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Development of Mobile Ecosystem for Smart Sharing of Domestic Water Efficient Collection and Supply Management, for Quetta City

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Abstract

This study focuses on the communication among various devices to share real-time information on smart devices. In this paper, we proposed a novel concept for domestic water collection and supply (DWCS) information sharing over a wireless sensor network (WSN), which uses mobile communication networks (MCN) for a Smart Mobile Ecosystem (SMES). This paper proposes a smart sharing of DWCS based on SMES on five components for efficient collection and smart supply sharing of domestic water, viz., inputs, facility, communication, event evaluation, and output. This approach develops ubiquitous computing to meet the desirable domestic water requirements. The smart collection and sharing of domestic water supply uses Information and Communication Technology (ICT) for connecting water and sanitation agency (WASA). The WASA authority linked to the main server through assigned IPs. The aggregated information is shared with end-users. Our propose SMES platform establish IP-DWCS components communication among each other, central processing room (main server), WASA links with end-user.

Keywords: Domestic Water Collection and Supply; Smart Mobile Ecosystem; Smart Sharing; Information and Communication Technology; Water and Sanitation Agency; Mobile Communication Networks.

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