

Overview

WeKnowIt is a 3 year Integrated Project developing novel techniques for exploiting multiple layers of intelligence from user-generated content, which together constitute Collective Intelligence, a form of intelligence that emerges from the collaboration and contributions of many individuals. WeKnowIt transforms the large-scale and poorly structured Social Media to meaningful topics, points of interest, social connections and events.

Applications

WeKnowIt demonstrates the applicability of its achievements through two case studies: (i) An Emergency Response case study where users provide intelligence about large scale emergencies (e.g. flooding or fire), empowering a more effective and informed response (ii) A Consumers Social Group case study providing user-based recommendations for points of interest and events before and during traveling and assisting post-travel content management.

WeKnowIt technologies are also applicable in a wide range of applications, such as in e-government for analyzing citizens feedback for enhanced planning and decision making, and in cultural applications for linking user generated content with formal collections.

Research and development

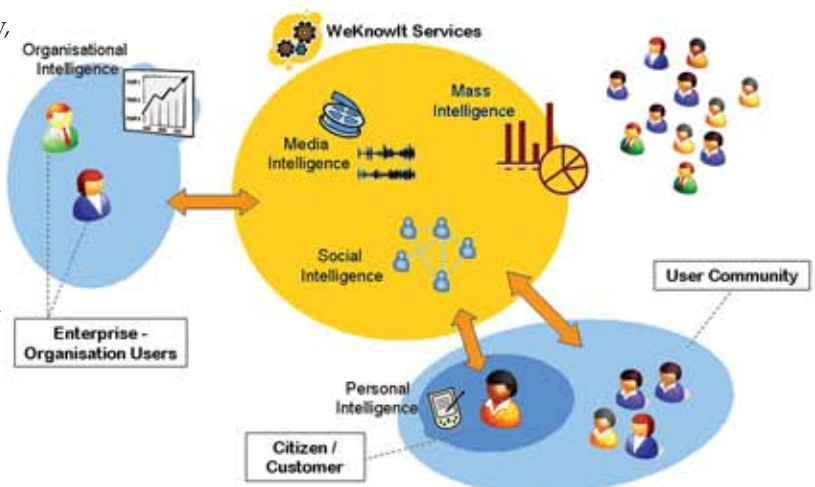
Personal Intelligence: The provision and access of information adapted to specific user requirements, such as their profile, preferences, situation, etc. Providing upload and access interfaces for multimedia information from multiple modalities which are responsive to user context.

Media Intelligence: Automated content analysis and retrieval techniques, based on visual image similarity, as well as advanced speech and textual content processing for extracting knowledge from the content itself. Fusion of information from different sources/modalities, contexts (e.g. time, location) and social connections.

Mass Intelligence: Topic, community, location, entity and event recognition by interpreting user feedback on a large scale. Utilization of information stored in tags and social networks, modelling dynamics of items associations via user feedback, and practical faceted navigation in large scale knowledge bases. Scalable clustering techniques using content similarity graphs.

Social Intelligence: Development of the flexible Authorization Design Language (ADL) for user authorization in social networks related applications. Analysis and visualization of large, evolving social networks for structure and user role extraction.

Organisational Intelligence: Development of Event-Model-F, a formal representation of the different aspects of events such as time and space, composition, causality, correlation, and documentation. Distributed group management (dgFOAF) based on the Friend-of-a-Friend (FOAF) vocabulary. Consolidation of unstructured citizen information around facets such as location, time and topic.



For more information visit <http://www.weknowit.eu> or email to ikom@iti.gr