A multimodal speech-based Scrum Board for Agile Healthcare Inclusion of Traditional Healers in Rural Healthcare

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Abstract. As per a previous study "Healthcare systems can use the telemedicine paradigm or traditional direct care approach to deliver health services to the population and an Agile healthcare, learning from the agile software development methodology, seems to be an approach today to face the complexity of healthcare delivery." The present work is a follow-up of the previous work that aims at implementing a speech-based Agile Healthcare solution in order to boost and improve a collaborative work between health care professionals and traditional healers, who are mainly illiterate.

The proposed, designed, and implemented solution is a full-fledged medical practice that brings together isolated health workers and urban-based specialists through an adapted speech-based scrum board in a multidisciplinary remote health care delivery system. Rural health workers can, for example, send to specialist surgeons the contents of their patient notes, lesion photos, X-rays and be remotely accompanied in diagnosing and treatment. This linking is intended to facilitate or improve the accessibility, quality and effectiveness of medical care. The main aspect and novelty of the system are to use speech-based scrum board to enable traditional healer's inclusion in to a telehealthcare system.

This is an ongoing work. Action-based research and testing are ongoing too and will be reported at the conference.

Keywords: Agile healthcare, Multimodality, Scrum board, Inclusion, Speech-based solution, Health care accessibility.