卡奥斯 COSMOPlat

卡奥斯 COSMOPlat Industrial Internet Platform

Create Value for Users
Create Win-win Ecosystem

卡奥斯 COSMOPlat

Build a World-Leading Industrial Internet Platform

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Comprehension of COSMOPlat

Create new life in chaos

COSMOPlat, means the god of chaos, symbolizes the search for a new life out of chaos. Since April 2017, Haier Group has innovatively created the world's first Industrial Internet platform–COSMOPlat, who owns China's independent intellectual property rights, and introduces users to participate in the whole process of experience.

The platform has been certified by MIIT as as one of the China's top 15 Dual–Cross platforms, has led and participated in the formulation of more than 30 national and international standards, contrib–uting innovative models and Chinese wisdom to the development of the world's Industrial Internet Industry.

Create commercial value with technology

Technology is the driving force of social development and change.COSMOPlat has built six science and technology innovation center, including advanced intelligent manufacturing, network engineering, Internet of Things, digitalization engineering, big data application, and artificial intelligence, to provide core technical support.COSMOPlat has also established close cooperation with global research institutions and universities, fully integrated international talents and resources for innovation to enhance the driving force of technological innovation.

Relying on the technological innovation system,COSMOPlat is mainly engaged in Industrial Internet platform construction and operation, industrial intelligent technology research and application, intelligent factory construction and hardware and software integration services and other business sectors, helping more enterprises to realize the transformation from mass manufacturing to mass customization.

Committed to be an enabler of the times

Under the background of global industrial upgrading, the Industrial Internet is not only the choice of breaking the deadlock, but also the highland that must be seized.COSMOPlat ashoulders the mission of building a world–class Industrial Internet platform, and is committed to becoming a world–leading solution provider for the transformation of the Internet of Things, comprehensively assisting the transformation and upgrading of enterprises, and contributing new power to revitalize the economic stock and enable all industries.

Development History

The COSMOPlat Industrial Internet ecosystem started with Haier's Internet transformation and exploration. Ever since it was proposed in 2000 that "Touch the net or die", Haier's own manufacturing system has gone through an evolution of digital upgrade → interconnected factory → lighthouse factory. COSMOPlat marked that Haier's intelligent manufacturing exploration had entered a new stage of building Industrial Internet ecosystem.
During the continuous evolution and iteration, COSMOPlat has made breakthroughs one after another and realized leading in model, standard, and ecosystem domestically and globally. Start from the mass customization model, an industrial Internet ecosystem with COSMOPlat as its parent platform is rapidly extending and empowering to different industries and fields, reflecting the strong ecological attraction.

2005

Haier proposed to transform traditional manufacturing into mass customization.

2008

Integrated of industrialization and information technology, Haier modularized the whole product design and manufac-turing system.

2012

Haier built the industry's first intelligent zero-labor workshop.

2013

Haier built the first Lights-out Factory in the industry.

2014

Haier participated in the Sino-Germany Economic Forum as the only Chinese company and a unveiled the interconnected factory model.

2015

Haier Shenyang Refrigerator Interconnected Factory was launched to the world.
Haier interconnected factory was selected into the Intelligent Manufacturing Pilot Comprehensive Demonstration Projects by MIIT.

2016

The User-centered Mass Customization Model was included in the IEC White Paper: Factory of the future.
The only member of the National Intelligent Manufacturing Standardization Administration Group in the industry.
Set up the industry's first industrial Intelligence Research Institute.

2017

Led the formulation of IEEE international standards on mass customization, which was the first time led by a Chinese enterprise.

Appeared at the Germany Hanover MESSE as a representative of Made in China, won widely recognition around the world.

The only enterprise in the Asia-Pacific region that shortlisted the "Gartner 2017 High-Tech Manufacturing Innovator Award".

The only one in the industry that was selected into the 2017 Pilot Project of the Integration of Manufacturing and Internet by MIIT.

Selected into "Top10 Technological Developments in World Intelligent Manufacturing".

2018

Led the formulation of the ISO international standards on mass customization.

The only Chinese company selected as "Lighthouse Factory" by the World Economic Forum.

The first Demonstration Platform of Intelligent Manufacturing Integrated Application Based on Industrial Internet approved by the National Development and Reform Commission.

Selected into the industrial Internet innovative development engineering projects in 2018 by MIIT.

Won the first prize of National Enterprise Management Modernization Innovation Achievement.

2019

Ranked first in the quadrant of the Industrial Internet Leaders initiated by Forrester.

Participated in the formulation of the international standard IEC/TR 63164-2 which has been officially released.

The ISO international standard project on mass customization led by COSMOPlat was officially approved.

Ranked first in the Top 10 Dual-Cross Platforms by MIIT.

The only industrial Internet ecosystem brand on the list of Top 100 Most Valuable Chinese Brands.

Won Gold Award of New Technology, New Products and New Applications in the World Internet of Things Expo.

2020

The first enterprise in the world with two "lighthouse factories" in the same country.

The only one in the industry that has been included in IDG's list of Global Top Brands.

Became the only unicorn after the A round financing.

Awarded the Management Science Award by China Management Science Society.

Won Asia Pacific IDC Digital Transformation Awards.

Ranked first in the Top 15 Dual-cross Platforms by MIIT.

Won the China Grand Award for Industry, the Oscar of the Chinese industry .

Haier Sino-German Intelligent Park awarded the Industry 4.0 Award 2020 by EFESO-ROI.

*MIIT:Abbreviation of Ministry of Industry and Information Technology

Global Layout

15
Interconnected Factories

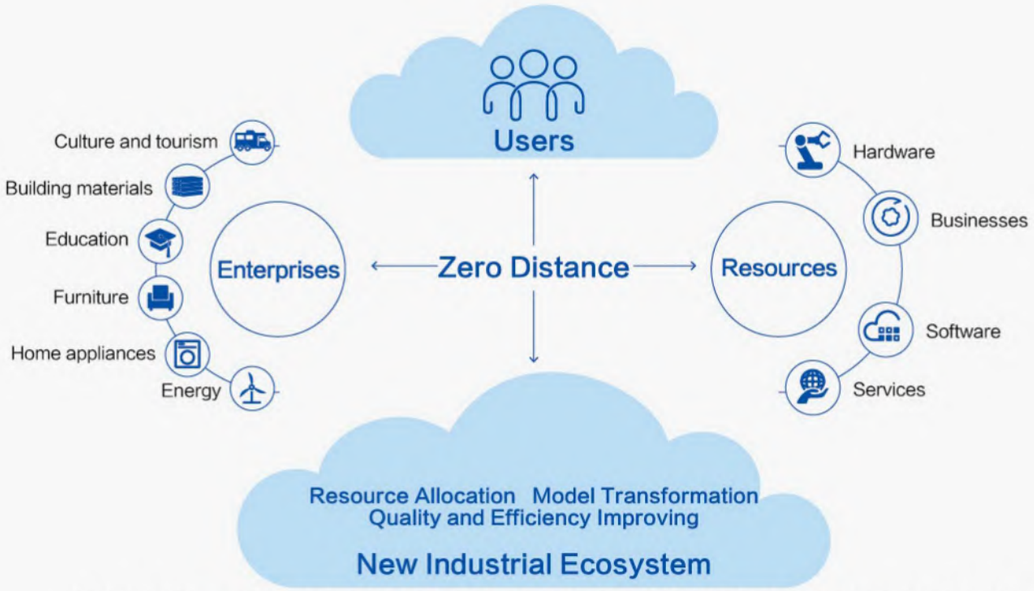
20+
Countries Business promotion and replication

2
Innovation Centers

15
Industry Ecosystems

Positioning and Differentiation

COSMOPlat is an industrial Internet platform with users' whole-process participation and experience. Aiming at co-evolution and value-added sharing, the platform has become an empowering platform featuring multilateral interactions and value-added sharing, an incubation platform with continuously emerging new species, and an Innovation & Entrepreneurship platform where all kinds of entrepreneurs gather for innovation and entrepreneurship.



On the platform, users, enterprises, and resources interact at zero distance to create and share value.

Differentiation 1

Mass customization model with multilateral interaction and experience iteration

The core of COSMOPlat is the mass customization model, which introduces the user element into the whole process and whole value chain.

Through zero-distance multilateral interaction, it keeps digging user scenarios and iterating user experience, leads the manufacturing end with market demands, thus realizes integration of production and consumption, and fundamentally solves the problems of enterprise transformation and upgrading.

Differentiation 2

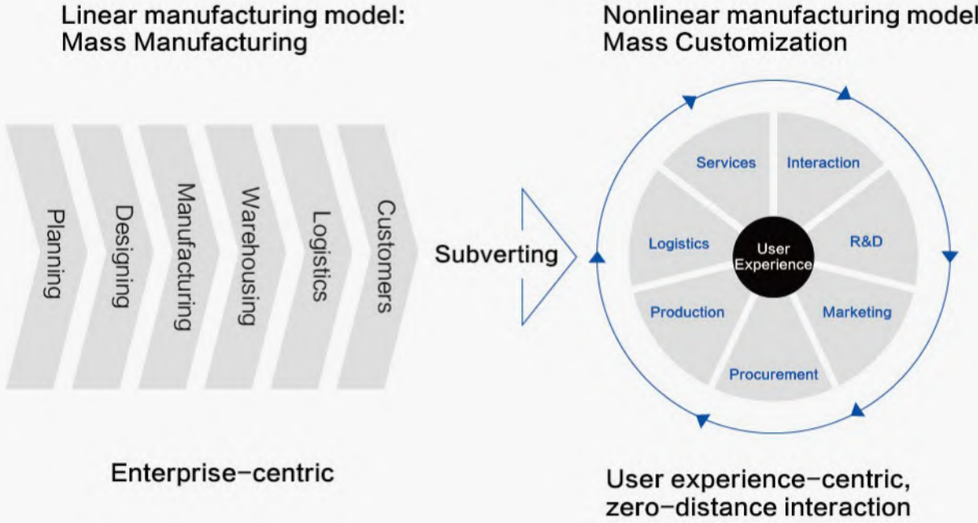
Open-source, value-added, and empowering industrial Internet ecosystem

The COSMOPlat platform is completely open-source, all kinds of entrepreneurs and first-class resources can access it without any obstacles to realize risk sharing, benefit sharing, and dynamic optimization.

COSMOPlat co-creates sub-platform with large enterprises, shares industry applications with SMEs,all enter-prises in different industries and fields can collaborate in this growing endlessly industrial Internet ecosystem to create the best user experience and share the added value.

Mass Customization Model

Traditional mass manufacturing is enterprise-centric and the production is inventory-driven, while the mass customization model is user experience-centric and the production is driven by user orders. What the model achieved is not simply automation, but also the true intelligent manufacturing with high efficiency driven by high precision, which reflects the user interaction experience and the experience iterations that meet the users' dynamic needs.



Enterprise-centric

User experience-centric, zero-distance interaction

Mass customization changes enterprises in the whole process, the whole life cycle, and the whole value chain

Whole process

The mass customization model is parallel and distributed, all nodes of the whole process, including user interaction, design, procurement, manufacturing, logistics, and services, can keep zero-distance communication and exchange with the users to meet their experience all the time.

Whole life cycle

By transforming the original product life cycle into the user life cycle, ecosystem partners keep revolving around the user, starting from the procurement to the lifetime value of the user.

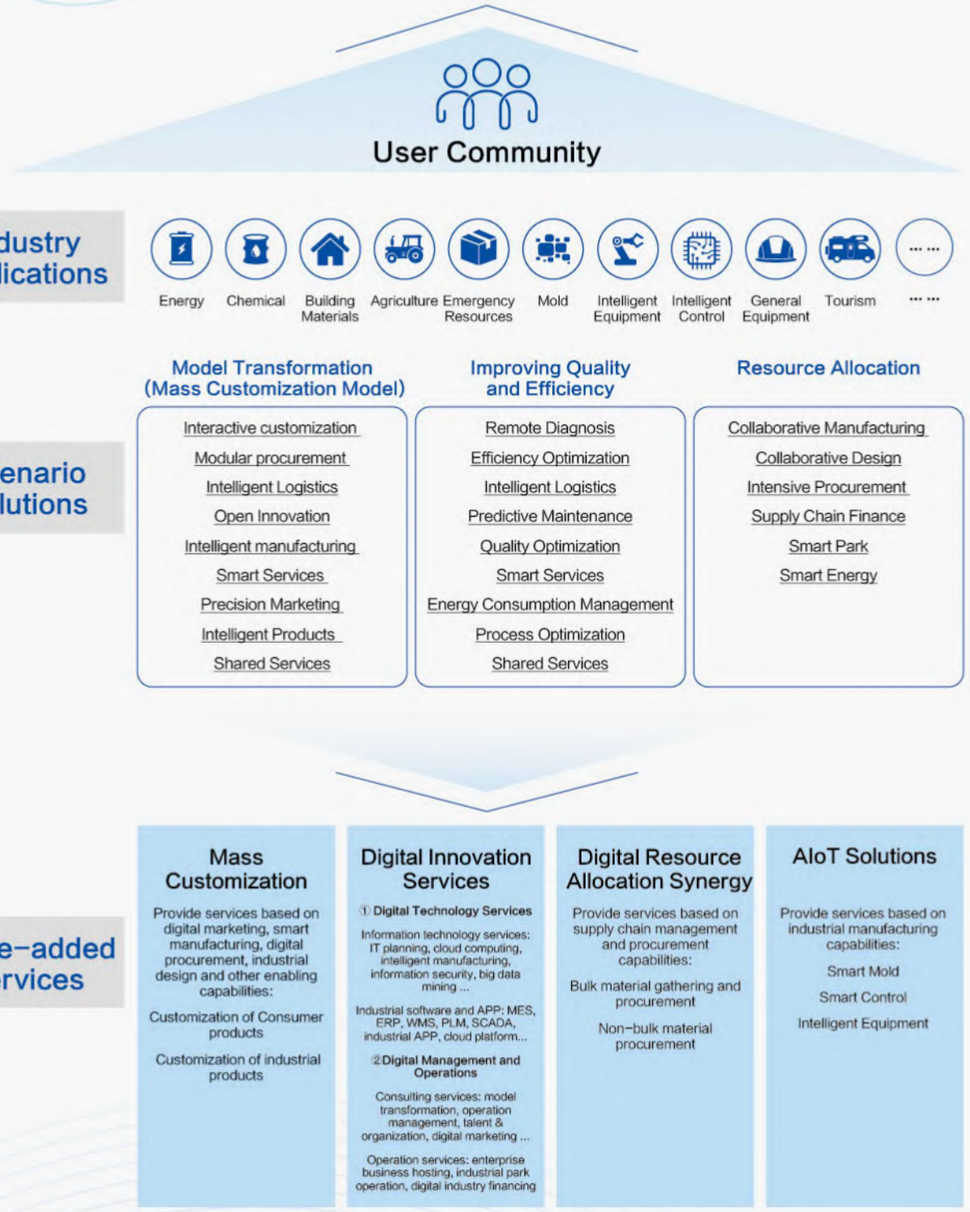
Whole value chain

COSMOPlat is an ecosystem which has changed the distribution relationship and production relationship of the value chain.

By introducing users into the whole process, it has changed the manufacturing logic which is no longer confined to the original factories and enterprises, but instead becomes a social transformation that integrates users and enterprises to turn them into an growing endlessly ecosystem.

Services and Solutions

Provides cross-industry and cross-field solutions and various value-added services



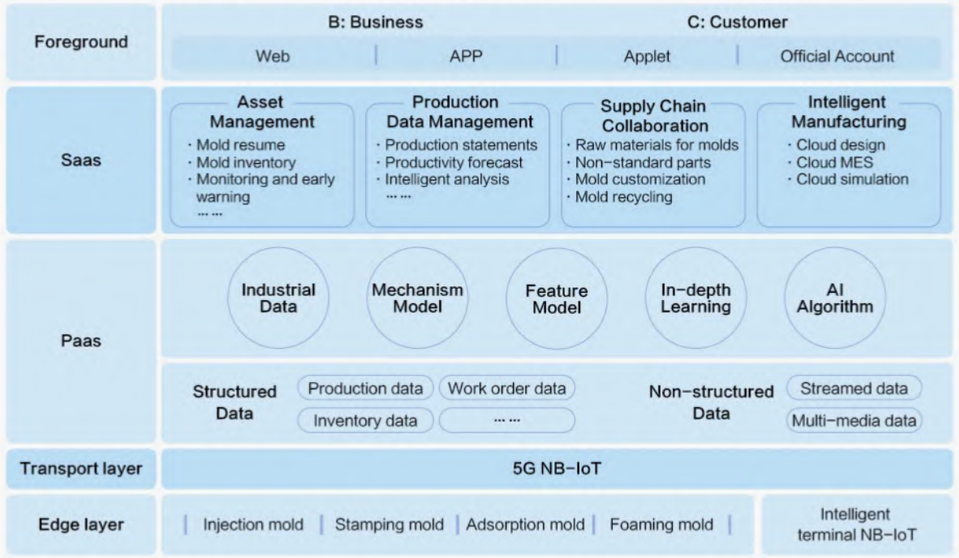
Mass Customization Solutions

Industry Solutions

Mold industry– Gathering the ecological resources to lead the development of the industry through 5G + Internet of Things

Based on its own practices in digital transformation, the COSMOPlat Mold Platform has integrated the cutting–edge technologies, such as 5G, the Internet of Things and AI algorithms, and provided enterprises with intelligent manufacturing, mold asset management, mold development and other complete solutions through aggregating mold manufacturing enterprises, complete machine enterprises, supporting processing enterprises and other comprehensive ecological resources.

Pool ecological resources, strengthen research and development of cutting–edge technologies, and get through the industrial and ecological chains to maximize the use of resources.



Practice Case · Faw–Volkswagen

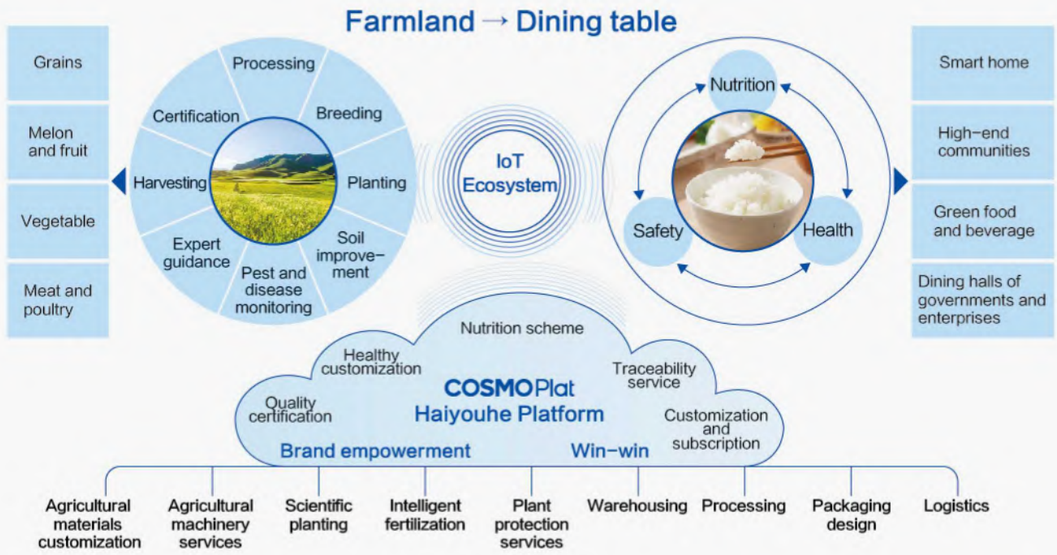
Digital transformation of mold asset management

Before	Outcome
Pain points of traditional mold management	**IoT mold management scenario**
User	User
• Nonstandard mold circulation makes assets uncontrollable • Use of overdue molds • Delayed maintenance, contributes to the high mold failure rate	• IoT + mold to obtain the mold production data and monitor the mold life • Predictive maintenance industrial mechanism model to realize health monitoring and early warning for molds • Asset management efficiency increased 51% and the failure rate decreased 46%
Manufacturer	Manufacturer
• Low digital degree results in high labor costs • Low modularity generates less accumulated data • Lack of effective production supervision leads to poor delivery quality	• 5G+AR to realize remote mold testing and remote acceptance • MES system provides process control and quality improvement. • Manufacturing cost decreased 17%, after cost decreased 30%, and payment collection period decreased 25%.

Industry Solutions

Smart Agriculture Industry– One–Click Customization of Healthy Life

By replicating the industrial mass customization model to the agriculture, COSMOPlat has built an agricultural IoT ecosystem brand platform. The platform connects agricultural bases at one end and users at the other end. At the base end, it can help farmers to purchase agricultural materials, soil improvement, testing and certification, expert services and other scientific planting. In this way, they can realize high quality and high price, increase their productivity and incomes. While at the user end, the new health product solutions can be interactively customized in the platform. The platform can realize the data exchange of the whole process from farm to table, quality control, transparent and traceable.



Practical Case · Wanguyuan Rice

It has realized the expansion of customers, built quality brands, and achieved incremental and value–added sharing.

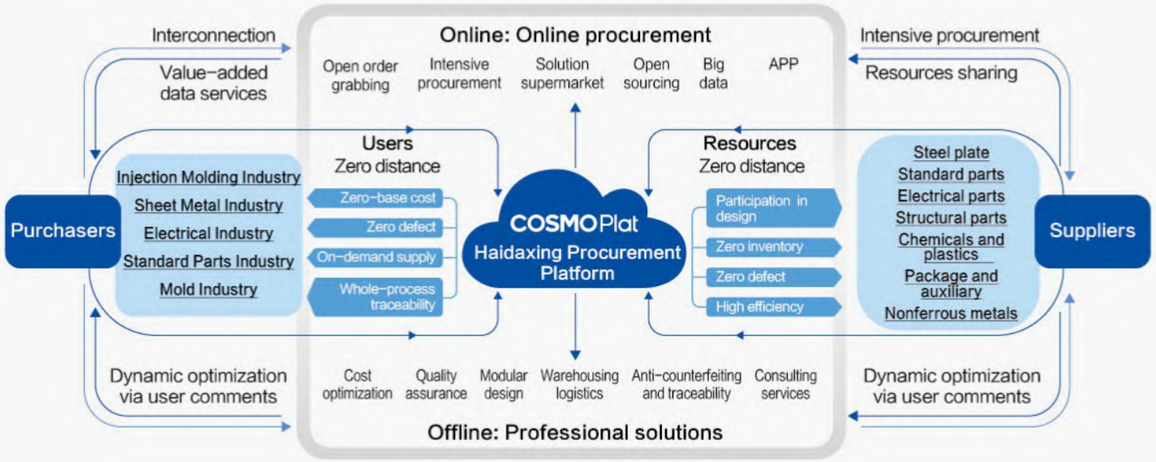
Before	Outcome
Traditional centralized procurement Business path of the old model: **Farmers → Vendors → Wanguyuan → Centralized procurement merchants** **Disadvantages of the old model** • The farmers plant empirically and can not maintain stable quality. • The farmers have no bargaining power and cannot get a high price for the high quality. • Orders are unstable and the added value of products is low.	**Value–added sharing** • **Farmers:** Incomes increased by 20% • **Enterprises:** 12% premium on self–owned products; sales increased by 45% • **Platform:** 2 million yuan/year **Experience upgrading** • **Farmers:** order–oriented planting and scientific management, gain more benefits. • **Enterprises:** channels expanded from ordinary vendors to centralized purchasing customers, brands improved. • **Customers:** Products can be customized with guaranteed quality and transparent traceability.

If you have any cooperation intention, please consult: 185 6143 0408

General Solutions

Smart Procurement – Intensive Procurement and Resources Sharing

Through the establishment of an accurate, efficient, zero risk procurement platform and a first-class resource ecosystem to realize the zero-distance interaction between the purchasers and the resource parts, COSMOPlat has built the first co-creation and sharing ecological platform in the procurement field, aiming to create lifelong value for users. The platform provides precise source search, open order grabbing, intensive procurement and other solutions online, and it also provides cost optimization, quality assurance, warehousing logistics and other purchasing solutions offline, which enables purchasers to buy high-quality products at low prices and resource parts to sell more products and make money faster.



Practical Case · Qingdao Best New Material

The platform accumulates small orders for big orders and exchanges great resources for great resources to realize value-added sharing among stakeholders

Before

Few orders and high costs

- Orders are less than the minimum quantity and information asymmetry, cannot contact the first-class resourcesc
- Without bargaining power, its cost is high.
- It needs to maintain two weeks of inventory in order to guarantee the production.
- Lacks design ability and has large difficulty in upgrading.

Outcome

Value-added Sharing

Purchasers	Resource parts	Platform
Saving cost 5.0%	Customers served 12	Resource aggregation and data accumulation
Orders increased 30.7%	Orders increased 2400w/y	

Upgrading Experience

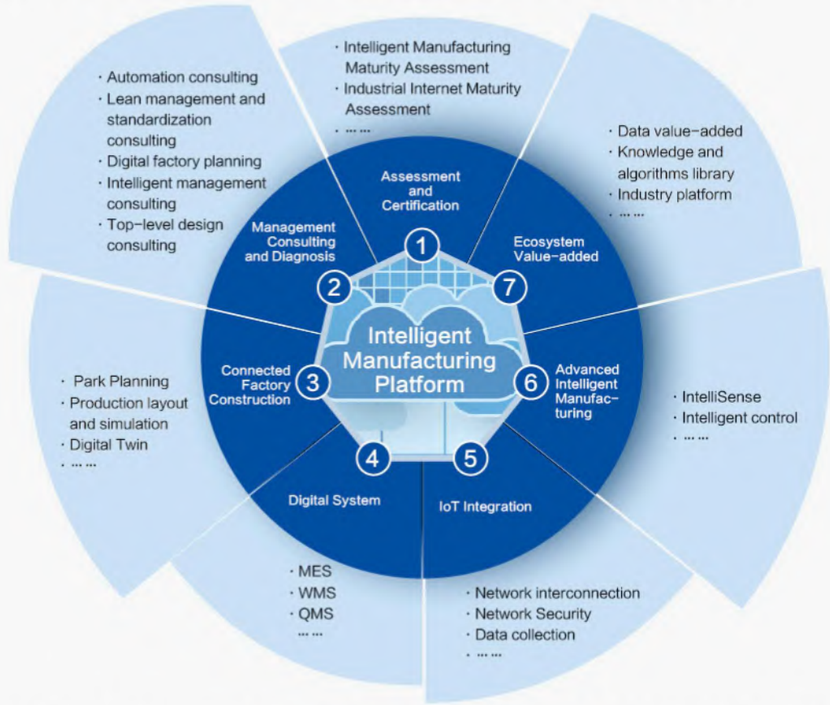
Purchasers	Resource parts	Users
Buy good quality products at low prices	Sell more products and make money faster	
Realize intensive procurement and get the first competitive product of QCD	Accumulate small orders for big orders and realize standardized upgrading and model transformation	Resources sharing Co-creation and sharing

If you have any cooperation intention, please consult: 0532 -8893 2040

General Solutions

Intelligent Manufacturing – New Technology Application Innovation Ecosystem of Intelligent Manufacturing and Industrial Internet

With standardized intelligent manufacturing maturity assessment, it can help enterprises find their problems in the process of enterprise digital transformation and build a product and service system that covers the whole process and all elements with products and services such as evaluation and certification, management consulting and diagnosis, connected factory construction, digital system, IoT integration, advanced intelligent manufacturing, and ecological value-added and so on to realize the comprehensive upgrade of enterprise intelligent manufacturing



Practical Case · Qingdao Haier Sino-German Special Refrigerator Factory

The enterprise has realized the digital and visual management of key production equipment to improve the production efficiency.

Before

Manufacturing enterprises in the digital transformation period

Outcome

Staff efficiency	↑ 46%
Paperless level	↑ 61%
Operation and maintenance cost	↓ 23%

A digital, visual, and standardized equipment monitoring and management system has been built to improve the management efficiency.

Extensive Empowerment
Cross-Industry, Cross-Field, and Cross-Region

COSMOPlat has been promoted and replicated to 15 industries, 7 major fields, 12 regions, and more than 20 countries around the world.

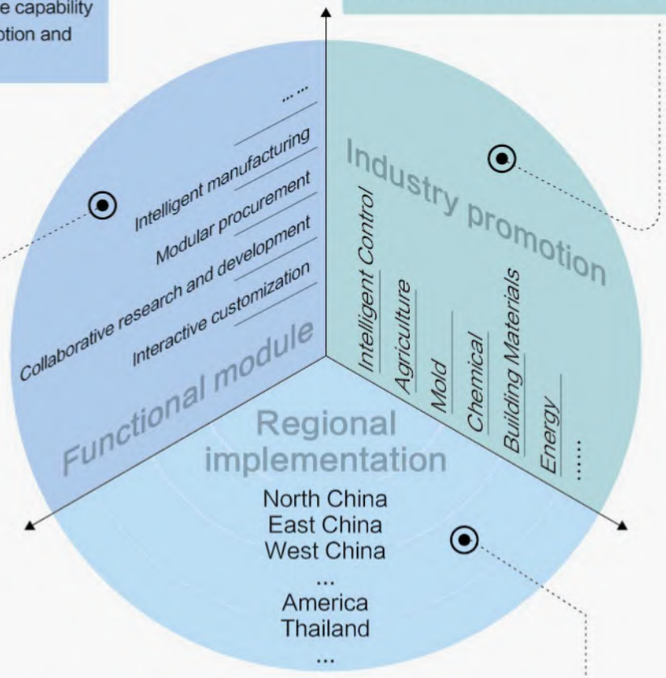
Cross-field: 7 major fields

It is deconstructed into 7 modules and innovates in the user service capability through the flexible subscription and nested connection mode.

Cross-industry: 15 industry ecosystems

Own business transformation→Upstream and downstream of the industry chain→Industry ecosystem

15 Interconnected factories→15 industry ecosystem



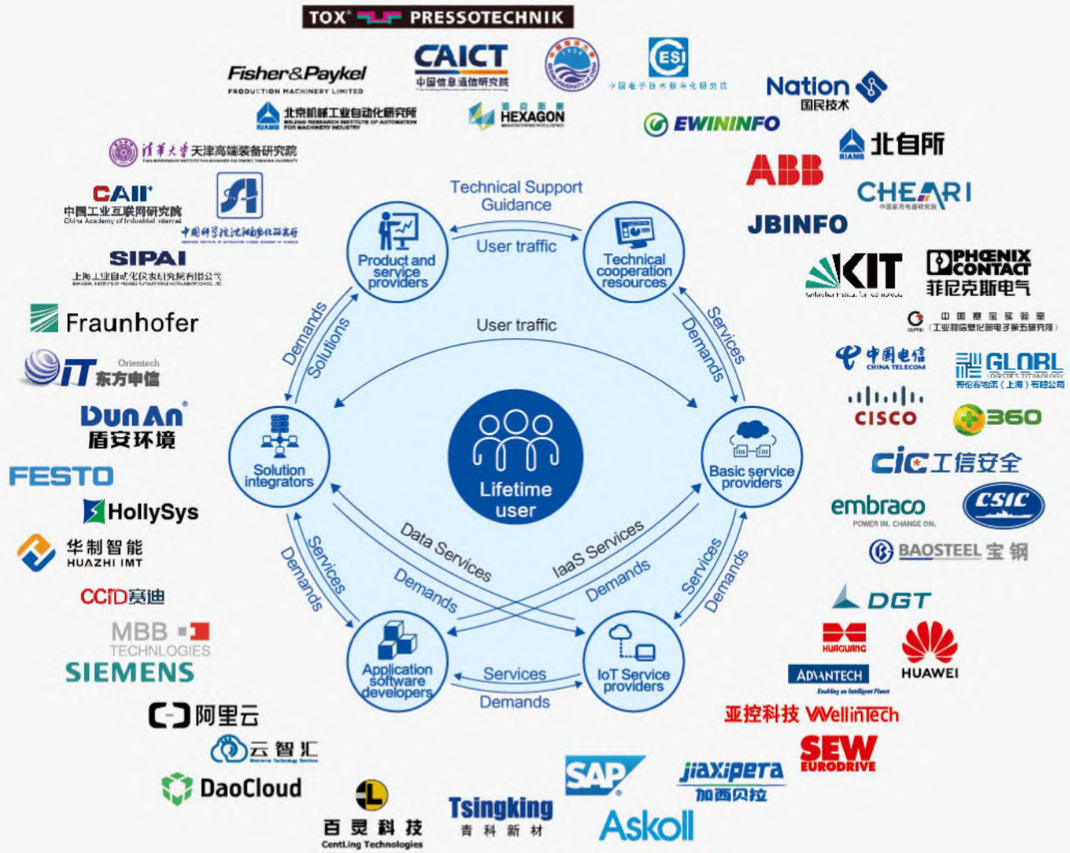
Cross-region/cross-culture: 12 regions and 20 countries

Qingdao→Shandong→China→The world

Replicated to 7 region centers,12 regions, and 20 countries around the world.

COSMOPlat is an open-source platform

Every company can become an operator and a partner of the COSMOPlat Industrial Internet Platform, to construct the platform and share the achievements.



More than 1,500 first-class resources around the world
Industry, University, Research, Application, Finance

Opening up & Cooperation
Co-building & Sharing

Obtain Services

Four easy steps to start your Industrial Internet journey with COSMOPlat.

01

User registration

PC: Visit the official website, click register button

(www.cosmoplat.com)

Mobile: Scan the code, complete the registration

02

Login and submit requirements

- After registration, you will be redirected automatically to the login page, where you can enter the user name and password
- Select "Seek Services" or "Become a Service Provider", fill in the required information, and submit your requirements
- The system will automatically recommend suitable products and solutions for you.

Note: You can click User Name – Product Recommendation for further modification subsequently

03

Select products and solutions

- Select Product and Service, and click on Application and Solution
- Understand the details of the solution: Select the specific solution you want to know in the Application and Solution interface, and then, you can experience or consult after entering it
- If you need any in-depth answers, click Product Consulting/Solution Consulting – Fill in the Required Information and Submit, so that a consultant can contact you

04

Enterprise certification and cooperation

- Click on Business Operation Center after logged in.
- Click on Create Tenant and fill in the information.
- Click on Tenant Certification, fill in and submit the company's real information.
- Certification completed, follow-up cooperation can be initiated.

Move with the Times, Achieve Win-win Success.