A Connected Health Evaluation Framework

Executive Summary

There are few efforts which have established an evaluation model to encapsulate and assess the value and potential impact of Connected Health solutions from multiple stakeholders' perspectives. This study examined information systems (IS) and health information systems (HIS) literature to identify whether a model could apply to Connected Health.

However, many of the evaluation models are narrow in focus but have influenced our development of the Connected Health Evaluation Framework (CHEF) (Figure 1). CHEF offers a generic approach which encapsulates a holistic view of a Connected Health evaluation process. It focuses on four key domains: end-user perception, business growth, quality management and healthcare practice.

Commercial Opportunities for Industry

The proposed CHEF has resulted from our literature review in the search for an evaluation solution. There is a clear correlation between Connected Health functionality and healthcare net benefits from multiple perspectives. Our proposed CHEF will be further validated through continued industry engagement and Connected Health technologies to accommodate the rapid growth of healthcare IT solutions.

The CHEF can also promote innovation by guiding evaluation at all stages of the health IT product lifecycle and encourage organisations to consider the complex socio-technical ecosystem in which healthcare products are developed, implemented, and used. This work can support companies in understanding the evaluation process for Connected Health solutions. We can support companies identify the key elements of the service lifecycle and identify net benefits of various components of the lifecycle phases.

We would welcome additional research on the application of CHEF with industry solutions to support the next phase of this research to identify specific metrics within the evaluation process.

Companies with a commercial interest in these connected health opportunities or who are intertested in collaborating with ARCH should contact the Project Co-ordinator on info@arch.ie or call 01 7165400.

Project Lead
Dr Noel Carroll
e: noel.carroll@lero.ie

Collaborators
S3 Group, Vitalograph, Novartis

Research Theme
Data

Completion Date
26/02/2015

Project Deliverable*
Report/Literature Review

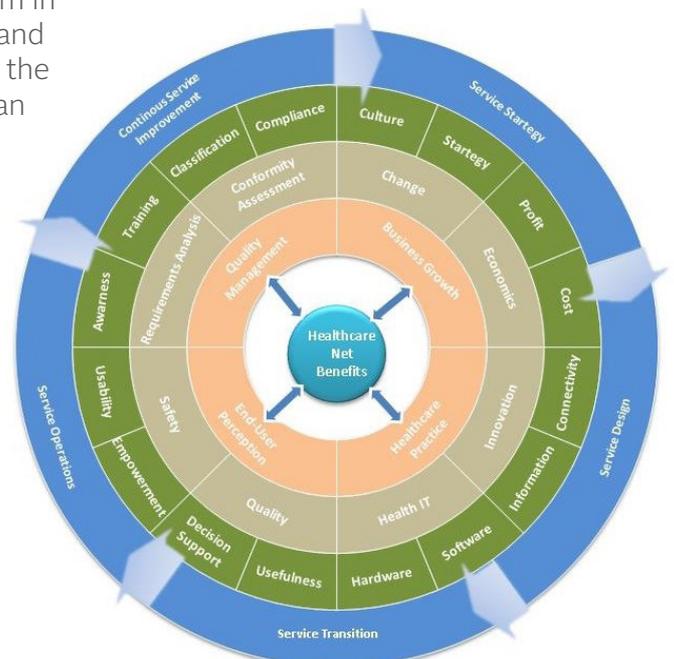**ARCH Industry Members have full access to this report*

Figure 1. Connected Health Evaluation Framework (CHEF).