

HYUNDAI DOOSAN INFRACORE

CORPORATE OVERVIEW



*O*⁷ Hyundai Heavy Industries

02 Hyundai Doosan Infracore

03 ESG Management

HYUNDAI HEAVY INDUSTRIES

The Legacy of Challenge and Growth from Shipbuilding to a Global Heavy Industry Company



1971 Wins contract for two 260.000 DWT VLCCs



1972 Groundbreaking ceremony for Ulsan Shipyard



- Establishment of Hyundai Shipyard & Heavy Industries 1973 (CEO and founder : Chung Ju-yung)
- Hyundai Shipyard & Heavy Industries inaugurates the Engine & Machinery Division 1976
- Launch of the Heavy Electric Machinery Division (Predecessor of Hyundai Electric) 1977



1983 HHI starts construction equipment business



- HHI ranks global No.1 shipbuilder in new orders 1987 and production by Diamond, Japan
- HHI registers in The Guinness Book of Records 1993 in categories for "The Most Productive Shipbuilder," "The World's Largest Cargo Carrier" and "The Most Visited Shipvard."
- 1999 HHI listed on Korea Exchange (KRX)





- HHI produces the world's largest propeller 2004 HHI launches the first 105,000 DWT tanker built on ground
- HHI completes a photovoltaic panel factory and starts green energy business 2007
- HHI's Offshore & Engineering completes the 'H Dock' HHI operates the 'Digital Shipyard' applied with wireless broadband (WiBro) technology
- HHI acquires Hyundai Oilbank 2010 HHI's Engine & Machinery Division surpasses the record production milestone of 100 BHP
- 2015 HHI delivers 2.000 vessels for the first time in history
- Hyundai Robotics, Hyundai Electric Energy & Systems 2017 and Hyundai Construction Equipment spins off from HHI
- 2018 Launch of Hyundai Heavy Industries Holdings

Launching of Hyundai Genuine HHI acquires Hyundai Doosan Infracore 2021

2000~Today 2002 HHI Group spins off from Hyundai Group



- 2009





A company leading the future with the most innovative industrial solutions

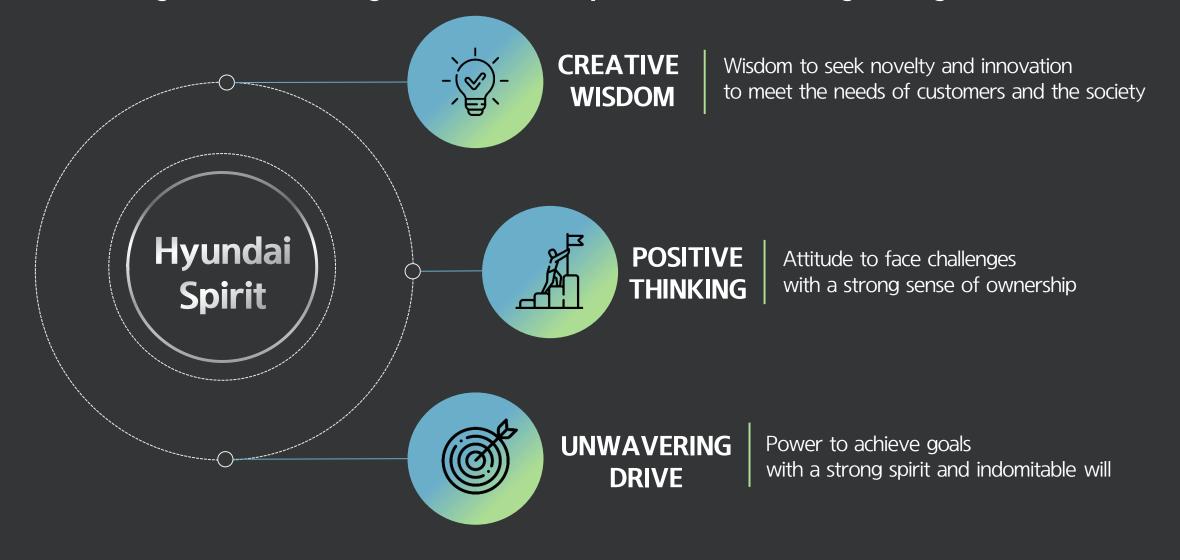
Marine	Construction Equipment	Energy	Industrial & Services
RSOE (Korea Shipbuilding & Offshore Engineering) HHH (Hyundai Heavy Industries) HMD (Hyundai Mipo Dockyard) HSHI (Hyundai Samho Heavy Industries)	Hyundai Genuine Hyundai Boosan Infracore Hyundai Boosan Infracore Hyundai Construction Equipment	Hyundai Oilbank Hyundai Cosmo Hyundai Chemical Hyundai & Shell Base Oil Hyundai OCI Hyundai Energy Solutions	Hyundai Robotics Hyundai Electric Hyundai Global Service Hyundai E&T HHI MOS HHI Sports







The Hyundai Spirit that challenges and achieves goals with infinite potential and a strong driving force



HYUNDAI DOOSAN INFRACORE

Forging a New History beyond its 80 Years of Legacy



Chosun Machine Works (1937 ~ 1962)

1937 Korea's first large-scale machine factory



- 1966 Listed on the Korea Stock Market
- 1975 Completes construction of Incheon Diesel Engine Factory (The largest in Asia)



Daewoo Heavy Industries (1976 ~ 2000)

- 1977 Completes construction of Incheon Excavator Factory
- 1979 Completes construction of small diesel engine factory
- ¹⁹⁸⁵ Develops its own excavator model and engine
- 1990 Enters the European market (Belgium)
- 1994 Enters the Chinese market



Daewoo Heavy Industries & Machinery Ltd. (2000 ~ 2005)

- 2000 Spins off the General machinery business
- 2001 Re-listed on the stock market



Doosan Infracore (2005 ~2021)



Hyundai Doosan Infracore (2021 ~)

- 2005 Incorporated into Doosan Group
- 2007 Acquires Bobcat

2008 Acquires Moxy

- Completes construction of
- ²⁰¹⁰ Gunsan CE Factory Completes construction of
- ²⁰¹² Incheon Compact Diesel Engine Factory
- 2014 Completes construction of Incheon Global R&D Center
- 2018 Demonstrates the world's first 5G-based country-to-country equipment remote control

2019 Completes construction of Boryeong Proving Ground

Demonstrates Concept-X, the world's first integrated control solution for future construction sites

2020 Launches XiteCloud, a smart construction management solution

2021 Incorporated into HHI Group

Leaping forward as a global leading company that provides infrastructure solutions



Slogan

Powered by Innovation

With 'Innovation' comprising our foundation and core value, the slogan expresses our commitment to create infinite business opportunities driven by innovation

2020 Financial Results and Key Performance



Expanding the Global Business Network

Sales

Seongnam, Korea | Yantai, China | Beijing, China | Americana, Brazil | Santiago, Chile | Elnesvågen, Norway | Groot-Ammers, Netherlands | Suwanee, U.S. | Prague, Czech Republic

PDC (Parts Distribution Center)

Ansan, Korea | Yantai, China | Halle, Germany | Dubai, UAE | Singapore | Americana, Brazil | Miami, U.S. |Atlanta, U.S. | Seattle, U.S | Cardiff, U.K.



Product Overview

Construction Equipment		Engines	
Mini Excavators (Under 5 tons)	Mid & Large Excavators	Diesel / Gas for Generators	Diesel / Gas for Automotive
Wheel Excavators	Wheel Loaders	Diesel for Marines	Diesel (G2) for Off-Highway
Articulated Dump Trucks		Hybrid Powertrain	Diesel for Military
60000			

Construction Equipment Highlights

Concept-X

Demonstrated Concept-X in 2019, the world's first integrated control solution for future construction sites

5G-based Country-to-Country Remote Control

Demonstrated the world's first 5G-based country-to-country equipment remote control in 2018

Transparent Bucket

Developed the world's first transparent bucket system allowing drivers to see blind spots in front of the bucket through the cabin monitor

Design Awards

2016 Red Dot Design Award 2019 Pin Up Design Award 2020 Red Dot Design Award 2020 iF Award Main Award 2021 iF Design Gold Award 2021 IDEA Main Award

Engine Highlights

G2 Engine "Innovation Award" Winner

Selected as one of the Top 10 mechanical technologies of 2013 Winner of the Innovation Award at the 2014 FLTA Awards

Next-Generation Tank Engine

Developed the world's second 1500 HP compact diesel engine with local technology

Euro6 & Stage V

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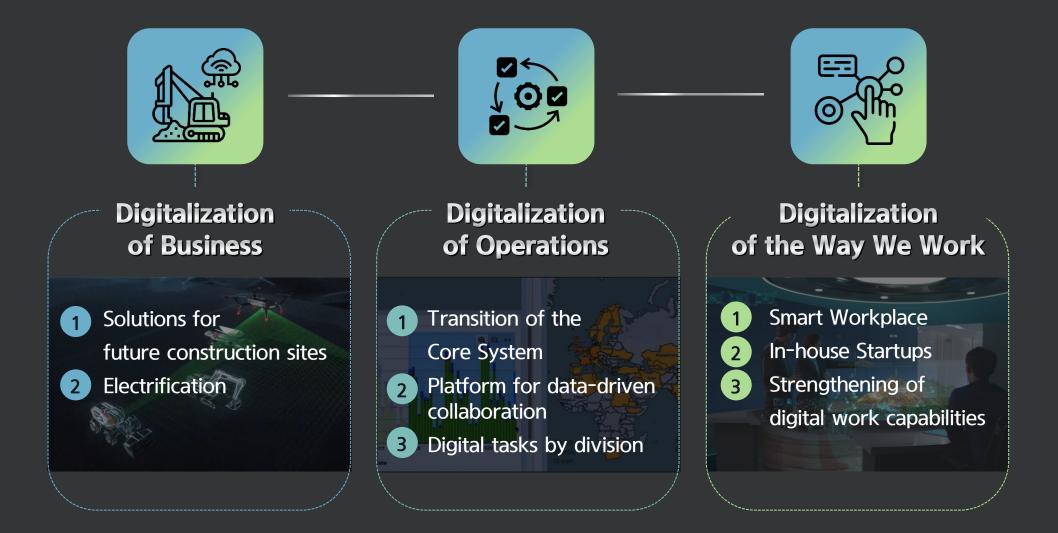
Maximized customer value with its own after-treatment (DPF+SCR) system and ULFC (Ultralow Fuel Consumption) technology

Hybrid Powertrain

11.1.9%

Downsized 39-120 kW-class industrial equipment, eliminating and minimizing high-priced after-treatment system

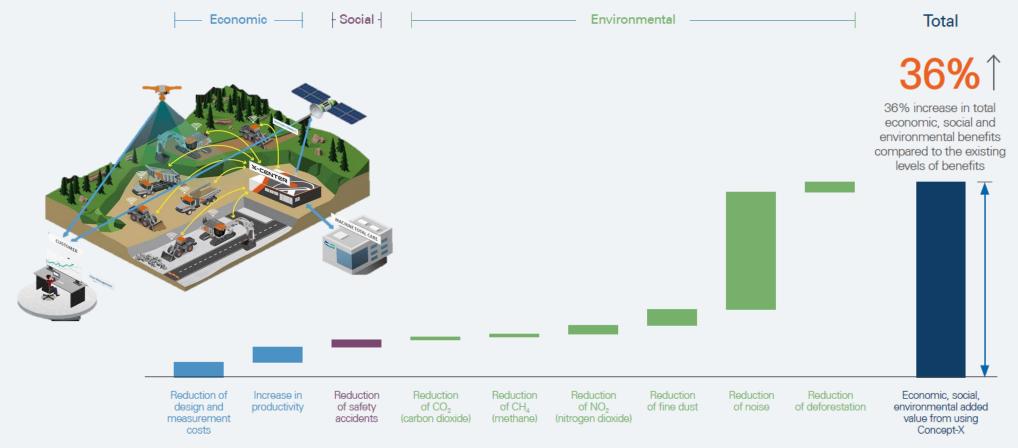
Digital Transformation



Future Innovation _ Concept-X

An integrated control solution that uses 3D drone topography survey and established plans to operate construction equipment without human intervention (Successfully demonstrated in Nov. 2019 for the first time in the world)

Total Economic, Social and Environmental Benefits brought by Concept-X



*Source : KPMG Strategy Consulting Group "Concept-X True Value" Report

Future Innovation _ 🗳 XiteCloud

The first step of Concept-X commercialization and a comprehensive management solution for earthwork sites that establish an optimal construction plan using a 3D drone measuring and earthwork quantity calculation platform

Insight Beyond

The Site.



V Accurate and fast drone survey with an error range of ± 3 cm
V 3D earthwork target drawing modeling
V 3D rock layer modeling



V Calculation of earthwork volume by rock layer
 V Measurement of length and cross section, distance, coordinate values, etc.



V Progress monitoring and documentation support
 V Communication and issue management using 3D field model

Future Innovation _ **Transparent Bucket**

The transparent bucket is a system that allows the driver to see blind spots in front of the bucket through the cabin monitor. This is an innovative technology that records images in front of the wheel loader with the cameras installed at the top and bottom of the machine and shows combined images in real time using a curved projection method



[Accident Prevention]

Easy to check what's in the blind spots through the monitor

Future Innovation _ DOOSAN CONNECT

DoosanCONNECT is Hyundai Doosan Infracore's telematics service brand which locates the equipment and checks the status of various systems through a terminal applied to the machine



- Monitors equipment info.
 Limits movement range
- (automatic operations and stop)

Enhancing Productivity

- Checks machine operations and actual work time
- Checks fuel status and cumulative fuel efficiency



Smart Maintenance

A DoosanCONNECT-based customized service in which dealers proactively detect and respond to equipment issues





Boosting Convenience of Equipment Mgmnt.

 Alarms user of consumables replacement cycle (filters & oil)



Bolstering Accident Risk Control

Improved
 automatic gauge check
 Alarms equipment fault

DoosanCARE

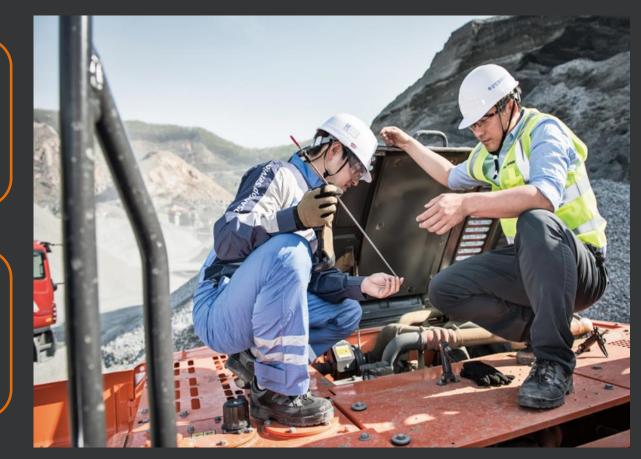
DoosanCARE is Hyundai Doosan Infracore's unique customer care program that enhances customer relations and promotes mutual growth in the mid-to-long term. DOOSAN CARE

Preemptive After-Sales Services

Hyundai Doosan Infracore provides customer-specific services by visiting customers on site regardless of machine fault and warranty

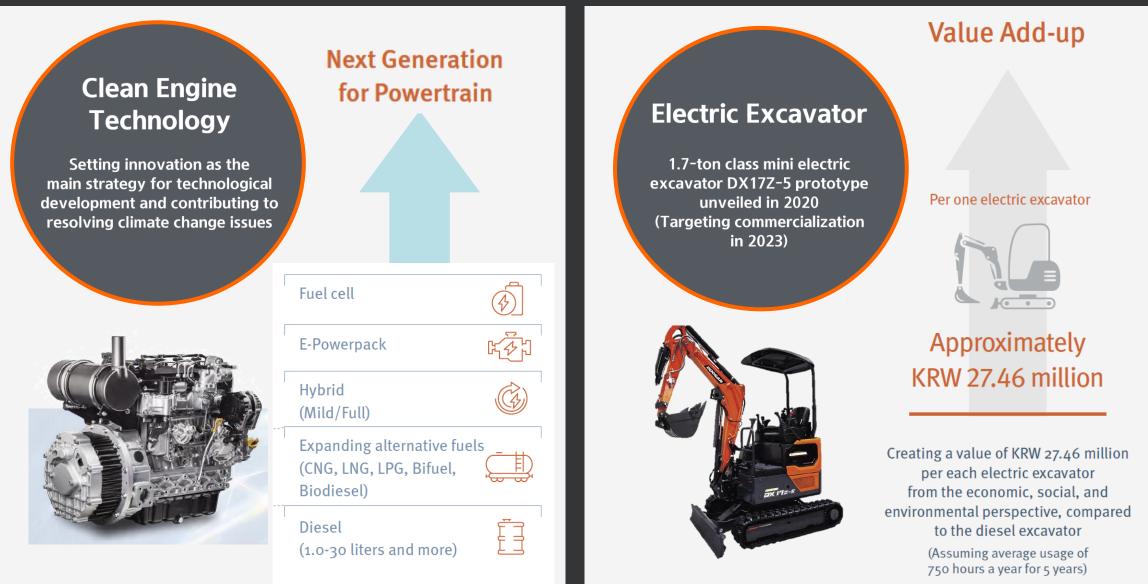
Enhancement of Fundamental Competence

Hyundai Doosan Infracore continues to boost fundamental competence by creating a virtuous cycle of improving and developing products and services and satisfying its customers



Development of Eco-friendly Technology

*Source : PwC "ELECTRIC EXCAVATOR IMPACT VALUATION" Report



ESG MANAGEMENT

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Dow Jones Sustainability Indices

11 consecutive years

Listed in the machine and electric equipment categories of DJSI Korea

electric equipment categories of DJSI Korea



A Rated Class A in the ESG Evaluation

by the Korea Corporate Governance Service

by the Korea Corporate Governance Service Chapter 03 ESG Management

Responsible and Eco-friendly Management

Pursuing sustainable growth with environment and safety as its top priority

Expanding eco-friendly products

90.7% of all products are eco-friendly (As of 2020) Managing greenhouse gas emissions

Managed total GHG emissions at around 74% of the quota allocated by the Gov't during the second phase of the emissions trading scheme (2018~2020)

2020 GHG emissions in Korea decreased by around 19.4% YoY (90,447 tCO₂eq)



Preventing environmental risks and recycling resources

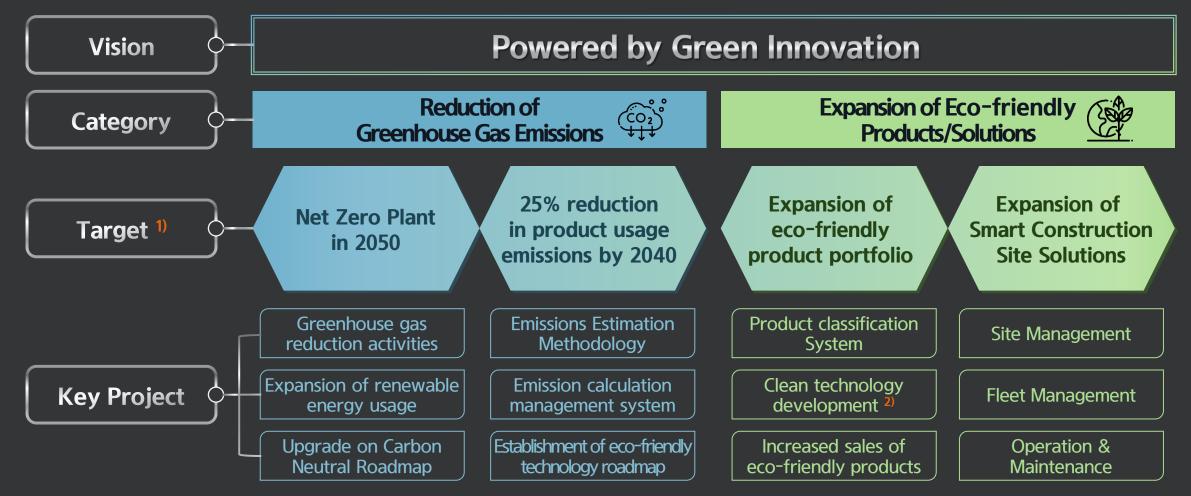
Established an integrated environmental monitoring system Based on IoT to enhance response towards environmental disasters

> Wastewater reuse system <u>Recycling 48%</u> of total wastewater (As of 2020, Incheon Plant)

Chapter 03 ESG Management

Medium and Long-term Climate Change Response System

Actively responding to the global climate change crisis and creating sustainable values by fulfilling our responsibilities as a corporate citizen.



1) Baseline : 2020, 2) Eco-friendly power conversion (hybrid Powertrain), Fuel efficiency (Hydraulic hybrid), Reduction of air pollutants (Combustion optimization, after-treatment)

Chapter 03 ESG Management

Creating a Harmonious Community

Providing aid as a Global corporate citizen for underdeveloped areas and disaster zones around the world



A HYUNDAI DOOSAN INFRACORE