

Knowledge Capture for Self Management of Long Term Conditions

The SMART Consortium

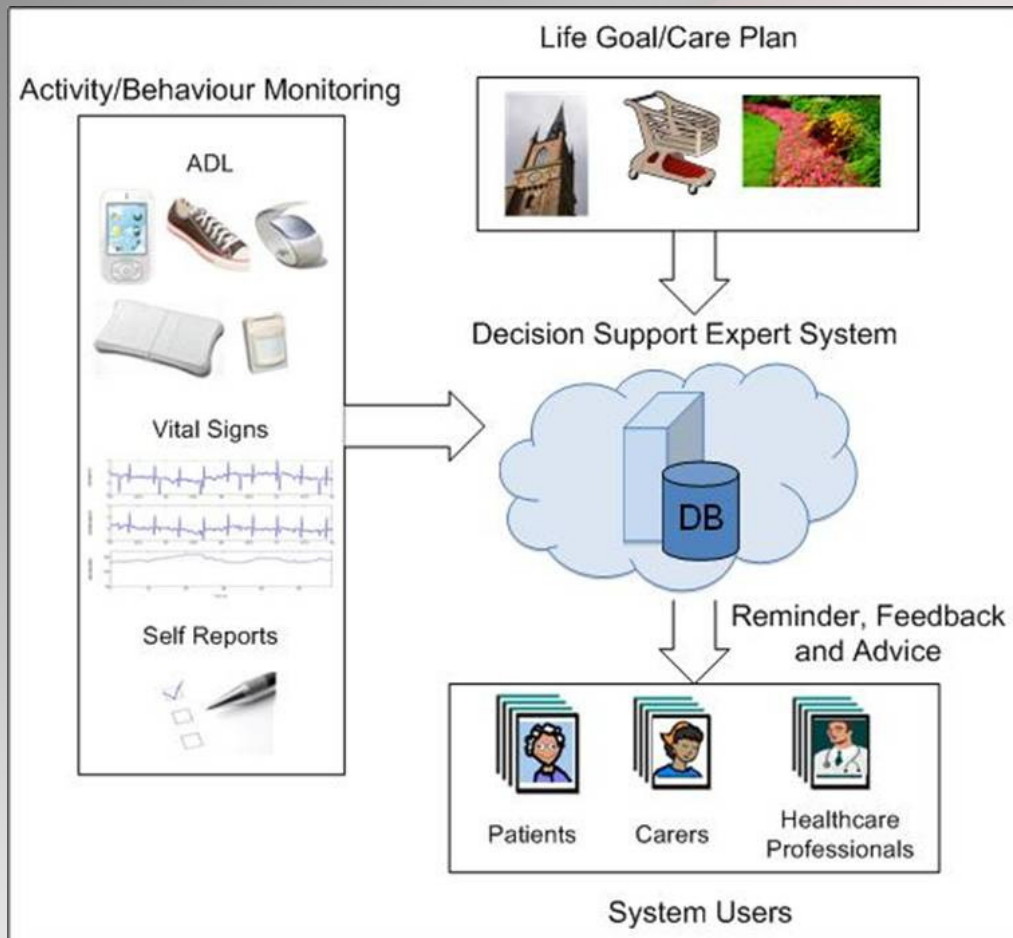
www.thesmartconsortium.org



Self Management of Long Term Conditions

- In the UK, 17.5 million adults are estimated to be living with a chronic disease, resulting in adverse long term health conditions.
- Self management encourages the person to solve problems, take decisions, locate and use resources, identify an action plan and take actions to manage their condition.
- There is evidence to show that self management can ameliorate the adverse effect of these conditions and possibly reduce the costs of healthcare delivery.
- The SMART consortium is developing a self management platform and evaluating this platform for people with chronic pain, congestive heart failure and stroke.

SMART2: Personal Self Management System



Knowledge Capture

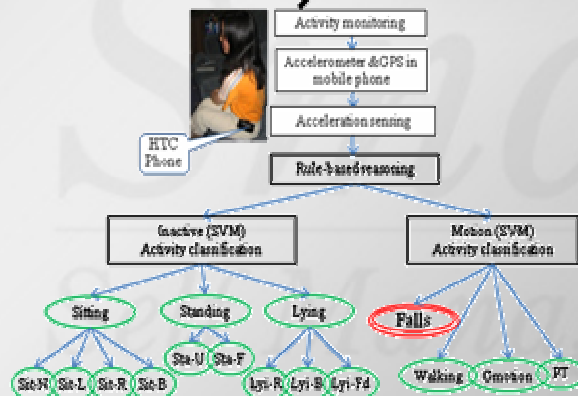
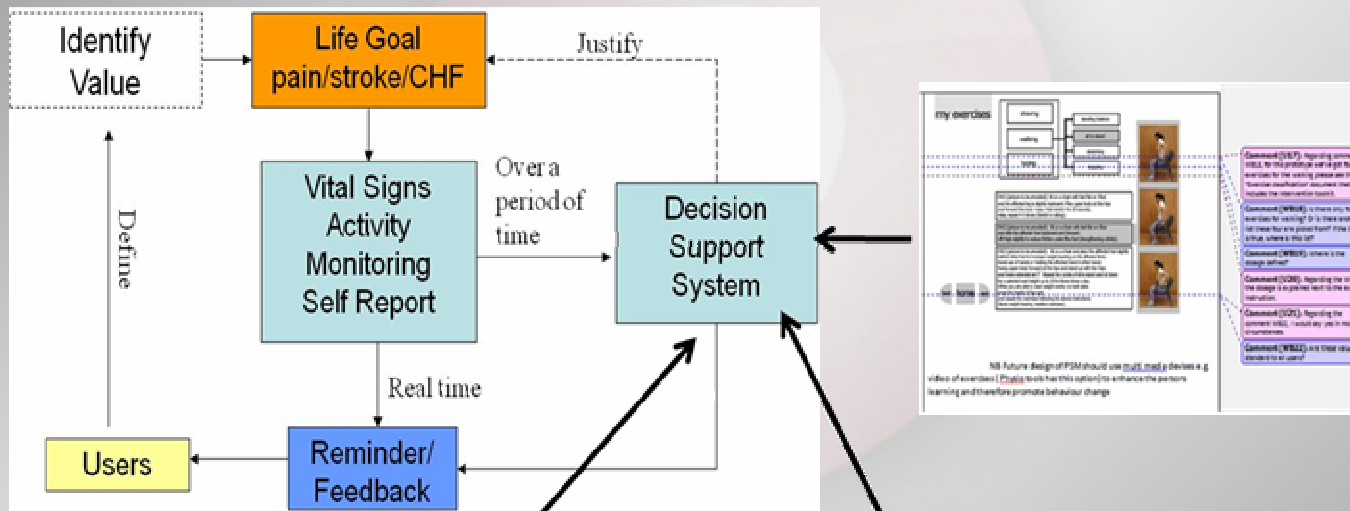
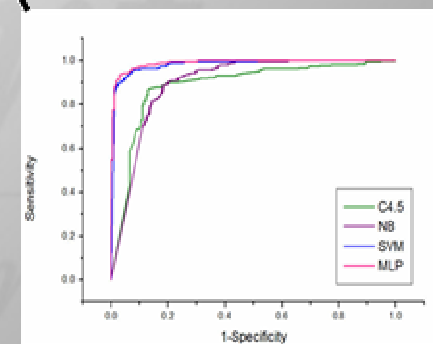


Figure 1 Activity-related extraction using a hierarchical classification algorithm.



Feedback for Self Management



Two approaches to knowledge acquisition were used: (i) obtaining knowledge from the stakeholders (ii) obtaining knowledge from the PSMS, as the user undertakes activities of daily living in pursuit of their end-goals. Knowledge capture requires abstraction of key process used by the stakeholders and the use of data mining procedures to obtain information patterns, which we believe can ultimately be used to promote effective self-management.