



In search of the next big thing

## Nokia Research Center

Nokia Research Center, founded in 1986, is Nokia's corporate research unit of about 1100 employees, representing 5% of Nokia's entire R&D workforce.

Nokia Research Center's mission is to renew Nokia through strategic and long-term research. "Renew" means thinking beyond where the rest of the company is thinking, thinking differently from the rest of the company and having the responsibility to refresh and reinvent the company.

Though Nokia Research Center has been conducting research for 20 years now at Nokia, this does not mean that it has settled into a routine way of working. Today, Nokia Research Center is very much a living organization, always ready to renew itself and blaze new trails. Nokia Research Center has been transforming itself in many ways - today the organization reflects dual approach to innovation to seek core technology breakthroughs and identify new business opportunities through exploratory systems research.

Nokia Research Center has nine sites in six countries: Finland (headquarters), Germany, Hungary, China, Japan, and USA.

### Co-operating with universities and the industry

Nokia Research Center cooperates with many leading academic institutions and other technology companies in many research projects. Nokia works with approximately 100 universities globally.

In April 2006, Nokia Research Center and the Massachusetts Institute of Technology, Computer Science and Artificial Intelligence Laboratory (CSAIL), opened the Nokia Research Center Cambridge, MA, USA, to foster more open innovation with the research community with the goal of advancing the state-of-the-art in mobile technologies. Currently Nokia Research Center is expanding this mode of working in Silicon Valley, as well as looking into other innovation hotspots worldwide.

Nokia Research Center also represents Nokia in many standardization bodies and large international cooperation projects, such as the European Union Framework programs and EUREKA clusters ITEA (embedded systems) and CELTIC (telecommunications). Nokia Research Center representative also currently chairs WWRF (Wireless World Research Forum), a forum formulating visions on research strategies in the communications industry. In the European 6th Framework Program, Nokia leads the MobiLife research program on user driven communications solutions for the future. MobiLife is part of the Wireless World Initiative, group of projects, involving about 100 organizations and being born from WWRF.

### Intellectual Property Rights

One of the main targets of Nokia Research Center is to create IPR (Intellectual Property Rights) for Nokia. In this the unit has been very successful, with nearly half of Nokia essential patents originating from Nokia Research Center.

- 1407 Nokia Research Center based Invention Reports in 2005 - 31% of all Nokia invention reports
- 311 patents granted in 2005 in 268 patent families

**Key figures on R&D in Nokia\*:**

- Global network with R&D centers in 11 countries
- Over 20,882 people in R&D at the end of 2005
- R&D personnel represents 36% of Nokia's total workforce
- Nokia's R&D expenditure totaled EUR 3,825 million in 2005 (11.2% of net sales)

\*Nokia, December 2005

For more information, please see <http://research.nokia.com/>