



# BACKGROUND

## INTEL IN HEALTHCARE

### **Connecting People and Information to Improve Healthcare**

Drawing on Intel's heritage as a technology innovator, the Digital Health Group brings Intel's knowledge and technical expertise to improve the overall healthcare experience, working with and listening to the experts from the healthcare industry. The Digital Health Group is working with both the information technology industry and the healthcare industry to deliver computing and communications solutions that connect people and information in new and important ways.

### ***A Commitment to Connecting People and Information for a New Model of Care***

Today we face a worldwide growth in chronic conditions and an aging population that will place a potentially catastrophic burden on the healthcare system. Technology is the essential ingredient to evolving the current model of care and enabling seamless interaction and high quality information exchange throughout the complex healthcare system. Intel's Digital Health Group is helping accelerate healthcare quality improvement efforts around the world by delivering innovative, game changing, digital technologies that make it possible for people to protect and enhance their health on a continuous basis throughout their lives independent of location - from the hospital to the home to the human body. Our mission is to enable patients, their families and healthcare providers to connect to the right information at the right time so they can make better and more informed decisions about their health.

### ***A Unique Point of View***

Intel has been active in healthcare research for the last eight years. The Digital Health Group is drawing on Intel's heritage as a technology innovator to focus on people-centred research. The Digital Health Group's Health Research and Innovation team is one of the largest teams of social scientists and engineers in the industry. The members of this team go to homes, hospitals and doctors'

offices, living or co-locating with patients, doctors and nurses over long periods of time to observe and understand their specific needs. This work serves as a starting point for Intel's product design teams to ensure that end user needs are the central design point for development of the technology.

### **Technology in Healthcare**

Intel has worked with public and private hospitals and hospital systems around the world to understand their information technology needs and business objectives. Some key areas of focus include the adoption of Electronic Medical Records (EMRs), mobile point of care, clinical information systems, management information systems and digitized imaging. Intel is committed to driving standards, interoperability and EMR adoption to create Integrated Digital Hospitals. The goal of is to improve efficiency and access to quality patient care by enabling a secure and seamless flow of information to the point of care or decision.

In February 2007, Intel launched the mobile clinical assistant (MCA) which was developed with NHS Connecting for Health. It enables nurses to spend more time with patients, and manage the administration of medications on the move while remaining connected. The MCA is an important step toward connecting clinicians to comprehensive patient information on a real-time basis. The lightweight, spill-resistant, drop-tolerant and easily disinfected MCA allows nurses to access up-to-the-minute patient records and to document a patient's condition instantly, enhancing clinical workflow while reducing the staff's administrative workload. The MCA is available from Panasonic, Philips and Motion Computing. Philips has also announced plans to bring an MCA to market.

### **Personal Health Systems Empower People and Patients**

Personal health technology can empower people to track and manage their fitness, stress level, chronic disease or care for an elderly family member. Intel's personal health research has focused on helping people monitor and improve their health and wellbeing, and help healthcare organisations deliver higher quality care more efficiently.

By connecting patients, their families and healthcare providers to the right information at the right time allows for more informed decision making, while empowering patients to take a more active role in their own care from the comfort and convenience of their home.

Intel is developing products to better care for ageing and those people with long-term conditions, the first of which is the Intel<sup>®</sup> Health Guide, a care management tool designed for healthcare professionals who treat patients with chronic conditions, for the UK. The Intel Health Guide represents Intel's entry into a new category of personal health systems that go beyond the simple remote patient monitoring systems available today.

The Intel Health Guide, a regulated device that carries the CE mark under the EU Medical Device Directive, is a comprehensive personal health system that combines an in-home patient device — the Intel Health Guide PHS6000 — as well as an online interface — the Intel® Health Care Management Suite — allowing clinicians to monitor patients in their homes and manage care remotely. Additional localised European language versions of the Intel Health Guide will be announced throughout 2009.

### **Interoperability and Standardisation**

Transformation in healthcare will not be possible without standards based interoperability. Intel has collaborated with companies in all major industries globally and is known for establishing and contributing to a wide range of standards groups and consortia to drive interoperability.

In June 2006, Intel and other founding member companies announced the formation of the Continua Health Alliance. Today, the Alliance has over 150 members from business and representative organisations. This open industry group seeks to ensure that health technologies are compatible and meet common standards. The main focus of the Alliance is on creating guidelines for industry across three major categories: chronic disease management, monitoring the health and healthcare needs of aging people and proactive health and fitness.

### **For further information please contact**

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