

Korea is striving to be one of the top three advanced countries in the next-generation PC field as they are central to the ubiquitous computing environment.

technology by importing technology and encouraging international joint research. Smart I/O and software technologies will be promoted through international exchanges of developed home-grown technology and support to domestic industry. Korea will focus on the development of wearable computer and next-generation human interfaces by maximizing the use of its network infrastructure. The technology will be applied to differentiate a wide array of products to enhance consumer convenience.

In the future, Korea will explore applications adopting bio-technology to develop various micro-product models using a single chip and thus, create a new market. It is essential for the next-generation PC industry to develop utilization models that will help secure them a firm footing and enhance their national competitiveness. The government plans to assist the industry by developing various utilization scenarios centering around main PC user groups and reflect these scenarios in technical development. It also plans to apply developed technologies and utilization scenarios to pilot projects on college campuses and in the retail industry to get a head start in developing the next-generation PC market. The government will hold next-generation PC industrial exhibitions as well as wearable computer fashion shows to give people a preview into the ubiquitous lifestyle and enhance the popularity of next-generation PCs.

VI. Embedded S/W

The government put forward its vision to realize the “Embedded, Everywhere” nation by continuously developing embedded S/W core technologies and fostering the embedded software industry. Part of the vision also has Korea growing into one of the world’s two major embedded S/W producers by providing embedded S/W solutions into platforms that can be used to develop products of various sizes and in every product line.

Embedded S/W is an engine for various information devices, particularly those in the next-generation sectors. Initially, embedded S/W platforms will be developed taking into account the technical requirements of smart phones, mobile communications, robots, digital broadcasting, digital homes, and telematics. For this purpose, the government devised mid and long-term plans to develop three

types of embedded S/W platforms (standard, micro, nano) depending on the features and sizes of the embedded systems. In addition, it will secure four solutions (for mobile devices, information devices, sensor devices and industrial devices) with an eye to the application sector. Developed embedded S/W platforms and solutions will be widely used, not only for pilot projects of the next-generation growth engine scheme, but also for the purpose of environmental protection and disaster prevention.

To realize the vision of the embedded S/W industry and to achieve the government's mid and long-term goals, the government will support the development of embedded S/W core technologies and strengthen competitiveness by securing source technologies, providing technical support and promoting international cooperation. In a bid to establish embedded S/W platform standards, the Embedded S/W Industry Committee will lead domestic efforts while Korea, China and Japan are closely working together to adopt tri-country common standards. The government also works hard to produce high-quality embedded S/W engineers with architect-level skills through the development of six-track education kits.

VII. S/W Solution & Digital Contents

The digital contents and S/W solution industry is an industry that improves on the emerging digital convergence network environment and enhances the utilization and values of ubiquitous devices such as robots, telematics and DTVs. In order to develop the nation into one of the five major digital content countries by 2007, the Korean government aims to secure digital content production technology. With regard to the S/W solution industry, Korea hopes to transform itself from S/W consumer to S/W producer with a goal of becoming one of the world's three major countries by 2007.

With the objective of becoming one of the five major digital content countries, the Korean government encourages the development of digital content production technology.

The government selected and focused on areas of strategic technology development, and established global cooperation by expanding international joint research and attracting foreign R&D centers. To maximize the outcome of projects, the government will influence market conditions and needs, strengthen support for corporate commercialization, and develop human resources.