Building the digital platform for Industry Intelligence Upgrade

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Synergy across 5 tech domains to facilitate intelligent industrial upgrades

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① **Connectivity**

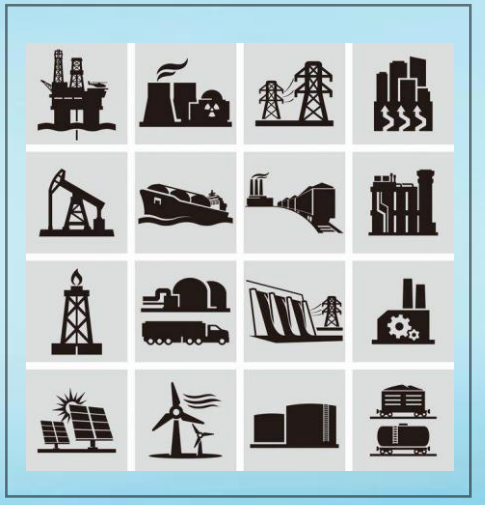
5G can connect all things

② **Cloud** ③ **Computing** ④ **AI**

Data	Computing power	Algorithms
Industry know-how		Models

Computing power is productivity

⑤ **Industrial applications**



Scenario-specific intelligence

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Transforming industrial production towards automation and intelligence by synergizing 5 tech domains

"Super scavenger " robots

Self-driving mine vehicles

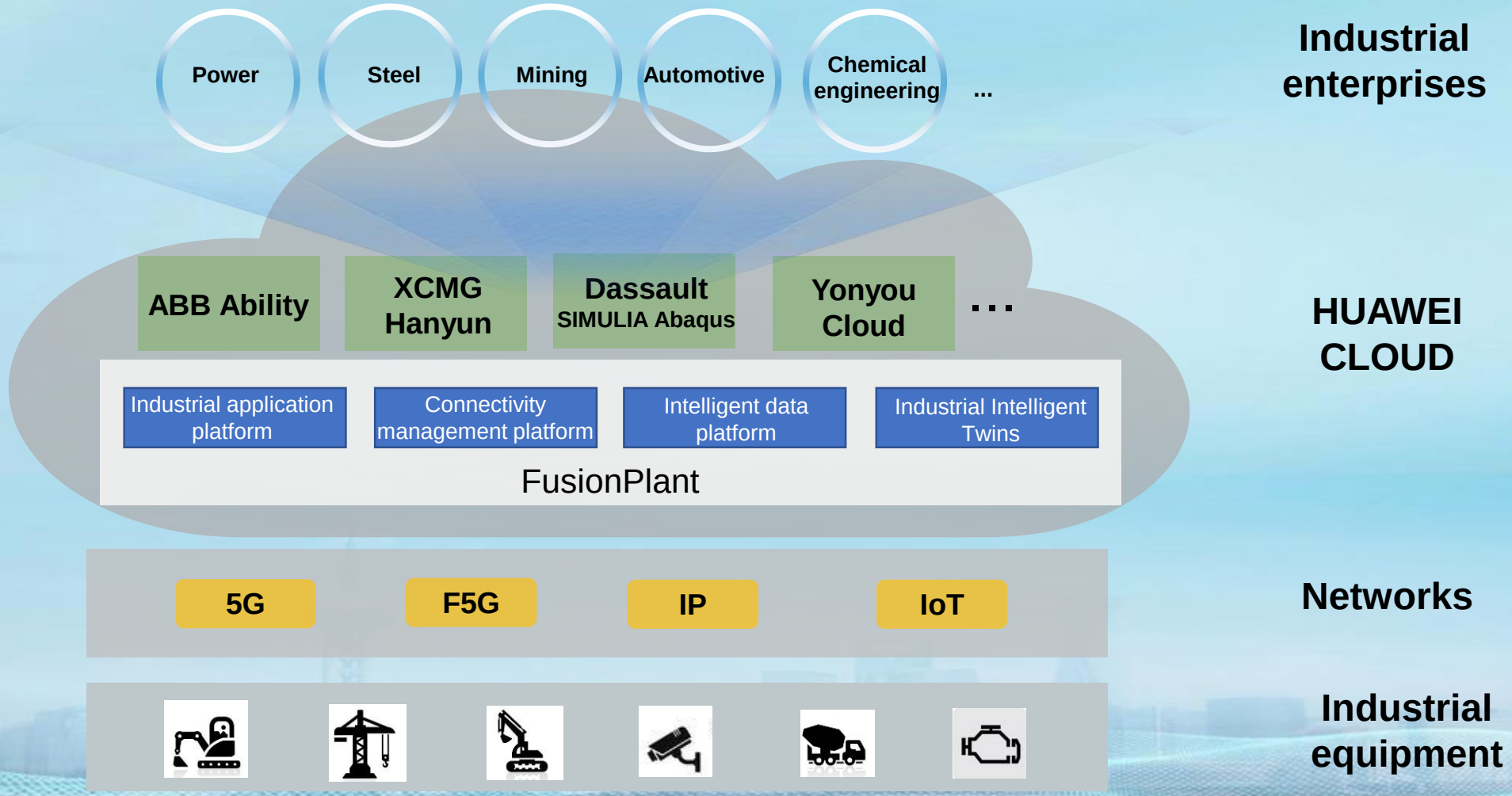
Remote operations at ports

Real-time quality detection

Production safety monitoring

Preventive maintenance

HUAWEI CLOUD FusionPlant: An industrial Internet platform that helps industrial enterprises go digital and intelligent faster



HUAWEI CLOUD FusionPlant: Offering key services to enable ecosystem partners through open collaboration

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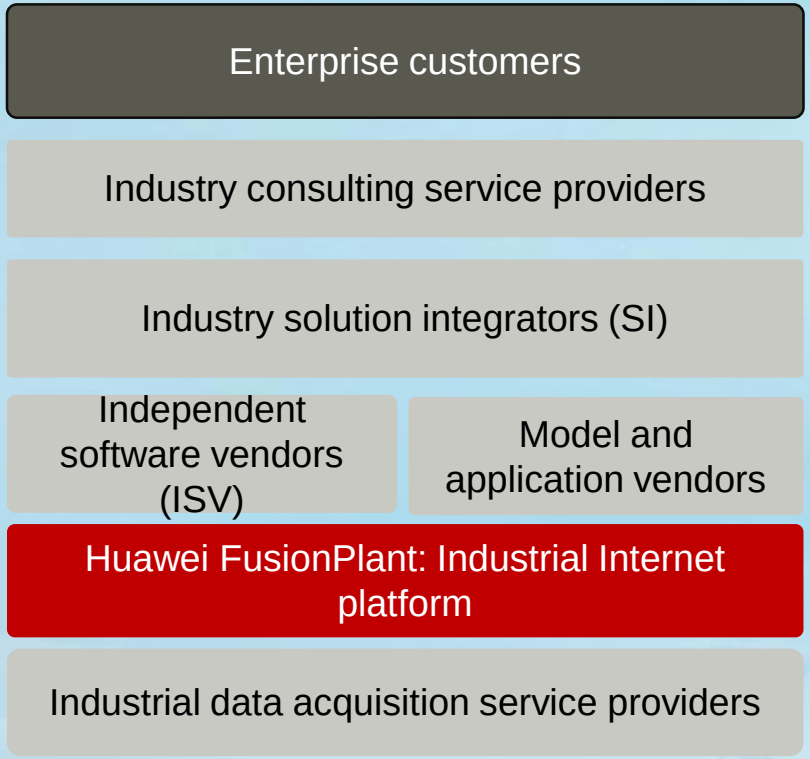
FusionPlant ecosystem partners



Customer/partner	Typical requirements/pain points	Key services
Enterprise customer	OT + ICT data integration	DAYU: Intelligent data lake operations platform
General SI	Integration and operations of data from multiple sources	ROMA: Application integration platform
ISV	Multi-vendor application integration Mechanism- and data-driven AI integration	Industrial Intelligent Twins
Model and application vendor	Integration of models and applications from multiple vendors Agile application development	DevCloud: Application development PaaS
Data acquisition service provider	Data transmission, edge-cloud synergy	5G, F5G, and Intelligent EdgeFabric (IEF)

Boosting intelligent upgrades of enterprises and industries with industry know-how

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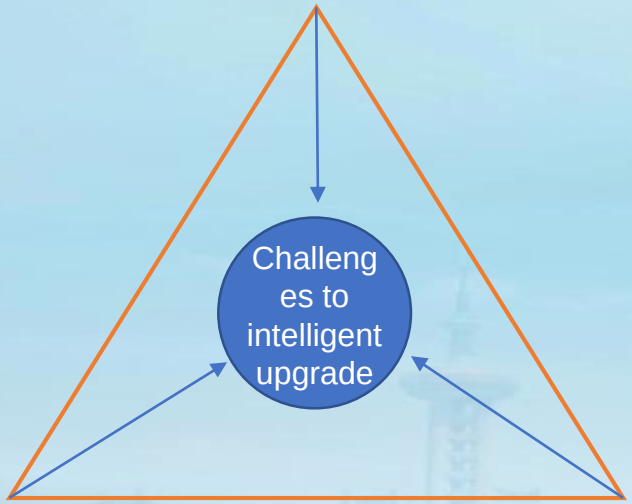
Steel | **Coking** | **Chemical fiber** | **Petrochemical** | **Power grid**

湘钢 | 中国煤科 CCTEG | 三联虹普 SANLIAN HOPE | 中国石油 | 国家电网 STATE GRID | ...

WISN 華新麗華 | 鑫磊集团 GOLDEN STONE | jinsheng 锦盛 | PCITC | 中国南方电网 CHINA SOUTHERN POWER GRID

Industry know-how: Experts



Software engineers

Data engineers

Industry know-how: Partners

用友 yonyou | Kingdee金蝶 | ptimal 施达优

ZHY 智洋创新 | ICS&S 中软国际 | DMT | 数联魔方 Digital Magic Technical

MeiCloud 美云智数 | ABB Ability™ | CISRI 冶金自动化研究设计院 AUTOMATION RESEARCH AND DESIGN INSTITUTE OF METALLURGICAL INDUSTRY | ...

HAND | 徐工信息 | DASSAULT SYSTEMES

alkweb | SiE | 金三立 SANTACHI

Transitioning from manual to intelligent & automated power grid inspections

Manual inspection
Heavy workload | Safety concerns | 20 days

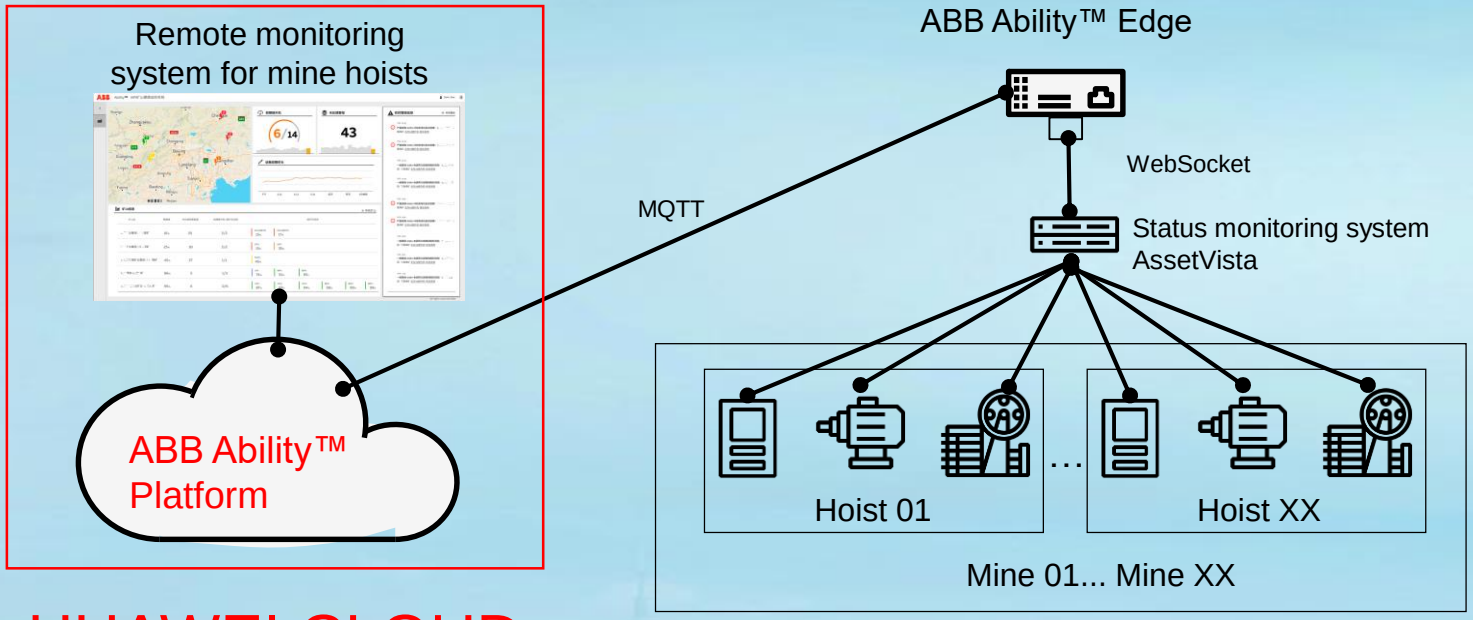
5G + Cloud + AI

Efficiency 80x ↑

AI inspection and 5G video backhaul
Remote monitoring, safe| Real-time analysis | 2 hours

Visible	Comprehensible	Safe	Flexible
HD cameras (1080p or more)	AI-powered, accurate detection of damage to insulating spacers and missing dowels	Virtual fences keep drones 5–10 meters away from high-voltage lines	Algorithm and application decoupling allows different algorithms to be used in different scenarios

Mine guardians



1,500 tons/hour

- Less downtime to minimize safety risks caused by faults;
  - Potential risks can be predicted early on to avoid fault-induced downtime;
  - Faults can be located and root causes identified quickly, shortening the recovery period.
- Maximized production capacity.
  - Good knowledge of asset status informs confident and bold production efforts
  - A detailed maintenance plan supports decision-making
- Higher quality
  - Reduced material consumption
  - Fewer overlapping operations

Building regional industrial Internet platforms for quality development of local industries

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Government

- Policy guidelines
- Industrial upgrades
- Talent development

SMEs

- Benchmark enterprises drive synergy across the industry
- SMEs first migrate to cloud proportionately and then on a large scale

HUAWEI

FusionPlant

Local service agencies

- In-depth regional services
- Multiplier effect within the industry

Service providers (ISV/SI)

- Quick development of cloud-based applications
- Industry know-how

90%

of Dongguan's enterprises that have migrated to cloud are high-po enterprises

500+

enterprises have migrated to cloud, creating a multiplier effect in respective industries

Dongguan Industrial Internet Platform

1

platform

Huawei Industrial Cloud Mall

2

sets of supporting policies

Dongguan City: Building cloud infrastructure to benefit enterprises

Guangdong Province: Supporting enterprises' migration to cloud platforms

3

key focuses

Fast growth of SMEs

Innovation in product forms

Multiplier effect across different segments

More regions

Ningbo Developer Program Factory

Shenyang Smart Manufacturing Pilot Zone

Changzhou Industrial Internet Base

Xiamen Jimei Industrial Internet Park

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Takeaways

1. Synergy across 5 tech domains for intelligent industrial upgrade
2. Transforming inc… synergizing 5 tec… …ligence by
3. HUAWEI CLOUD… go digital and int… …helps industrial enterprises
4. Boosting intellig… …ndustry know-how
5. Building regiona… industries …oment of local

Building regional industrial Internet platforms for quality development of local industries

Thank you