

Hanwha Profile 2016



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“We listen and engage our end users to envision the solution our customers trust us to build.”

SEUNG YOUN KIM



We are the Hanwha Group. We were founded on the principle that businesses have a moral obligation to contribute to society and community. This principle has guided us for more than half a century but it has always been our customers who have been the key to our success.

The problems, the needs and even the desires of our customers have continuously inspired us to innovate and develop complete solutions, not just products. We engage and listen to our customers; and this is how we're able to see the world as they do. And the world they see is the one we're committed to improving.

Our vision today is the latest expression of our commitment—to elevate the quality of life of everyone whose lives we touch. Hanwha is providing practical solutions to real-world challenges, from sustainable energy to affordable housing to wider access to financial services. Our vision is at the heart of our customer relationships and the energizing force behind our growth.

To achieve our vision, one strategy has been to increase synergies across our businesses and make focused investments in pivotal areas. This strategy would sharpen our competitive edge and as a global top-tier company, surpass our competitors.

Our strategy has already led to higher levels of performance. In 2015, the Hanwha Group achieved USD 53.09 billion in sales with USD 145.38 billion in assets, reflecting increases of more than 20 percent and 10 percent, respectively, over the previous year. All of our businesses gained momentum, propelling many to leadership in the South Korean market and top positions internationally.

The launch of Hanwha General Chemical and Hanwha **TOTAL** Petrochemical in 2015 enabled Hanwha to take the lead in the South Korean petrochemical sector and, at the same time, join the ranks of the industry elites, globally. Backed by economies of scale, we continue to increase our dominance through innovation, value-based pricing, and stable supply.

Our world-class products in aerospace, energy, and industrial machinery are attracting partnerships with a growing number of enterprises worldwide. The acquisition of Hanwha Techwin and Hanwha Systems has elevated Hanwha to the top of South Korea's aerospace and mechatronics industries. And the launch of Hanwha Defense Systems advances our goal of global leadership in the same sector.

Hanwha's multiyear restoration project in postwar Iraq reached a milestone in 2015, with the value exceeding USD 10 billion for the Bismayah New City Project alone, plus additional business opportunities for more than 100 of our partner companies.

In the energy sector, Hanwha Q CELLS is now the number one solar cell manufacturer in the world. Recently, it signed a record-breaking 1.5GW solar module supply agreement with NextEra Energy Resources in the US. By expanding our production facilities around the world, Hanwha is ready to meet the growing customer demand for sustainable energy sources.

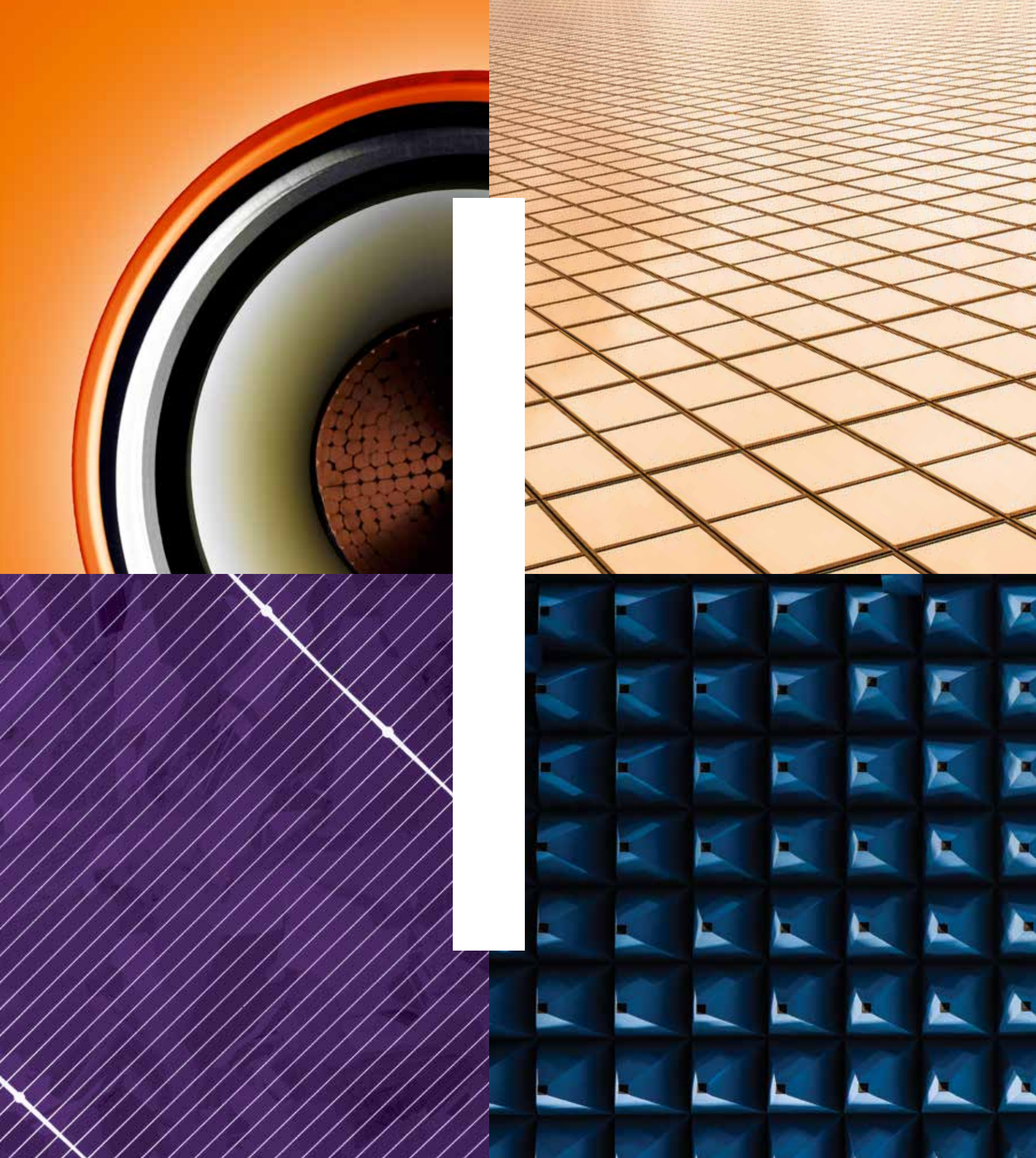
Our financial services platform is also driving growth and benefitting the people they serve. We're leveraging innovative financial technology and bringing greater financial opportunities to more people through partnerships, like Dianrong, China's leading peer-to-peer lending platform.

We are working to advance the common good. The Hanwha Happy Sunshine campaign improves the future for many through clean energy, and this year it donated solar power equipment to help disadvantaged schools in China. In the US, Hanwha received the 2015 Award for Environmental Excellence for transforming environmentally compromised land into a source of clean energy for the American state of Indiana. In collaboration with the United Nations, the Hanwha Group also donated a photovoltaic (PV) plant to help mitigate the effects of drought and assist in rehabilitating land in the Baijitan National Nature Reserve of Lingwu City, China.

Hanwha has much to be proud of during the past year but it is to the future we look. We have our guiding vision and our strategy to become a global leader in all our principal markets. From building healthier communities to developing pioneering solutions, our efforts will be grounded by those we serve and whose perspectives that inspire us: our customers.



Chairman
SEUNG YOUN KIM



BUSINESS HIGHLIGHTS

At **Hanwha**, we partner with our customers. We listen first, and only then propose solutions. This approach—inspiration and expertise guided by deep understanding of customer needs—has led to products and services that are changing how the world works, lives, and plays.

Scan to watch Hanwha Group's corporate video





SEEK



FIND

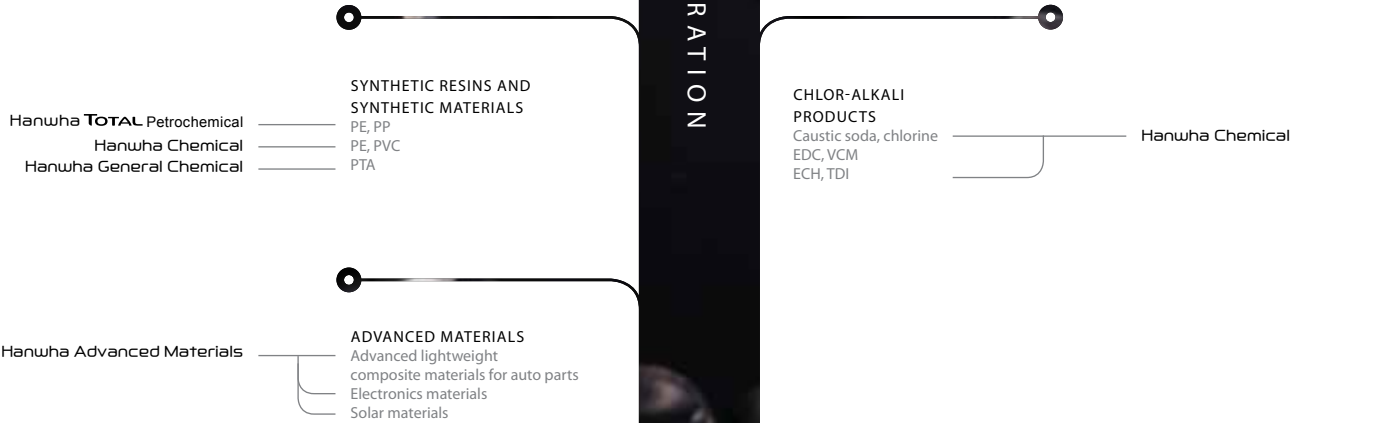
WE SEEK NEW TECHNOLOGIES SO YOU CAN FIND NEW APPLICATIONS.

CHEMICALS & MATERIALS

Hanwha researchers are leaders in their fields and passionate about innovating and exploring new ways to produce petrochemicals and advanced materials so our customers can develop new applications that redefine what is possible in automotive engineering, solar energy, nanotechnology, and other fields. For example, our breakthrough process for producing the synthetic resin EVA is allowing companies to manufacture solar cells with higher purity, transparency, and efficiency at lower costs. In the automotive industry, our revolutionary lightweight composite materials are prized for their durability and flexibility—comparable in strength to steel, but with 20-25 percent less mass—resulting in cars that weigh less but perform better. These and other innovations provide greater value for our customers and attract partnership opportunities for Hanwha worldwide.



Working in Synergy to Enhance Competitiveness
From refining and basic chemicals to synthetic fuel and advanced materials, Hanwha's integrated portfolio impacts a wide range of industries, including automotive, electronics, and solar energy. By integrating the company's R&D, in-house supply chain, and manufacturing facilities toward a common vision, Hanwha is better able to pursue continuous innovation and new growth areas, while controlling costs.



Scan to watch Hanwha's
Chemical & Materials video



PETROCHEMICAL

A Leader In South Korea

Hanwha continues to maintain its leadership position in South Korea's petrochemical sector with total sales of USD 16.79 billion.

ETHYLENE

No.1 In South Korea

With an ethylene production capacity of 2.9 million tons, Hanwha now ranks first in Korea and ninth worldwide in this important market.

Hanwha **TOTAL** Petrochemical's
Daesan Petrochemical Complex





EVA

No.1 Worldwide

Hanwha has an ethylene vinyl acetate (EVA) production capacity of 630,000 tons, the largest of any company in the world.

W&C COMPOUND

World-Class Innovation

After acquiring W&C compound, an innovative polyethylene synthetic resin, for the South Korean market, Hanwha had in effect, freed the South Korean manufacturers from having to depend on imported resins to make power transmission and distribution cables.



PTA

No.1 In South Korea

With a purified terephthalic acid (PTA) production capacity of more than two million tons per year, Hanwha ranks No. 1 in the domestic PTA market.





AUTOMOTIVE THERMOPLASTICS

70%
Global
Market Share

Hanwha StrongLite and SuperLite products now account for 70 percent of the global market in GMT (glass fiber mat thermoplastics) and LWRT (low weight reinforced thermoplastics) technologies.



R & D

Growth
Engines

Hanwha research and development is focusing on growth areas for the future, including new chemical products, materials and applications, as well as automotive parts development.





QUESTIONS



ANSWERS

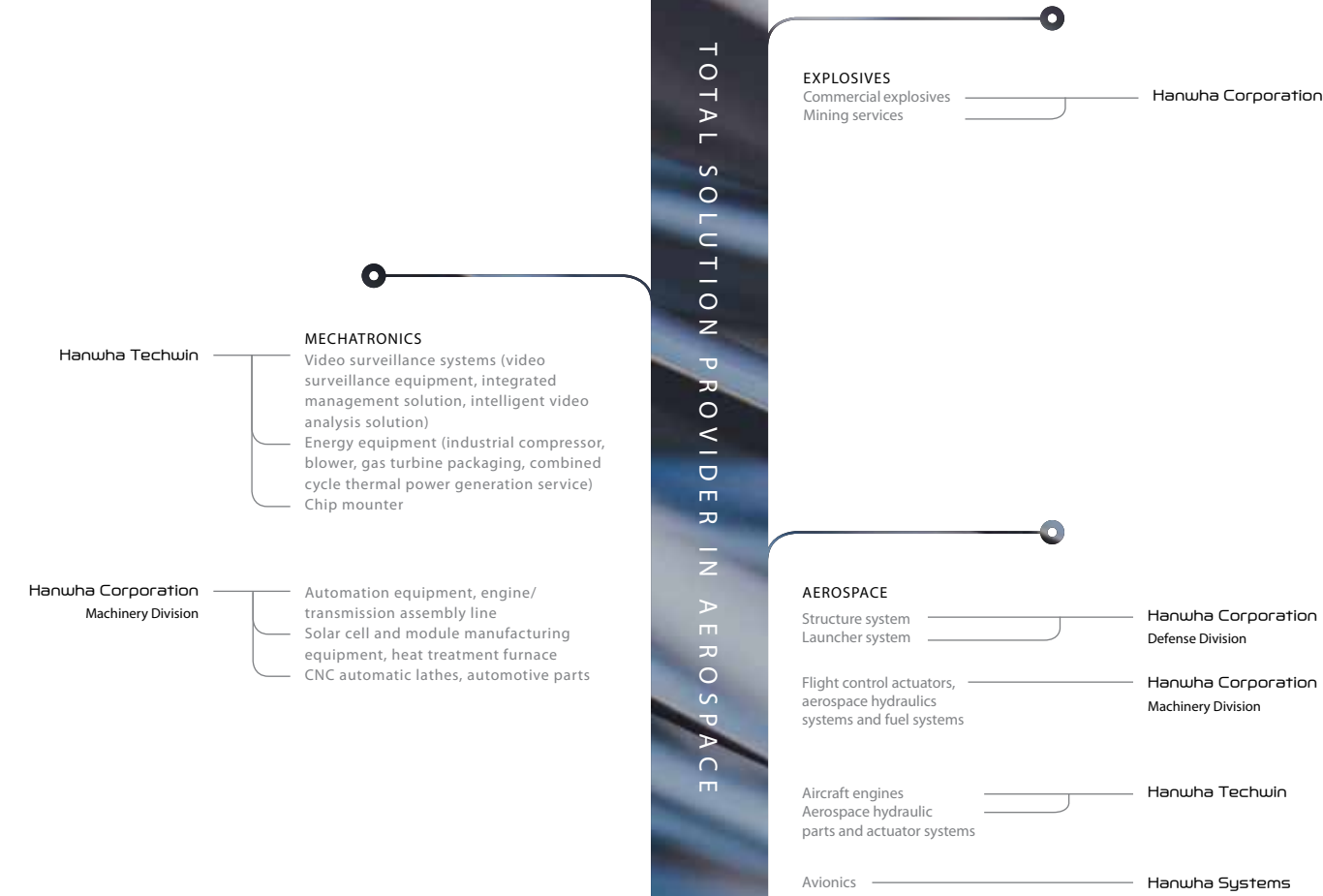
WE ANTICIPATE YOUR QUESTIONS ABOUT THE FUTURE TO PROVIDE
THE ANSWERS YOU WILL NEED.

AEROSPACE & MECHATRONICS

From the ground to the sky, Hanwha is developing world-class products in aerospace and mechatronics to help corporations and governments meet their future needs in manufacturing, commerce, security, and travel. And we continue to pursue technical partnerships with other leading companies to develop solutions that satisfy customers around the globe.



Leading in Innovation and Expertise
Drawing on our innovation and industrial expertise, Hanwha is becoming a global force in the aerospace and mechatronics industries with outstanding technologies for radars, optronics, avionics, and unmanned control systems.



Scan to watch Hanwha's Aerospace & Mechatronics video



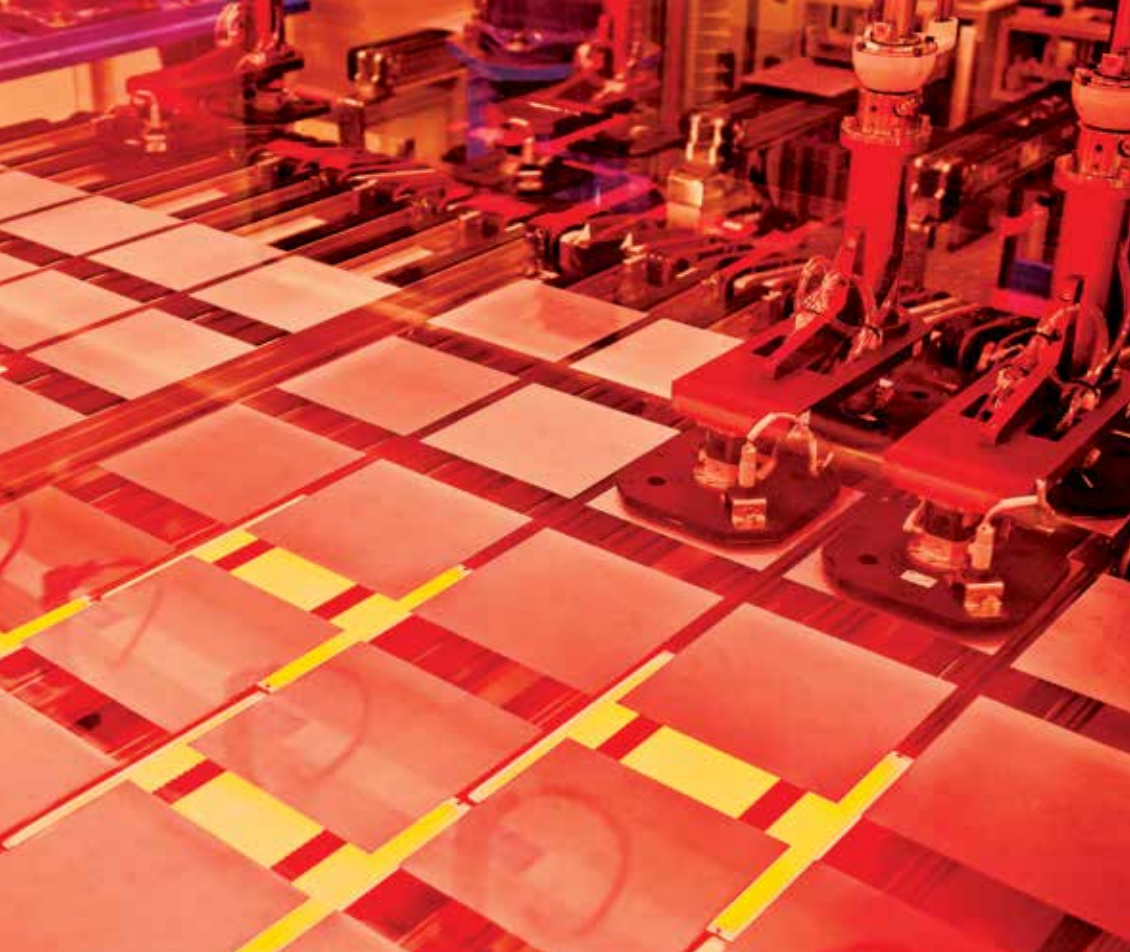
AEROSPACE

USD
7 Billion

Hanwha Techwin has secured aerospace contracts worth more than USD 7 billion during the past year alone, from partnerships with Pratt & Whitney, General Electric, and other leading manufacturers.

Hanwha Techwin's aircraft engine
parts production site





MACHINERY

Expertise Leads to Growth

With more than a half-century of experience in the global mechatronics industry, Hanwha continues to develop innovative technologies that help customers improve productivity and efficiency.



SECURITY

Innovative CCTV Solutions

Hanwha Techwin provides total security solutions equipped with world-class CCTVs, video recorders, and a wide range of security devices. Moving forward, the company is becoming a technology leader by building integrated network control systems that harness the latest advancements in Big Data and the Internet of Things.

ELECTRONICS

C4I Innovation

By leveraging our strategic alliances, Hanwha Systems' unique technologies in command, control, communication, computer, and intelligence (C4I), are bringing innovative solutions to global markets.





TOMORROW



TODAY

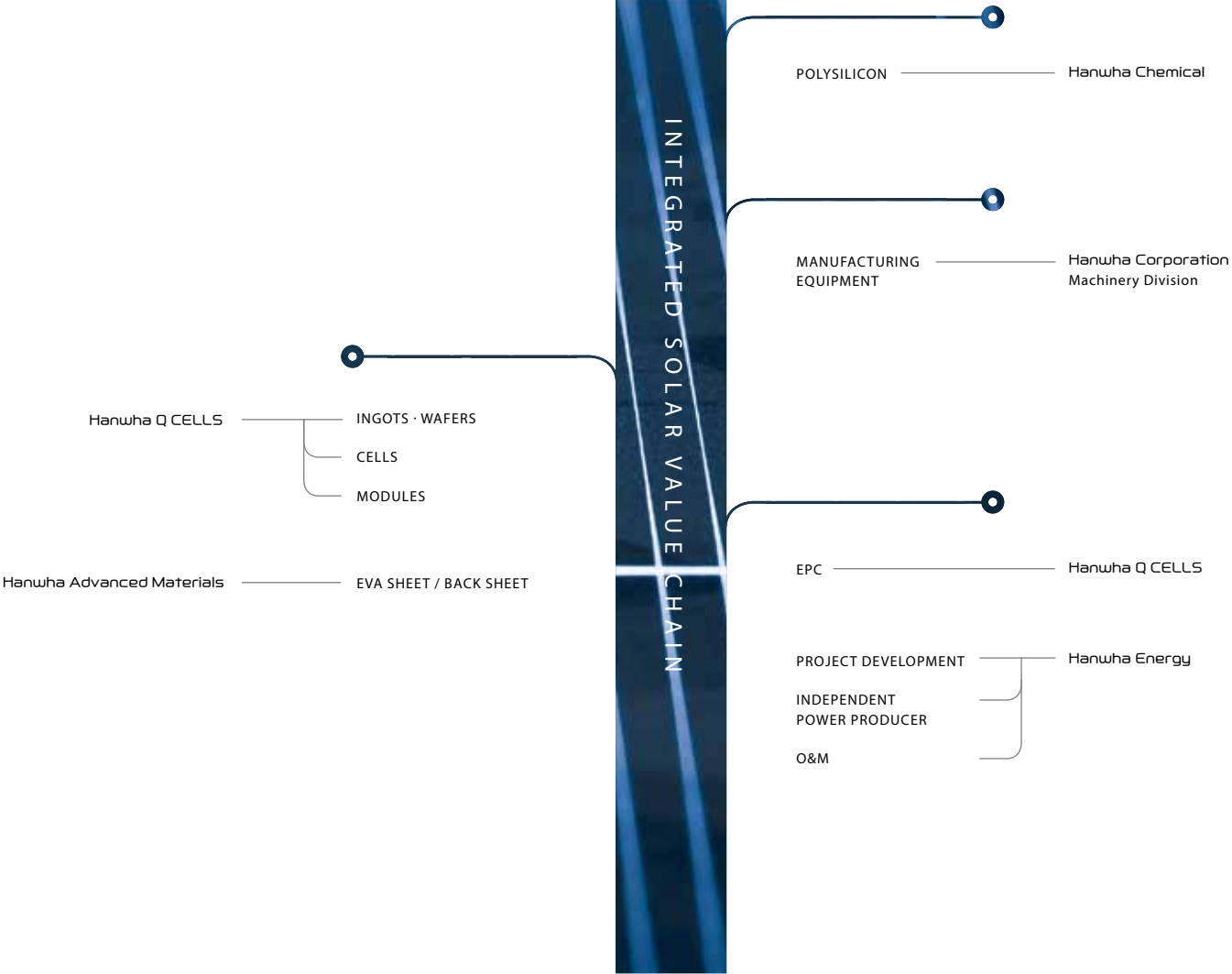
WE INVEST IN THE POWER OF TOMORROW SO YOU CAN MEET
THE ENERGY DEMANDS OF TODAY.

SOLAR ENERGY

With global-level capacity and top-quality solar products and services, **Hanwha** has rapidly become one of the most trusted names in the solar industry worldwide. We are at the forefront of innovation in the solar energy sector, with sustainable solutions designed to address the global energy challenges of today and tomorrow.



Accelerating Energy Sustainability
Hanwha has built an integrated solar value chain that flows seamlessly from the production of ingots, wafers, cells, and modules to downstream development, operations, and financing.



Scan to watch Hanwha's Solar Energy video



SOLAR CELLS & MODULES

Technology Leader

Hanwha Q CELLS' proprietary Q.ANTUM solar cells reduce energy consumption significantly by utilizing PERC (passivated emitter rear contact) architecture. In 2016, the company achieved a record-breaking multicrystalline solar module efficiency rating of 19.5 percent, the first module of its size to break the 300 watt barrier. In addition, Q.PRO-G2 modules were rated the highest-performing polycrystalline solar modules in 2015, according to the independent PHOTON laboratory. Hanwha Q CELLS is also ranked highly by installers, winning the Top Brand PV Seal 2016 from EuPD Research for the third time in Europe and the first in the US and Australia.

SOLAR RESEARCH & SALES

36+ Countries

Hanwha has state-of-the-art solar energy R&D centers in Germany, South Korea, China, and Malaysia. Its marketing and sales operations are in more than 36 countries throughout Europe, Asia, and North America.

A solar plant in Kalaeloa Renewable Energy Park in Oahu, Hawaii, where Hanwha solar modules are installed





SOLAR CELL
PRODUCTION

No.1 Worldwide

Hanwha Q CELLS is the global leader in solar cell manufacturing, with the world's largest 5.7GW cell production capacity annually.



PV MODULES

Market Share Leader

Hanwha Q CELLS signed an agreement to provide more than 1.5GW of solar modules to NextEra Energy Resources in the US. Hanwha Q CELLS is the market share leader among all global manufacturers in two of the three largest solar markets: the US and Japan.



INNOVATE

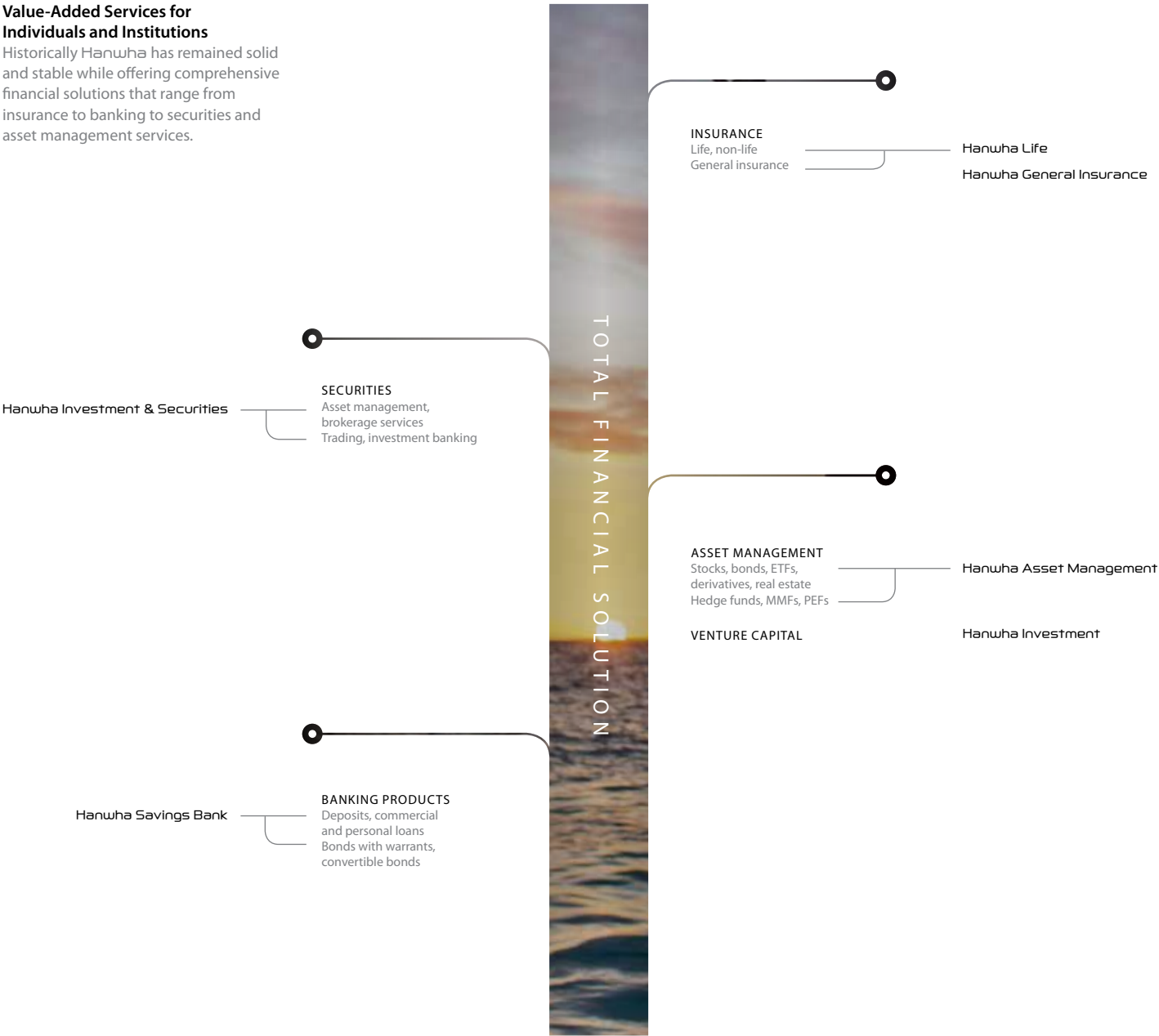


SECURE

WE INNOVATE FINANCIAL PRODUCTS SO YOU CAN
SECURE PEACE OF MIND.

FINANCE

Hanwha offers a complete financial service platform of insurance, securities, asset management and banking products. We create value for individual and institutional customers by continuously adapting to today's rapidly changing financial landscapes and providing financial solutions that give customers the freedom to pursue their dreams.



LIFE INSURANCE

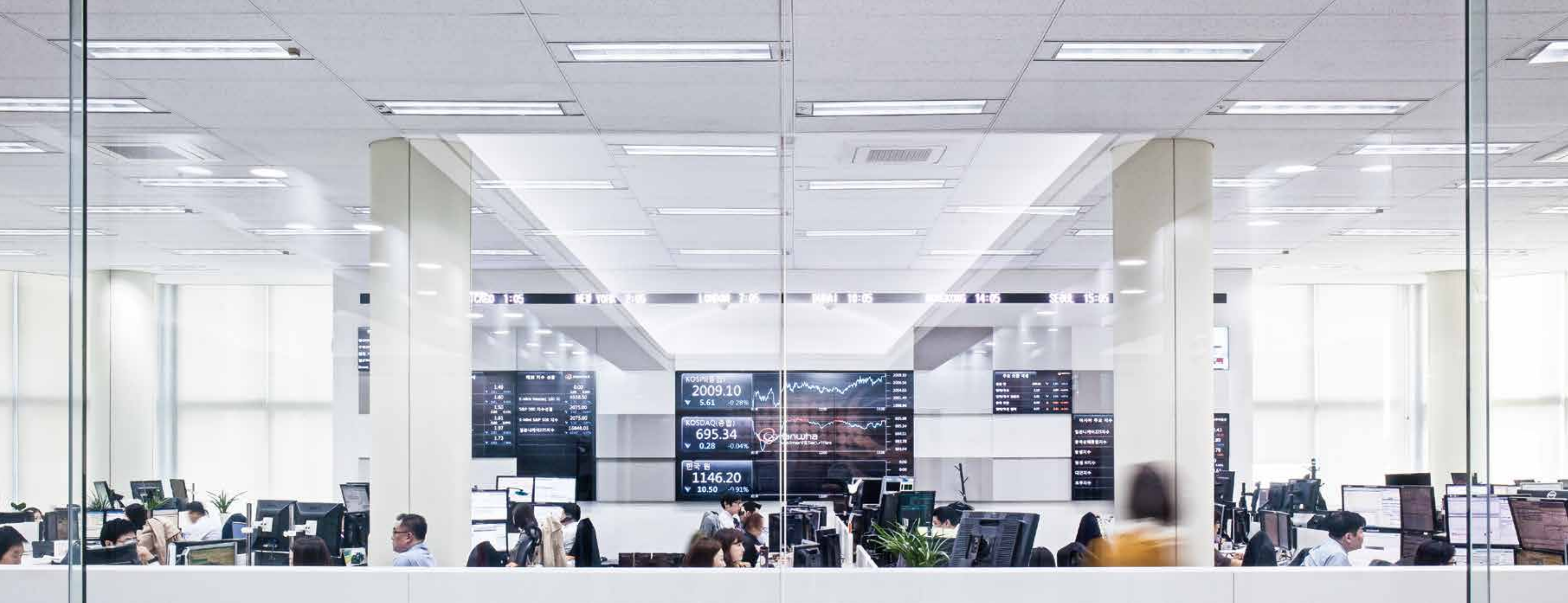
USD
82.2
Billion

(KRW 100 Trillion)

Seventy years after its founding as South Korea's first life insurance company, Hanwha Life has reached a new milestone with USD 82.2 billion (KRW 100 trillion) in total assets.

Hanwha Finance Plaza
near City Hall in Seoul





FINTECH

Securing Future Growth

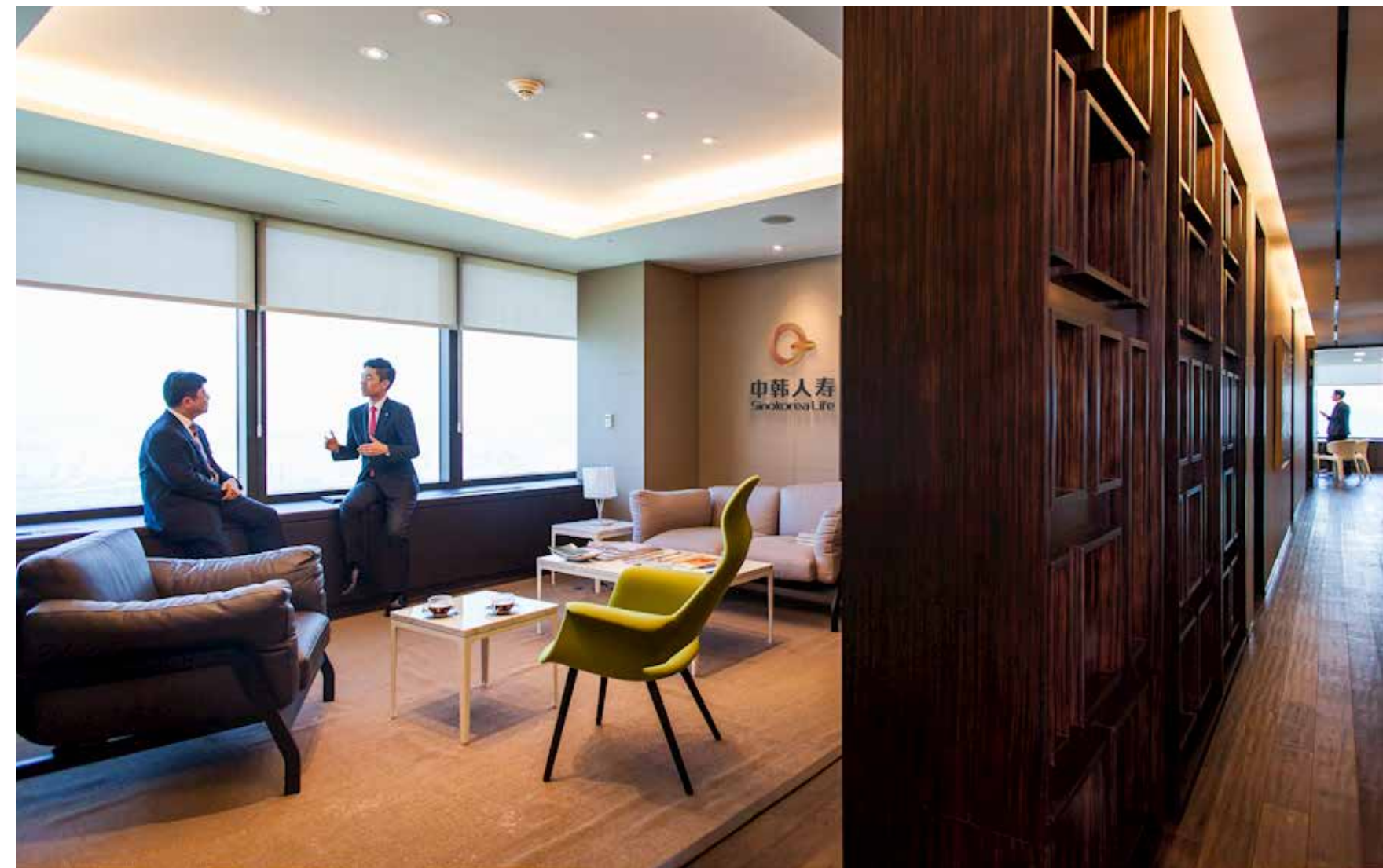
Hanwha is leveraging Big Data and strategically applying the latest financial technologies to create sustainable growth in new markets, including online banking, insurance and lending with mid-range interest rates.



SALES NETWORK

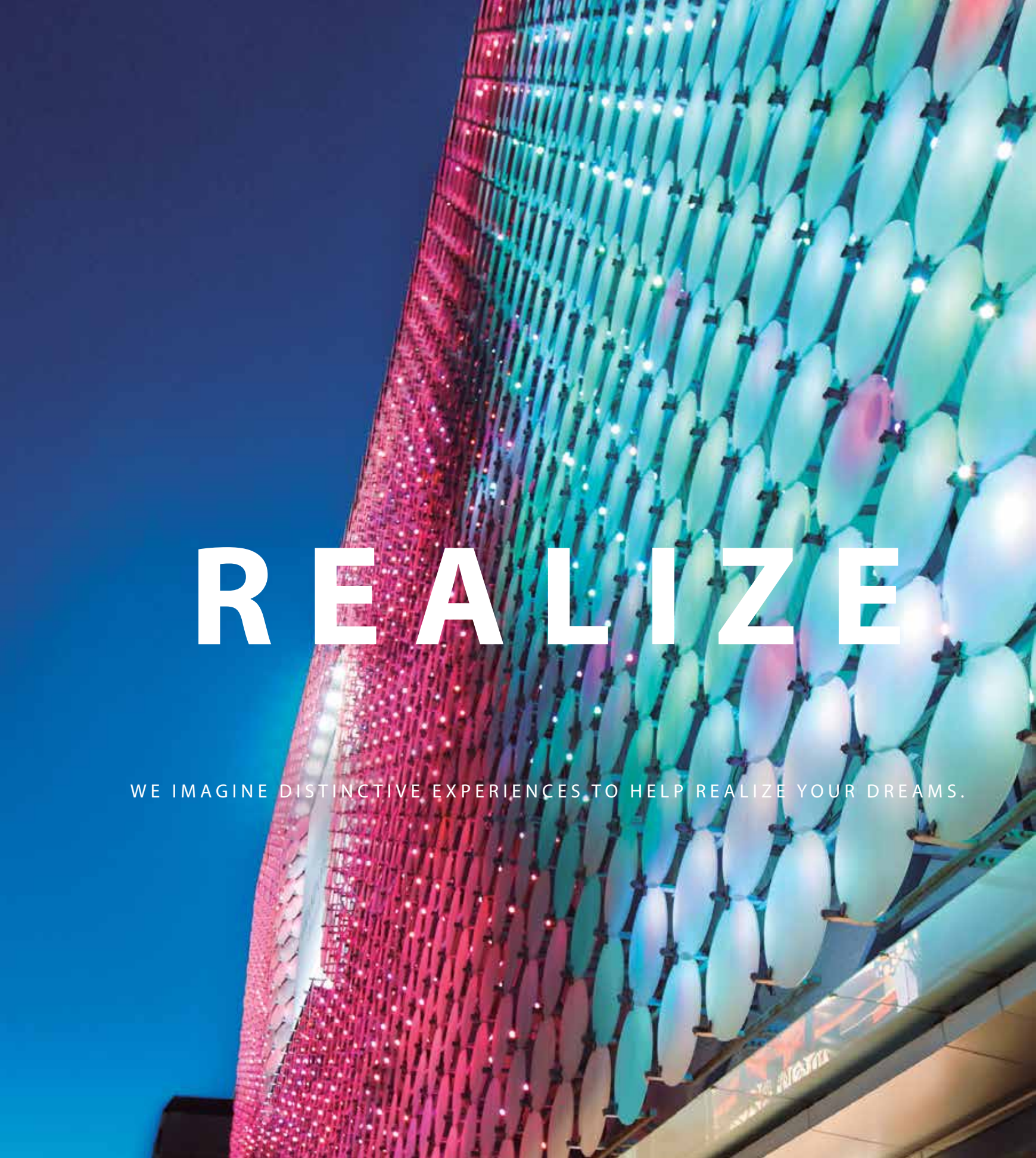
Global Expansion

Hanwha Life continues to advance in the global market by establishing subsidiaries in Vietnam, China, and Indonesia—all with the goal of becoming the leading insurance company in each country.





IMAGINE



REALIZE

WE IMAGINE DISTINCTIVE EXPERIENCES TO HELP REALIZE YOUR DREAMS.

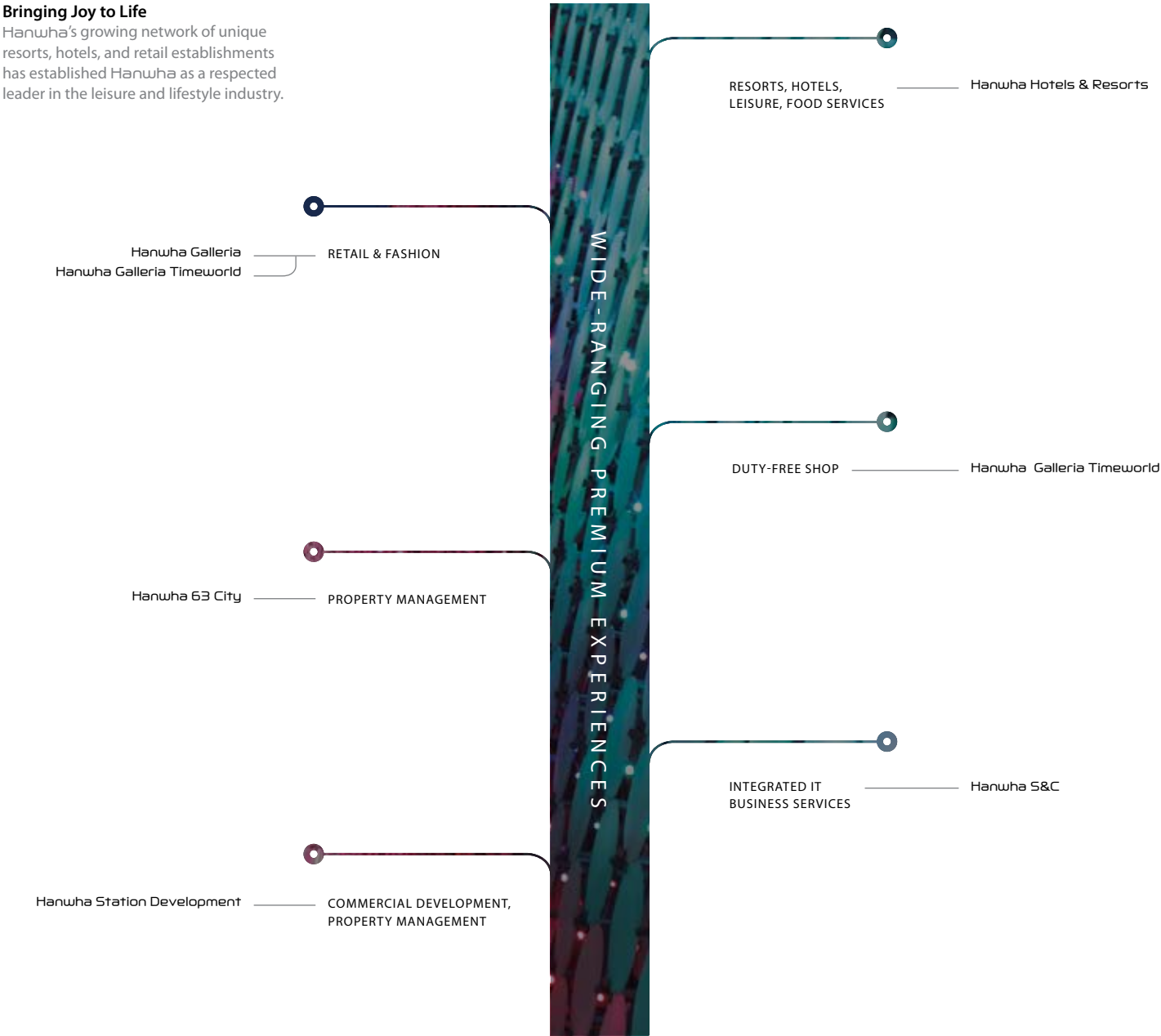
SERVICE & LEISURE

From first-class shopping experiences to luxury hotels and resorts, **Hanwha** is dedicated to enabling our customers to enjoy a richer and more enjoyable life. We continue to expand our service and leisure businesses and bring dream-like experiences to life, for people around the world.



Bringing Joy to Life

Hanwha's growing network of unique resorts, hotels, and retail establishments has established Hanwha as a respected leader in the leisure and lifestyle industry.



RETAIL

No.1

Premium Retailer

Galleria Duty Free 63 is a golden landmark in Seoul, renowned for its luxury brands and providing a high-end shopping experience.





AQUARIUMS

Leader in Maritime Culture

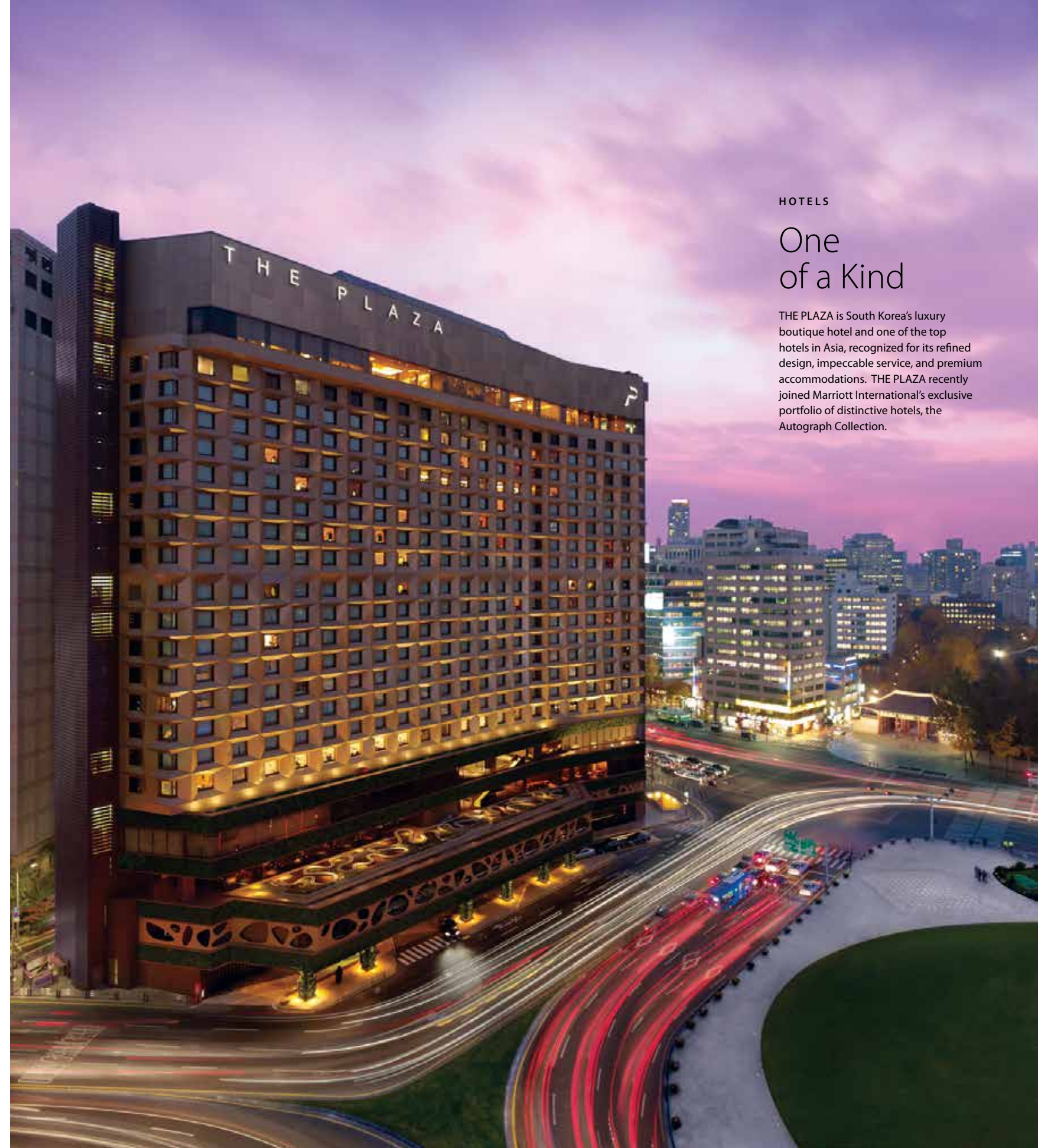
Hanwha's affinity for marine life shows in our chain of award-winning aquariums, including eco-friendly Aqua Planet in four locations: Jeju, Yeosu, Ilsan and Seoul. Our expertise in marine-life and aquarium architecture is recognized internationally. Wanda Nanchang Aquarium in China has engaged Hanwha to consult on the design and construction of their marine-life facility and also provide overall management services.



RESORTS

Expanding Globally

Hanwha Hotels & Resorts is building an international network of hotels and resorts, including the Ocean Palace Golf Club and Resort in Nagasaki, Japan, and the Saipan World Resort in the Mariana Islands in the South Pacific.



HOTELS

One of a Kind

THE PLAZA is South Korea's luxury boutique hotel and one of the top hotels in Asia, recognized for its refined design, impeccable service, and premium accommodations. THE PLAZA recently joined Marriott International's exclusive portfolio of distinctive hotels, the Autograph Collection.

An abstract background featuring a dark blue field with a complex, glowing grid of light blue lines that create a sense of depth and perspective, resembling a digital or architectural blueprint.

ENVISION

An aerial photograph of a modern city at sunset. The scene includes a tall skyscraper, a large stadium with a distinctive roof, and a waterfront area with a fountain and walkways. The sky is a mix of orange, yellow, and blue.

ACHIEVE

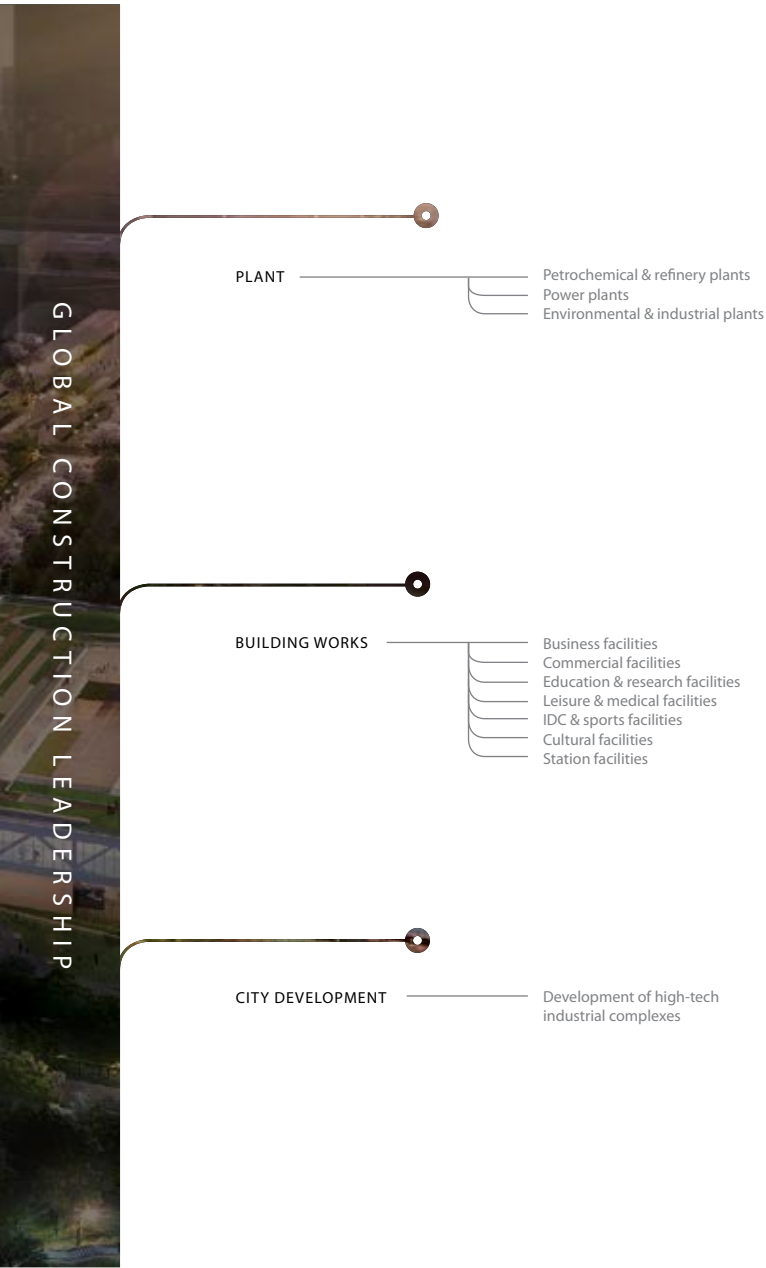
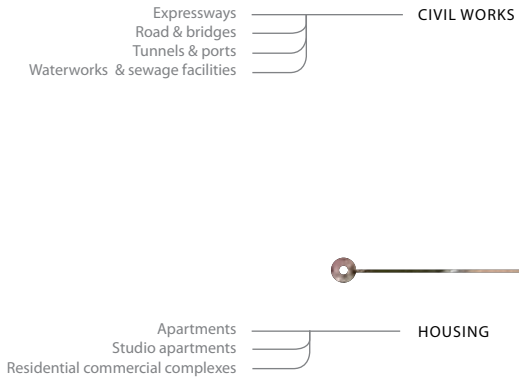
WE ENVISION POSSIBILITIES SO YOU CAN ACHIEVE YOUR GOALS.

CONSTRUCTION

Hanwha partners with customers to understand their needs and goals. Having this deep level of engagement enables us to truly envision before the build and exceed customer expectations after. From breathtaking performance venues to cutting-edge manufacturing facilities to affordable housing that brings families and communities together, Hanwha is helping to enrich the lives of millions of people around the world.



Imaginations to Possibilities
Hanwha E&C is at the forefront of the construction business on a global scale. With a stable financial structure, 50 years of experience and a myriad of proprietary technologies developed in-house, Hanwha's construction business' leading expertise can make imaginations, possibilities. This expertise spans across industrial, chemical and power plants, civil engineering works, commercial buildings, and residential housing. Hanwha City Development, a leading private developer of high-tech industrial complexes, is also gaining ground both domestically and internationally. It has completed six state-of-the-art cities in just the past fifteen years.





IRAQ PROJECTS

Building A City

The Bismayah New City Project is the largest construction project in the history of the Middle East by a South Korean. Hanwha is building an entire city on an unprecedented scale with nearly 60 city blocks and over 800 apartment complexes. Hanwha was also recently awarded a contract worth USD 2.1 billion to build the social infrastructure for the city, pushing the total value of the project to more than USD 10 billion.





PETROCHEMICAL PLANT DEVELOPMENT

Turnkey Solution

Hanwha E&C continues to solidify its market presence in the Middle East with industrial plant projects in Saudi Arabia. In 2014, Hanwha was awarded a USD 935 million contract from the Saudi-owned Ma'aden mining company to build a petrochemical plant. And in 2016, Hanwha was engaged to build a USD 400 million worth petrochemical plant by SCPS, Saudi Arabia, further proof of the company's design and construction capabilities as a turnkey solution provider.



SEAWATER DESALINATION PLANT

Integrated Energy Development

Hanwha has built the Yanbu desalination plant. It provides 15 million gallons a day to help Saudi Arabia resolve its water deficit problem while simultaneously generating 160MW of electricity.



SUWON CONVENTION CENTER

Innovative, Complex Project

Hanwha's engineering and construction expertise is helping to bring the visually stunning Suwon Convention Center to life. Meanwhile Hanwha Hotels & Resorts and Hanwha Galleria are partnering on a hospitality infrastructure, developing a hotel, a department store, and an aquarium.



Hanwha OVERVIEW



- 1952 Korea Explosives Co. (now **Hanwha Corp.**) is founded
- 1965 Korea Hwasung Industrial (now **Hanwha Chemical** and **Hanwha Advanced Materials**) is founded
- 1976 Sungdo Securities (now **Hanwha Investment & Securities**) is acquired
- 1986 Hanyang Stores (now **Hanwha Galleria**) is acquired
- 1994 **Hanwha** R&D Center is built



Our Journey...

From the start, we began with the philosophy of our founders—that businesses should contribute to nations and societies. For more than **60 years**, determined and never losing focus, we remained steadfast to this philosophy.

Foundation of a Business 1952 - 1963	Business Expansions 1964 - 1980	Second Foundation 1981 - 1995
RESTORING A NATION'S ECONOMY	MODERNIZATION OF A NATION	STRATEGIC DIVERSIFICATION
Following World War II, much of South Korea's infrastructure was in ruins. The plight of its people and the need to rebuild a country was a national calling for many. An enterprising young man, Chong-Hee Kim, answered that call. Recognizing that explosives would be instrumental in the rebuilding effort, Mr. Kim founded 한국화약 (Korea Explosives Company). He and his colleagues focused on R&D to produce nitroglycerin, a critical ingredient in the manufacture of industrial explosives. Due to their efforts, by 1959, South Korea had become only the second country in Asia to produce industrial explosives. And as industrial explosives became widely used in reconstruction, Mr. Kim and his company had effectively contributed to society and helped to rebuild a nation. He had stayed true to his founding philosophy, the philosophy that serves as Hanwha Corporation's guiding principle to this day.	As Korea accelerated its economic development, Hanwha played a vital role in constructing the landmark Kyungbu Express Highway—literally helping to pave the way to a modern future. And in the mid-1960s, Hanwha began expanding into key industries. Korea Hwasung Industrial Co. (now Hanwha Chemical and Hanwha Advanced Materials) marked the company's entry into petrochemicals. In the 1960s, Kyung-In Energy was established. In 1971, Hanwha established Hankook Precision (now, Hanwha Corporation's Machinery Division) and in 1972, built oil refineries and power plants to advance Korea's industrialization. Then, in 1976, Hanwha acquired Sungdo Securities (now Hanwha Investment & Securities) and listed Korea Explosives on the Seoul Stock Exchange.	Under the direction of its second chairman, Seung Youn Kim, Hanwha continued to focus on diversifying its business portfolio, entering the leisure, retail, and service industries. Resort developments began with the acquisition of the Junga Group in 1985. Today Hanwha Hotels & Resorts is South Korea's leading leisure group. In 1986, the acquisition of Hanyang Stores signaled Hanwha's entry into the retail market. Now known as Hanwha Galleria , the premium retail enterprise encompasses five department stores and is the foundation of the group's retail business.

Our Strength Grows...

Along the way we’ve made bold acquisitions, weathered challenging economic conditions, and entered exciting new markets. As a result of those decisions, we’ve steadily grown, becoming a strong innovator, a respected global partner, and a contributor dedicated to improving the quality of life for individuals, businesses, and communities worldwide.

Building Momentum
1996 - 2006

RESTRUCTURING
FOR THE NEW CENTURY

The 1997 Asian Financial Crisis hit South Korea hard—companies were sold and unemployment reached an all-time high. **Hanwha** overcame these challenges through radical innovation and company restructuring. Through it all, **Hanwha** prioritized job security above all else, a requirement when selling companies, promising that employees could return to **Hanwha** if they wanted. **Hanwha** emerged from the financial crisis without a single labor dispute, and was regarded as a model for the other South Korean corporations. In 2002, **Hanwha** acquired Korea Life Insurance, rescuing the company from a steep deficit. Within eight years, the company had doubled its assets and increased sales by 30 percent.

Accelerating Global Business
2007 - Present

EMERGING AS
A GLOBAL LEADER

At the dawn of the 21st century, **Hanwha** accelerated global expansion with a diversified business foundation and a vast network of operations overseas. **Hanwha Advanced Materials** acquired US-based Azdel, Inc. and established the production subsidiary in the Czech Republic in 2007 to enhance its standing as a global automotive component maker. Then in 2009, **Hanwha Chemical** began construction of a PVC plant in Ningbo, China. It followed suit by winning the bid and beginning construction on the Bismayah New City Project in Iraq in 2012—valued at USD 10 billion and the largest overseas contract ever by a Korean company. SolarFun Power Holdings and Q.CELLS were acquired in 2010 and 2012 respectively, paving the

way for **Hanwha Q CELLS**, the world No. 1 solar cell producer ranking. Nearly in parallel, **Hanwha Life** established its subsidiary in Vietnam in 2008 and launched the Chinese operation of its joint venture with Sino-Korea Life Insurance in 2012. **Hanwha** also acquired a life insurance company in Indonesia in 2013 to further accelerate its global growth. Recently, it entered the Fintech sector to bring greater financial security to more people worldwide. In 2015, **Hanwha** acquired Samsung Techwin, Samsung Thales, and Doosan DST to enhance our competitive edge in the aerospace and mechatronics sectors. And by acquiring Samsung General Chemicals and Samsung Total Petrochemicals, **Hanwha** secured the top ranking in the petrochemical industry in South Korea.



- 2002 **Hanwha** acquires Korea Life (now **Hanwha Life**)
- 2007 **Hanwha** announces its new corporate identity
- 2012 **Hanwha** acquires Germany-based Q.CELLS and **Hanwha Q CELLS** is launched
- 2015 **Hanwha General Chemical**, **Hanwha Techwin** and more companies are launched

Hanwha Today

We are a Fortune Global 500 company leading internationally in a broad range of businesses. Our aggressive investments in our primary industries (chemical, aerospace, mechatronics, solar energy, and finance) are laying the foundation for sustainable development and a brighter future for all.

60+

YEARS OF HISTORY
(FOUNDED IN 1952)

USD 53.09_B

TOTAL SALES, 2015

226

GLOBAL NETWORKS,
AS OF JUNE 2016

TOP 8

BUSINESS ENTERPRISES
IN SOUTH KOREA, TOTAL
ASSET BASIS AS OF 2015

56

DOMESTIC AFFILIATES,
AS OF JUNE 2016

Hanwha's Vision

Our vision is to touch the lives of every individual in every country we operate and elevate their quality of life with our innovations and solutions. To this end, we've set goals to help us achieve leadership across our businesses (listed below). As we lead, we will also serve, continuing to foster a corporate culture in which serving others is held in the highest regard.

Our Vision



Our Spirit & Core Values

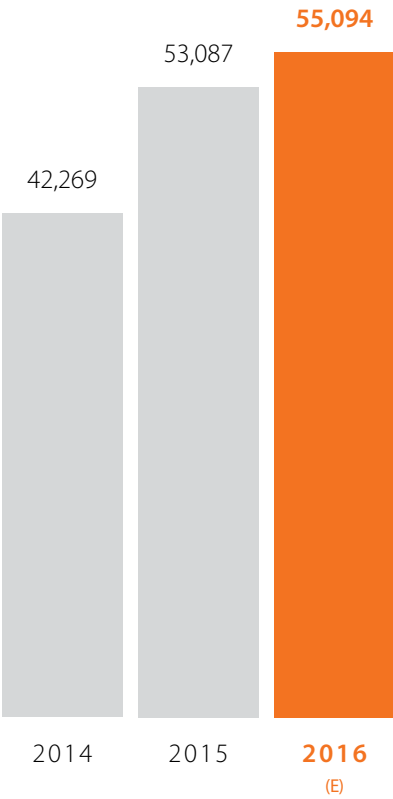
At **Hanwha**, we operate with the spirit of trust and loyalty above all else. They are reflected in our core values and serve as the guiding force behind how we do business and why we innovate.

- We believe in challenging the status quo in pursuit of excellence through change and innovation.
- We are dedicated to our company, customers, and one another to achieve a greater goal.
- We believe in acting with integrity in everything we do, as individuals and employees.

Financial Highlights

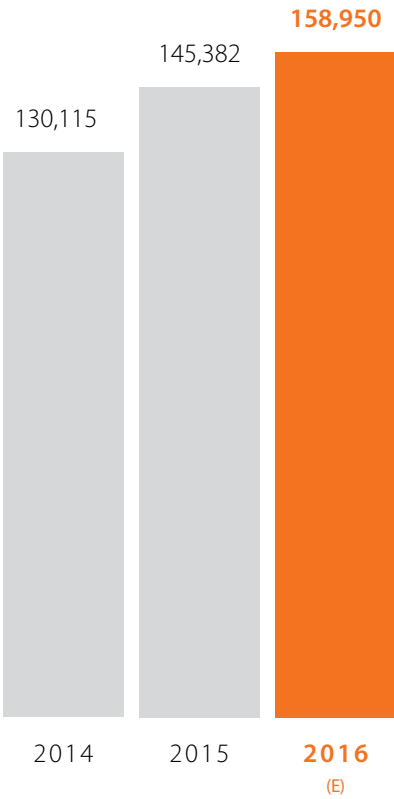
TOTAL SALES

In USD Millions



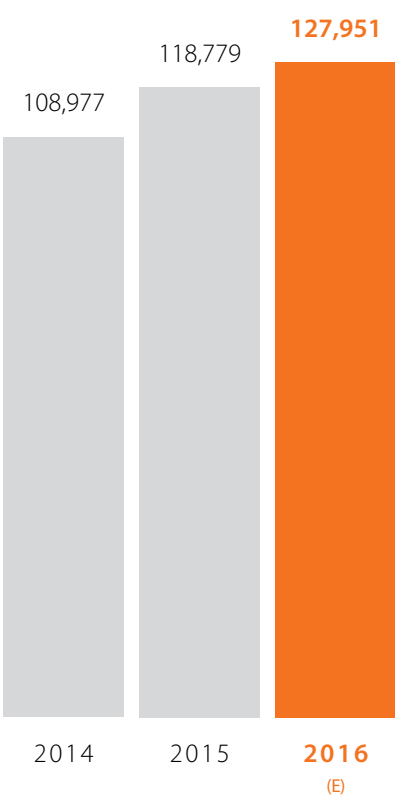
TOTAL ASSETS

In USD Millions



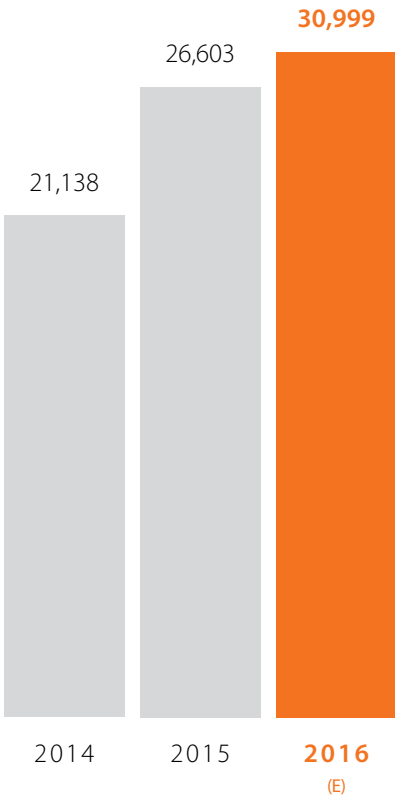
TOTAL LIABILITIES

In USD Millions



TOTAL STOCKHOLDERS EQUITY

In USD Millions



- * The financial data in the Financial Highlights shows the simple aggregate of sales, total assets, total liabilities, and total stockholder equity among the **Hanwha Group's** major affiliates at home and abroad. (Source: the **Hanwha Group**)
- * Figures for sales and total assets of individual affiliate companies published on page 71 and subsequent pages of his brochure are data officially announced by the Fair Trade Commission.
- * This outlook data was generated prior to completing the internal financial statements, accounting reviews and an external audit report and is therefore subject to change upon settlement of accounts and accounting audit results. The outlook data also includes information on forecasts that may be affected by

risks, market conditions, uncertainties, or changes in circumstances. In addition, the actual results may differ from the published or suggested content herein, and may change without prior notice due to shifts in market conditions and change in strategies. This data was generated for reference purposes only. The **Hanwha Group** has no obligation to set or change expectations and forecasts for the future contained herein. The data contained herein must not be used for investment purposes. The **Hanwha Group** does not provide any guarantee for the data and its contents, and has no liability or responsibility for the outcome of investments made based on this data.

* Sales are converted into US dollars at the average exchange rate of USD 1= KRW 1,131.49 in 2015, and KRW 1,053.21 in 2014.
* Assets, liabilities, and shareholder equity amounts are converted into US dollars at the December 31 closing exchange rate of USD 1= KRW 1,172.00 in 2015, and KRW 1,088.50 in 2014.
* The 2016 expectancy data was converted based on **Hanwha Group's** internal exchange rate of USD 1=KRW 1,165.

Hanwha Businesses

Each of our businesses in manufacturing & construction, finance, and services & leisure seek global leaderships. Our affiliates compete successfully in their respective markets and create synergy with one another. Their common goal is to provide a range of solutions that will collectively, enhance the quality of life for our customers.

MANUFACTURING
& CONSTRUCTION

2015 SALES
USD

26.05 billion

FINANCE

2015 SALES
USD

23.83 billion

SERVICE
& LEISURE

2015 SALES
USD

3.21 billion

Manufacturing & Construction

- Hanwha Corporation
- Hanwha Techwin
- Hanwha Systems
- Hanwha Defense Systems
- Hanwha Chemical
- Hanwha General Chemical
- Hanwha **TOTAL** Petrochemical
- Hanwha Engineering & Construction
- Hanwha Q CELLS
- Hanwha Advanced Materials
- Hanwha Energy
- YEOCHUN NCC**
- Hanwha City Development

Hanwha Corporation

www.hanwhacorp.co.kr

EXPERTISE

Explosives: Industrial explosives products, raw explosives materials, explosives applications, domestic and overseas mining services.

Defense: Precision-guided munitions, advanced ammunition, underwater surveillance equipment.

Trading: Petroleum, petrochemicals, metals, machinery, chemical products, industrial plants, coal, new and renewable energy, general merchandise, resources development.

Machinery: Machine tools, aerospace, solar, factory automation, power train, plant machinery.

2015 Total Sales

In USD millions

4,506

2015 Total Assets

In USD millions

6,475

Hanwha Corporation was founded in 1952 as Korea Explosives company, quickly becoming the leader in the South Korean explosives industry. It has since grown into a global manufacturing and trading company operating in four business areas—explosives, defense, trading, and machinery.

In 1959, we were the first domestic manufacturer of dynamite in South Korea. After having successfully developed safe, high-quality industrial explosives and fire process products, **Hanwha** was able to supply the South Korean government with the crucial means to rebuild its cities and infrastructure. Today, **Hanwha Corporation** continues to apply its extensive experience with explosives technology and has expanded into raw explosives materials, explosives manufacturing, and explosives applications. We entered the mining service market in 2014, quickly gaining a firm foothold in the world markets with high-caliber products and services. We started offering mining services in South Korea and Indonesia. We continued to expand our business into new service areas. In 2015, we entered a new market and took over the Australian mining service company LDE with proven high-quality products and aggressive pricing. We also completed the full vertical integration of nitric acid-ammonium

nitrate-industrial explosives by acquiring granular ammonium nitrate production lines. We also invested in innovations to produce high value-added technologies, such as the electronic detonator.

Hanwha Corporation's Defense Division has the largest defense capabilities in South Korea. Since entering the defense industry in 1974, this division has contributed significantly to improving South Korea's military defense capabilities. We operate businesses in precision-guided munitions, advanced ammunition, and underwater surveillance equipment. We have also entered the aerospace business, sharpening our competitive edge. In 2015, we conducted large-scale mergers and acquisitions, expanding our businesses that had been previously focused on ammunition and guided munitions to include self-propelled guns and engines for aircraft and fleet, as well as defense electronics such as radar and combat systems. We have been selected as the developer of the Long-Range Surface-to-Air Missile (L-SAM) system, the key to the Korea Air and Missile Defense (KAMD) system. And while our Defense Division has recorded steady growth, we continue to invest in new technology and innovate to enhance business competitiveness.

Hanwha Corporation's Trading Division is an international trading company that has played a leading role in globalizing the **Hanwha Group** since its establishment in 1966. We have built a global network of more than 30 overseas corporations and offices. Our network allows us to work in synergy in world markets for the **Hanwha Group**. As we continue to build our existing trading business, we lay the groundwork for stable growth by investing in value chain businesses. We focus on discovering and fostering new business models that are country-specific and overseas projects in the hospital and infrastructure sectors. In time, these businesses will become new revenue sources for our general trading business. We are increasing our network strategically, in Latin America and Africa, and building new overseas business opportunities.

From leading its nation since its establishment in 1953, **Hanwha Corporation's** Machinery Division today, is leading the machinery equipment industry worldwide, by leveraging its deep experience and cutting-edge technology. We produce high value-added machinery equipment, including industrial machinery and machine tools by focusing on heat treatment, automation, and precision processing. Our customized machine

tools have helped us gain the largest market share in South Korea. And in another of our growing businesses, we have successfully developed and delivered solar cell manufacturing facilities to our customers, proving the quality and safety of our technology.

Our state-of-the-art technologies in the aerospace business have allowed us to make great strides toward becoming a global leader in the aerospace auxiliary machinery and electronics fields. In 2015, we signed an agreement to export aerospace parts with UTAS, a Turkish company. Our aerospace maintenance business also signed a memorandum of understanding with GE. Agreements such as these establish cooperative ties with global companies and enhance our business competitiveness. They also take us closer to becoming a global leader, strengthening our competitiveness, exploring new growth engines, and expanding our global presence.



Hanwha Corporation provides solar machinery to Hanwha Q CELLS, one of the world's largest photovoltaic manufacturers, recognized for its high-quality, high-efficiency solar cells and modules.

Hanwha
Techwin

www.hanwhatechwin.com

EXPERTISE

Engines, defense equipment,
industrial/energy equipment,
video surveillance cameras

2015 Total Sales
In USD millions

2,310

2015 Total Assets
In USD millions

3,505

Hanwha Techwin total sales and total
assets are based on consolidated financial sheets.

Hanwha Techwin was established in 1977, originally to work in the aircraft engine and film camera businesses. It became a member of the **Hanwha Group** in 2015. Since the company's founding, we have led South Korea's precision machinery industry. Banking on our technologies in optics, video, and aircraft engines, we have expanded our businesses to include security, energy, and industrial equipment, aircraft/gas turbine engines, and defense programs. Across our businesses, we have global top-tier original and application technologies. By building independent management systems for aerospace & defense, industrial equipment and security divisions, we continue to sharpen our expertise in technology development and in meeting market demands.

As South Korea's only producer of gas turbine engines, we have an unmatched competitive edge in the engine business. Since 1979, we have provided a range of gas turbine engine solutions around the world, including South Korea. In 2014, we passed the milestone of 7,000 gas turbine units completed over the years. In 2015 and 2016, we became a trusted partner in the world's aircraft industry as we signed a contract to provide large-scale aircraft engine parts to GE and joined a next-generation aircraft engine RSP (Risk and Revenue Sharing Partnership) with Pratt & Whitney of the US.

Since entering the defense business in 1983, we have continuously developed our technology and have completed many nation-led large projects. We produce reliable and cost-competitive defense equipment, such as our K9 self-propelled howitzer, with its world-class fire rate and range, and our K10 ammunition resupply vehicle, with the world's first fully automatic control system. With **Hanwha** affiliates in defense businesses, including **Hanwha Corporation** and **Hanwha Systems**, we are growing as a global defense company. In 2016, the **Hanwha Group** acquired the Doosan DST, now the **Hanwha Defense Systems**, to build capacity for armored vehicles, air defense systems, launcher systems, and optics/navigation systems.

In the energy equipment business, we use advanced technology to produce quality high-end products, including air compressors, fuel gas compressors for power plants, boil-off gas compressors for LNG terminals and plants, and extremely low-temperature compressors, expanders, and LD (low duty)/HD (high duty) compressors for LNG carriers. We have sold more than 4,000 air and gas compressors worldwide and expanded our business to include maritime energy solutions.

Our security business provides a full lineup of security solutions, from world-class CCTVs and video recorders to integrated management software. We apply more

than 20 years of experience in optics and video processing technology to offer products for various customer needs. Our advances in R&D has enabled us to not only meet the ever-changing demands of the housing and construction industry but also to stay one step ahead. We produce 2.6 million video surveillance devices in South Korea and China, and achieve 75 percent of our sales in other markets overseas. In 2015, we signed a contract to supply 800,000 security cameras to AT&T/Securitas, securing our growing presence in the global market.

In the industrial equipment business, we manufacture surface mounting technology (SMT) equipment for assembling and manufacturing electronic components. Our high-speed, high-precision chip mounter and mid-speed chip mounter are recognized worldwide for their best-in-class combination of speed, reliability, and value. They also appeal to a wide range of customer needs. We have sold more than 26,000 units so far. We also operate 34 service networks to help manage our customers' productivity, quality control, and precision maintenance.

Hanwha
Systems

www.hanwhasystems.com

EXPERTISE

Command, Control, Communication,
Computer and Intelligence (C4I) for
ground, naval and avionics products
and systems

2015 Total Sales
In USD millions

634

2015 Total Assets
In USD millions

615

As a defense electronics company, **Hanwha Systems** has significantly advanced the defense capabilities of South Korea's military since the company was founded in 1978. It became a member of the **Hanwha Group** in 2015. From the product development of weapon systems operation to integrated logistics and post production support (ILS, PPS), **Hanwha Systems** offers a complete solution with ground, naval, air command, control, communication, computer, and intelligence (C4I), guided weapons, electronic warfare (EW), and future combat systems. We are recognized as a globally competitive total solutions provider.

Combining our technical development capabilities and subject matter expertise on radar, optronic, command, and fire control system products in the ground systems domain, we offer integrated solutions to our customers. In the naval systems domain, **Hanwha Systems** is working to further enhance integrated solutions for management and control systems, system engineering technology, and sensor armament. We are also developing a tactical communication system (TCS) and integrated command & control (C2) solutions that better adapt to future warfare environments as major export items. We will continue efforts to strengthen our R&D capabilities in order to develop high-performance advanced weapons systems.

In 2016, **Hanwha Systems** was selected as the developer for the active electronically scanned array (AESA) radar for the next-generation Korean fighter KF-X, along with the mission computer and large area display (LAD), proving leadership in the market.

We also opened a new maintenance support center in Pocheon, South Korea and aim to ensure timely customer support with five support centers nation-wide.

With our globally proven technology, high level of product quality, and outstanding service, we are expecting nothing less than greater global market share and recognition worldwide.

Hanwha Techwin is South Korea's sole manufacturer of gas turbines. In partnership with GE, we developed the rear drive engine for the first utility helicopter made in South Korea. We are moving forward quickly to become a major player in the global supply chain for gas turbines. In 2014 and 2015, we received a series of contracts to supply engine parts to global engine manufacturers.



Hanwha Systems R&D Center develops cutting-edge technologies used in world-class radar, optronics, missile seekers and tactical communication systems.

Hanwha Defense Systems

www.hanwha-defensesystems.co.kr

EXPERTISE

Infantry fighting vehicles, air defense weapons, guided weapons, launching systems, high-precision navigation, laser weapons

2015 Total Sales
In USD millions

613

2015 Total Assets
In USD millions

708

Established in 1937, **Hanwha Defense Systems** is a comprehensive defense equipment provider. Our superior production capability and technology enable our company to deliver infantry fighting vehicles, air defense weapons, guided weapons, launching systems, high-precision navigation, and laser weapons. We became an affiliate of the **Hanwha Group** in 2016. We are accelerating towards our goal to become a global top-tier company in the industry.

Over the years, our business has expanded to encompass air defense weapons, guided weapons, launching systems, and high-precision navigation from infantry-carrying armored vehicles. We provide high-quality weapons, comprehensive defense solutions and enhanced national defense and security.

With our in-house technology, we have developed and commercialized world-class defense equipment for warfare and warfare support, including the K21 Infantry Fighting Vehicles (IFC), BIHO (an air defense weapon), Hybrid BIHO (a guided air defense weapon), CHUNMA (our flagship guided surface-to-air system), CHUNMU (a multiple rocket launcher), and a chemical, biological, and radiological (CBR) patrol vehicle. For the army, the navy and the air force, we also provide 40 types of launcher systems and 30 types of high-precision navigation systems for weapons systems.

We produce seven specialized infantry fighting vehicle models using our K200 Armored Personnel Carrier (APC) and the world-class K21 IFC as the base. In air defense and guided weapons, we optimize solutions according to needs but may include the VULCAN (for armored vehicles, towing, and warship), the NOBONG (a warship gun), the BIHO, the CHUNMA and the Hybrid BIHO. For high-precision navigation, we offer a range of guided weapons and state-of-the-art equipment, including guided space vehicles, aircraft, and private-sector vehicles and vessels. Narocho, the Korea Space Launch Vehicle 1, carried one of our navigation systems into outer space.

Today, our outstanding technology and commercialization capabilities allow us to work in different markets around the globe. From 1993 to 1995, we exported our K200 APC to Southeast Asia—the first large-scale export of a South Korean defense product. Since then, we have sent other products to other locations around the world. Currently, we are in discussions to export to the Middle East and Asian markets. Each export represents a successful execution of a localization strategy to meet the needs of each country.

Hanwha Defense Systems is South Korea's leading defense company. Through hard work and strong investments in R&D, we've gained recognition in the global defense market; however, our greater satisfaction comes from our ability to contribute to our nation's defense. We've created synergy with our affiliates in other defense businesses, between **Hanwha Corporation's** Defense Division, **Hanwha Techwin**, and **Hanwha Systems**. Together, we will play a pivotal role in making **Hanwha** a top-tier defense company in the world with comprehensive defense systems that can protect an entire nation.

Hanwha Chemical

hcc.hanwha.co.kr

EXPERTISE

PE, PVC, CA, photovoltaics, TDI

2015 Total Sales
In USD millions

2,890

2015 Total Assets
In USD millions

5,952

Established in 1965, **Hanwha Chemical** is a comprehensive chemical company with streamlined production systems for polyethylene (PE), polyvinyl chloride (PVC), and chlor-alkali (CA). As South Korea's leading petrochemical company, we are highly influential in the nation's chemical industry, producing high-quality PVC, CA, and low-density polyethylene (LDPE) at competitive prices. In 2012, we successfully commercialized high-density ethylene vinyl acetate (EVA) for the first time in South Korea. Just four years later, we also localized the production of chlorinated polyvinyl chloride (CPVC), enhancing the quality of our PVC. More recently, we've been building a production line that can produce up to 30,000 tons of CPVC annually. We have partnered with the Korea Advanced Institute of Science and Technology (KAIST) to establish the KAIST-**Hanwha Chemical** Future Technology Research Center, a significant step forward to further enhance quality and continue our incredible pace to innovate.

We continue to work to improve production efficiency and cost competitiveness as we meet growing demand for our products around the world. Our PVC plant, completed in 2011 in Ningbo, in China's Zhejiang province, was built to be able to produce up to 300,000 tons of PVC annually. Today, with continuous improvements in the production process, the plant is producing 360,000 tons of PVC each year. In Bang Phli, Thailand, we built an alkali soluble resin plant with an annual capacity of 17,000 tons. This facility serves as an important base of operations as we enter markets in Southeast Asia.

Hanwha Chemical was the first South Korean petrochemical company to tap into new business opportunities in the Middle East. We signed joint venture contracts with International Polymers Company, a private petrochemical company in Saudi Arabia, and Gulf Advanced Cable Insulation in 2011. In 2015, we achieved cost reductions and economies of scale as our joint venture with International Polymers began to produce EVA and LDPE. With Gulf Advanced Cable Insulation, we are producing wire and cable compounds. In 2016, we strategically acquired a company to maximize the synergy in production processing of CA and vinyl chloride

monomer (VCM) while enhancing our production efficiencies with toluene diisocyanate (TDI), a raw material for polyurethane products.

Hanwha Chemical is also expanding its global business to cover emerging future industries such as photovoltaics. We acquired global photovoltaic companies to enhance our competitive edge in this developing but exciting market. To strengthen our upstream solar businesses, we built a polysilicon plant in the Yeosu National Industrial Complex. The plant started its production in early 2014, with a capacity of 10,000 tons annually. We have been leveraging the advantages of our affiliate companies and making strategic investments to become a leader in the global solar energy market.



The Hanwha Chemical Ningbo PVC plant in Zhejiang, China, was completed in 2011, enabling us to target China's PVC market with outstanding quality and value.

Hanwha
General Chemical

hgc.hanwha.com

EXPERTISE
PTA

2015 Total Sales
In USD millions

1,386

2015 Total Assets
In USD millions

1,842

Hanwha General Chemical was established in 1974 and then acquired by the Hanwha Group in 2015. We were the first company in South Korea to localize production of purified terephthalic acid (PTA) a primary component in many types of polyester, PTA is used in clothing, industrial fibers, film, and paint. And its applications are expanding dramatically.

Today, we have an annual capacity of two million tons, helping us to be No. 1 in both production capacity and market share in South Korea. Our experience and technology has also been recognized worldwide. We leveraged our many years of expertise and our PTA processing technology in the Middle East back in 2010. Since joining the Hanwha Group, we have enhanced our cost competitiveness by creating synergies with chemical affiliates and diversifying our markets through management and sales innovation.

We are actively diversifying into markets in China, Europe, the Middle East, and the US as part of our plan to expand globally. By committing deeply to R&D on PTA technologies and related businesses in the value chain, we expect to become stronger for greater growth in the near future.

PTA is the primary raw material for polyester and is widely used in PET resin, bottles, films, paint, and industrial materials.



Hanwha
TOTAL
Petrochemical

www.hanwha-total.com

EXPERTISE

Ethylene, propylene, BD, EG, SM, PX, PE, EVA, PP, gasoline, diesel, jet fuel, LPG, solvent

2015 Total Sales
In USD millions

7,314

2015 Total Assets
In USD millions

5,170

Since its founding in 1988, Hanwha TOTAL Petrochemical has tirelessly led South Korea's petrochemical industry with technology innovation and global expansion. In a 2003 joint venture with the Total Group, a major French energy and chemical company, we formed a global energy and chemical company, a strong platform for growth. After becoming a Hanwha affiliate in 2015, we achieved a record-breaking business performance.

Hanwha TOTAL Petrochemical operates a large-scale energy and petrochemical facility comprising 18 separate plants in the Daesan Petrochemical Complex in South Korea. We manufacture a wide variety of petrochemical products, including base chemicals such as ethylene, propylene, styrene monomer, paraxylene, and ethylene glycol. We also produce polyolefin products such as polyethylene and polypropylene, used to manufacture a wide range of consumer products; and energy products such as gasoline, diesel, jet fuel, liquefied petroleum gas, and solvents.

As the only petrochemical company in South Korea, we are equipped with a naphtha cracking center (a core facility in our petrochemical plant), a condensate fractionation unit (a refining facility in our refinery) and an aromatics plant. These facilities have enabled us to establish solid vertical integration, from petrochemical raw material supply to end-product production. In effect, we've laid the foundation for stable growth by not only diversifying our product portfolio but also optimizing production efficiency for linking and managing raw materials, energy, distribution, and facilities. We registered as a refining company in 2010 and successfully completed a facility expansion in 2014. This added a second aromatics plant, a condensate fractionation unit, and an ethylene-vinyl acetate (EVA) plant. These additions gave us a sizable annual production capacity of in-demand products, including 1 million tons of ethylene, 1.77 million tons of paraxylene, and 1.05 million tons of styrene monomer.

Our EVA product for solar cells achieved the No. 1 market share in the world, a testament to our commitment to quality and innovation. We were then selected as a "World Class Product of South Korea" in 2015 by the Ministry of Trade, Industry, and Energy. Our range of high-value-added products, including protective film, general film, and bottle cap material, also claimed the No. 1 spot for market share in South Korea. As a major affiliate of the Hanwha Group, we expect our next recognition to come from maximizing synergy with our affiliates and enhancing our global competitiveness.

Hanwha TOTAL Petrochemical's EVA for solar cells is a world-class product and the leader in global market share.



www.hwenc.com

General construction,
residential complexes,
urban development, industrial plants,
civil engineering, water treatment

2,421

5,299

With our Design the World vision, our goal is to become further renowned as a leader in the construction industry by 2020. We are well on way, having secured the biggest urban development project in Iraq's modern-day history in 2012 for over USD 10 billion.

In 2014, we demonstrated our technological prowess by successfully building the world's largest domed arena in the Philippines. We have also signed contracts to build power and petrochemical plants in the Middle East and North Africa, and we are developing large-scale real estate projects in the Americas. We partner with other large corporations around the world. For

In South Korea **Hanwha E&C's** project, called the Dream & Green Incheon EcoMetro project, is the nation's largest urban development project. It has literally made **Hanwha** a household name in the residential construction market. We have built more than 45,000 Dream & Green apartments and mixed-use complexes all over South Korea. We have also built a series

After developing the nation's first advanced membrane filtration water treatment technology, **Hanuwa E&C** began to offer the leading-edge technology in the eco-friendly green energy field. We became South Korea's first private water treatment contractor to be licensed to build private-sector water treatment plants. Currently, we are also developing building-integrated photovoltaic (BIPV) systems and zero-emission solar housing (ZESH) technology. With these efforts, our path to become a leader in eco-friendly construction is virtually assured.

www.hanwha-qcells.com

Solar power solutions: ingots, wafers, cells, modules, and systems

1,801

2,548

Hanwha Q CELLS total sales and total assets are based on 20-F (Nasdaq) standard.

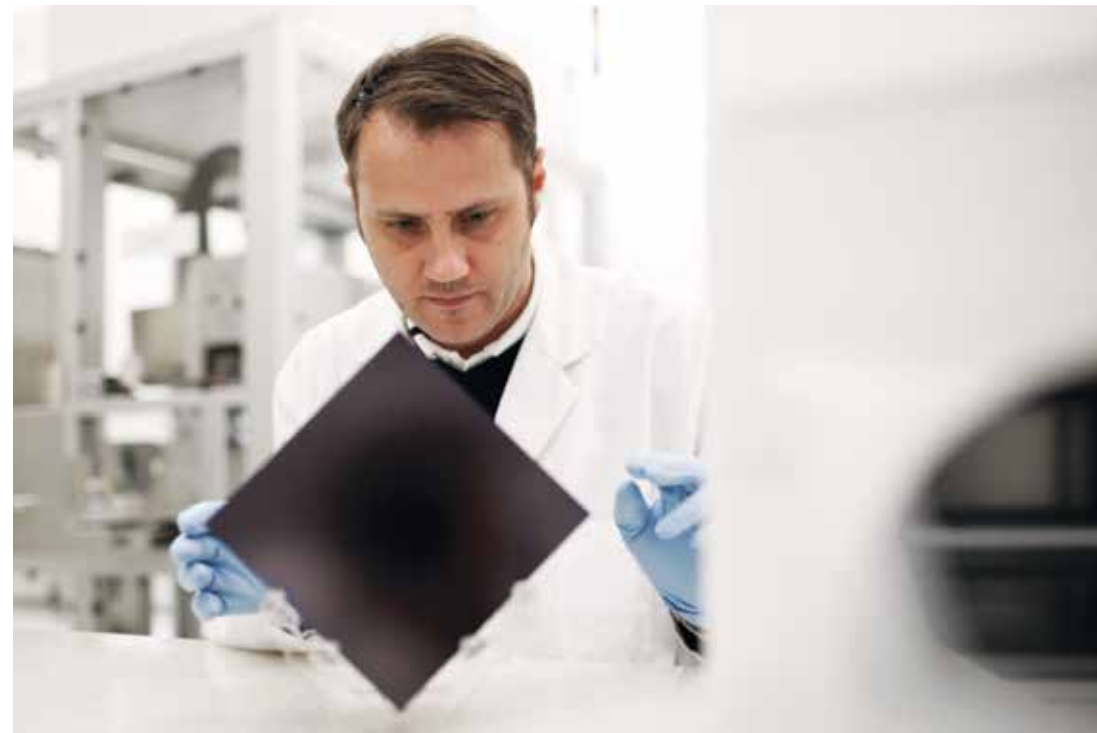
Since its first step into the solar energy business in 2010, the **Hanwha Group** has built **Hanwha Q CELLS** into the world's leading company, with an annual 5.7GW of cell production capacity. We currently have cell and module production networks in China, Malaysia, and South Korea. Despite the strong growth, we continue to invest in R&D and manufacturing innovation to stay a step ahead of the growing worldwide demand. The Jincheon

Our technology infrastructure enables differentiated technology innovation. Our solar R&D is based in our technology and innovation headquarters in Thalheim, Germany. Our R&D network spans China, Malaysia, and South Korea and is buoyed by Hanuwa's continuous support and investments in solar technology development, including anti-PID, hot spot protection, and more.

With its cutting-edge technology and economies of size, **Hanwha Q CELLS** is capitalizing on the growing demand for solar power around the world. In 2013, we signed a contract to deliver 82MW of modules to Marubeni, the largest solar power plant in Japan. We also completed the construction of a 5MW solar plant in

Kalaheoa Renewable Energy Park in Oahu, Hawaii. In 2014, we entered the rooftop solar power equipment market in Japan and Europe, as well as the large-scale power plant markets in the US, Thailand, Chile, and Latin America. In the same year, we secured a series of large solar projects across Europe—in the UK, France, and other countries. Additionally, the solar project contracts we closed in Japan helped make us the top foreign player in terms of market share in 2013. In 2015, we entered into partnership with US-based NextEra to provide 1.5GW of modules, accelerating our entry into one of the world's largest solar markets.

Hanwha Q CELLS is securing its global leadership in the solar power industry through long-term growth and expertise, based on strategic optimization for the needs and policies of worldwide energy markets.



The outstanding quality control capabilities of Anti-PID, Hot Spot Protection and Tra.Q demonstrate the success of **Hanwha Q CELLS'** global R&D efforts into a variety of solar power technologies.

Hanwha
Advanced
Materials
www.hwam.co.kr

EXPERTISE
Automotive materials, electronics
materials, solar materials

2015 Total Sales
In USD millions

558

2015 Total Assets
In USD millions

792

Founded in 1965, **Hanwha Advanced Materials** is operating businesses in the areas of lightweight composite materials and molded parts for automobiles, high-functional films for mobile display, and high-efficiency film materials for solar power plants. Our company vision also defines: “A high-tech materials company that protects the values of humanity and the environment.” With our innovative line of products and technologies, we have built local production and R&D networks in South Korea, the US, Europe, and China. Our sales in global markets continue to rise.

Since entering the automotive materials business in 1986, we have launched diverse products in interior and exterior materials for automobiles. We now offer distinctive technologies in high-strength, super-lightweight materials for automotive parts. We also produce lightweight composite materials for automotive parts, such as GMT, LWRT, EPP, SMC, and LFT, and other automotive parts using these materials. Among the materials, StrongLite (glass fiber mat-reinforced thermoplastic, GMT) and SuperLite (lightweight reinforced thermoplastic, LWRT) rank at the top of their categories in global market share. We are a major supplier to global automakers, including Hyundai, Kia, BMW, Volkswagen, GM, Ford, and Toyota. As a global automotive parts supplier, we

operate manufacturing corporations in Alabama and Virginia in the US, Beijing and Shanghai in China, and in the Czech Republic and Germany. In order to actively respond to the needs of global automakers for parts standardization and global sourcing, we plan to increase our number of overseas corporations to more than 10 by 2020. To help keep abreast of converging trends of the automotive and IT industries, we have joined the Automobile Convergence Alliance. We continue to focus on establishing a technological competitive edge by further reducing weight and simplifying automotive electronics.

Our Lightweight Composite Materials Center, which opened in 2015, leads research on thermoplasticity for automobiles, thermosetting composite materials, and on designing and developing new applications. We develop new materials offering improved functionality, including innovative hybrids of plastic and different materials. We also create new methods of construction to lead the trend toward lighter-weight materials and car electronics—important downstream business areas for us. We are also expanding our market share by developing products for solar power and electronics, along with materials for next-generation mobile communications, the Internet of Things, and solar power efficiency.

In 2003, we made a bold entrance into the electronics materials business with the mass production of LinkTron (flexible copper clad laminate, FCCL). With this independent production of FCCL materials, we have greatly improved the competitiveness of South Korea’s electronics industry. Now we are expanding into manufacturing circuit materials for automotive electronics. In addition, we have developed SenseTron (ITO film), a vital material for touch-screen panels, based on our world-class coating technology.

We have also built a leadership role in EVA sheets and back sheets for photovoltaic modules, using our sheet production technologies refined over 30 years. In 2010, we developed independent technologies in EVA sheets, a key material for the solar power industry. The quality of our sheets has been acknowledged by major solar power module suppliers in South Korea, China, Europe, and Japan. Back sheets are used to extend the service life of solar power modules, and we have also enhanced their functionality to help improve module output.

Hanwha
Energy
hec.hanwha.co.kr

EXPERTISE
Group energy, renewable energy

2015 Total Sales
In USD millions

366

2015 Total Assets
In USD millions

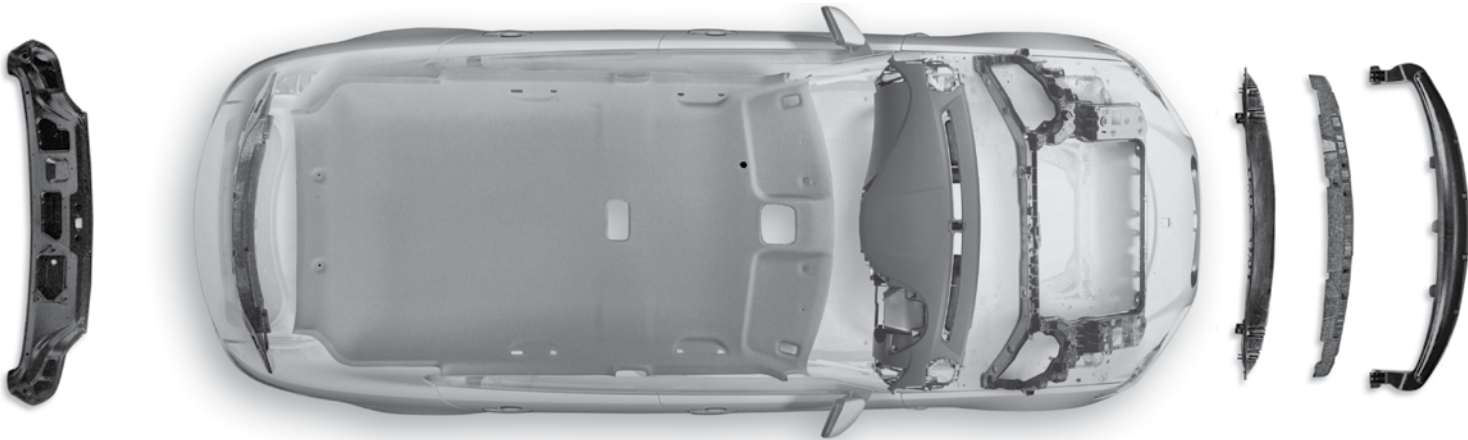
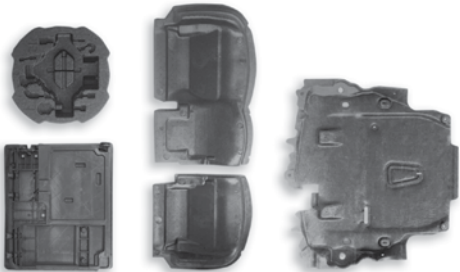
1,281

Established in 2007, **Hanwha Energy** is an eco-friendly comprehensive energy company. We operate a cogeneration plant that provides a stable supply of high-quality electricity and ultra-high pressure steam to companies in the national industrial complexes in Yeosu and Gunsan. Besides the obvious benefits of having readily available power, the plant also positions the companies to be more competitive. Our cutting-edge technology enables us to consistently comply with the South Korean government’s minimum requirements for energy efficiency and reduce greenhouse gas emissions.

Hanwha Energy has also been moving to diversify its investments by breaking into global solar power markets. We constructed a 24MW solar power plant in Oita, Japan and are now seeking to advance into the European, Southeast Asian, and American solar power markets. This expansion helps strengthen our position as a leading independent power producer (IPP) and global provider of reliable and high quality power plant solutions.

Moving forward, we seek to become South Korea’s leading specialized energy company by investing in global private power generation and new and renewable energy businesses.

Hanwha Advanced Materials maintains the world’s largest market share for StrongLite (GMT) and SuperLite (LWRT), materials proven to reduce the weight of automobiles. We are now expanding global operations and production facilities as the global market for lightweight composite materials for auto parts grows rapidly.



This state-of-the-art cogeneration plant provides a stable supply of high-quality electricity and ultra-high-pressure steam to companies in the Yeosu and Gunsan national industrial complexes.

YEOCHUN
NCC

eng.yncc.co.kr

EXPERTISE

Petrochemical
feedstock production

2015 Total Sales

In USD millions

4,151

2015 Total Assets

In USD millions

1,874

YEOCHUN NCC operates the world’s leading naphtha-cracking facility in the Yeosu National Industrial Complex, located on the southern tip of the Korean Peninsula. Established in 1999 from the merger of naphtha-cracking facilities owned by **Hanwha** and Daelim, their fifty-fifty joint venture annually produces 1.91 million tons of ethylene, 970,000 tons of propylene, and 2.32 million tons of various petrochemical feedstocks, including benzene, toluene, xylene, styrene monomer, and butadiene.

With fully automated and optimized production processes producing high-purity feedstocks, this state-of-the-art facility gives **Hanwha** affiliates a competitive edge as they produce high-quality downstream petrochemical products.

At the world’s leading naptha-cracking facility, YEOCHUN NCC produces ethylene, propylene, and other petrochemical feedstocks. This state-of-the-art facility gives our **Hanwha** affiliates a competitive edge in petrochemicals.



Hanwha City
Development

www.hcd21.co.kr

EXPERTISE

Real estate development including
multifunctional industrial complexes

2015 Total Sales

In USD millions

348

2015 Total Assets

In USD millions

596

Numbers above include total sales and total assets of its four subsidiaries.

Hanwha City Development has been recognized as the leading private developer of high-tech industrial complexes since its establishment in 2001. Starting with our success in Daedeok Techno Valley, additional projects followed such as the Asan Techno Valley project (2,984,000m², 300 enterprises, 8,000 households), the Seosan Techno Valley project (1,994,000m², 200 enterprises, 6,000 households), the Gimhae Techno Valley project (1,522,000m², 200 enterprises), and the Gyeonggi Hwaseong Bio Valley project (1,745,000m², 200 enterprises). Each project stood out on their own merits and each one received high marks. The projects are

considered exemplary development models and, not surprisingly, have been benchmarked by several local governments.

Buoyed by these achievements, we launched a new project in 2015, Yongin Techno Valley. It will be developed into an industrial complex with a mandate for research and development in IT, fusion technology, and other disciplines in electronics. When completed in 2018, the valley is expected to play an important role as the center of the industrial belt south of Seoul.



Our new Yongin Techno Valley industrial complex to provide an optimal business environment for cutting-edge tech companies.

- Hanwha Life
- Hanwha General Insurance
- Hanwha Investment & Securities
- Hanwha Asset Management
- Hanwha Investment
- Hanwha Savings Bank

Hanwha Life
www.hanwhalife.com

EXPERTISE
Life insurance, mortgage and personal loans, trust, fund, retirement pension

2015 Total Sales
In USD millions

13,941

2015 Total Assets
In USD millions

84,348

Established in 1946, **Hanwha Life** is a leading life insurance company with the longest history in South Korea. Early on, we served in a critical role in the development of the insurance industry and the country's economic growth—always with our customers in mind. In 2016, we grew in size but made sure we remained structurally sound, even as we reported total assets of USD 82.2 billion. At the end of 2015, our premium income stood at USD 13.22 billion, and we had achieved a 277 percent risk-based capital (RBC) ratio, which shows sound asset quality. We have also received a sterling AAA credit rating from South Korea's top rating agencies for the past nine years.

Hanwha Life leads the industry with innovative products and we're committed to adding new services that meet a wide range of customer needs, including retirement and health insurance. Since we introduced our exclusive licenses system—the insurance industry's equivalent of a patent—we have gained 12 exclusive sales rights for our original insurance policies, an industry high.

We also applied innovation to our customer interactions. Through our customer-focused marketing and sales, we tailored our offerings to the life events

of our customers and improved our call center and customer center services. Our efforts have been recognized with certificates and awards from government organizations and customer satisfaction survey firms. We ranked No. 1 in the life insurance sector of the Korea Service Awards, hosted by the Korea Standards Association, for six consecutive years through 2015. In the 2015 Korea Service Quality Index survey, managed by Korea Management Asset Consulting, we were at the top for customer service for six consecutive years and for call centers for four consecutive years.

Hanwha Life is aggressively entering new markets. Recently we were the only insurance company to participate in the first internet-only bank consortium, which earned our firm an advantageous position in bancassurance. Using fintech and Big Data-based technology, we launched our industry's first mid-range lending programs, and with these, we built a new credit ratings system for entering overseas markets. In the international market business, we lead our industry. Our Vietnam subsidiary was founded in 2009, the first entrant of its kind from South Korea. By 2016, we had established a nationwide sales network with our eye on becoming one of the nation's leading insurance companies. Our Chinese subsidiary, Sino-Korea Life Insurance, entered new markets in Shanghai and

Jiangsu province, and ranked as the largest foreign-invested insurance company in Zhejiang province. In Indonesia, our subsidiary is growing fast by diversifying sales channels, including bancassurance alliances. We continue to look forward, expecting to continue increasing our global market share in Asian countries; Hong Kong, Malaysia, and Singapore are next.

In 2015, **Hanwha Life** announced a new vision—to become a leading player in the global insurance industry. As part of this vision, four mid- to long-term strategies were established in 2016: first, to develop world-class business competencies; second, to maximize management efficiency for sustainable growth; third, to continue to expand future growth engines; and finally, to build a change-driven organizational culture. Our plan is to grow into a global top-tier insurance company by establishing an autonomous, responsible management culture and enhancing fundamental innovation and deep business competency.



Hanwha Life, which leads the life insurance industry in South Korea, launched Onsure, the first online life insurance sales channel in South Korea. Onsure serves as yet another channel to expand its business.

Hanwha General Insurance

www.hwggeneralins.com

EXPERTISE

Long-term insurance, automobile insurance, general insurance, mortgages, personal loans

2015 Total Sales

In USD millions

5,075

2015 Total Assets

In USD millions

10,070

Established in 1946, **Hanwha General Insurance** is the first South Korean insurance company funded solely by domestic capital. As of 2015, we have grown into a major insurer with USD 5.07 billion in direct premiums written and total assets of USD 10.07 billion. We have played a pivotal role in developing South Korea's general insurance industry, and today we offer a comprehensive product portfolio ranging from long-term insurance to auto and general insurance, using advanced services to enhance customer value.

We created a Consumer Protection charter, standardizing all job processes to allow us to provide better service to our customers. We developed detailed quality criteria for customer-centric management. To improve service quality and minimize customer inconvenience, we have significantly expanded the scope of call center tasks, establishing a one-call, one-stop system that empowers call center agents to support sales employee tasks. In addition, we were the first South Korean insurer to introduce an electronic signature system, making it easier for customers to complete transactions from their mobile devices. We have even introduced a mobile application called Smart Insu,

catering to the ways and needs of our customer. More than 100,000 customers have installed the app.

Such diverse efforts to improve customer service have been recognized with the top three service quality awards by the South Korean government organizations: CCM certificate, Call Center Service KS Certificate, and the Certificate of Excellent Service Quality.

Our company is on an upward trajectory, building a risk-based management structure, improving long-term insurance loss ratio, advancing the compensation process, and increasing high yield, higher value-added contracts. We are also posting healthy financial growth by seeking diverse and stable overseas and alternative investments. This helps us to maintain a risk-based capital at 172.8 percent in 2016.

Hanwha General Insurance is promoting a corporate culture that promotes continuous innovations and inspirational thinking from our employees to increase organizational efficiency and productivity.

Hanwha Investment & Securities

www.hanwhawm.com

EXPERTISE

Securities brokerage and underwriting, asset management

2015 Total Sales

In USD millions

1,614

2015 Total Assets

In USD millions

6,389

Established in 1962, **Hanwha Investment & Securities** is South Korea's top-tier asset management service provider, offering a full spectrum of financial services and products, including brokerage and equities acquisition, bonds, and derivatives. Even in the midst of an ever-changing capital market, we are constantly enhancing customer value through customer and field-focused management.

Under our Communication and Plus Management policies, we listen to the voices of our employees—those who are closest to our customers. They help us to understand our customers needs and challenges, and their inputs enable us to design differentiated services our customers value the most. Our highly trained professionals specialize in investment banking, stocks, bonds, derivative products, and trading. They work to deliver quality services throughout their clients' investing life. We tailor our investment services to the needs of our clients, with top-notch call center systems, regular customer surveys, and hiring, training, and supporting experienced investment consultants.

Recently we launched our Core Fund Portfolio, which develops customized portfolios for individual clients by analyzing personal investment information, including investment goals, timelines, and risk tolerance. By working closely with our customers and serving as their financial partners, we were awarded with the grand prize in the securities category of Web Award Korea 2015 – Korea's most prestigious web award for companies that protect customer information and provide effective investment advice.

Hanwha General Insurance is a major insurer with total assets of USD 9 billion and a diversified investment portfolio. We are striving to improve customer value, and have been recognized for our financial stability and growth potential.



Focusing on the principles of customer satisfaction and protection, Hanwha Investment & Securities is valued by customers for its reliability.

Hanwha Asset Management

eng.hanwhafund.co.kr

EXPERTISE

Asset management

2015 Total Sales

In USD millions

55

2015 Total Assets

In USD millions

133

Founded in 1988, **Hanwha Asset Management** has grown into a comprehensive asset management company offering a full range of financial instruments, including stocks, bonds, MMFs, fund of funds, social overhead capital, derivatives, real estate, hedge funds, ETFs, and PEFs in both domestic and overseas capital markets. At the end of 2015, we were among South Korea's top three asset management companies with USD 56.63 billion in assets under management (AUM). We have top-tier expertise and well-organized systems in all areas, including product development, research, compliance, and risk management. All our products and services cater to the needs of our customers because we put to practice our principle and management philosophy of placing our customers first before anything else.

Hanwha's expertise and industry-leading innovations have been recognized with numerous industry awards in South Korea, including Best Overseas Equity Fund House at the 2015 Morningstar Fund Awards, the Grand Prize in ETFs (ARIRANG Smart B ETF) at the 2015 Korea Fund Awards, the Excellence Prize for

the **Hanwha** Smart++ Index Fund at the 2015 Korea Fund Awards and the Excellence Prize at the 2016 Korea Fund Awards for the **Hanwha** Short-Term Government and Corporate Bond Funds.

Hanwha Asset Management is seeking to become a top-tier asset management firm in the broader Asian capital market. In Singapore, we will acquire RFMCs (registered fund management companies) to establish an Asian asset management hub specializing in securities in emerging markets.

Hanwha Asset Management is widely recognized for its innovative solutions and a disciplined approach to asset management. With them, Hanwha Asset Management's medium and long-term plan is to become the best asset management company in Asia.



Hanwha Investment

www.hanwhainvestment.co.kr

EXPERTISE

Venture capital

2015 Total Sales

In USD millions

10

2015 Total Assets

In USD millions

34

Established in 2000 as a venture capital company, **Hanwha Investment** has become one of the leading global venture investment firms in South Korea. We have a long track record for outstanding investment returns and long-standing relationships with the nation's major pension funds and institutional investors. We have been successfully managing more than 20 funds and have become the business partner for hundreds of startup companies. In 2015, we successfully established three new funds totaling USD 10.7 billion with investment focuses in ICT, fintech, and renewable energy sectors.

We leverage the **Hanwha Group's** 60+ years of successful business operations across a broad spectrum of manufacturing, services & leisure, and financial industries. Hence, we are able to identify and source companies with intrinsic value and generate additional value to our portfolio companies, while helping our investors gain outstanding investment returns.

Going forward, we envision **Hanwha Investment** to be a leading global venture capital fund management company, actively developing overseas markets through our wide-range of global networks.



Hanwha Savings Bank

www.hanwhasbank.com

EXPERTISE

Deposits, commercial and personal loans, bonds with warrants, convertible bonds

2015 Total Sales

In USD millions

34

2015 Total Assets

In USD millions

507

Founded in 1997, **Hanwha Savings Bank** joined the **Hanwha Group** in 2008 and has since grown into one of the most stable savings banks in the industry. Even in an unfavorable business climate, we are able to safely pursue external growth with our experienced sales teams while maintaining a disciplined management. We also extend the fundamental roles of microfinance institutions and support small and medium-sized businesses.

Today we are a sound savings bank whose growth is backed by the confidence of our customers. We constantly strive to benefit our clients and society as a whole by developing products that serve their interests. Our risk management system enables us to perform faithfully as a sound financial institution, and we are committed to providing individual and business clients with top-quality financial products and services.

Hanwha Investment utilizes Hanwha Group's business and investment expertise to maximize value for investors and deliver stellar results.

Services & Leisure

- Hanwha Hotels & Resorts
- Hanwha Galleria
- Hanwha Galleria Timeworld
- Hanwha 63 City
- Hanwha S&C
- Hanwha Station Development

Hanwha
Hotels & Resorts

www.hwrc.co.kr

EXPERTISE

Resorts, hotels, leisure, food services

2015 Total Sales

In USD millions

859

2015 Total Assets

In USD millions

1,934

Hanwha Hotels & Resorts began operations in 1979 as the developer of South Korea's first resort condominium project. The company has made great strides since joining Hanwha in 1986. By operating resort, hotel, and food service businesses, we are working to become South Korea's premier leisure and food service provider.

Our Resorts Division owns South Korea's largest condominium chain including the Ocean Palace Golf Club & Resort in Nagasaki, Japan. This resort boasts over 4,800 guest rooms across 12 properties. In Japan and South Korea, we own and operate premier golf courses totaling 126 holes. Our partners include Resort Condominiums International (RCI), a worldwide network of resorts operating on a membership basis; Private Label, which provides benefits for hotels and resorts in Southeast Asia; and the Golden Horse Hotel and Mines Wellness Hotel in Malaysia.

Our company also operates Seorak Waterpia and Gyeongju Springdome water parks. We also own and operate the Jeju Therapy Center, the Royal Saddle Equestrian Society, the Seorak Cinerama Film Lot, and Jade Garden in Chuncheon—all renowned as tourist and leisure attractions. In addition, we operate 63 Square, which features a range of attractions, including 63 Art, providing high-quality services to customers.

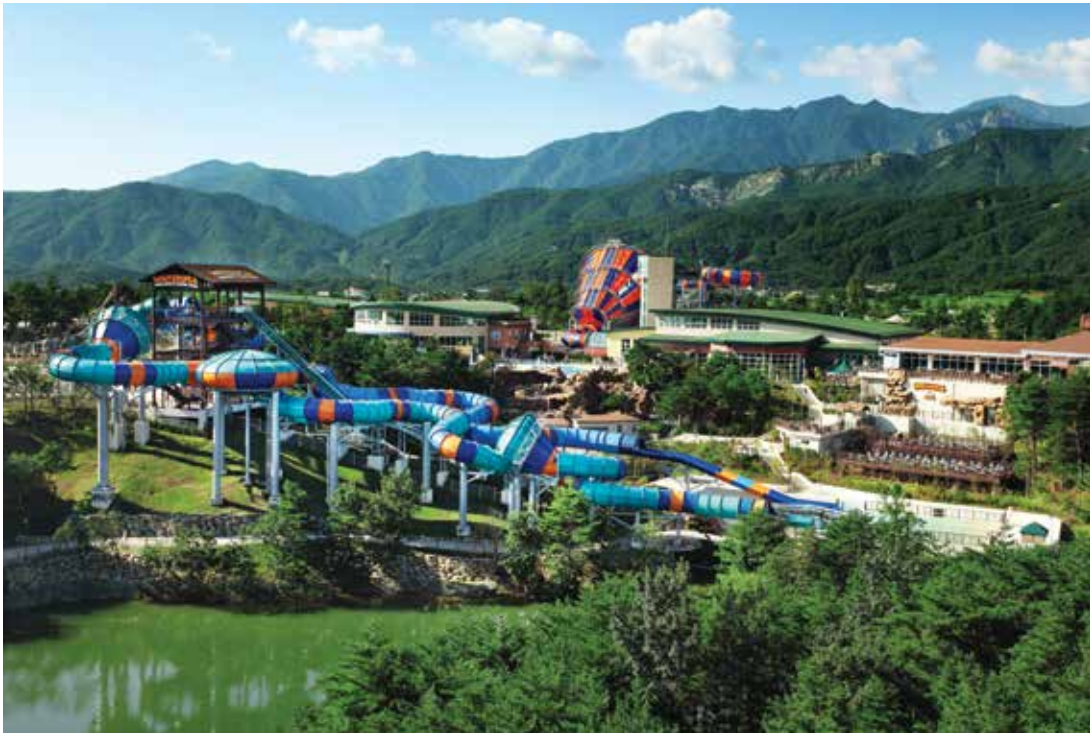
Leveraging our expertise and technologies from the former 63 Sea World, we developed Aquarium Belt, South Korea's largest network of aquariums. These technically advanced aquariums in Jeju, Yeosu, Ilsan, and Seoul attract more than four million visitors every year. In July 2016, 63 Sea World was entirely renovated and reborn as Aqua Planet 63. Also, our expertise earned us a consultation service contract on design and construction for Wanda Nanchang Aquarium in China, and we are now operating the 17,800-ton indoor aquarium on commission. We have established a new tourism infrastructure, further solidifying our reputation as a resort operation powerhouse. Partnering with the Geoje city government, we are creating a tourist destination near Geoga Bridge in Geoje. The groundbreaking ceremony for the project was held at the end of 2015, and the marine resort, with 465 guest rooms and a private marina, is expected to be completed by 2018.

Our Hotel Division has developed THE PLAZA, a hotel with 410 guest rooms, into a world-class luxury boutique hotel. Located in the heart of Seoul, THE PLAZA offers impeccable service honed over the course of its 40-year history. And in 2016, it joined the

Autograph Collection, a luxury hotel chain owned by Marriott International. Our exceptional customer service and upscale facility innovations have been recognized by the hotel industry. THE PLAZA was selected as one of the Top 25 Luxury/Service Hotels at the 2016 TripAdvisor Travelers' Choice Hotel Awards and also chosen as a 2016 Unique Hotel by Luxury Travel Guide. Global Traveler ranks THE PLAZA as No. 6 among its Best Luxury Hotels in Korea.

Our Food Culture Division provides comprehensive food services, including food service contracts, dining business services, and food materials supply. The food service contract unit has unparalleled capabilities, backed by 30 years of experience and a unique specialized operations system. Our dining business unit provides commissioned dining services in multi-use complex facilities, as well as elegant wedding and banquet services. The unit also runs concept restaurants such as Chinese Bistro T-won and Oreno French and Italian restaurants. With a food analysis lab certified by the food sanitary inspection institution, a rigorous sanitation management system, and a state-of-the-art distribution system, we are an industry leader in food material supply capability. And for a dining experience with a panoramic view of Seoul, food connoisseurs can try any of our seven outstanding cuisines in the landmark 63 Building. The food is prepared by top chefs in South Korea.

Seorak Sorano combines the beautiful natural scenery of the East Sea with the high peaks of Mount Seorak, where guests can appreciate a soothing and relaxing experience. Guests can also enjoy leisure facilities such as Seorak Waterpia, Seorak Cinerama, Film Lot, and Plaza CC Seorak.



EXPERTISE

Retail, fashion

2015 Total Sales

In USD millions

315

2015 Total Assets

In USD millions

1,455

Galleria Duty Free 63, launched by Hanwha Galleria in December 2015, is transforming Seoul into a shopping destination with four floors of high-end Korean and foreign luxury brands.

Since its founding in 1976, Hanwha Galleria has set the trend for premium lifestyles as the leader in the retail industry in South Korea.

Galleria Luxury Hall, which opened in 1990, was South Korea’s first upscale department store and later served as the inspiration for luxury department stores throughout South Korea. With the largest number of luxury brands and distinctive services, our dining and retail destinations are attractive to both tourists and domestic shoppers. Galleria Luxury Hall features luxury brands, global fashion trends, fine dining, and premium services. It embodies the vision of a new generation of luxury malls, meeting the needs of customers who want something upscale and different.

Located in prime locations across the country, including Suwon, Cheonan, Daejeon, and Jinju, Galleria department stores also offer customers a suite of sophisticated shopping opportunities with distinctive merchandise and localized marketing practices. We are working to become the No. 1 premium retailer in the country, providing first-class shopping experiences and reflecting the latest trends.

In 2014, Hanwha Galleria Timeworld was awarded the duty-free concession at Jeju International Airport, securing a strong growth engine. In July 2015, we won a business license for a new duty-free store in Seoul, and Galleria Duty Free 63 opened in our 63 Building in December 2015.

With 10,153 square meters of selling space, Galleria Duty Free 63 is a stylish and exemplary duty-free business operator. The store takes advantage of the tourism infrastructure in the Yeouido and Hangang River areas by partnering with Chinese travel agencies to attract Chinese tourists. These local small and medium-sized travel firms help us to secure and expand our market share under our *63 plan*.

We build and evolve our business constantly, finding success by promoting new merchandise and marketing activities. We also find hidden gems, and buy directly from suppliers to build our unique collection of goods to offer value and savings to our shoppers. We engage with our customers in person, with special shopping events, and through social media. We listen to our customers and developed customized business models

for online malls to cater to changing shopping practices and greater desires for convenience. We have a mid- to long-term plan to expand online distribution channels to overseas markets, including China. Our plan is to build new business opportunities, beyond department store sales, in order to meet diverse customer needs for purchasing goods and services online.

We will continue to take creative steps to strengthen our core competencies that appeal to our customers – our best products and the best possible experience.

EXPERTISE

Retail, fashion, duty-free shops

2015 Total Sales

In USD millions

149

2015 Total Assets

In USD millions

437

Hanwha Galleria Timeworld is the largest high-end department store in central South Korea. Specializing in luxurious fashion brands from around the world, the store is home to the area’s first Louis Vuitton, Gucci, and Prada stores—cementing its status as the premier high-end shopping destination in Daejeon. Our landmark store is easy to navigate through and provides lounges where customers can rest leisurely while they shop. It also serves as a cultural hub, housing a community center that hosts more than 400 seasonal programs during the year.

In September 2015, we launched Gourmet World on the store’s top floor. The restaurant provides the finest cafeteria services in the Chungcheong province of South Korea. Visitors also enjoy our Culture and Play Zone, a multicultural playground for families, combined with a prestigious culture center that has recently been renovated. The quality and diversity of our offerings make us the finest high-end department store in the heart of South Korea.

EXPERTISE

Property management,
renewable energy solutions

2015 Total Sales

In USD millions

129

2015 Total Assets

In USD millions

45

Hanwha 63 City was founded in 1986 as a property management firm, providing comprehensive services to raise the value of its client assets.

We applied expertise built over the years in management of skyscrapers to property management services that maximize real estate values. Our leasing services use a scientific database, and we provide focused-investment advising that helps our clients make better decisions on their properties. By managing the landmark 63 Building, we have sharpened our skills in property management and deepened our expertise in electrical facilities, machinery, equipment, disaster prevention, firefighting, communications facilities, cleaning, and security. Our comprehensive technical services include inspection of completed construction site, safety audits of facilities, functional checks of firefighting facilities, and interior design work.

Hanwha 63 City/SnS Division offers expertise in renewable energy solutions and integrated security systems. And after having achieved sustained growth, in 2016, Hanwha Estate was spun off. Hanwha Estate provides facilities maintenance and renewable energy solutions for buildings that use geothermal energy, photovoltaics, and fuel cells. In the coming year, we will continue to innovate and assist our customers as South Korea’s No. 1 property management experts.



Hanwha S&C

www.hsnc.co.kr

EXPERTISE

Integrated IT business services

2015 Total Sales

In USD millions

352

2015 Total Assets

In USD millions

461

Founded in 2001, Hanwha S&C provides world-class IT solutions and services to a variety of industries, including financial services, manufacturing, construction, distribution, and education. We are also becoming a convergence industry leader in areas of fintech, Internet of Things, and Big Data.

We apply our cutting-edge technologies, expertise in system implementation and operations to manufacturing, construction, financial, and service industries. And we build information systems to sharpen our clients’ business competitiveness. Our proactive consulting services, marketing and customer management solutions use new technologies, including Big Data and beacon.

To secure competitiveness in the emerging fintech industry, we have established a joint venture with the Chinese firm Dianrong, making deep inroads into the domestic and Asian markets. We are also increasing the use of sensing technology applications to improve distribution, traffic flow, and manufacturing.

Hanwha S&C’s data center embodies state-of-the-art infrastructure integration, while providing solutions to strengthen value for our clients.



Hanwha Station Development

www.hwsd.co.kr

EXPERTISE

Commercial development, property management

2015 Total Sales

In USD millions

55

2015 Total Assets

In USD millions

379

Hanwha Station Development is our nation’s premier developer and manager of railway stations. Since its founding in 1987, we have pioneered the retail and leisure culture by combining commercial complexes with private stations. We developed the building complexes for the centrally located Seoul Station and the Cheongnyangni Station, logistics hubs in the northeastern part of Seoul. By leveraging our expertise and capabilities in business assessment, concept development, project financing, lease marketing, construction management, and facility operation, we are fast becoming an industry-leading developer and manager of commercial complexes.



Located in the northeastern part of Seoul, Cheongnyangni Station is a nine-story complex with more than 177,793 square meters of space, including three underground levels. With a department store, an outlet mall, a theater, and restaurants, it is driving economic growth in the local community.



Corporate Social **Responsibility**

Social
Responsibility

As a responsible corporate citizen, **Hanwha** works to protect and improve the environment, and to give back to the communities, locally and globally, through partnerships with governmental agencies and non-profits organizations. **Hanwha's** commitment to ethical behavior begins with fair treatment of employees, and is developed through transparent and open relationships with customers, partners, and the public at large.

Serving with Excellence

In honor of **Hanwha's** 50th anniversary in 2002, we reorganized our outreach programs to make them even more effective. In 2007, we established the **Hanwha** Social Responsibility Center and designated a team of employees at the offices of each **Hanwha** affiliate. These teams work with local non-profit organizations to develop and implement programs that return business profits to local communities in a transparent and meaningful way.

Major Social Contributions

Caring Employee Volunteers

We encourage our employees to volunteer their time and expertise to our many charitable programs. One employee favorite is a group-wide program designed to improve educational opportunities for low-income and physically challenged children. Since its launch in 2003, this innovative program has supported study rooms and inclusive classes for

children of all abilities as well as those with challenges. Also popular with our employee volunteers is our **Hanwha** Arts Plus program, introduced in 2009. It offers a wide range of cultural and arts opportunities to children. Newly appointed executives coordinate their volunteer work through a dedicated committee, and they give generously, with special activities on our company anniversary.

Arts and Culture

Hanwha seeks to give back to society in a variety of ways, including our support for a broad range of arts and cultural events. For the past 17 years, **Hanwha** has sponsored the Orchestra Festival, the largest event of its type in South Korea. We also support the annual **Hanwha** Pop and Classic Journey, held in cities across the country, and the **Hanwha** Classic, which has presented classical music to the community since 2013. We light up the sky with fireworks through our sponsorship of the Seoul International Fireworks Festival. It attracts more than a million spectators each year.

Public Service

We produce free Braille calendars for the visually impaired, in a program established in 2000. Our two outstanding high schools, Bugil Academy and Bugil Girls' Academy, have been providing excellent education and social benefits to young people since 1976.

Supporting Young Leaders of the Future

In 2011, **Hanwha** began its sponsorship of the **Hanwha** Science Challenge, designed to discover talented science and technology students. By nurturing these young people, we are helping to develop the scientists of the future.

Operating and Assisting Sports Teams in South Korea

Hanwha owns the **Hanwha Eagles**, one of South Korea's most popular professional baseball teams. We also promote other professional sports, such as shooting and horseback riding. For example, **Hanwha** has supported the **Galleria Shooting Team** since 2001 and sponsored the **Hanwha** Chairman's Cup National Shooting Championship since 2008, nurturing talented athletes who have demonstrated impressive performances at international competitions. In golf, **Hanwha** operates **Team Hanwha** with world-ranked golfers and hosts the annual **Hanwha** Finance Classic.

Environmental
Responsibility

At every stage of its business management, **Hanwha** strives to reduce environmental impacts through low-carbon energy sources and by living up to its responsibilities as a reliable and environmentally-safe business.

Advanced Management to Protect the Environment and Address Climate Change

In 1991, through the ECO-2000 campaign, **Hanwha** became the first South Korean company to implement environmental management. We announced our Environmental Safety and Health Policy in 2000, and since then, we have implemented sustainable management practices on environment safety, health, energy, and greenhouse gas issues under the guidance of the **Hanwha** Eco-Institute. We use globally renowned companies for benchmarks, and have created a midterm master plan to establish performance index targets for 2020 in areas such as environmental performance and safety.

Eco-Friendly R&D and Businesses

Hanwha is taking the lead in fostering a low-carbon society. We joined the Carbon Disclosure Project (CDP) in 2011 and were the first company in South Korea to disclose publicly the carbon management information for all of our group affiliates. **Hanwha Chemical** received the first Carbon Trust Standard (CTS) within the domestic chemical industry (CTS is granted to firms demonstrating excellent climate change initiatives).

In 2014, our company was recognized for our commitment to eco-friendly management at home and abroad, receiving the Carbon Management Special Award. **Hanwha SolarOne** (now, **Hanwha Q CELLS**) was among the first solar energy solution providers to receive the Product Carbon Footprint Certification (ISO 14067), a new international standard at the time—for the company's HSL 60 Poly and HSL 72 Poly solar modules. **Hanwha** has also introduced green purchasing to procure efficient, recyclable office supplies. The cost of its green procurement reached USD 1.4 billion in 2015.

Reducing Greenhouse Gases and Waste

Reducing greenhouse gas emissions is now at the top of the agenda for all companies around the world. In 1999, **Hanwha** officially began its efforts to reduce its greenhouse gas emissions and save energy by organizing an energy task force. We reduced waste disposal by recycling waste paper, waste concrete, computer toner cartridges and printer ink. We have also installed water-saving equipment in our office buildings, hotels, and resorts. In 2015, we reduced our energy consumption to 14,000 TOE (tons of oil equivalent), saving USD 800 million, which in turn reduced greenhouse gas emissions by 40,000 tons. We also reduced 12,000 tons of waste and 180,000 tons of water and wastewater through meticulous waste management.

Establishing Safety Culture

Hanwha works hard to gain the trust of local communities by promoting safety as an important component of its corporate culture and by creating a safe workplace for its employees. In particular, our Constant Cross-Check Rule, our Line Responsibility Policy, and our Three Strikes policy are at the center of our safety efforts. The Constant Cross-Check Rule refers to our safety check system, implemented jointly by the **Hanwha** Eco-Institute, by **Hanwha** headquarters, and by our individual facilities. We use this system to check the safety status of every plant and raise our employees' safety awareness. The Line Responsibility Policy process team or business unit holds the responsibility for our environmental stewardship and safety. According to the Three Strikes policy, employees who violate the standards of procedures three times will be reprimanded regardless of whether or not an accident had occurred. After implementing the policy, **Hanwha Corporation's** Machinery Division improved its performance 24-fold with a Lost Time Injury Rate (LTIR) of just 0.09, far better than the targets set by our 2015 accident-free campaign.



Hanwha employees participating at volunteer events.



Hanwha Classic is a series of classical music concerts organized by the Hanwha Group, as part of the company's commitment to giving back to the society.



Hanwha Chemical was honored with the first Carbon Trust Standard (CTS) within the chemical industry in South Korea. This recognition is given to companies that demonstrate outstanding climate change initiatives.



Hanwha Q CELLS solar modules have reduced carbon footprints in regions where they operate and contribute to environmental sustainability.

Solar Energy for a Greater Cause

Building on our world-class solar energy business, **Hanwha** sets the standard for corporate responsibility and environmental sustainability by donating solar energy facilities to our communities.

Happy Sunshine
Hanwha supports sustainable energy use in every community by leveraging the expertise we have gained from the vertical integration of our solar businesses. Our most renowned program is the Happy Sunshine campaign. Through this program, we donate solar power generation systems to community welfare centers in South Korea. We have installed systems at 146 centers, generating a total of about 1,023KW of solar energy.

We also operate our Happy Sunshine program overseas, donating solar power generation systems to elementary schools in underprivileged areas in China. We installed 30KW rooftop photovoltaic equipment in two elementary schools, one in Hubei and one in Qinghai, China.

Hanwha Solar Forests to Combat Desertifications Around the World
Hanwha is working to prevent desertification in an entertaining and engaging way. When video game players of Tree Planet, a UNCCD-certified mobile game, plant virtual trees, we plant real trees. Through Tree Planet, we planted 230,000 trees in the nature conservation area in Tuijin Nars of Mongolia, creating the first **Hanwha** Solar Forest in 2012. As a result, residents who had previously

been forced to leave their homes due to desertification came back. Some of these residents are now making a living as forest rangers. In September 2013, the second Solar Forest was planted in the Mu Us Desert of Lingwu City, China. For this project, **Hanwha Group** donated an entire solar photovoltaic plant to grow 200,000 trees in a nursery powered by solar panels. They were then planted in the desert where they flourished.

Hanwha's cooperation with Ningxia and the UNCCD is a unique public-private collaboration that offers a framework for sustainable and long-term solutions to fight desertification.

Our anti-desertification efforts contribute to water and air purification, pest control, and soil erosion. In 2014, we introduced our third Solar Forest at an elementary school in Seoul. Our fourth was at an elementary school in Inchuan, China in 2015. These locations allow children to experience beautiful forests where previously there had been only dust and sand. In 2016, we added another Solar Forest in Seosan, Chungnam-do Province of South Korea. Altogether, 490,000 trees have been planted on 1.16 million square meters to date.

Eco-Friendly Aquarium
Hanwha opened **Hanwha** Aqua Planet Yeosu during Expo 2012 in Yeosu, South Korea. A **Hanwha** rooftop solar power system supplies clean, sustainable energy to the aquatic systems at the facility. Open

year-round, this eco-friendly aquarium has raised public awareness on the positive impact and effectiveness of solar energy.

Solar Panels Donated to Davos
The World Economic Forum, held annually in Davos, Switzerland, addresses pressing issues facing the world, such as environmental sustainability. The solar modules donated by **Hanwha Q CELLS** to the City of Davos at the World Economic Forum Congress Center have a capacity of 340KW. This amount of energy is enough to reduce 20 tons of CO2 emissions per year. Our donation showcases the possibilities of clean, sustainable energy.

Solar Education for All
Working with the Korean Federation for Environmental Movement, **Hanwha** offers solar energy classes to all. These practical classes teach people about the fundamentals of solar power, how to use solar power, and why our world needs eco-friendly renewable energy.

Earthquake Relief
Hanwha was an active participant in the relief efforts after Japan's catastrophic 2011 earthquake and tsunami. We donated emergency aid supplies and construction materials. During the extended recovery, we also installed 12KW solar power systems at a number of schools in affected areas, including the Taneichi kindergarten in Iwate.

Winning Partnerships

Hanwha strongly believes in mutual growth through partnerships with our valuable partners around the world.

Commitment to Mutual Growth
Since 2009, **Hanwha** has fostered fair and collaborative partnerships with some 1,350 small and medium-sized enterprises. We help them grow their businesses by strengthening their core competencies, supporting their financial needs, and engaging in fair trade practices. In 2011, we set out to promote and sustain mutual growth with our partners – to not compete but to increase support. Each year since then, we have created a co-prosperity fund of USD 11.9 billion and a private equity fund of USD 17.1 billion, earmarked for mutual growth.

Building Winning Partnerships
Our remarkable growth is due in large part to the mutual respect and business vision we share with our subcontractors. We actively engage our subcontractor, holding frequent CEO-level meetings to improve mutual business practices, resolve challenges, and build winning partnerships. **Hanwha Corporation** and **Hanwha E&C** launched the Win-Win Cooperation Council in order to share **Hanwha's** expertise and best practices with our partner companies. This council promotes joint venture opportunities,

technology transfers, and favorable commercial terms.

Leading by Example
Hanwha's leading affiliates have executed various programs to share knowledge and expertise with partners to help them strengthen their technology and management competitiveness. **Hanwha Corporation** funded the Industrial Innovation campaign led by the Ministry of Trade, Industry, and Energy and has also provided consultation and equipment for improving productivity and innovation to 20 partners. **Hanwha Chemical** signed a memorandum of understanding (MOU) with the Korea Industrial Safety Association for our partners to adopt safety incident prevention measures and increase productivity by implementing best-practices, safety management, and working processes.

Hanwha Techwin supports partners' safety management and environment improvement through win-win programs on safety and health, while **Hanwha Systems** and **Hanwha TOTAL Petrochemical** provide quality education and technology seminars to partners. **Hanwha E&C** also works together with its partners to expand sales networks in South Korea and work together abroad.

Hanwha Advanced Materials invests in the facilities of its partners, leasing equipment free of charge and offering various support. In addition, **Hanwha Hotels & Resorts** visits its partners to provide classes in sanitation and **Hanwha Galleria** hosts a regular contest to find promising businesses and give them new opportunities.

Invigorating the Regional Economy
In May of 2015, **Hanwha** opened the Chungnam Center for Creative Economy and Innovation. The center focuses on developing South Korea's solar energy hub, its world-class small and medium-sized enterprises, and its high value-added agro-fishery products. The **Hanwha** DreamPlus Global Expansion Program helps promising startup companies expand into global markets. In collaboration with the Chungnam Center, **Hanwha** annually selects up to 15 companies to receive practical assistance for commercialization overseas. Each of the 15 companies also receives funding support to introduce their products and technologies into foreign markets.



Donation of photovoltaic modules to the World Economic Forum Congress Center in Davos, Switzerland.



Through the Happy Sunshine program, solar power generation systems are donated to community welfare centers across South Korea.



Launched in 2015, the Chungnam Center for Creative Economy and Innovation fosters developing businesses in South Korea.



The Chungnam Center for Creative Economy provides support for an ongoing energy self-sufficiency project on South Korea's Jukdo Island.

Hanwha's highly motivated employees share our core values of Challenge, Dedication, and Integrity. They are truly the foundation of our strength and the architects of our future.

Sharing Values

Hanwha strives to hire individuals who are creative and driven to innovate. We seek people who pursue excellence and will be loyal to our customers, colleagues, and our company. We seek people who will work hard to achieve their goals – goals that ultimately will be for a greater cause. We actively participate in regular recruitment and internship programs, as well as ongoing specialist recruitment in South Korea and abroad.

Training Strategically

We operate a broad range of training programs, including an introduction to the **Hanwha** program for new and long-term employees, a core talent development program and an expertise program. Our programs seek to foster talent and leadership qualities that can help us achieve our vision.

Cultivating Future Global Leaders

Programs for Associate and Junior Managers

Hanwha heavily invests in its talents. In our regional specialist program, we send our people to key areas, where they can experience the local business, culture and become experts for our company. Through our global talent program, we nurture employees with a combination of interest in global business and strong potential that we can develop into professional skills.

Programs for Core Talent

We operate a special program for selecting and developing core talents—the employees who will become our executives leading **Hanwha's** future and growth. We have identified key characteristics that qualify them as candidates for our executive program: adherence to our core values, strong leadership, and deep subject-matter expertise. Our program cultivates promising employees, guiding them through both job challenges and educational accomplishments—all customized to build the individual's capabilities and career.

Programs for Global Managers

We support a variety of advanced programs to train **Hanwha's** top talents from each affiliate, particularly core talents above the manager level and candidates for the CEO positions for any one of our many businesses. This program includes two courses. One is the global top MBAs and Sloan Fellows Program offered at MIT, Harvard, and Stanford. The other is to offer opportunities to earn a masters or a doctoral degree and immerse the select managers in STEM (Science, Technology, Engineering, and Math) and assign them to work our R&D staff.

Programs for Future Executives

To develop our future CEO candidates, we encourage and support them to pursue advanced degrees from MBA executive programs, an advanced management program, and short to midterm training sessions.

Facilitating Work-Life Balance

Hanwha employs a company-wide work-life balance policy to improve its employees'

quality of life and address social issues such as employment instability for women. We offer seven workplace nurseries and lounges for our employees. In addition, we distribute special packages containing useful maternity items to all employees who are pregnant or to those whose spouses are pregnant. The working hours of expectant mothers can be reduced upon request and we have introduced flexible working hours designed specifically for mothers with young children. Special support is also provided for employees with fertility challenges.

All of these initiatives were put in place to make **Hanwha** a better place to work. In 2014, **Hanwha** held the Women of Tomorrow **Hanwha** conference, designed to help mentor female employees and enhance their skills, while also helping them build social networks with other women at **Hanwha**. With these programs, 14 of our companies, including **Hanwha Corporation** and **Hanwha Hotels & Resorts**, were certified as family-friendly corporations by the Ministry of Gender Equality and Family. For three years in a row, **Hanwha Life** won the Best in Finance Service Award and made it on the list of Korea's 100 Best Places to Work. In 2015, **Hanwha General Insurance** received the Prime Minister's Award for Gender Equality while **Hanwha Galleria** received the Minister of Gender Equality and Family Award.

Global Network & Directory



The Hanwha Human Resources Development Center is a vital part of our efforts to instill our core values of challenge, dedication, and integrity within every employee.



Hanwha's investment in its employees begins with orientation and continues throughout their career.

CHINA

Beijing **Hanwha** China
(supporting **Hanwha** affiliates in China)
Beijing **Hanwha Advanced Materials**
(producing auto parts)
Chongqing **Hanwha Advanced Materials**
(producing auto parts)
Dongguan **Hanwha Engineering Plastic**
(producing polypropylene)
Hangzhou **Sino-Korea Life** (life insurance)
Hong Kong **Hanwha Corporation** (trading)
Lianyungang **Hanwha Q CELLS Technology** (Producing PV ingots, wafers)
Ningbo **Hanwha Chemical** (Producing PVC)
Qidong **Hanwha Q CELLS**
(Producing solar cells, modules, R&D)
Shanghai **Hanwha International** (trading)
Shanghai **Hanwha Chemical Trading** (trading)
Shanghai **Hanwha General Chemical** (marketing)
Shanghai **Hanwha TOTAL** Petrochemical Trading
(polyethylene and polypropylene sales)

Shanghai **Hanwha Q CELLS**
(sales & marketing)
Shanghai **Hanwha Advanced Materials**
(producing auto parts)
Suzhou **Hanwha TechM**
(machine tools and powertrain assembly)
Tianjin **Hanwha Techwin**
(producing video surveillance systems)

ASIA, MIDDLE EAST & OCEANIA

Australia **Hanwha Q CELLS**
(sales & marketing)
Cambodia **Think Biotech** (reforestation)
Cambodia **Amru and Hanwha International** (agriculture exports)
India **Hanwha International** (trading)
India **Hanwha Chemical** (sales)
Indai **Hanwha Q CELLS** (sales & marketing)
Indonesia **Hanwha Life** (life insurance)
Japan **Hanwha Q CELLS** (sales & marketing)
Japan **Hanwha Techwin** (R&D)
Japan **Acropark Golf**
(golf club and resort operation)
Malaysia **Hanwha Chemical**
(sales & marketing)
Malaysia **Hanwha Q CELLS**
(producing solar cells, modules and R&D)

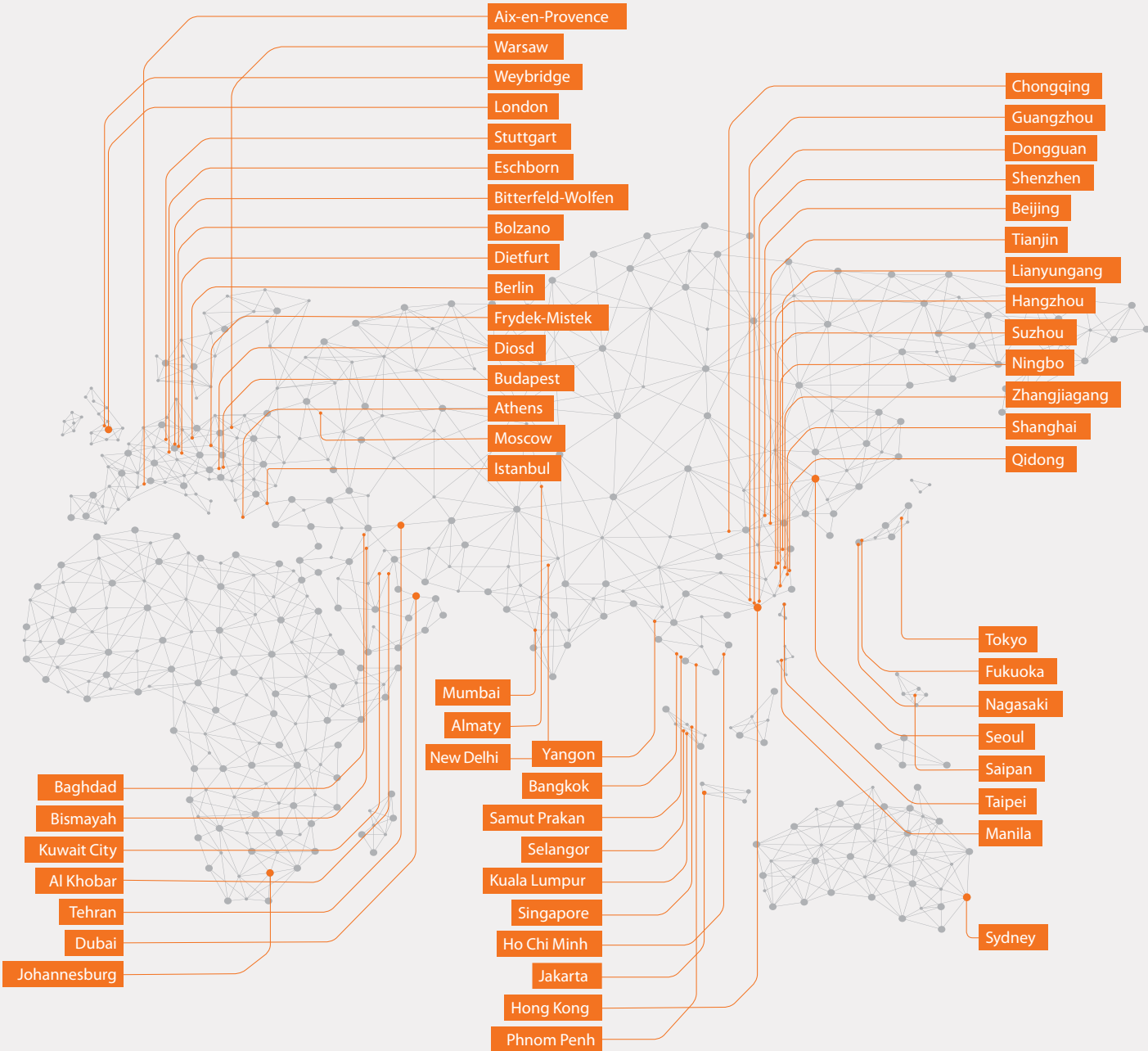
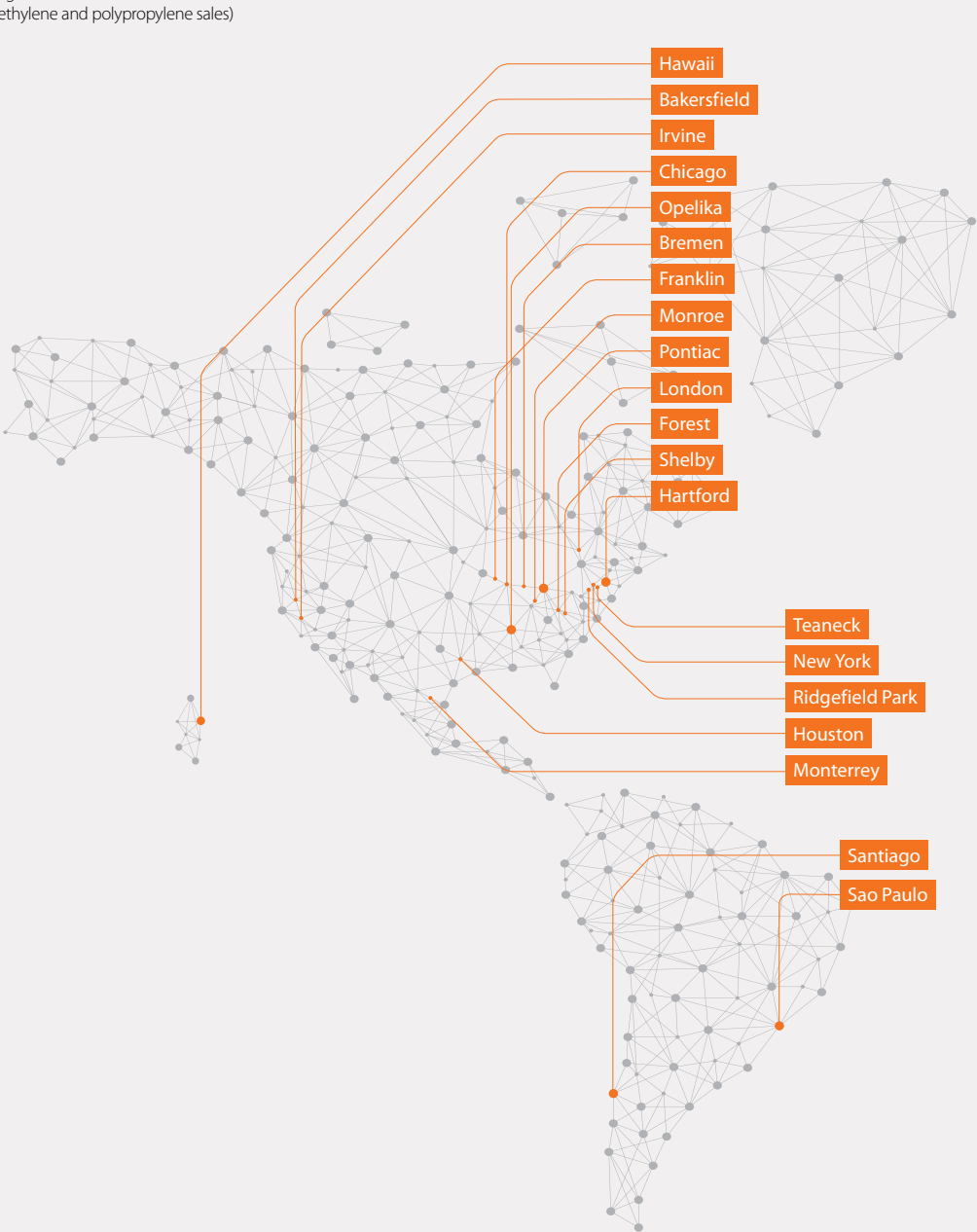
AMERICAS

Brazil **Hanwha Techwin**
(sales and tech support)
Canada **Hanwha Q CELLS**
(sales & marketing)
Chile **Hanwha Q CELLS** (downstream solar)
Mexico **Hanwha Advanced Materials**
(producing auto parts)
USA **Hanwha International** (trading)
USA **Eagle Petroleum** (oilfield development)
USA **Hanwha Techwin**
(video surveillance system sales)
USA **Hanwha Q CELLS**
(sales & marketing)
USA **174 Power Global Corporation**
(downstream solar)
USA **Universal Bearings**
(producing bearings)

EUROPE & AFRICA

Czech Republic **Hanwha Advanced Materials** (producing auto parts)
France **Hanwha Q CELLS** (sales & marketing)
Germany **Hanwha Europe** (trading)
Germany **Hanwha Advanced Materials**
(producing auto parts)
Germany **Hanwha Q CELLS GmbH**
(R&D, sales & marketing)
Germany **Hanwha Q CELLS Berlin**
(sales & marketing)
Germany **Hanwha TechM** (machine tools sales)
Italy **Hanwha Q CELLS** (sales & marketing)
UK **Hanwha Techwin**
(video surveillance system sales)
UK **Hanwha Q CELLS** (sales & marketing)
Turkey **Hanwha Q CELLS** (sales & marketing, downstream)

We have maintained trusted partnerships that have lasted more than 60 years. Together, we have collaborated, invested, and built across markets in almost every continent. Together, we have grown. **Hanwha** has 56 affiliates in South Korea alone and 226 networks around the world (as of June 2016). And as we continue improving quality and innovating to exceed customer expectations, **Hanwha** will continue to grow *beyond* today's interconnected global business environment. This is the **Hanwha Group**.



KOREA

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Fax 82.55.320.5709

Gyeonggi Hwaseong Biovalley Co., Ltd.

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Gyeonggi Yongin Techno Valley Co., Ltd.

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Fax 82.2.414.0025

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Fax 82.2.789.5678

Hanwha S&C Co., Ltd.

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Fax 82.2.6313.3951

Hanwha Station Development Co., Ltd.

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Fax 82.2.390.4004

Hanwha Eagles Professional Baseball Club

www.hanwhaeagles.co.kr
Hanbat Sports Complex
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Jung-gu, Daejeon, Korea
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Fax 82.42.632.2929

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