

CURRENT/FUTURE NANOTECHNOLOGY POLICY AND R&D IN KOREA

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In 2001, the nanotechnology in Korea was initiated by the Nanotechnology Development Promotion Act, which has driven the government investment on nanotechnology field and to establish the nano-infrastructure in Korea. During last two decades, there have been the drastic growth and outstanding outcome in nanotechnology of Korea, in the view of science and technology, including industry. The strategy in nanotechnology development is planned in detail, when being classified as nanomaterials, nano-devices, nano-bio, nano-energy/environment, nano-process/-measurement, and nano-safety. The status of government investment and key achievements is briefly introduced and some insights are discussed. In this talk, I would also like to present the current R&D policy of Korea and an outlook for next decade of nanotechnology in Korea, for instance, National Nanotechnology Initiative of Korea, National NT Roadmap, several national R&D projects, and etc. It is noted that the nanotechnology of Korea has simultaneously been developed in industry side as well as S&T field. Typical examples are presented with statistics related to the achievement in nano- S&T and nano-convergence industry. The nanotechnology of Korea is developing on the basis of open innovation with domestic and global partners, i.e., S&T colleagues and industrial collaborators.