for the public's benefit. This article also highlights how the program promotes public-private cooperation between the government and private industries, creating applications and demonstration experiences and outcomes for IoT private networks. The program aims to promote IoT development, expand the scope of environmental data collection, and ultimately achieve the purposes of disaster prevention and mitigation.

Keywords : digital divide, Internet of Things, Band20, IoT private network, rural development

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