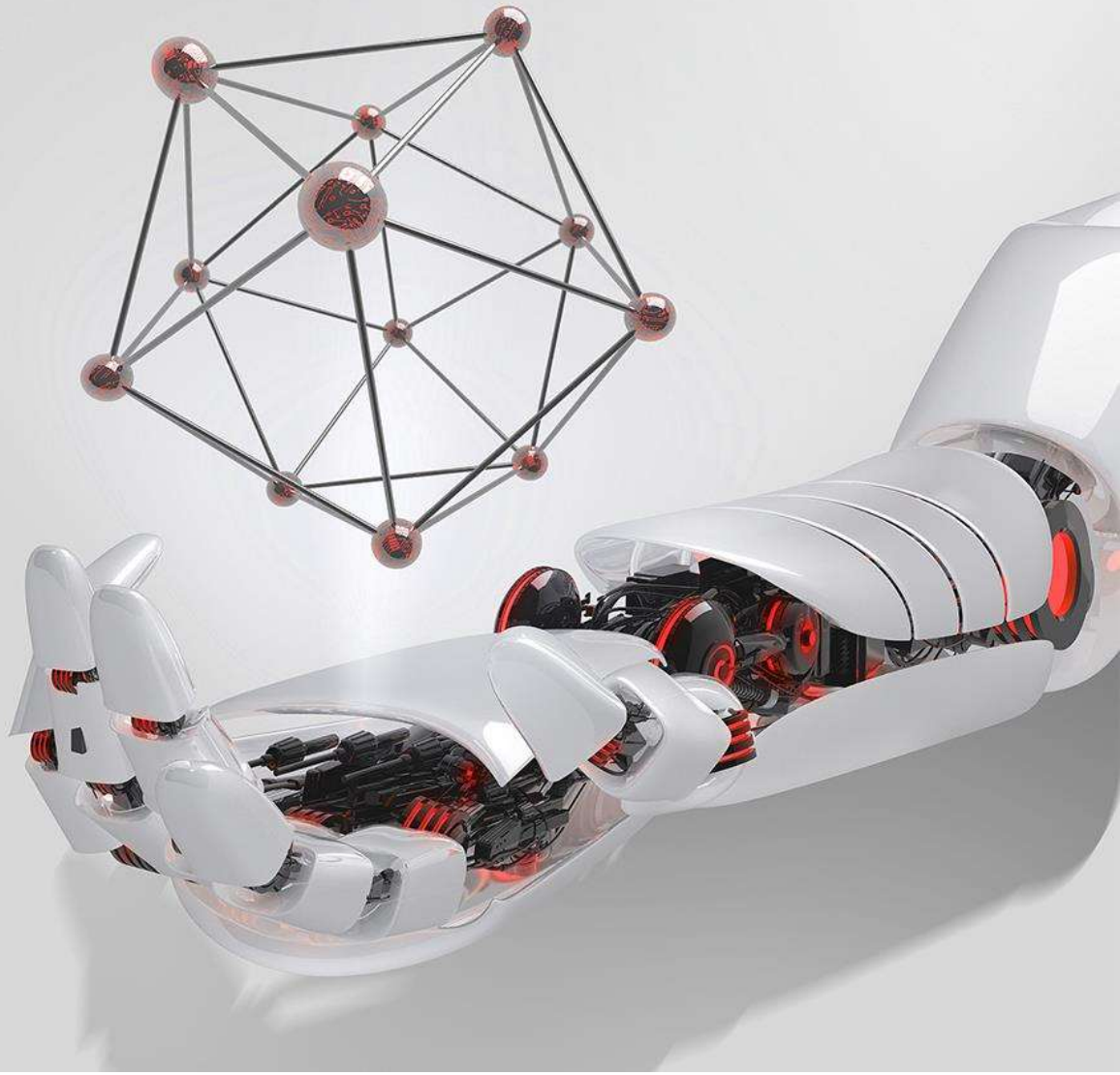
Modernizing Applications and Agile Innovation with HUAWEI CLOUD



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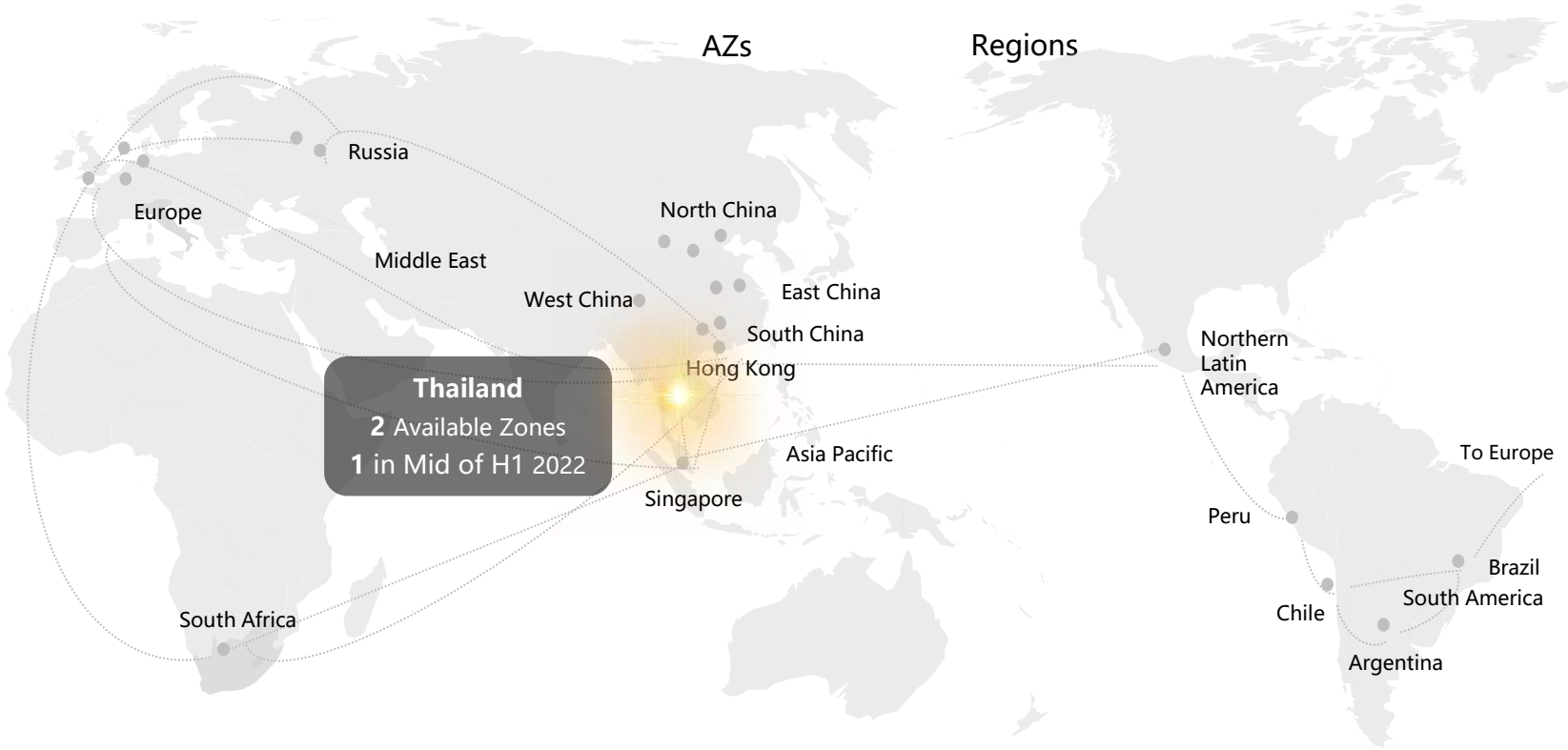
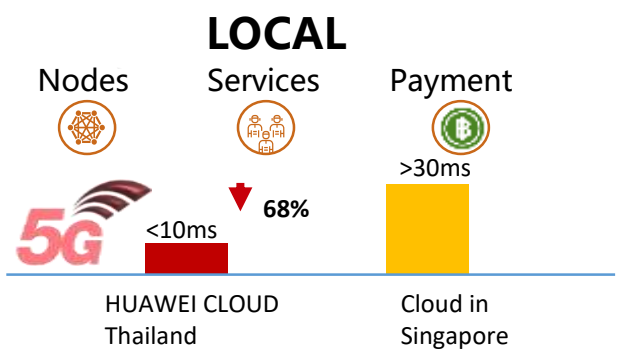
HUAWEI CLOUD 1st Global Cloud, Local Data Centers in Thailand

61 AZs

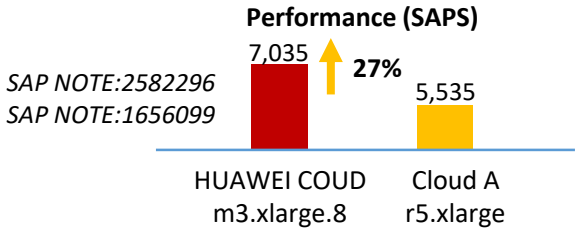
27 Regions



High Performance & Low Latency Access in Thailand

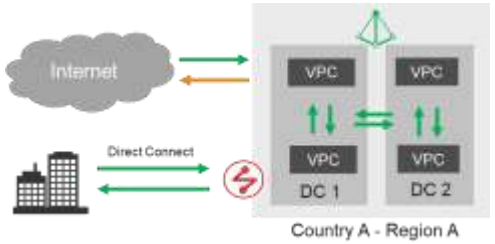


Lower TCO at the Same Performance



Flexible Pricing Model: Best In Class TCO

**Allow to adjust size and charge in Pro-Rate*



Reliable Public Cloud Provider in Thailand

Source: Gartner, Market Share: IT Services, Worldwide 2020

90+ Global Certificates

Comprehensive Cloud Services Available in Thailand

AI (Enterprise Intelligent)
ModelArts, Image, VCR, OCR, CSS

Migration
SMS, CDM, DRS

Communication
CEC, Cloud meeting

Video
MPC, VOD, Live

Security
WAF, AAD, Anti-DDoS, HSS, MTD, *SCM, SA, CGS, DBSS, DEW

Distributed Cloud
HUAWEI CLOUD Stack, IEF, DCC

Big Data
MRS, DLI, DWS, DGC, DLF

Management
TMS, CES, SMN, LTS, IAM, CTS

Application Services
DMS Kafka, DMS RabbitMQ, APM, APIG, CPTS, CSE, ServiceStage, BCS, AOM

Database
PostgreSQL, SQL Sever, MySQL, DDS, DDM, DCS Memcache, DC Redis

Compute
ECS, BMS, FGS, DeH, AS, IMS

Container
CCE, SWR, *MCP, AOS

Storage
EVS, OBS, SFS, CDN, SDRS, CBR, DES

Networking
VPC, ELB, NAT, Elastic IP, VPN, Direct Connect, CC, DNS

**Remark: Available in other region but be able to use from Thailand*

Update in Q4, 2021

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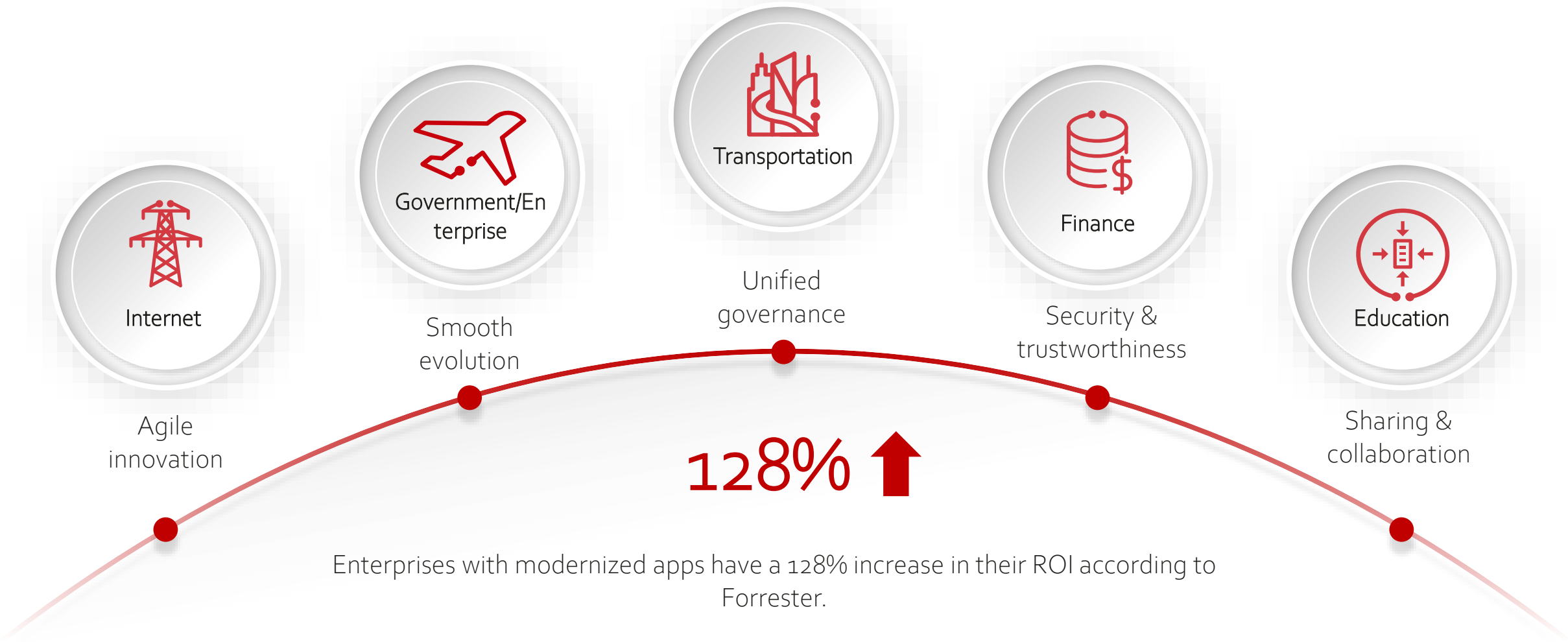
Modernizing Applications and Digital Transformation are Now Trends in Many Industries



Enterprises with modernized apps have a 128% increase in their ROI according to Forrester.

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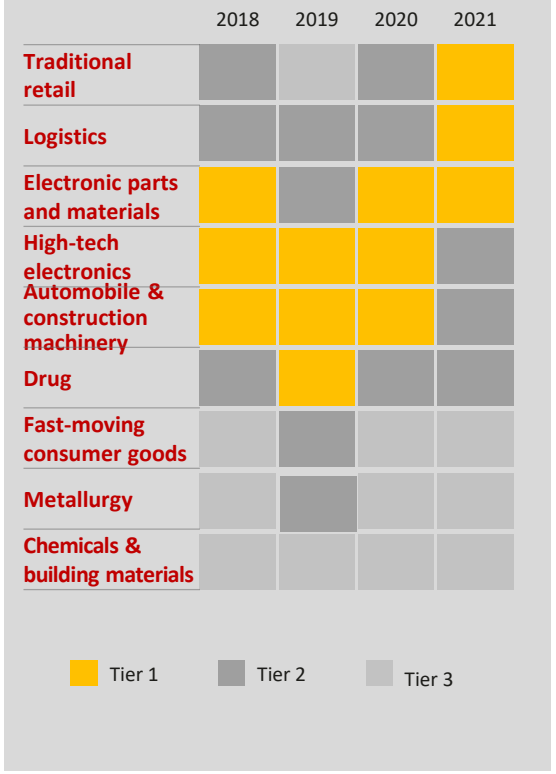
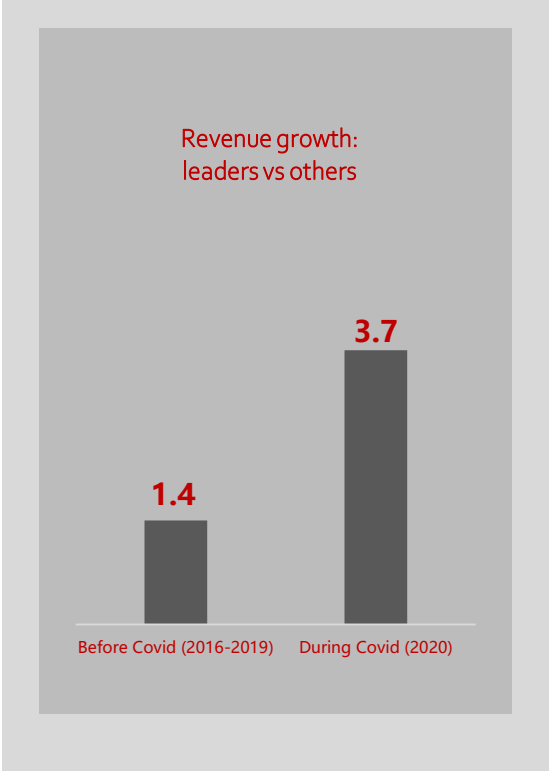
Digital leaders are widening the lead, and application modernization is the key

Covid accelerates digitalization across industries

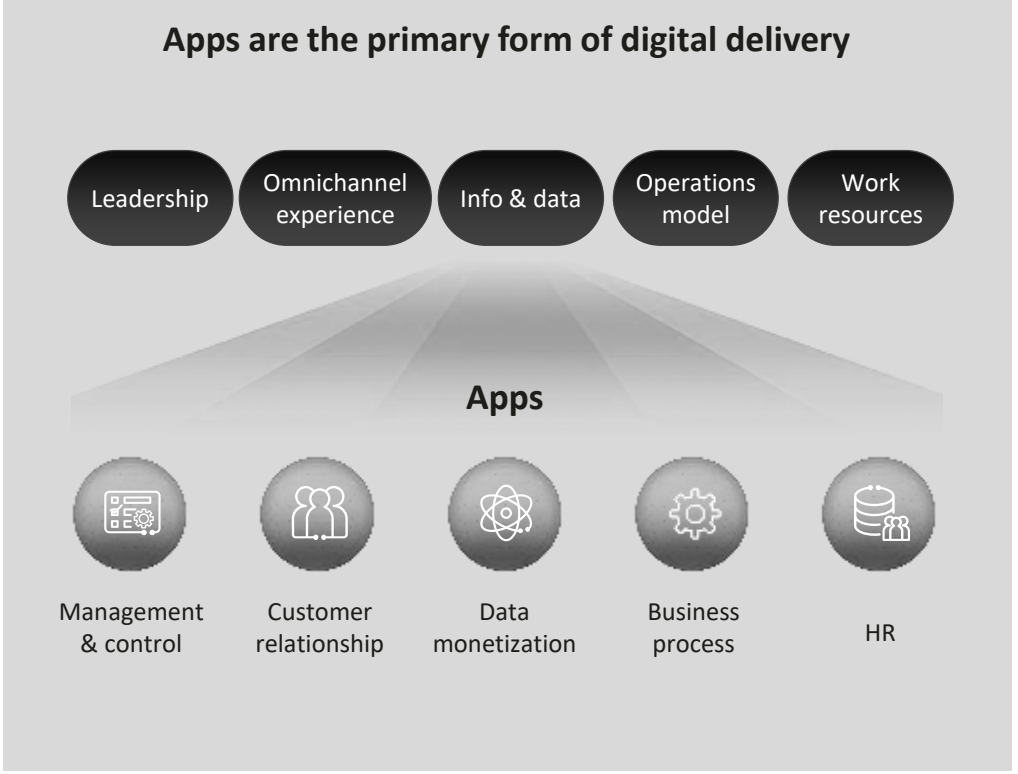


Digital leaders grow faster than laggards during Covid



Source: Accenture

By 2025, 25% of China's top 500 companies will become software producers



Source: IDC

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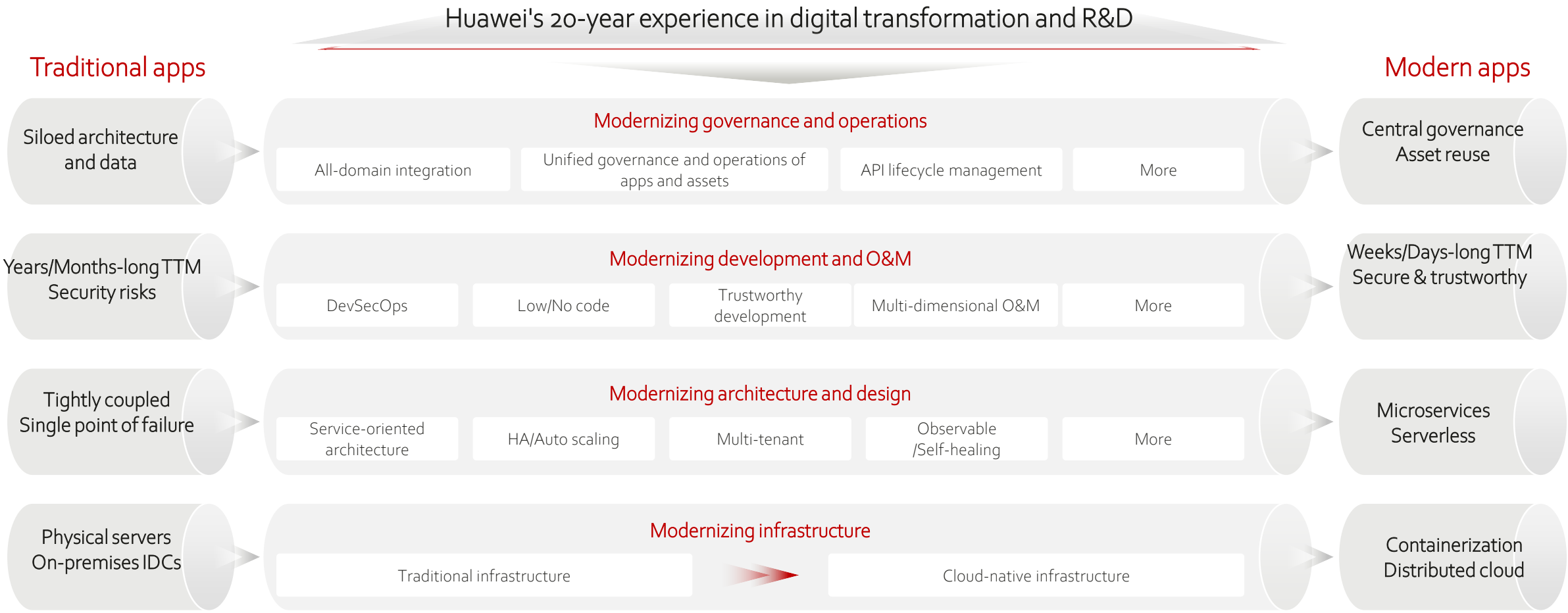
Towards Modern Apps and Agility in Four Ways



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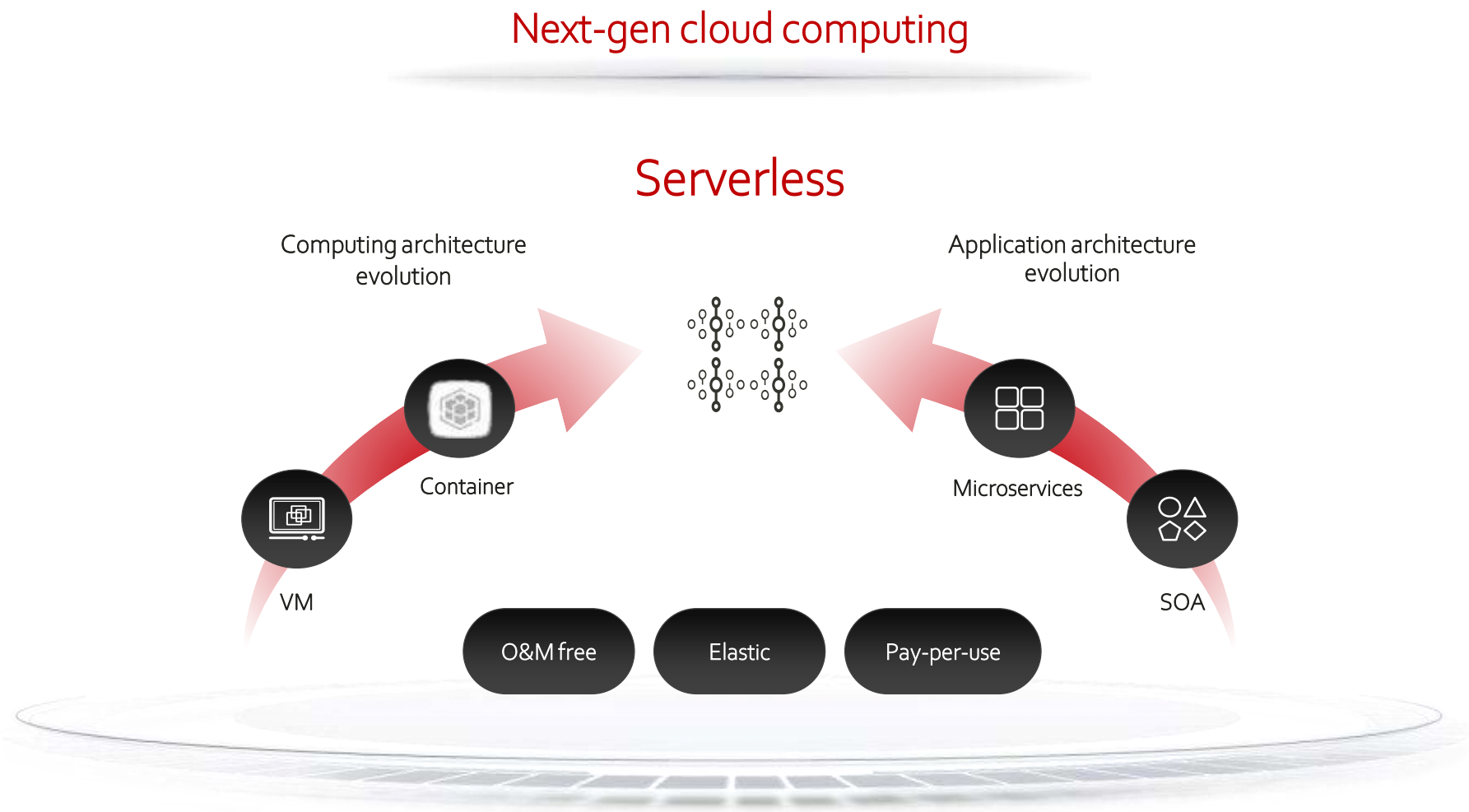
Elastic, Serverless Architecture

Allows Developers to Just Focus on Applications



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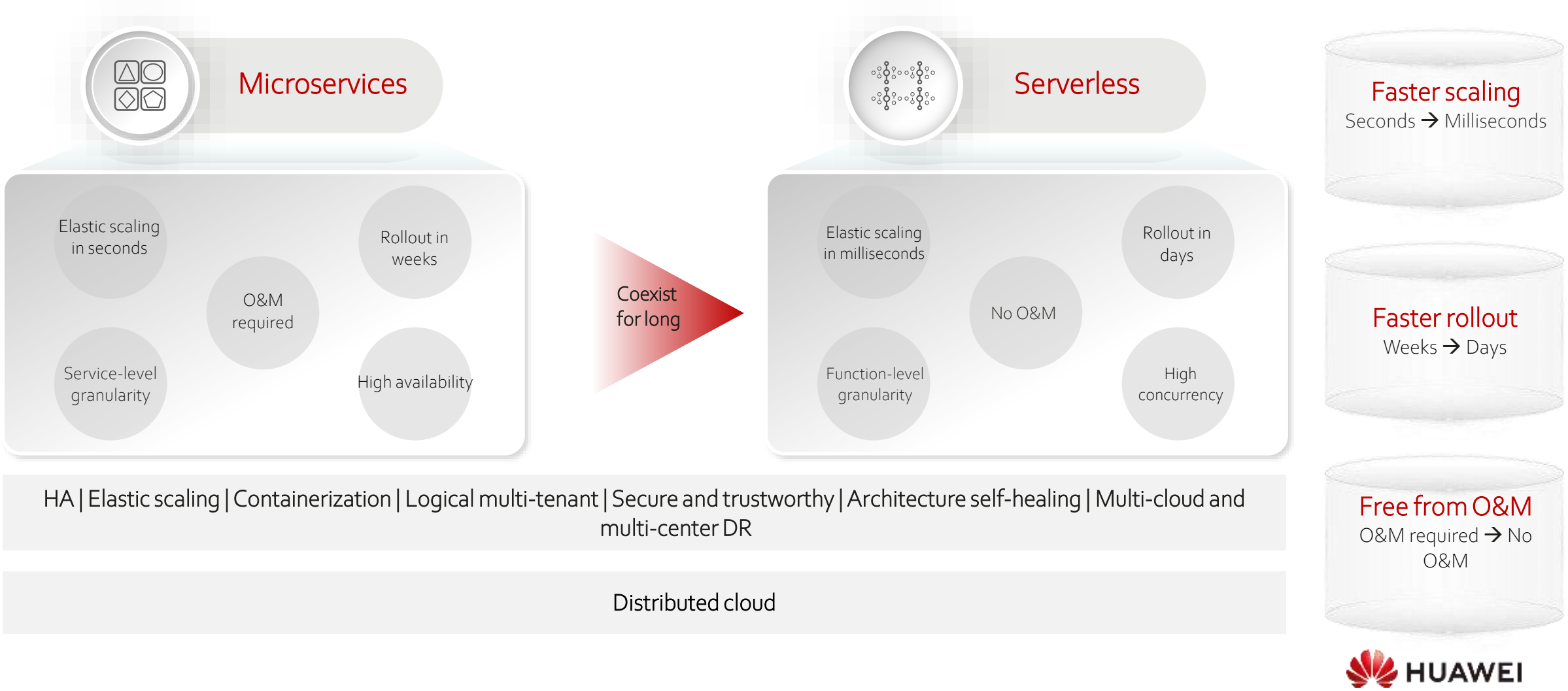
Modernizing Architecture and Design

Enhanced User Experience, from Microservice to Serverless Architecture



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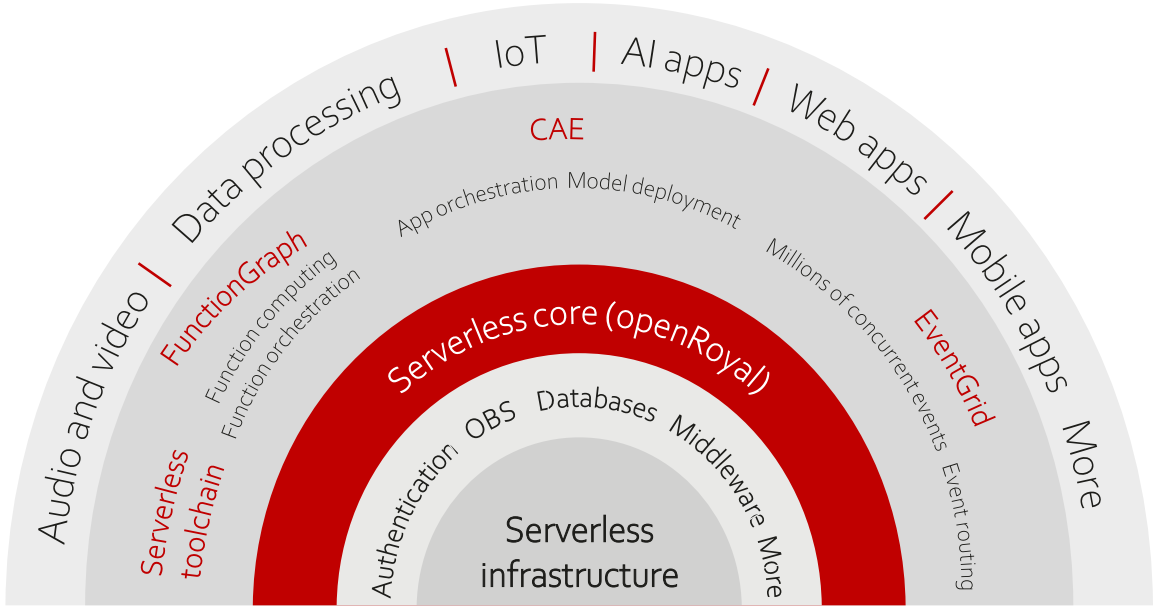
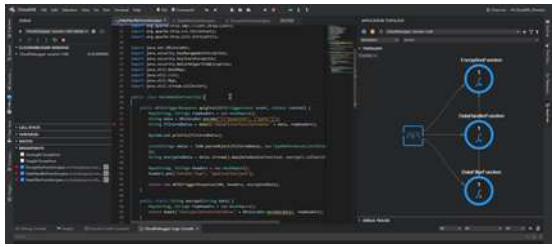
Huawei Serverless: Full-Stack, All-Scenario





Stateful functions

50 ms of cold start

E2E toolchain

Function templates

CloudIDE Toolset

Rollout of news updates app, down from 1 week to 1 day

HUAWEI Quick App

60%+ higher utilization of video transcoding resources

HUAWEI Video

Real-time gaming experience with stateful functions

HUAWEI GameCenter

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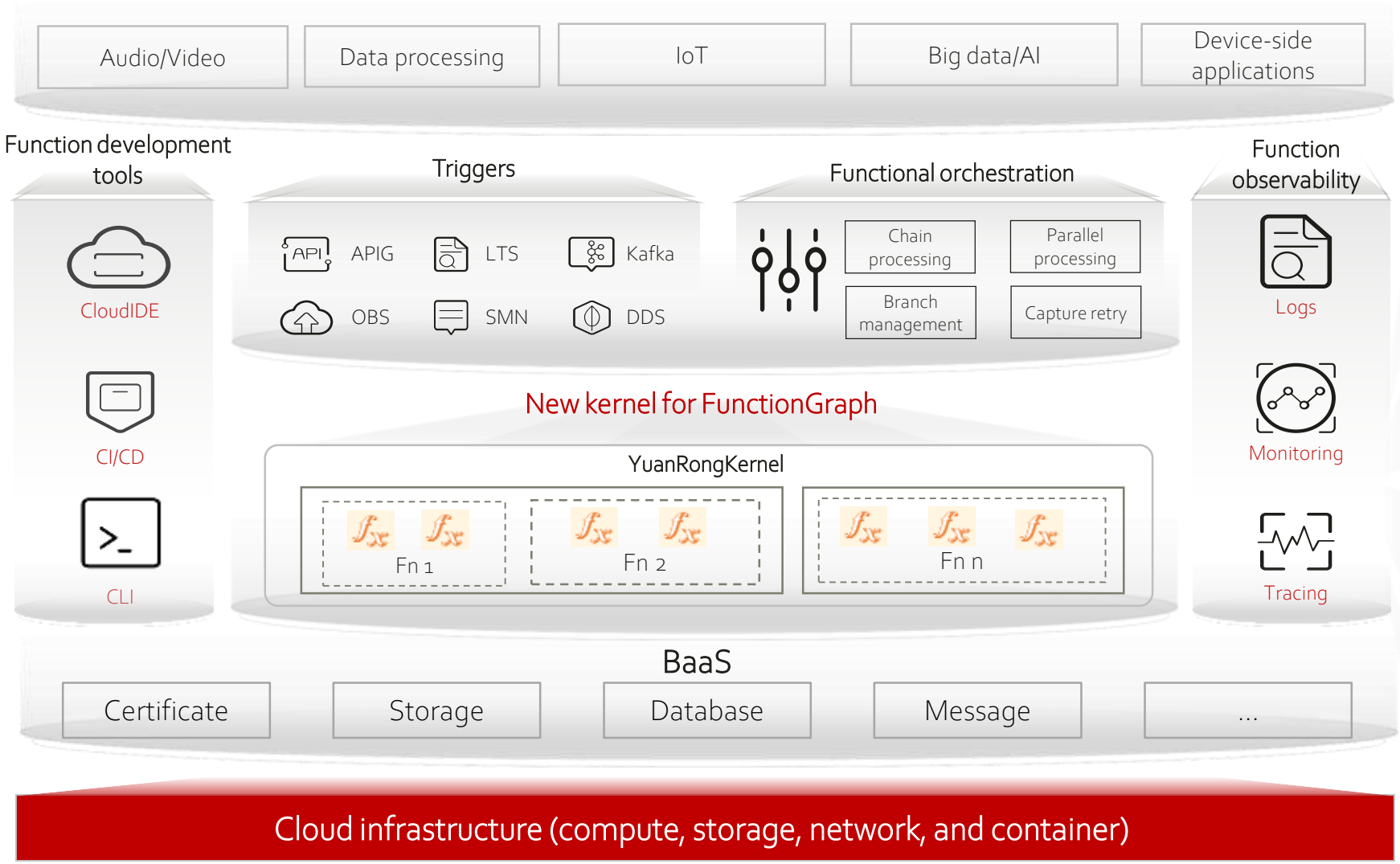
Serverless Service: FunctionGraph 2.0



- Integrated CloudIDE, CloudDebugger for concurrent function debugging
- Full lifecycle management for functions, automatic deployment of dependent resources and infrastructure

- 6 multiple languages, custom runtime systems
- 10+ triggers
- Cold start latency within 100 milliseconds
- Auto scaling in milliseconds

- Stateful functions supported
- Visualized function orchestration

- Pay-per-use

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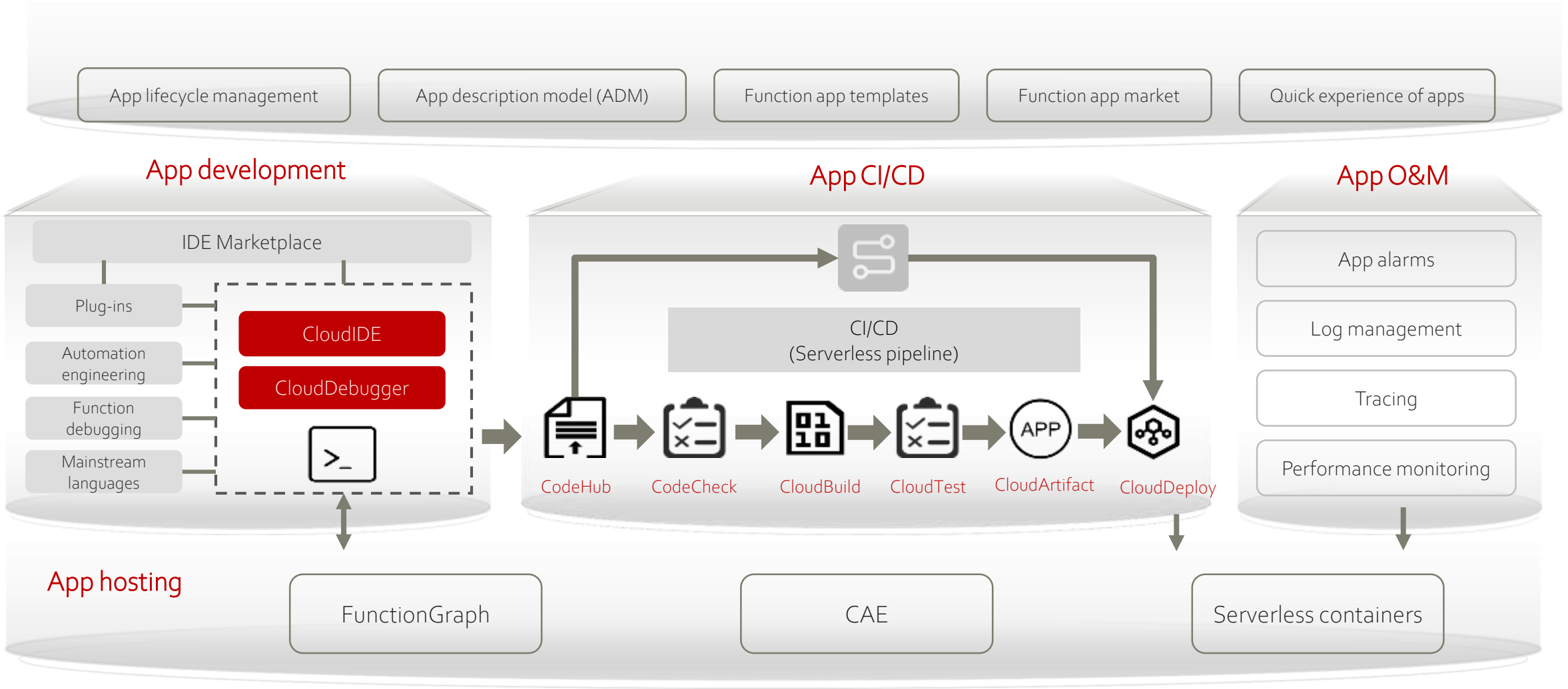
Serverless Toolchain: Managing the Entire Serverless App Lifecycle



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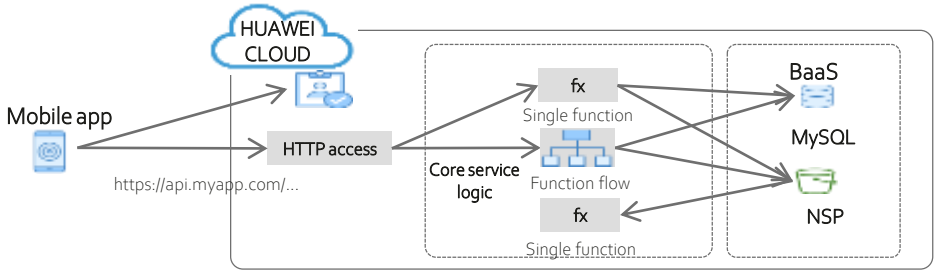
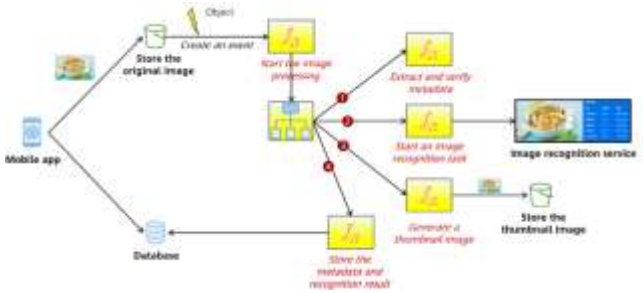
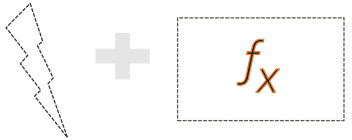
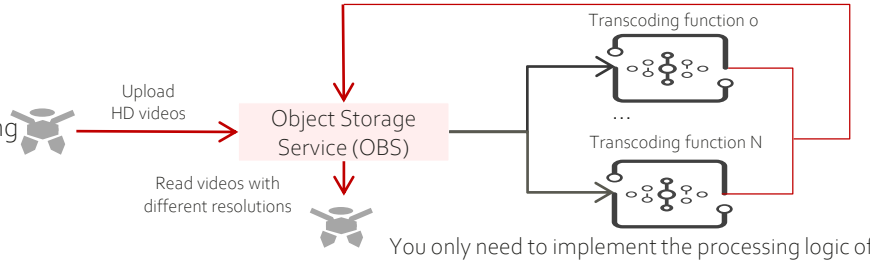
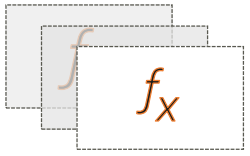
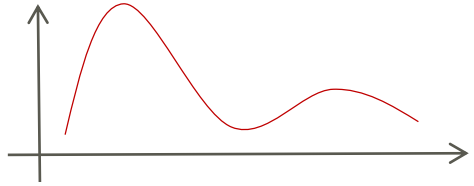
Example of Serverless Scenarios and Benefits

Scenario	Feature	Benefit
Short-time processing • Applet backend • Web backend • Off-peak report processing • Scheduled log analysis		Single-purpose, stateless, and fine-grained microservices	Simplified development, delivery in hours
Event-driven processing • Real-time image processing • Real-time data stream processing • IoT rule/event processing • O&M alarm processing • Service ticket systems		 Event-driven + glue layer	Flexible function orchestration & automatic service process
Significant peaks and troughs • Video transcoding • Live streaming • AI inference • News push	 You only need to implement the processing logic of a single request, and the function implements auto scaling and concurrent processing.	 Fast auto-scaling, invisible resources	 Flexible handling of traffic changes, better resource utilization

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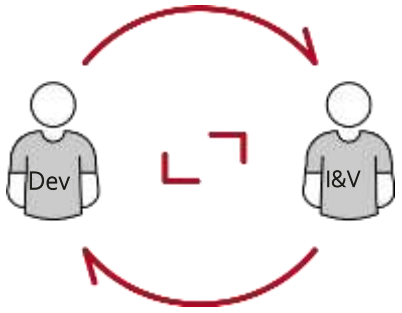
Modernizing Development and O&M: Secure from the Very Beginning

Agile Dev → DevOps → DevSecOps

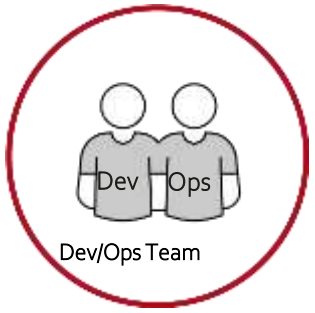
Fast iteration | Continuous integration | Embracing changes

Automation | Continuous delivery | Continuous monitoring

Built-in | Automation | Integration

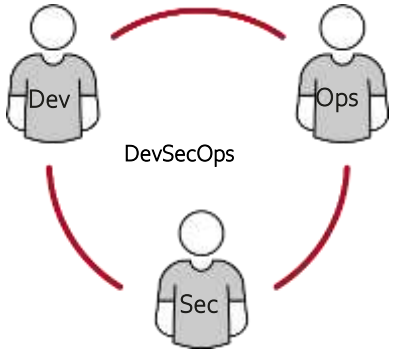


Agile iteration



CI/CD

Containers



Security

Automation

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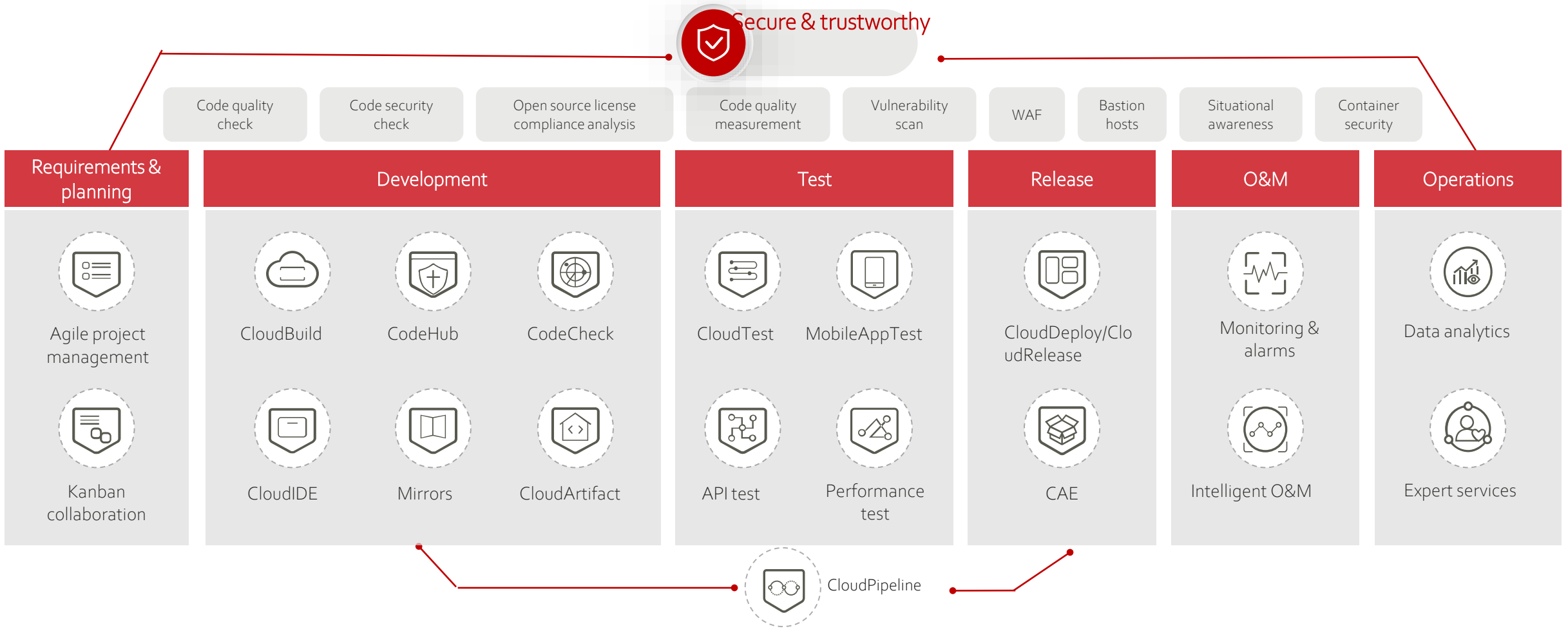
DevCloud: Full-Process, Secure DevOps Platform



- E2E: integrated process for unified management
- Secure & trustworthy: security testing, trustworthy build, code security, asset security, 5+ security standards, 15,000+ code check rules

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AppCube: Low Code Means Everyone Can Be a Developer, Efficiency Up by 10x

Large-screen apps
(Enterprise service monitoring, emergency operations, city management)

Light apps
(Applets, workflows, enterprise reports)

Industry apps
(Smart campus, transportation, energy)

Development efficiency 10X ↑

No code
(Personnel with no coding experience develop apps.)

AppCube

Low code
(Professional developers extend apps.)

Platform capabilities

- Rapid UI orchestration
- Quick service process orchestration
- Low-code app lifecycle management
- Connectors
- Asset management & reuse

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Digital Transformation, Agile Development, and Asset Accumulation for a Thriving Ecosystem

Industry apps

Smart campus | Smart office | Smart city | Smart manufacturing | Internet | Intelligent transportation | Smart education | More

Platform — Low threshold, efficient full-stack development

\+

Assets — Expertise collating

\+

Ecosystem — Sharing and collaboration

Jointly develop standards

No code

- Streamlined development
- Form-based
- Template-based
- Drag-and-drop layouts
- Simpler process orchestration

Low code

- UI and layout orchestration
- Service process orchestration
- BPMN approval process orchestration
- Scripts and data models
- Microservices
- Native scaffolding

Multi-screen/device

- Single version for all devices
- Data sharing and synchronization

Asset center

- Templates and components
- UI, APIs, and processes
- Integrations and apps
- Business objects

All-in-one production

- Cloud-based development
- Cloud-based sandbox testing
- One-click release
- On- and off-cloud deployment

Optimize development experience

Accumulate industry assets

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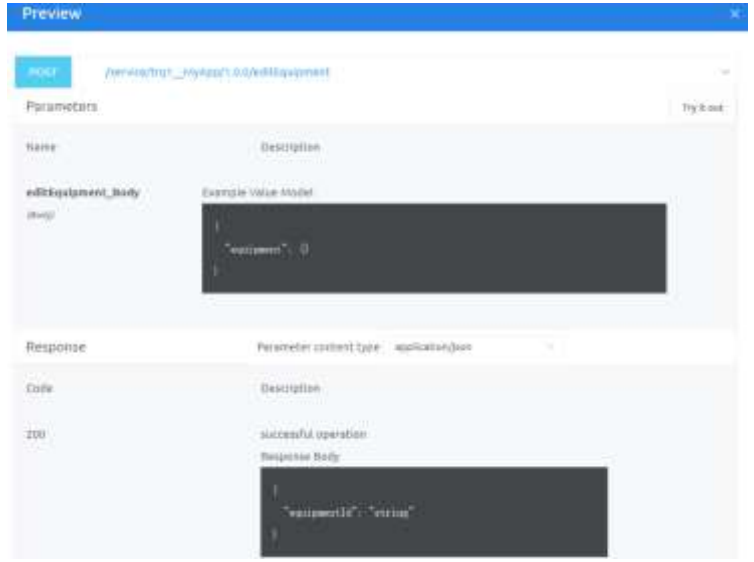
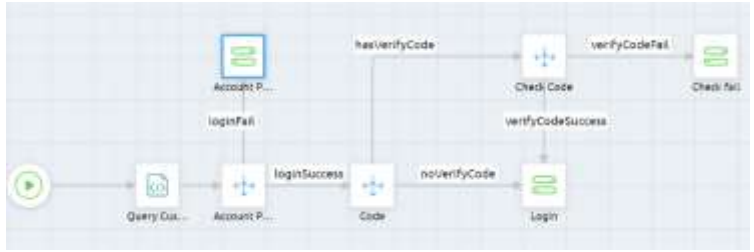
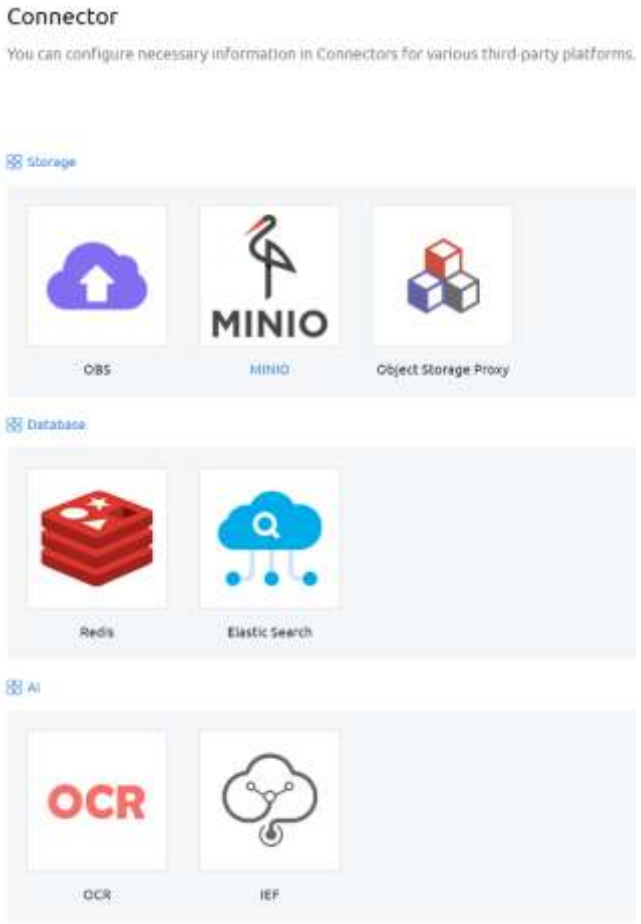
AppCube Open Integration

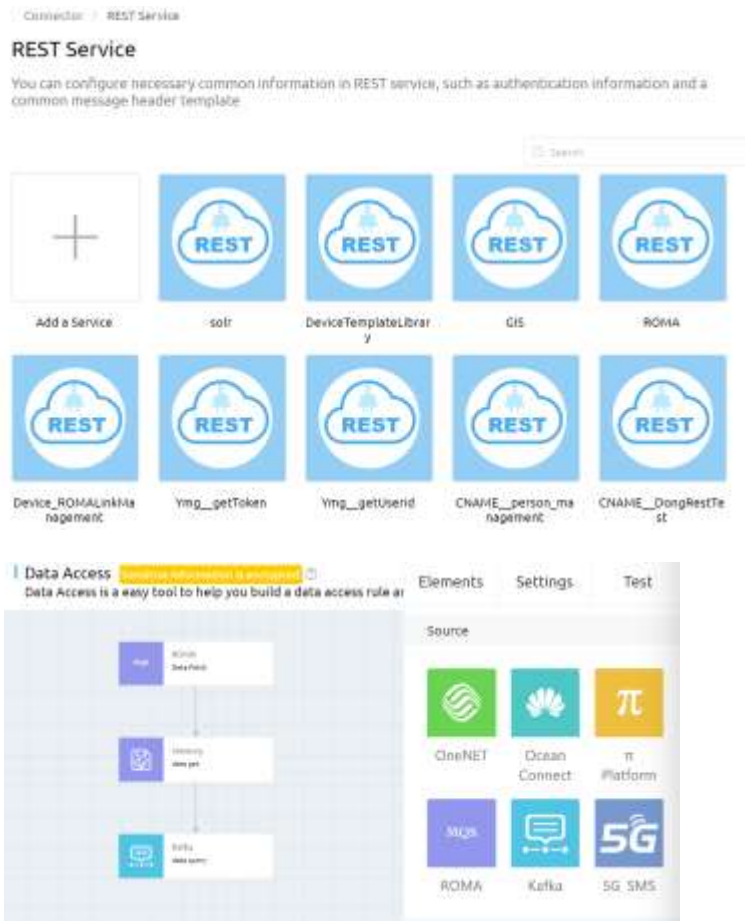
Connecting Cloud Services, IoT Platforms, and Legacy Systems

IAM/SSO integration, open APIs + OAuth, HTTP/SOAP API integration, cloud service connectors, IoT platform message access, and data access









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Optical Character Recognition :

Thai National ID Card, Car License Plate, Passport

Application Scenario:

- eKYC
- New user registration
- Real-name authentication
- Smart Automation

Huawei Cloud Advantages:

- High precision: >99%
- Pay per use: Huawei Cloud charge customer by per API call
- Data privacy: Huawei Cloud complies with PDPA & ISO27701(GDPR)
- Ready to use: Released those service as standard cloud service on official website

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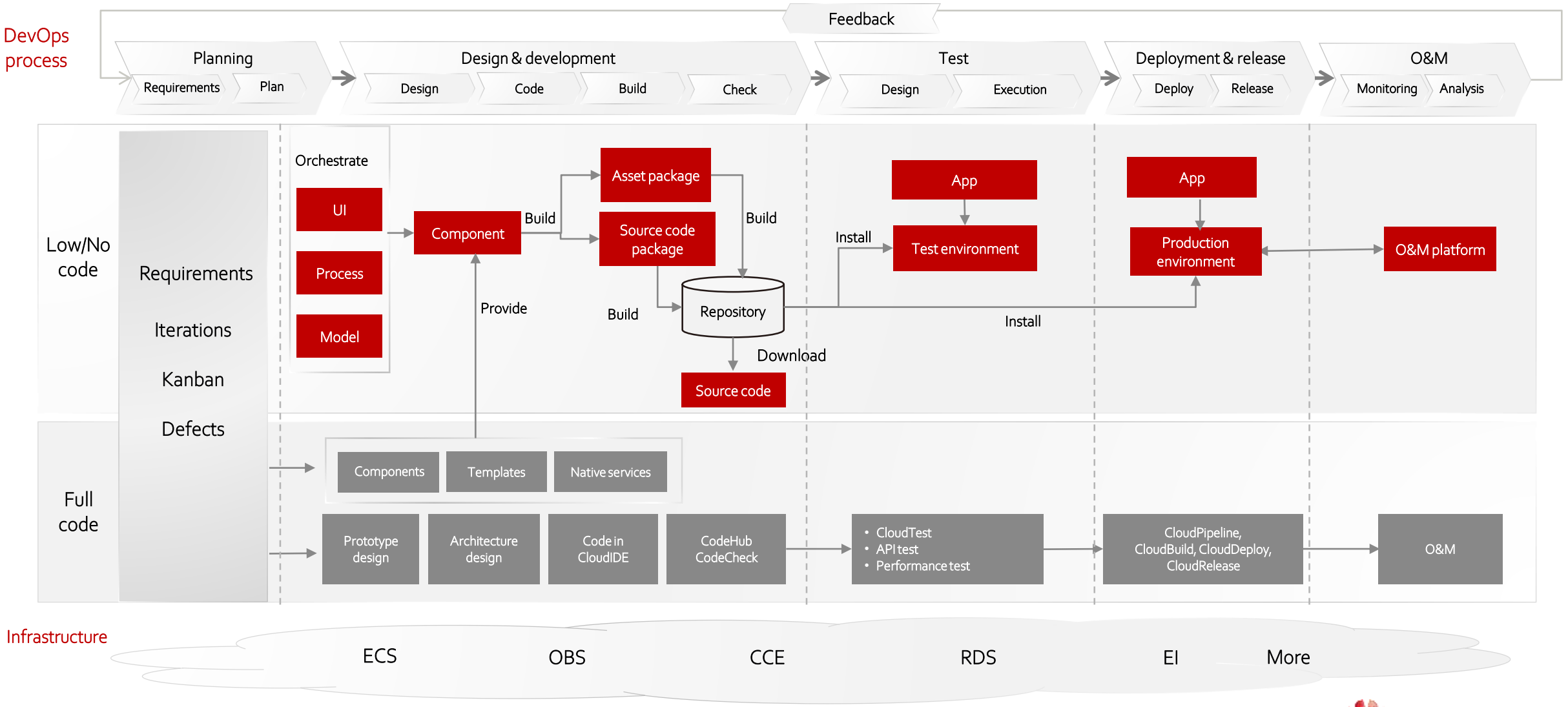
DevOps: Better Lifecycle No Matter What Code



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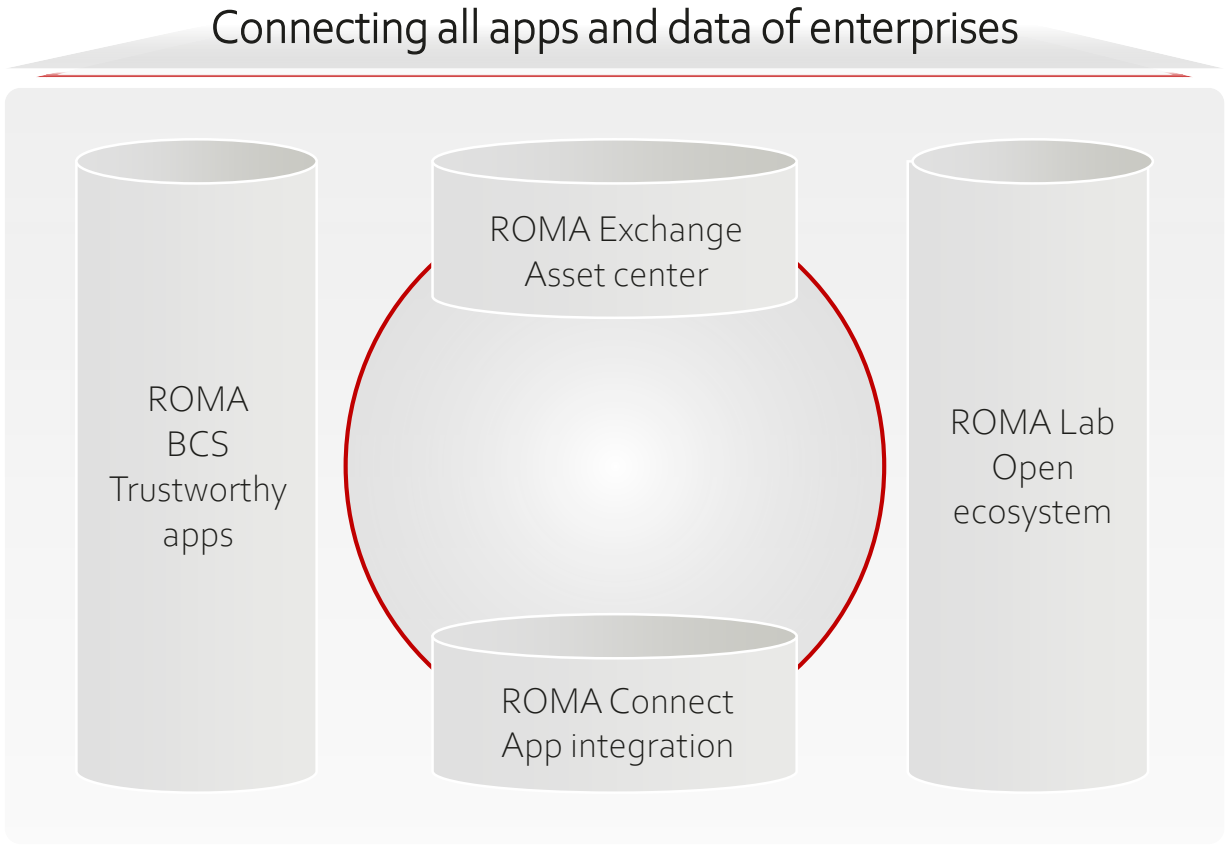
Modernizing Governance and Operations

Coexistence of New and Legacy Apps and Secure Digital Asset Management



Smooth evolution

Coexistence of new and old apps, asset reuse

All connected

Cross-domain, cross-cloud integration, and multi-layer cascading

Trustworthy apps and asset operations

Blockchain +, asset monetization

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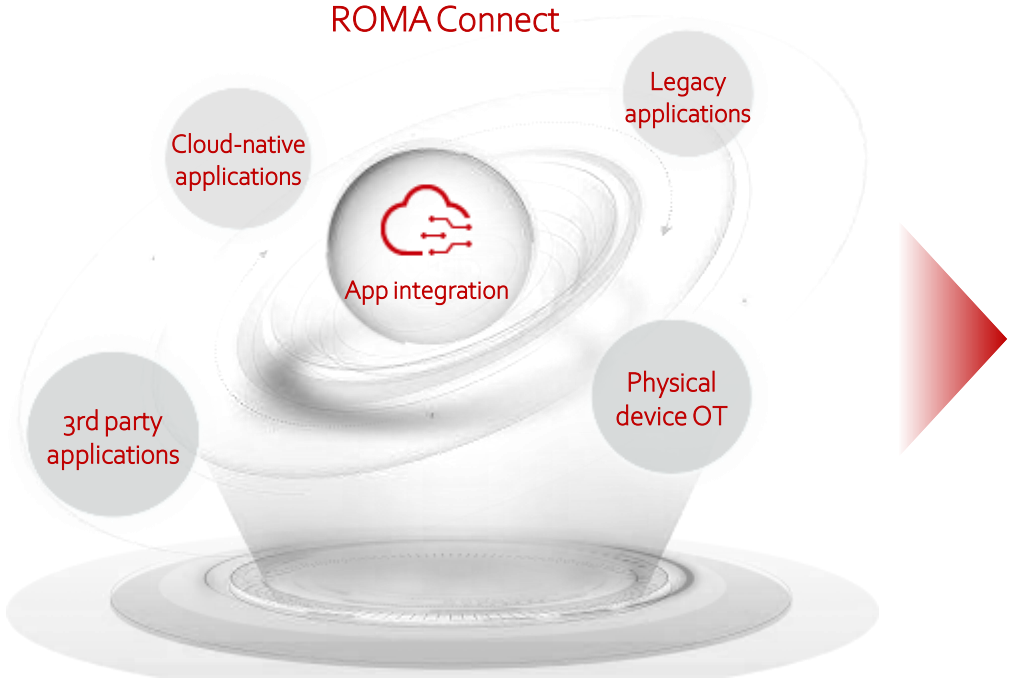
ROMA Connect: Recognized Integration Platform for Futureproof Apps

9 industries

200+ best practices

2,000+ preconfigured assets

150,000+ app connections



Edge deployment

Integration

4 New Capabilities

API lifecycle governance

Service flow orchestration

Trustworthy Cloud User Case Best Practice Award in 2021 and Trustworthy Cloud PaaS Best Practice Award in 2020

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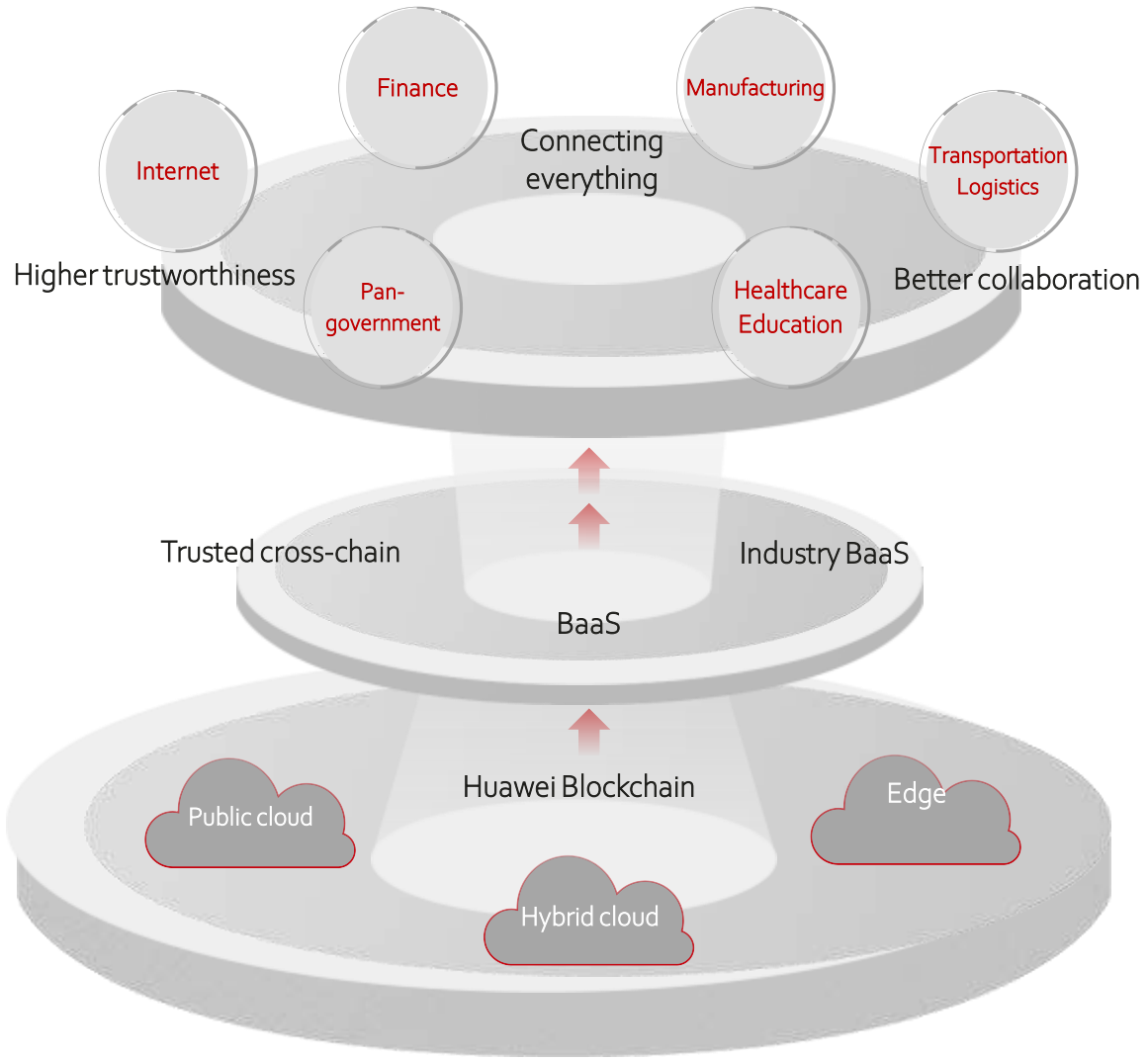
BCS: Blockchain + for a Trustworthy Society and Industry Digitalization



Blockchain +

Trustworthy apps and value transfer

10X ↑

50,000 TPS throughput

100X ↑

10,000+ nodes

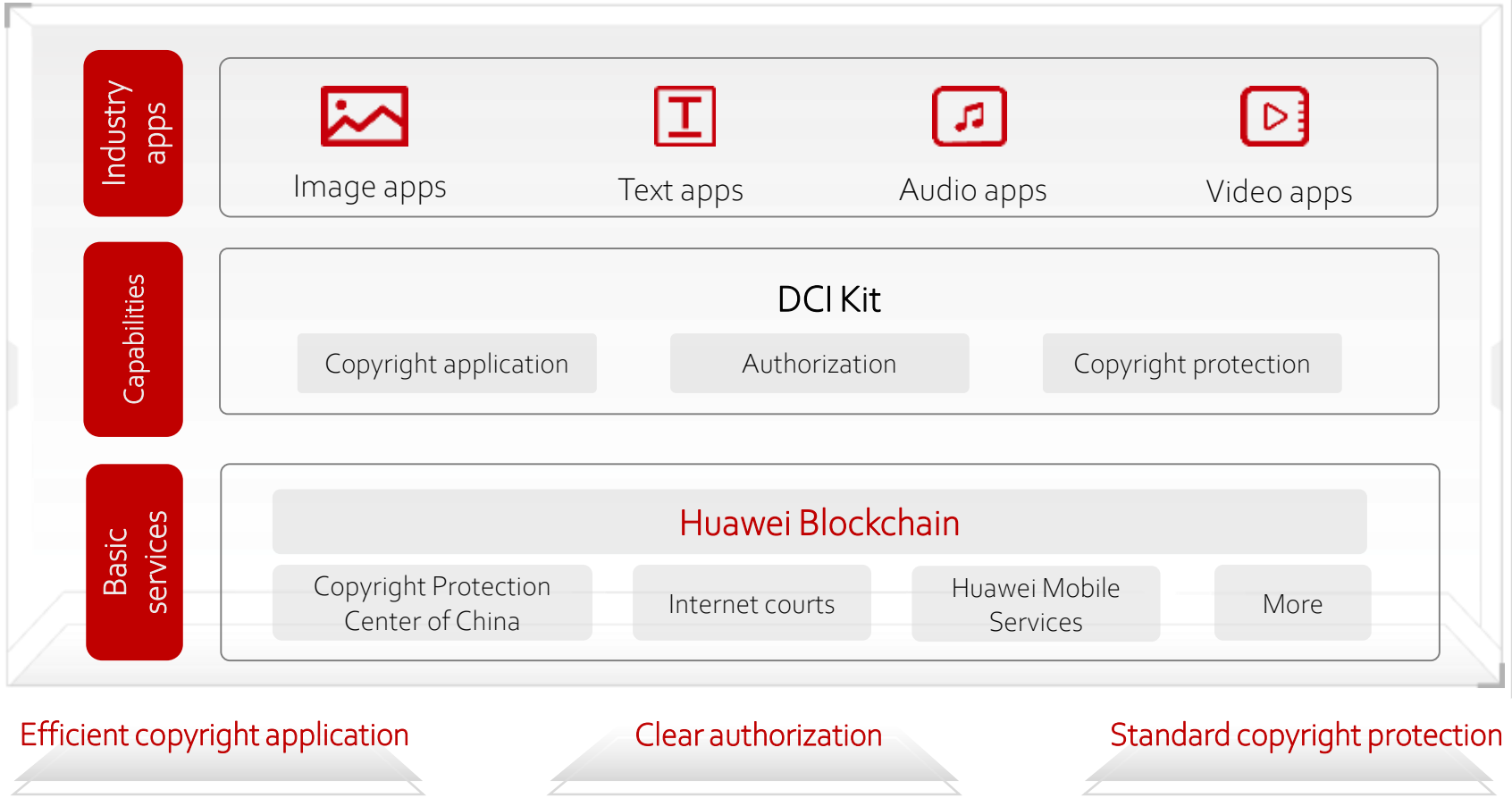
Efficient | Secure | Easy to use | Open

Huawei Mossel: Traceable Supply Chains

- Multi-domain coverage: concurrent information recording of 100,000+ products to the chain
- Cross-border tracing: lifecycle tracing for cross-border commodities from production, transport, inspection, to customs clearance
- Higher value: more transparent supply chain and enhanced enterprise reputation

HUAWEI CLOUD DCI Kit: Protecting Digital Copyright

Digital Copyright Identifier Kit (DCI Kit) has been released with HMS Core 6.0, and is available on Huawei Developer and shared in ecosystem.

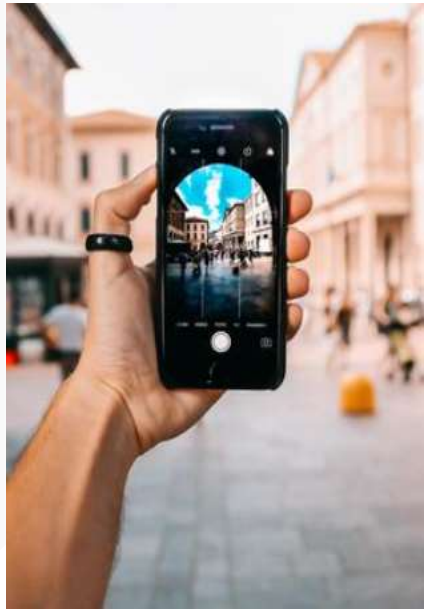


Efficient copyright application

Clear authorization

Standard copyright protection

Take a picture and apply for its copyright right away



Thank you.

Bring digital to every person, home and organization for a fully connected, intelligent world.

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