

SMART &
CREATIVE

ONE STEP
AHEAD



Innovating with **SMART** technology & **CREATIVE** solutions to stay one step ahead of the market

Hanwha S&C is always one step ahead of its customers' expectations. We do this through creative convergences with smart technologies that add value to their thoughts and ideas.

Hanwha S&C's Dream	01
CEO's Message	04
Vision & Strategy	06
SMART SOLUTIONS	08
SMART ENERGY SOLUTIONS	10
SMART BUSINESS SOLUTIONS	12
SMART LIFE SOLUTIONS	14
YOUR BEST PARTNER	16
SUPPORTIVE PARTNER	18
SOCIAL PARTNER	20
INNOVATIVE PARTNER	22

**Hanwha S&C is committed to
enhancing customer value.**

We add to our customers' success by
helping them create new value.



Message from CEO

Facing tomorrow's challenges today

**SMART &
CREATIVE**

I am happy to report to you that **Hanwha S&C** achieved remarkable growth once again in FY 2013, providing the South Korean market with the highest level of IT solutions and services as we have done every year since our establishment in 2001. This included adding to our reputation for always keeping a step ahead of the competition in terms of servicing our customers. We do this by keeping abreast of new trends and making any and all investments and innovations that are needed to keep us in the forefront of rapid changes in the marketplace.

Two of our most important commitments, which we have encapsulated within the motto "Smart and Creative," are to help increase the business values of our customers and to assist in creating a happier and healthier future for our country through the constant adoption of ever smarter and more powerful technologies and services. This includes offering our customers specialized solutions, consulting, and outsourcing services in all of the country's industries, including manufacturing, construction, finance, and services. We are also committed to making our customers' lives more convenient by helping them to take advantage of our longstanding expertise in such areas as IT services and ubiquitous technologies. Another of our primary goals is to continue contributing to the welfare of our planet through the development of eco-friendly energy solutions.

In order to always stay one step ahead of our customers' needs and expectations, we are constantly searching out new, exciting, and innovative solutions and services. We are also offering our business partners a wide range of educational and technological supports, while carrying out sharing and caring activities that will lead to the betterment of the larger society. We do this mainly through knowledge sharing and volunteer work by our employees to help less fortunate people in our society.

Hanwha S&C is ceaselessly directing its energies towards facing tomorrow's challenges today. As always, we will continue to work our hardest to hone our competitive edges so that we can continue with our proud record of achievements in an increasingly globalized marketplace. Please join us as we strive to create a happier and healthier future for everyone.

Thank you.

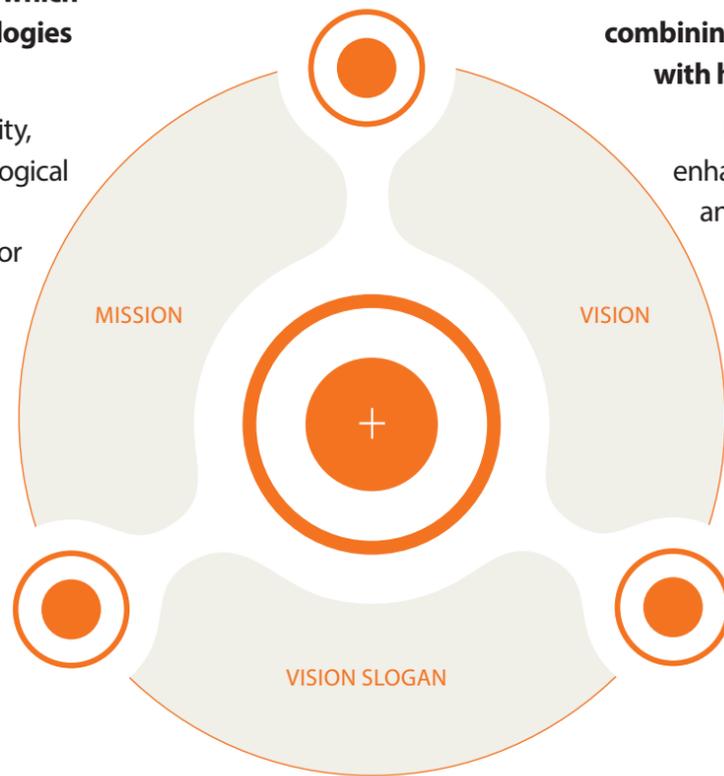
Yong-wook Kim President & CEO



Moving ahead with smart ideas and creative challenges.

Creating a world in which people and technologies can coexist.

We combine sensitivity, passion, and technological expertise to create a warmer and superior IT world.



A Global ICT creator, combining smart technology with highest-level service.

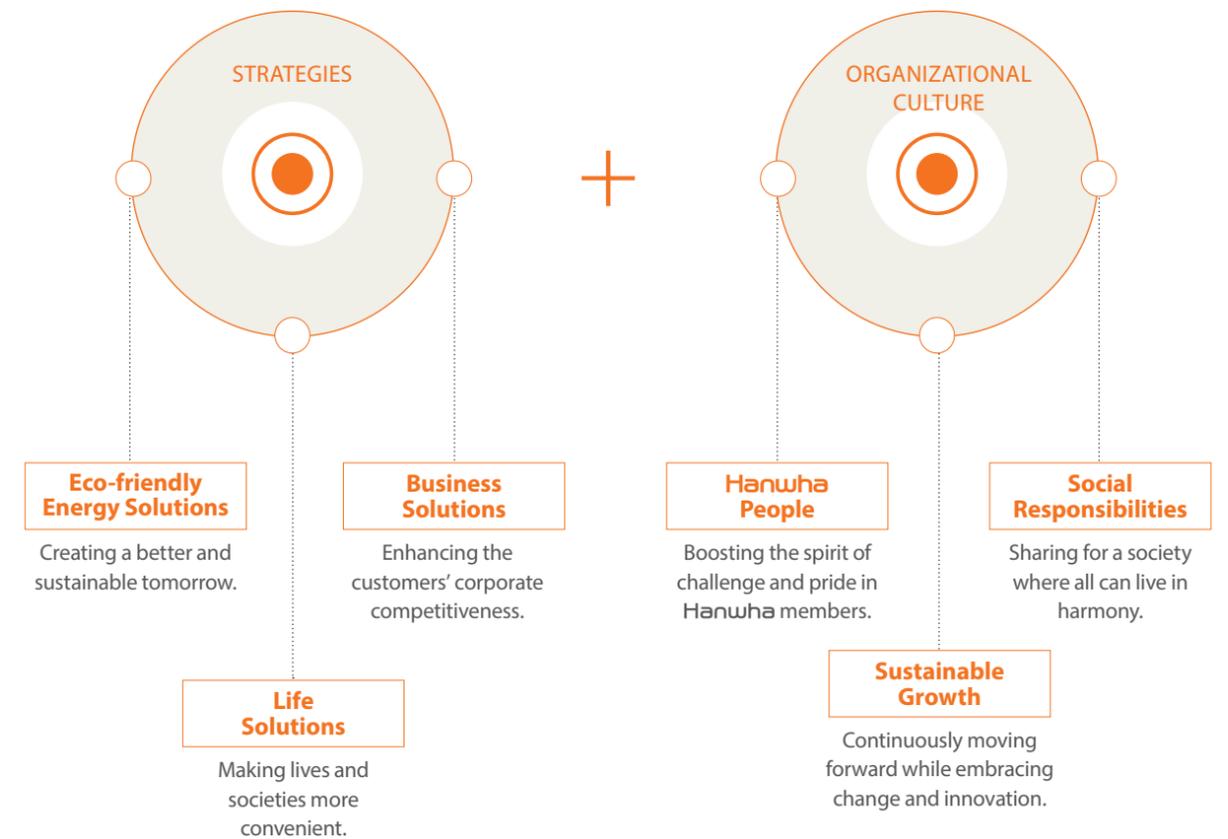
Dedicated to creating enhanced customer value and happier tomorrows by combining smart and creative technologies with highest-level service.

SMART & CREATIVE

We use the words Smart&Creative to describe the world that Hanwha S&C wishes to create and the people that we employ.

Hanwha S&C is committed to creating values that exceed the expectations of its customers.

SMART & CREATIVE



Business Profile

Creating value through
IT services that are always

one
step
ahead

Hanwha S&C's IT services are always one step ahead of our customers' needs and expectations. In addition to enhancing their quality, we are dedicated to researching big data, cloud computing, IoT, and other new technologies. By growing into a powerhouse in the area of eco-friendly energy businesses, we are also continuously creating new values.

Hanwha S&C's IT solutions are smart. Not only do they help our customers enhance their business competitiveness but they are also creative and value-oriented. Hanwha S&C tries to create a sustainable future with a wide range of converged and integrated solutions that include eco-friendly energy resources.

SMART SOLUTIONS

SMART BUSINESS SOLUTIONS

Enhancing the customers' business competitiveness based on expertise and experience.

SMART LIFE SOLUTIONS

Promoting a satisfying life and society through creative convergence and integration.

SMART ENERGY SOLUTIONS

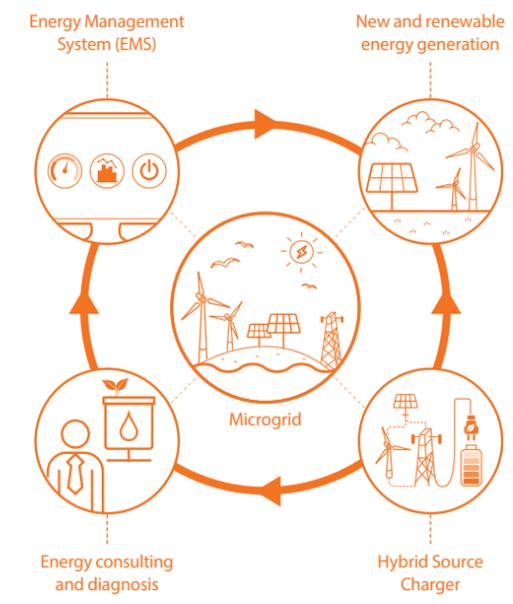
Creating values with eco-friendly energy for a better tomorrow.



SMART ENERGY SOLUTIONS

Sustainable solutions that create a better tomorrow with eco-friendly energy.

+ Hanwha S&C provides total energy solutions to achieve an ENERGY FUTURE PLANT. Ranging from new and renewable energy generation (including solar power) to the enhancement of energy usage by offering storage systems, smart grid, and real-time energy usage information, we have completed an energy value chain, and are becoming an eco-friendly energy company.



+ **New and renewable energy generation**
 We offer leading total services mainly in the photovoltaic power and biomass generation sectors, based on Hanwha's vertical solar power integration. In addition, we design and build new and renewable energy sources through convergence and integration by applying the characteristics of various sites.

+ **Hybrid Source Charger**
 In addition to storing surplus electricity through power systems as well as new and renewable energy generation, we offer functions to supply non-stop electricity to loads. We also build solutions that meet the characteristics of a wide variety of sites. These include the stabilization of new and renewable energy generation outputs, support for transmission and distribution networks, and the management of emergency power supply and demand from customers.

+ **Microgrid**
 We build and operate optimized microgrid systems by combining our engineering and integration capabilities with new and renewable energy generation systems, or Hybrid Source Chargers and energy IT systems.

+ **Energy Management System (EMS)**
 We help our customers to maximize their energy operation and management by monitoring, analyzing, controlling, and predicting their new and renewable energy generation, system conditions, and energy consumption in real-time through the Eagle EMS.

+ **Energy consulting and diagnosis**
 We offer precision diagnoses and consulting by energy specialists. Our energy usage analyses, facility efficiency diagnosis, operation pattern analyses, and economic feasibility evaluations help our customers maximize the efficiency of their energy usage.

- Major Projects and Customers**
- Construction of Building Energy Management System for 63 Square**
 An IT-based energy service company (ESCO) pilot project for National IT Industry Promotion Agency. A steam energy management system for Hanwha Chemical's Yeosu Factory (2013) and Korea Export Packaging Paper (2014)
 - Construction of Topyeong Biomass Fired Cogeneration Plant in Jeju-do (2014)** First biomass (wood-chip) fired power plant in Jeju-do (3 MW)
 - Construction of a solar power and ESS convergence system at Hanwha Galleria (2014)** First new and renewable energy hybrid system for a commercial facility in South Korea
 - Construction and operation of solar power clusters on reclaimed land in Goheung Bay, Jeollanam-do (2015)** First reclaimed land utilizing a solar power plant in South Korea (25.5 MW)
 - New and renewable energy convergence and integration projects (Korea Energy Agency)** Including Inje (340 locations) and Yanggu (144 locations) in Gangwon-do, and Boryeong (60 locations) in Chungcheongnam-do
 - Construction of an energy self-sufficient island in Juk-do, Chungcheongnam-do (2015)** Targeted to develop a 100% self-sufficient island with new and renewable energy



Construction of photovoltaic power generation systems in Goheung-gun, Jeollanam-do



Construction of a solar power + ESS convergence system at Hanwha Galleria



Construction of first biomass (wood-chip) fired power plant in Jeju-do



Construction of an energy self-sufficient island in Juk-do, Chungcheongnam-do



SMART BUSINESS SOLUTIONS



Innovative solutions that bolster the customers' business competitiveness, based on expertise and experience.

Hanwha S&C provides total IT outsourcing services and a complete range of system integration services that add to the business competitiveness of its customers in a wide variety of industry groups. This is based on our years of experience, highly trained human resources, business-oriented solutions, and cutting-edge technologies. We also maximize the efficiency of industrial sites through industrial automation services and offer optimized solutions that are custom-tailored to meet their specific needs.

+ Highest-Quality System Integration

SI for a broad range of industry areas
Our state-of-the-art information systems can accommodate any and all operating situations in a wide range of manufacturing, construction, service, and retail areas. We focus on providing up-to-date solutions, big data and beacon for marketing and customer management. We also provide IT informatization facilities and technologies in a variety of areas, including education, national defense, and SOC.

Specialized financial SI
Our ability to identify our customers' future needs in today's rapidly changing financial environment enables us to offer the finest in finance-related total services. They include hiring top-notch human resources, developing and installing key technologies, and finding solutions that fit all their needs.

Primary Services
Manufacturing and Construction SCM, IPS for integrated information systems including ERP, KM, EIS, and R&D

Finance Next-generation financial systems, mobile SFA/WMS, retirement pensions, IFRS, risk management, Green Window

Retail and Services Integrated management systems for hotels and resorts, retail sales management systems, POS, DW and CRM

Public Services and National Defense Informatization projects, new IT technologies and solutions development

Major Customers
Korean Air, Dongbu Corporation, Ildong Pharmaceutical, OCI, JB Bank, National Credit Union Federation of Korea, Korea Securities Depository, Dongbu Insurance, Hyundai Marine and Fire Insurance, Woori Investment & Securities, Mirae Asset, **Hanwha Resort**, Kyobo Life Insurance, Korea Insurance Development Institute, Marine Corps, Korea Transportation Safety Authority, Health Insurance Review & Assessment Service

+ Competitive IT outsourcing

We obtained the highest-level Capability Maturity Model Integration (CMMI) certificate for our IT service management (ITSM) based international IT service standard processes. This is helping our customers raise their corporate values and reduce their expenses, while contributing to enhancing their competitiveness.

Primary Services
Administrative Services Information strategies and planning, Internet and homepage management, desktop and help desk operations, developing and operating application systems, groupware/EDMS/videoconferencing operations, server and network operations, IT support service

Network Services Independent private line network leasing service through DWDM and MSPP, network management and control service, broadband convergence network service

+ Advanced Advisory Service

Our state-of-the-art advisory service combines a wide range of solutions with our years of experience building optimized, customer-oriented information systems using the latest IT technologies.

Primary Services
Business and IT Consulting BPR and PI to maximize customers' operational efficiency, and Internet service provider, IT assessments, establishment of IT governance systems, IT project management office service

Information Protection We suggest optimal solutions for customer companies that want to protect their private information and data. In addition, we help them to deal with governmental regulations. We do all this by analyzing their levels of protection and studying their vulnerability to loss and their key resources.

Major Customers
Korea Teachers' Pension Fund, Samil Pricewaterhouse Coopers

+ Smart factories

We create values that enhance competitiveness in manufacturing by promptly responding to volatilities in the markets and the customers' environment. We simultaneously improve quality and production efficiency while realizing early product releases. This is primarily done by applying industrial IoT, production site visualization, and production data analysis technologies in the area of factory operation, including production and operation, facility automation, and quality control.

Primary Solution
Manufacturing Execution System (MES)
The management support solution enables users to promptly and conveniently handle various situations occurring in manufacturing sites by supporting production activities from product orders to their completion.

Equipment Monitoring and Control System
This system is designed to raise the availability and efficiency of equipment as well as achieve optimal process control and bring improvement to quality and yields by collecting information and data on the operation and conditions of production and utility facilities.

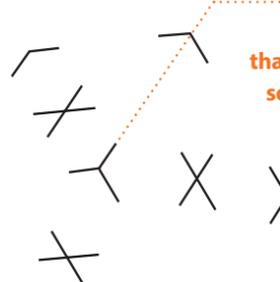




SMART LIFE SOLUTIONS



Prepared solutions that improve lives and the society through creative convergence and integration.



+ Hanwha S&C provides differentiated convergence and integration solutions that are based on expertise accumulated from a wide array of business experiences. We conveniently construct social infrastructures. These include building automation, transportation, and communications. We further enrich people's lives through online education and raise the quality of life with water treatment solutions. Hanwha S&C is leading the way by influencing the creative IT convergence field that will ultimately make our lives smarter.

+ **Intelligent Building System**

This system reduces building operations and management expenses while enhancing efficiency by enabling a real-time monitoring and control through the integration of building management systems.

- Primary Solutions**
- Eagle IBS (Intelligent Building System)**
This state-of-the-art integration solution enables real-time building management, supervision, and control by means of Internet and Intranet. It integrates all the systems in the areas of BA, TC, and OA into one single, efficient platform.
 - U-Home** A system that monitors and controls the conditions inside residential facilities primarily through an entrance and exit management, remote controls, and home networking.



+ **Intelligent Transport System**

This system offers traffic data to users by sharing real-time traffic information within cities, while developing a pleasant transport environment through the integrated management and control of traffic information.

- Primary Solutions**
- Eagle ITS (Intelligent Transport System)**
The solution raises road safety and efficiency by integrating systems for fee collection, managing traffic violations, road information, cargo transport management, and public transportation management.

+ **Integrated Network Services**

We provide optimized network building services are primarily based for LAN, WAN, and security networks and build multi-platforms for seamlessly integrated fixed line, wireless, voice, and video communications on the basis of stable communication infrastructure and business know-how. We are also working towards the development of a wide array of network solutions by establishing partnerships with global companies.

- Primary Services**
- Network integration, Network convergence, Unified communications

+ **Welearning, a leader in online education**

Our Welearning package of total solutions for corporate customers has received an 'A' rating for seven consecutive years. Our services include developing integrated educational content and establishing educational solutions and systems.

- Primary Services**
- Online educational services** Online educational services for companies and individuals, educational advice
 - Development and establishment of educational solutions** Designing and establishing e-learning solutions, Learning Contents Management System, leasing of virtual training center.
 - Development and sale of educational content** Establishing educational systems, curriculum development, outsourcing service.

- Major Customers**
- KB Kookmin Bank, Shinhan Bank, Hana Bank, Daewoo Shipbuilding & Marine Engineering, GS E&C, Seoul Metro, National Health Insurance Service, Korea Workers' Compensation & Welfare Service

+ **Eco-friendly water treatment solutions**

The Eco-Water provides total IT solutions that efficiently manage water resources required for operating cities. We also save time and costs while offering high efficiency by treating rainwater in 15 minutes through quick sewage treatment technologies that have been transferred from Gyeongju City. Hanwha S&C's water treatment solutions supply clean water to consumers and restores water circulation systems for the environment.

- Primary Solutions**
- Eco-Water** An integrated water management IT solution that efficiently manages the water resources that are necessary for a city to operate.
 - HGJ-R** An eco-friendly rapid sewage treatment process that takes 15 minutes from inflow to discharge.



IBS for Aqua Planet Jeju



ITS design and establishment for Third Gyeongin Highway



Daeya Terminal Sewage Treatment Plant in Gunpo

Your Best Partner

Trust building through
competences that's

one step ahead

Hanwha S&C has achieved both qualitative and quantitative growth by advancing IT technologies while always challenging new possibilities. We are also committed to developing a satisfying organizational culture based on our employees' firm confidence and a strong sense of commitment while growing into a true global leader by fulfilling our corporate social responsibilities.



You can rely on **Hanwha S&C** because of its challenges, principles and people who are devoted to the customers.

In addition, **Hanwha S&C** never goes forward alone.

We go far together with values that are based on sharing and mutual prosperity.

YOUR BEST PARTNER

SUPPORTIVE PARTNER

Boosting the spirit of challenge and pride while striving to create a satisfying workplace.

SOCIAL PARTNER

Actively practicing sharing, from win-win cooperation to social contributions, in order to create a more humane society.

INNOVATIVE PARTNER

Continuously moving forward for sustainable growth while embracing change and innovation.



SUPPORTIVE PARTNER
 A company that boosts the spirit of challenge and pride while striving to create a satisfying workplace.

+ Our competitiveness begins with our people.

Hanwha S&C has been dedicated to developing into a company where people are happy with a belief that employees are the very competitiveness of a company. By implementing systematic career management programs for new and career employees, we are helping them strengthen their business capabilities, based on a challenging spirit and creativeness, In addition, we always strive to improve the quality of their life by introducing a wide range of welfare systems.

+ Hanwha Spirit & Core Values

People embracing Challenge
 Pursue excellence through change and innovation by breaking away from complacency.

People of Integrity
 Stick to principles, be impartial, and take pride in doing so.



People demonstrating Dedication
 Treasure the relationships with colleagues, company, and customers and commit to achieving a greater goal.

+ HRD Policies

- Global Talent Program/Local Experts**
 In order to foster outstanding employees into global leaders, we provide an opportunity to have them cultivate global capabilities by sending them to the overseas subsidiaries and branches, in addition to locations that are under review for new businesses within the Hanwha.
- Professional PM Training Course**
 We operate in-house training programs and implement individual project management grading systems with the aim to secure knowledgeable PMs with outstanding operation capabilities.
- Professional IT Course**
 We help our employees learn about the latest IT trends and strengthen their business capabilities by holding in-house technology seminars. We also operate learning groups for employees and assist them with external IT classes.
- Other Programs**
- Intensive management courses for both new and experienced recruits
 - Subsidies for domestic and overseas MBA course
 - Liberal Arts courses
 - Certification programs
 - In-house mentoring programs for new recruits
 - In-house English and Chinese learning clubs
 - Subsidies for individual language learning
 - Recognizing new employees on their first anniversary since joining the company

+ Benefits Package

- Reward Programs**
- Welfare Points
 - Discount for on- and offline Hanwha Galleria malls
 - Children's school expenses
 - Collective accident insurance policy
 - Health checkup for employee and spouse
 - Reward for long-term(10, 20 and 30 years) service
 - Club activities
 - Anniversary gifts
 - Leaves and gift money for family occasions
 - Commuter bus
- A caring welfare system for working mothers and the wellbeing of families**
- Refresh Leave up to 10 consecutive business days
 - 'Family Day' every Wednesday to promote a culture of work-life balance
 - Providing prenatal and baby products through the 'Hanwha Moms Package'
 - The in-house daycare and nursery
 - Choosing working hours during early days of childcare
 - Subsidizing subfertility treatment and procedure costs



SOCIAL PARTNER

A company that actively practices sharing, from win-win cooperation to social contributions, in order to create a more humane society.



Applying the belief that advancement is attained when we work together.

Some of the ways that Hanwha S&C fulfills its corporate social responsibilities include forming mutually beneficial relationships with our partner companies, sponsoring study rooms, offering matching grants, volunteering at centers for multicultural families, and providing special education services to the less privileged.

+ Winning Partnerships



Supporting shared growth and fair trade

Our commitment to shared growth with our business partners includes signing fair trade agreements, holding informal gatherings with them, offering them financial support and technical training, and improving our payment conditions.

Win-Win Cooperation Academy

We offer a broad range of educational opportunities to all the employees of our partner companies. They include technology training and seminars.

Win-Win Business Development Center

We operate the Win-Win Business Development Center to build and strengthen our business foundations for shared growth among small, large and medium-sized enterprises. By inaugurating the G-Valley (Guro and Gasan Digital Complexes) Win-Win Network Council for win-win cooperation with SMEs at G-Valley, we are also combining technologies, developing new businesses and promoting joint marketing activities.



+ Social Contribution

Employee Talent Donation

We offer educational and training opportunities in IT informatization to employees of smaller companies, irregular and production workers, the self-employed, and multicultural families. We practice social sharing through IT by offering video career mentoring sessions to students in educationally disadvantaged areas.

Social contribution activities

Our social contribution activities include a kimchi making campaign and a rice sharing event. We also offer financial supports for after-school study rooms for low-income children. More than one hundred of our employees act as volunteer teachers at these facilities every year.

Social contribution programs by employees

We run the "Happy Social Contribution" programs that allow our employees to form teams and fully participate in social contribution activities, from planning to execution. Personally initiated by our employees, these activities provide added sincerity to social contributions.

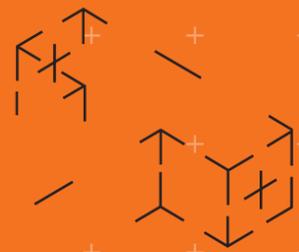
Matching Grants

We operate a "Making a Brighter World Fund" matching grant program to raise funds for various social contribution activities.



INNOVATIVE PARTNER

A company that continuously moves forward for sustainable growth while embracing change and innovation.



Relentlessly challenging the world.

As a specialized total IT service provider founded in 1994, **Hanwha S&C** has steadily grown by offering comprehensive IT solutions and consulting services in all business areas, and by accumulating differentiated expertise in the field of next-generation IT convergence including the environment and energy. We promise to continuously move forward with the spirit of embracing challenge and innovation while becoming a global IT service provider and achieve sustainable growth in the rapidly changing economic situations.



2010s

- **2010**
 - Built the Consumer Service Center System for Korea Fair Trading Commission
 - Launched "FIFTEEN" public bicycle system in Goyang
 - **Awarded "A" credit rating**
- **2011**
 - Launched **Hanwha** Group's Data Center
 - **Earned Capability Maturity Model Integration Level 5 Certification**
 - Won the prize for excellence in the Welfare Support category at Seoul City Welfare Awards
 - Received order for the installation and operation of media poles in Seo-myeon, Jin-gu, Busan
 - Won first prize in the win-win growth category from the National Commission for Corporate Partnership in the Software Business.
 - Establishment of Michuhol call center information system in Incheon
- **2012**
 - Received order for the development of a cyber knowledge and information room for the Ministry of National Defense
 - **Won seventh consecutive "A" rating for Welearning in e-learning school evaluation from Ministry of Employment and Labor**
- **2013**
 - Signed a partnership agreement in the database solution business area with SAP Korea
 - **Declared new vision: Smart&Creative**
 - Signed an MOU to provide firsthand mentoring on the latest software with the Software Engineering Center of the National IT Industry Promotion Agency
 - Won grand prize in the win-win growth category from the National Commission for Corporate Partnership in the Software Business.
- **2014**
 - Completed the development of INIS, a next-generation teachers' pension system
 - Began construction of a biomass fired cogeneration plant in Topyeong, Seogwipo, Jeju-do
 - Completed a next-generation mutual aid information system for National Credit Union Federation of Korea
 - Hosted 2014 DreamPlus Day (inviting Global Alliance members for venture investment)
 - Signed an agreement for the inauguration of a win-win network council with G-Valley
 - Signed an agreement for the transfer of an expedited sewage treatment technology (HGJ-R engineering method) with Gyeongju City
- **2015**
 - 7th World Water Forum 2015 (Daegu & Gyeongbuk)
 - Developed a next-generation foreign exchange fund service system
 - Carried out NIA organized by the Ministry of Science, ICT and Future Planning, and selected for a smart pilot service project using big data (Developed the COEX Smart Exhibition Hall)
 - Yong Pyong next generation resort information system
 - Development of Juk-do in Chungcheongnam-do into an Energy Self-Sufficient Island

2000s

- **1994**
 - Integrated computer system divisions of all **Hanwha** companies
- **2001**
 - **Separated from Hanwha's information division and incorporated into Hanwha S&C**
 - Earned ISO 9001 (Quality Management) certification
- **2002**
 - Earned BS 7799 (Information Security) certification
- **2003**
 - Acquired **Hanwha's** Welearning education business
 - Developed and released Premium ERP-SFAR
- **2004**
 - **Won the Minister of Information & Communication Award for Total SI category of the Digital Knowledge Management Awards**
 - Earned 070 VoIP (TTA) quality certification
- **2005**
 - Received order of new IBS for the Seoul Central Post Office
 - Earned CMMI level2 certification
 - Completed establishment ITSM system based of ITIL for managing IT service level
 - Completed establishment and opening of next-generation communication network of the **Hanwha**
- **2006**
 - Earned ISO 20000(BS 15000) certification
 - Earned CMMI Level 3 certification
 - Selected as the preferred negotiator in IBS business for the new NHN Venture Tower building
 - **Launched 'Eagle MES' a solution for production integration**
- **2007**
 - Earned ISO 27001 Certification in Information Protection
- **2008**
 - Won a Prize for excellent U-Health pilot project from Chungcheongnam-do
- **2009**
 - **Won Prime Minister's Award at Korea New Growth Management Awards**
 - **Named best company for use of official computer software programs from the Ministry of Culture, Sports and Tourism**

An ICT specialist, **Hanwha S&C** is moving ahead of customers' expectations through continuous challenge and innovation.

Leading the market and our competitors, and developing capabilities that always exceed the needs of our customers. We are continually advancing and progressing.



SMART & CREATIVE



Smart & Creative

Hanwha S&C

04551 Pine Avenue bldg., 100, Eulji-ro, Jung-gu, Seoul, Korea
82-2-6313-3114 | www.hsnc.co.kr