

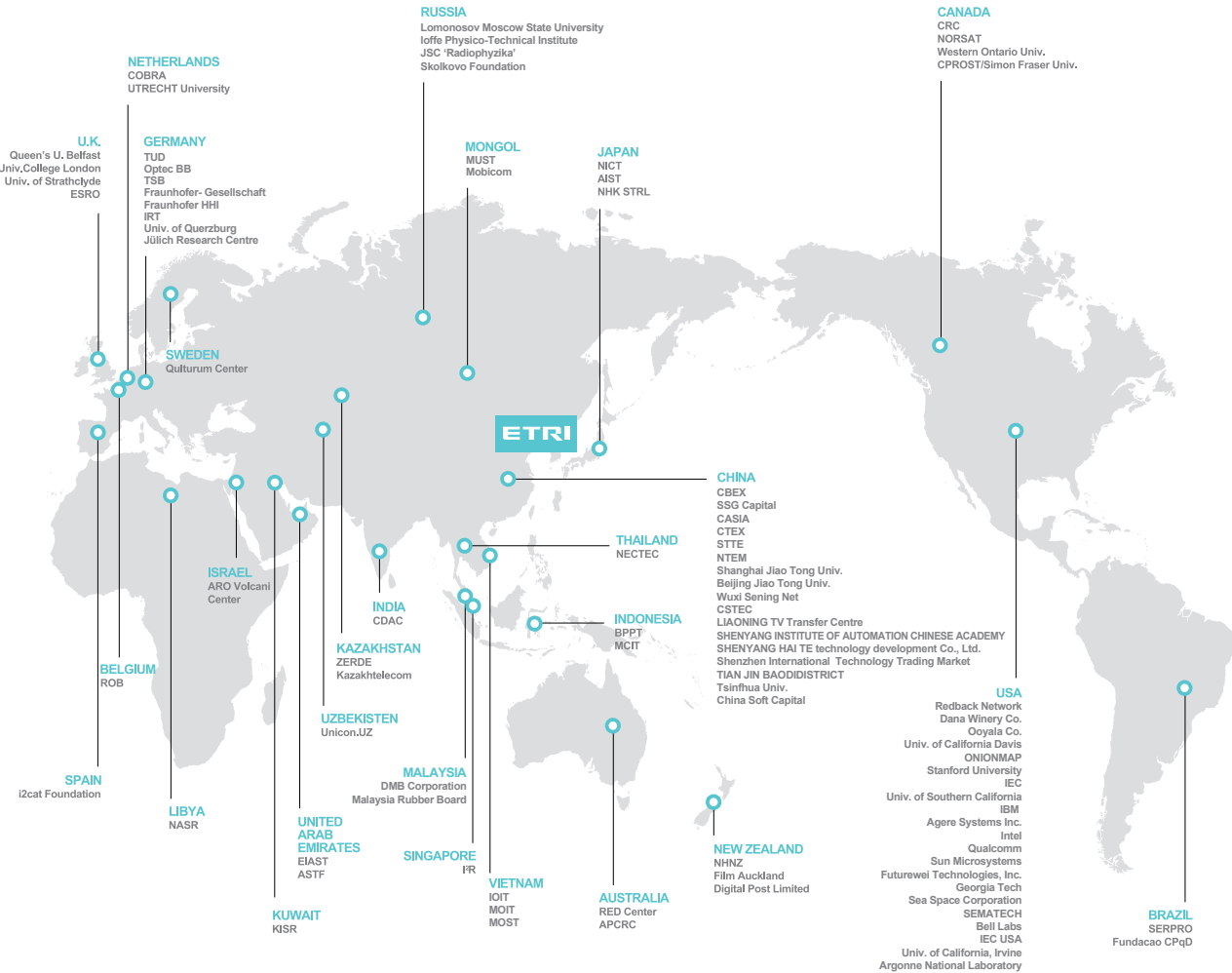
공통핵심기술 Common Core Technology

ICT기반 창조경제를 견인하기 위한 융합·ICT생태계 기반의 연구추진체계

Research planning system to build ICT based
Creative Economy through convergence ICT ecosystem



글로벌 연구협력 네트워크 Global R&D Cooperation Network



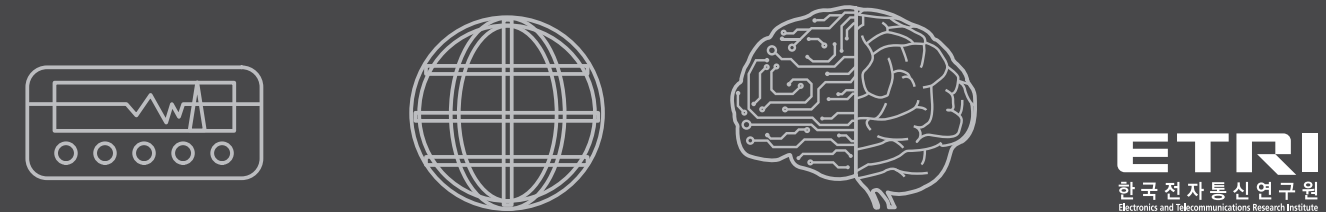
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ETRI USA R&D CENTER : 2350 Mission College Blvd. Ste. 340 Santa Clara, CA 95054, USA Tel : +01-408-889-8460

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ETRI 한국전자통신연구원 Electronics and Telecommunications Research Institute 218 Gajeong-ro, Yuseong-gu, Daejeon, 305-700, KOREA



CREATE ICT

Electronics & Telecommunications
Research Institute



비전 Vision

미래를 창조하는 ICT Innovator
ICT Innovator For a Great Tomorrow

경영목표 Management Principle



추진전략 Strategy

지속적인 변화와 혁신을 통한 창의 경영
Creative management through continuous improvement and innovation



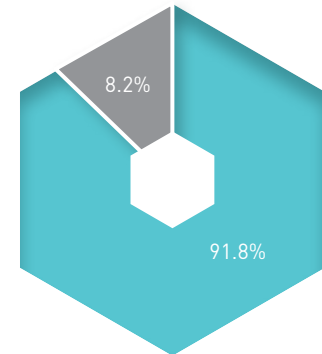
인원 / 과제 수행실적
Personnel / Project Status

인원현황
Personnel Status

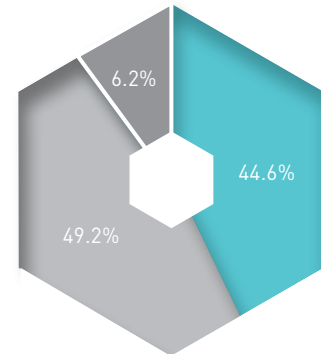
총 인원 : 1,944명(2013년 말 현재)
Total : 1,944(as of year 2013)



● 연구/기술직 1,784명(91.8%)
Research/Technical Staff : 1,784 (91.8%)
● 임원/행정직 160명(8.2%)
Board Member/Administrative Staff : 160(8.2%)
● 박사 866명(44.6%)
Doctoral : 44.6%
● 석사 957명(49.2%)
Masters : 49.2%
● 학사 이하 121명(6.2%)
Below Bachelors : 6.2%

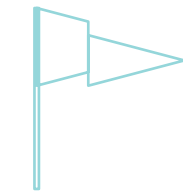


직종별
Type of Work

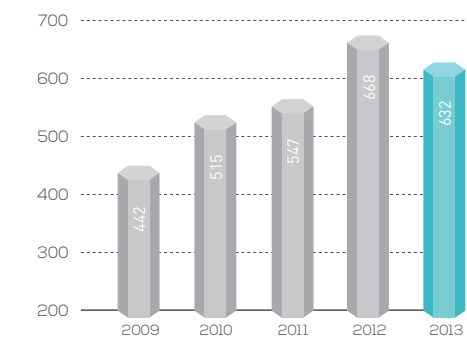


학위별
Status of Degree Holding

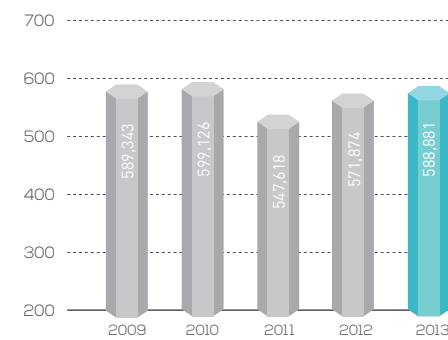
과제 수행실적
Project Status



과제 수 / 연구비 : 2,804개 / 2조 8,968억 원(5년간 누적)
No. of Project / Budget : 2,804 Projects / 2 trillion 8,968 hundred million won (Total of past 5 years)



과제 수 (단위: 건)
Number of Project (Unit: cases)



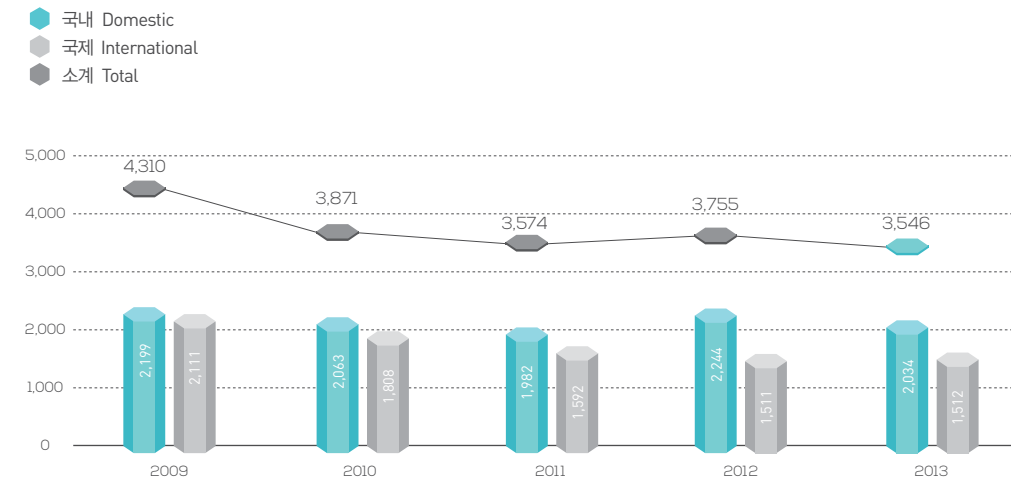
연구비 (단위: 백만 원)
Budget (Unit: million won)

특허출원 / 기술이전
Patent Application / Technology Transfer

특허출원
Patent Application



특허출원 건수 : 19,056건(5년간 누적)
No. of Patent Application : 19,056 cases (Total of past 5 years)

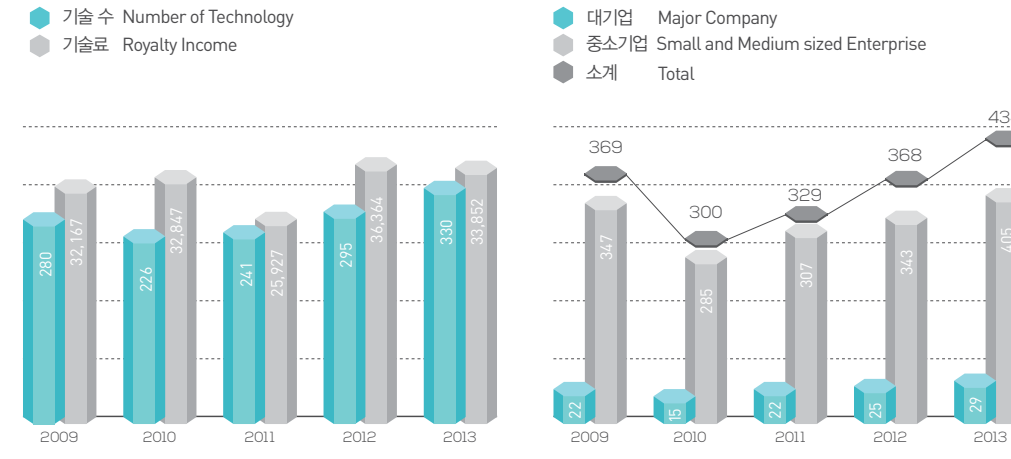


특허출원 (단위: 건)
Patent Application (Unit: cases)

기술이전
Technology Transfer



기술 수 / 기술료 : 1,372건 / 1,612억 원(5년간 누적)
No. of Technology / Royalty Income : 1,372 cases / 1,612 hundred million won (Total of past 5 years)



기술 수 / 기술료 (단위: 건, 백만 원)
No. of Technology / Royalty Income (Unit: cases, million won)

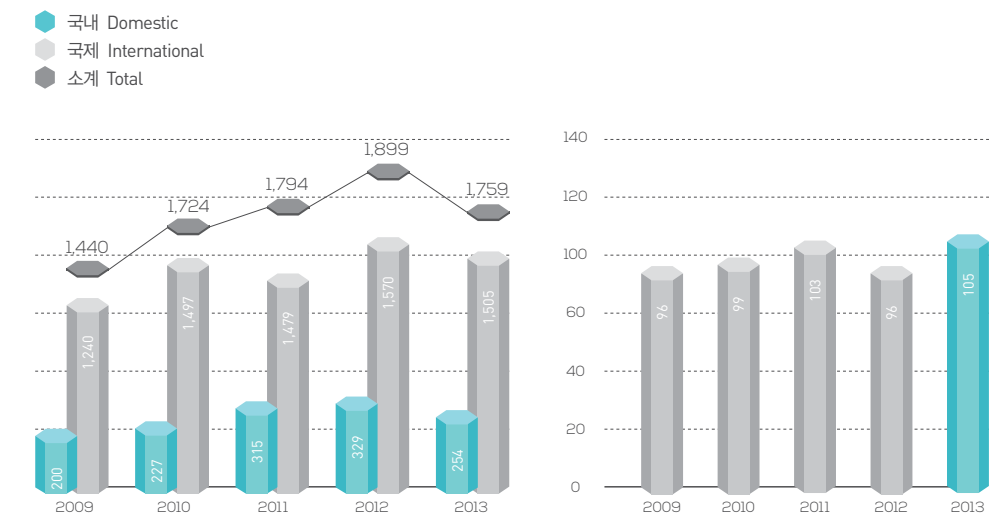
기술이전 기업 수 (단위: 건)
No. of Technology Transfer Companies (Unit: cases)

표준화 / SCI 논문
Standardization / SCI Papers

표준화
Standardization



표준기교서/국제표준화기구 의장단 : 8,616건 / 499명(5년간 누적)
No. of Standards Contributions Adopted / Standard Experts : 8,616 cases / 499 (Total of past 5 years)



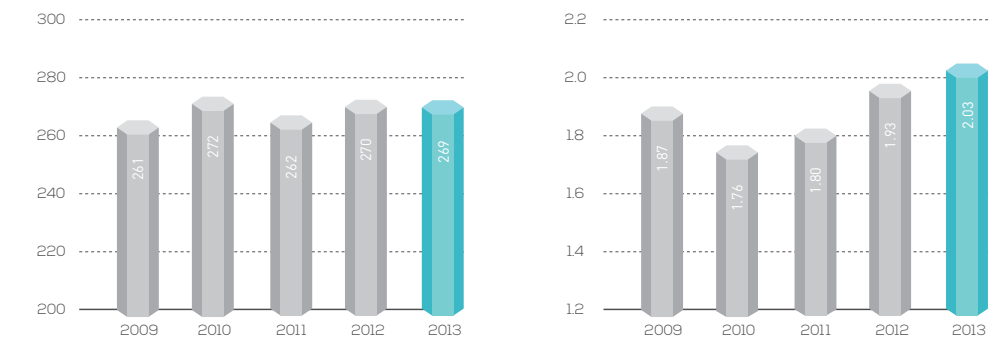
표준기교서 (단위: 건)
No. of Standards Contributions Adopted (unit: cases)

국제표준화기구 의장단 (단위: 명)
No. of Standard Experts (unit: person)

SCI 논문
SCI Papers



SCI 논문 / 평균 IF : 1,334건(5년간 누적) / 1.90(5년간 누적)
No. of SCI Papers / Average IF : 1,334 cases (Total of past 5 years) / 1.90 (Average)



SCI 논문 (단위: 건)
No. of SCI Papers (unit: cases)

평균 IF (Impact Factor)
Average IF (Impact Factor)

R&D 주요성과
R&D Major Achievement



- 2013 · 스마트폰을 이용한 무인 발렛주차 기술개발
Development of automated valet parking technology using a smart phone
- 2012 · 100배 빠른 광 인터넷 기술개발
Developed 100 times faster optical Internet technology
· 휴대형 한영 자동통역 기술개발
Developed Korean/English portable automatic interpretation technology
- 2011 · 투명도 조절 AMOLED 디스플레이 패널 개발
Developed transparency adjustable AMOLED display
· 패킷-광 통합 전달망 기술개발
Developed packet-optical integrated transport network technology
- 2010 · 4세대 이동통신 LTE-Advanced 세계 최초 개발
Developed 4G LTE-Advanced Technology
· 스마트 선박 기술개발
Developed smart ship technology(SAN)
- 2009 · SMMD 기반 실감체험 4D 시스템기술 개발
SMMD-based 4D system technology developed
- 2008 · 디지털 멀티미디어 콘텐츠 자동판매기 세계 최초 개발
ETRI developed world's first digital content vending machine
- 2007 · 3.6Gbps 4세대 무선전송시스템 세계 최초 개발
The world's first 3.6Gbps 4th generation mobile communication technology(NoLA)
- 2006 · 무선 홈 네트워크(UWB) 개발
Developed wireless home network(UWB)
- 2005 · 국산 임베디드SW 개발 솔루션 첫 수출
ETRI succeeded in exported embedded SW solution
· 지상파 DMB 서비스 개시 Terrestrial DMB service launched
- 2004 · WiBro 시제품 개발 ETRI develops WiBro prototype
- 1999 · 동기식 IMT 2000(CDMA2000) STP 시스템 개발
Developed synchronized IMT 2000(CDMA2000) STP system
- 1996 · CDMA ATM교환기 개발
Developed CDMA ATM exchanging machine
- 1995 · CDMA 세계 최초 상용화 성공
ETRI successfully commercialize CDMA for the first time in the world
- 1991 · TDX-10 개통 Launched TDX-10
· 주전산기II (TICOM) 개발 Developed TICOM II
- 1990 · 32비트 마이크로프로세서 개발 Developed 32bit microprocessor
- 1989 · 4M DRAM 개발을 시작으로 16M, 64M, 256M DRAM 개발
Starting with development of 4M DRAM, Korea successfully developed 16M, 64M and 256M DRAM
- 1988 · 565Mbps 광통신 시스템 개발
Developed 565Mbps optical communications system
- 1986 · TDX-1 개통 Launched TDX-1
- 1984 · 16비트 UNIX 개발 컴퓨터 국산화 성공
ETRI succeeded in developing a 16bit UNIX domestic computer
- 1983 · 8bit 교육용 컴퓨터 개발 Developed 8bit educational computer
- 1982 · 우리나라 최초의 메모리 반도체 32K ROM 개발
Developed the nation's first semiconductor product '32K ROM chip'