






SMART GOVERNMENT

Powered by ASIT

Accelerating Smart & Cognitive Public Services

People. Proactive. Personalized.

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By ChatGPT



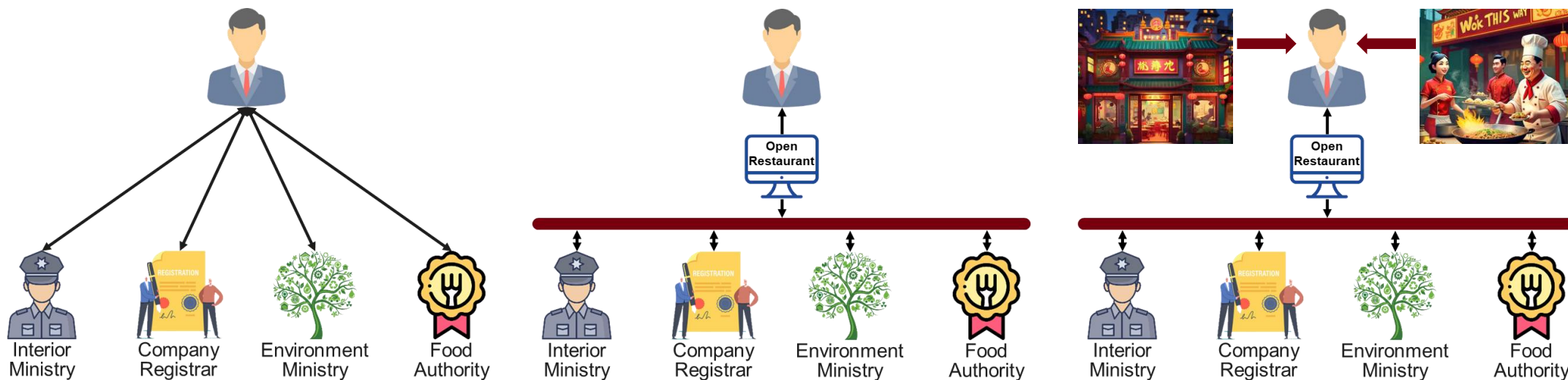
Digital Transformation Starts with People



A screenshot of an Inc. magazine article. The top left features the 'Inc.' logo in large, bold, black letters. To its right are the words 'NEWSLETTERS' and an orange 'SUBSCRIBE' button. Further right are icons for a person and a search function. Below the logo is the text 'SMALL BUSINESS WEEK'. The main headline reads: 'Opening a Restaurant in Boston Takes 92 Steps, 22 Forms, 17 Office Visits, and \$5,554 in 12 Fees. Why?' followed by a sub-headline: 'It's nearly just as bad in San Francisco, Detroit, Atlanta, and many other U.S. cities. The time is now to remove needless barriers to the American Dream.' At the bottom, it says 'BY VICTOR W. HWANG, FOUNDER AND CEO, RIGHT TO START @RAINFORESTBOOK' and 'MAY 9, 2022'.



Digital Transformation: People, Proactive, Personalized



Digitization



Improve Efficiency of Current Services

People-Centric

Digitalization



New Services under Current Mission

Proactive & Personalized

+ Intelligence



New Services under Enhanced Mission



Digital Transformation: City Transformation

Digital City

1990s



- Internet
- Offline to online
- Silo applications
- Spontaneous data sharing

Smart City

2000s



- IT-CT convergence, IoT
- People-centric services
- Software & hardware decoupling
- Data sharing

Cognitive City

2020s



- 5G, cloud, AI, cloud-native
- Proactive & personalized services
- Data decoupling
- Processes integration



2019-12-21 15:02:29

X-北



Evidence Video

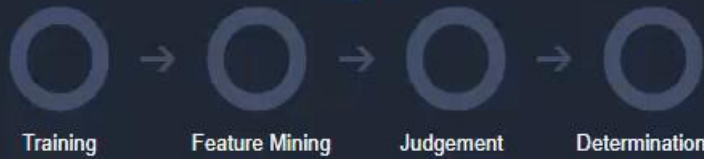


Assisted Accident Determination

Real-Time Analysis

Time Cost

0s



Date/Time XX:XX:XX xx:xx:xx

Location xxx intersection - xxx entrance - xxx lane - No. xxx

Description xxxxxx xxx xxxxxx

Suggestion xxxxxx Primary Liability

Additional info xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Influence Analysis Report

Influence Analysis

Location	Intersection	Road section	Flyover	
Time Period	Morning peak	Off-peak	Evening peak	Night
Vehicle	Single	Two	Multiple	
Pedestrian	No	Yes		
Non-motor vehicle	No	Yes		
Accident Duration	0 s			

Influence



2019-11-23 06:31:38

HuaweiSDC



0:01 / 0:18

Cognitive City



SIEMENS Siemens Advanta

Industries Capabilities Insights About Us Careers

BLOG

The Rise in Cognitive Cities, Buildings and Infrastructure as the Next Generation of Urban Management

Expert: Oliver Elbracht Published: October 2, 2023 Time: 7 minutes

pwc Transforming our Region Industries Services Insights & Media Careers About us Search

PwC Middle East > Publications > Cognitive Cities: A journey to intelligent urbanism

A journey to intelligent urbanism

Cognitive Cities

Publication | November 07, 2023

Share

Digital Transformation: Public Services

Digitization

Digitalization

+ Intelligence

Healthcare



Hospital-Centric

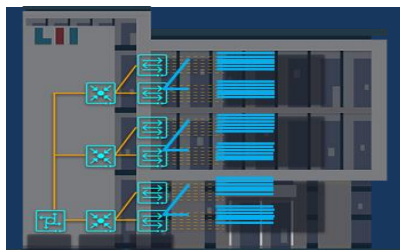


Patient-Centric



AI & Preventive

Education



School Connectivity



Smart School/Classroom



Intelligent Hybrid Learning

Taxation



Tax Silo Systems



Taxpayer-Centric



AI Fraud Detection

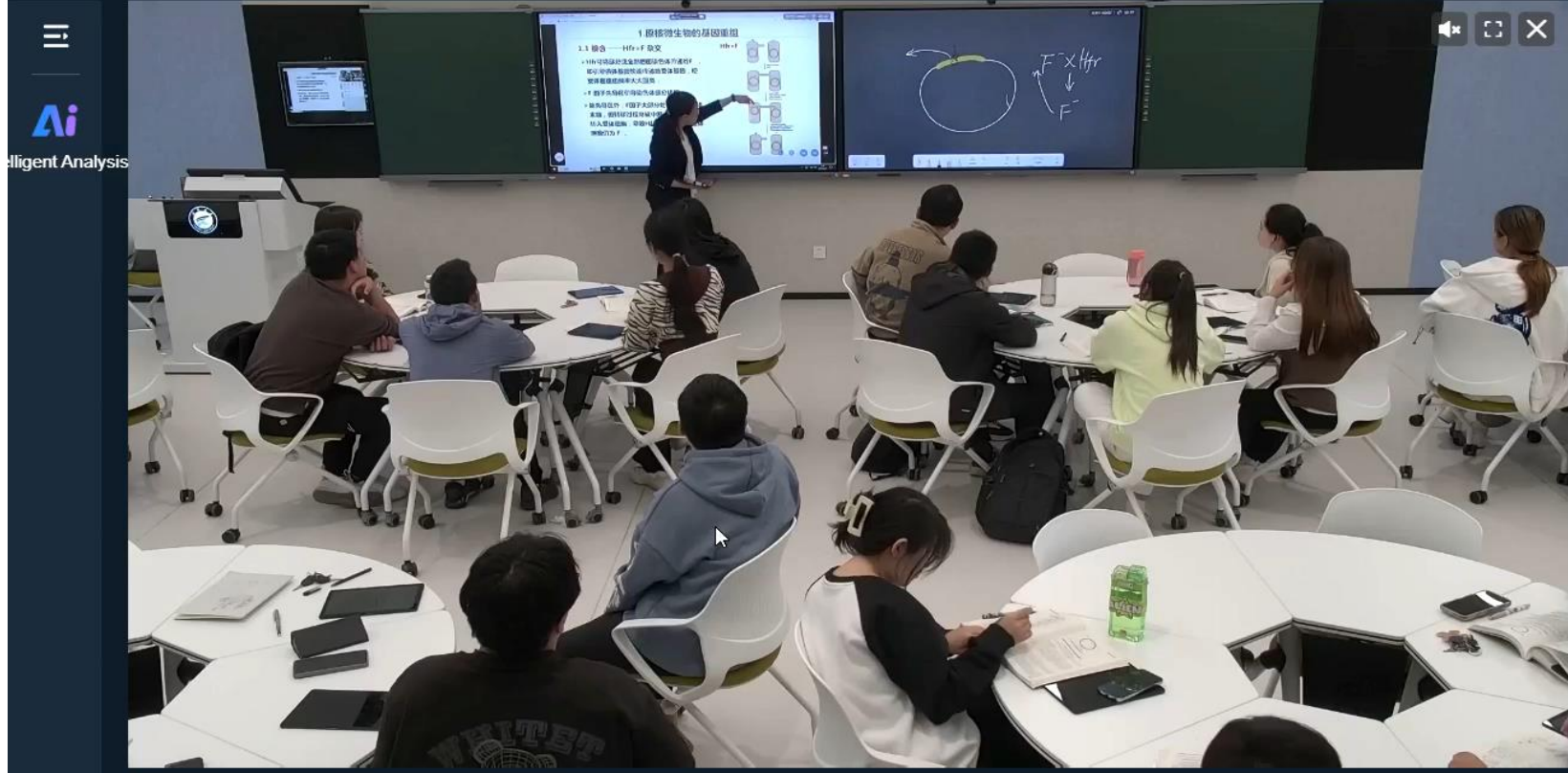
Social Security, Postal Service, Emergency Management, Judiciary, etc.


Smart/Virtual Classroom: Intelligent Hybrid Learning

农业微生物学及实验

Instructor: 顾老师 Lecture Time: 2024-05-24 09:50 - 10:31 Lecture Classroom: 东区 逸夫楼 未来教室 419 Class: 农学2022级

Publish Analysis Report Lecture Videos: 0 Review Lecture

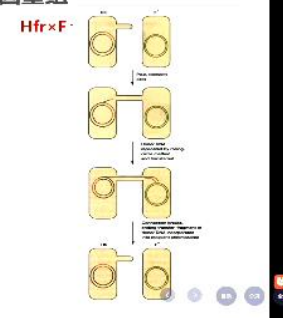




1.原核微生物的基因重组

1.1 接合——Hfr×F⁻杂交

- Hfr可将部分或全部细菌染色体传递给F⁻，即引导供体基因快速传递给受体基因，使受体菌重组频率大大提高；
- F⁻因子先导区引导染色体部分转移。
- 除先导区外，F因子大部分处于转移染色体末端，因转移过程常被中断，故F因子不易转入受体细胞，导致Hfr×F⁻杂交后的受体细胞仍为F⁻。

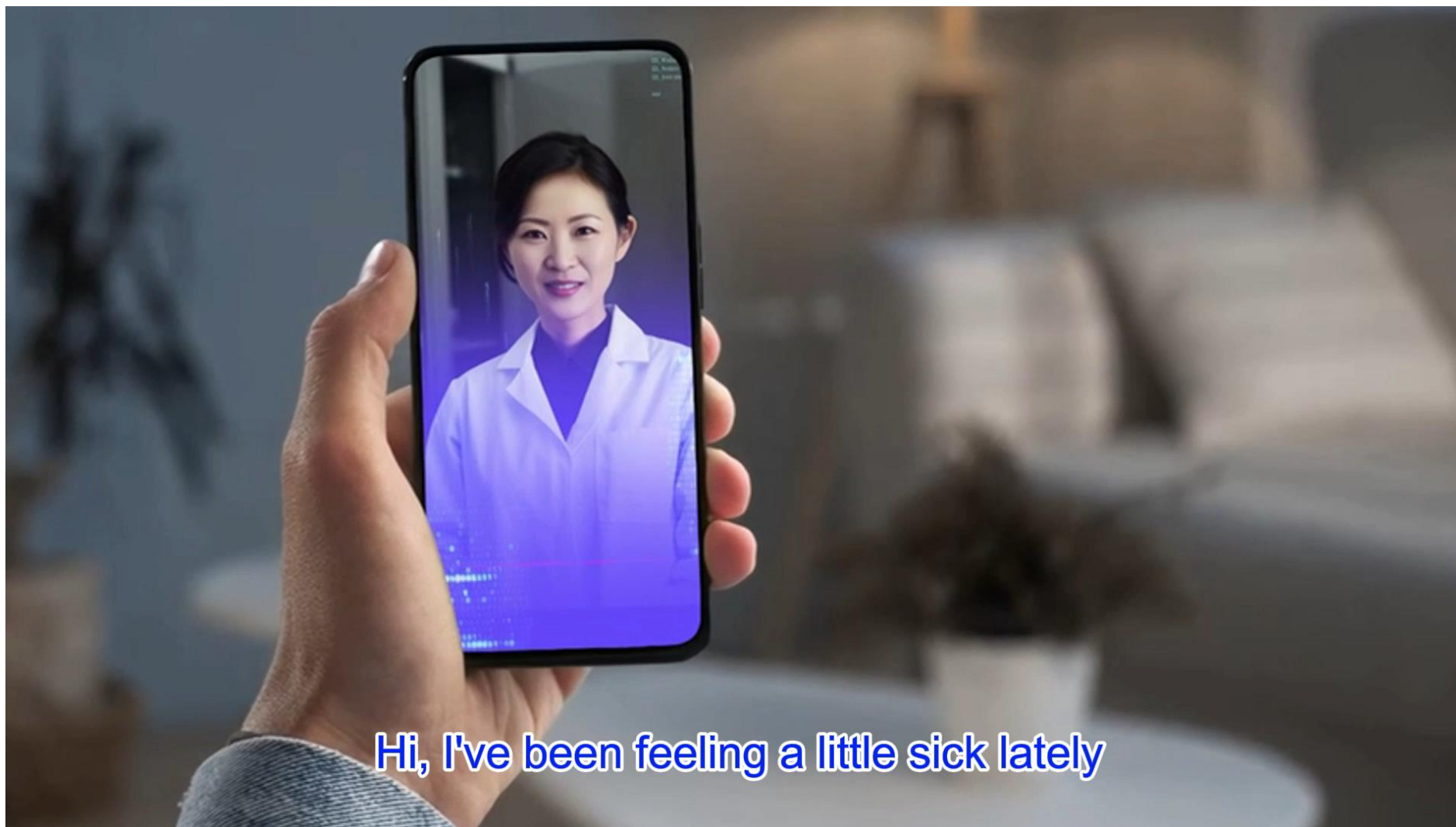


那么中间红色的一段儿往那边转转转转

00:38 / 41:15

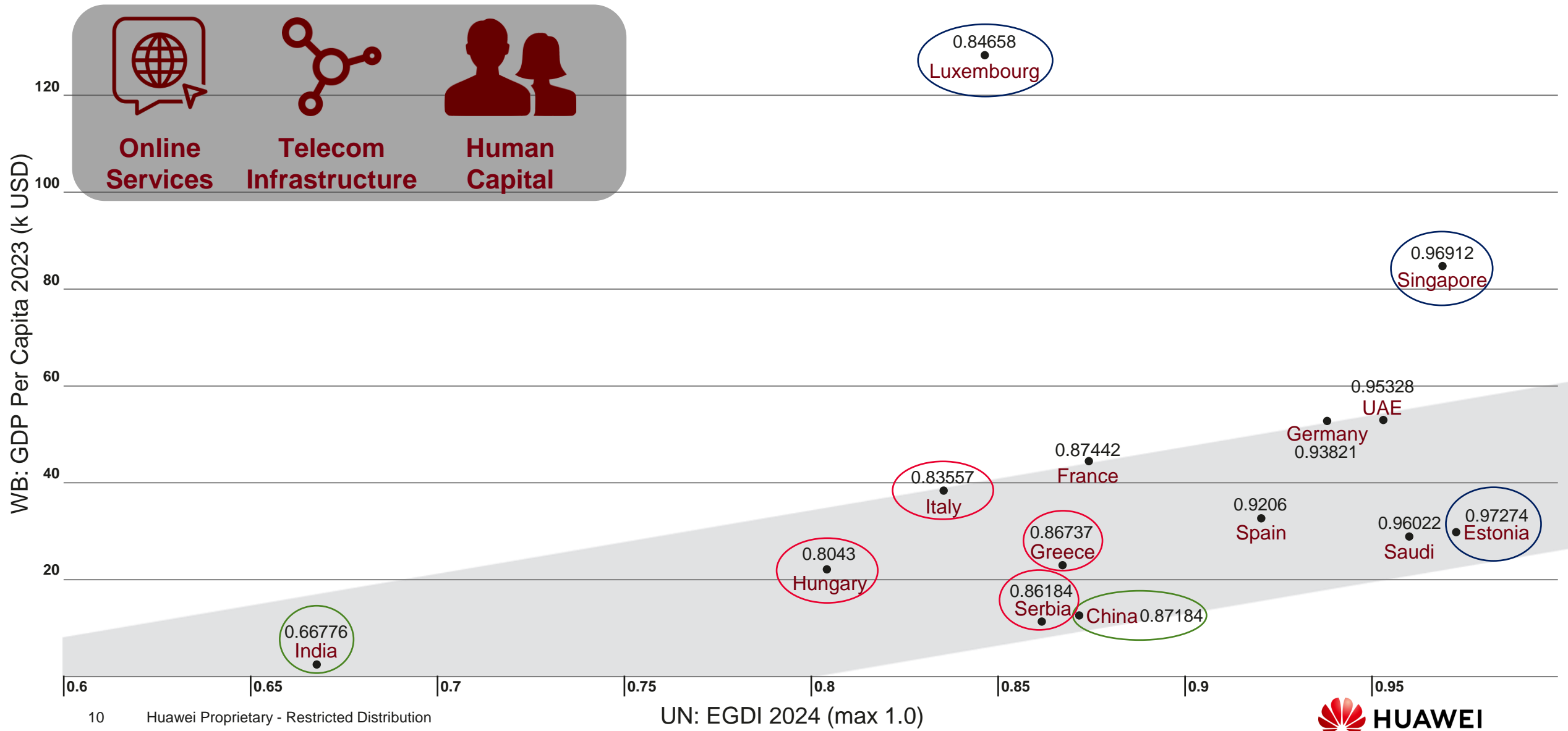
Closed Captions Knowledge Nodes 1X [Icons]

Digital Human: Full-Cycle Patient Care



- Symptoms consultation
- Request picture & analyze
- Remote monitoring
- Advise to see doctor
- Care & preventive advices
- Recommend hospital, doctor & availability
- Make appointment
- Generate preliminary report
- Advise visit details

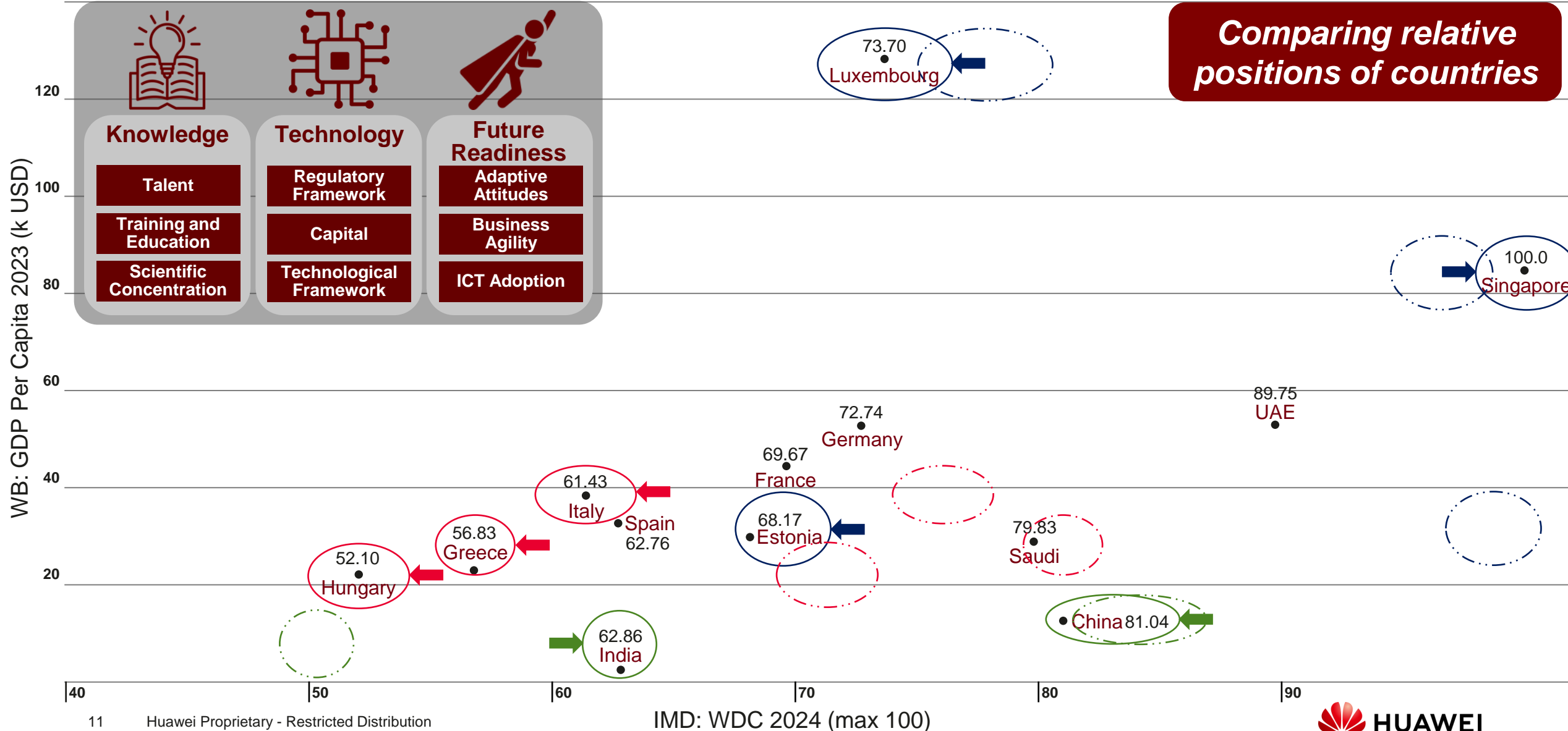
EGDI (E-Government Development Index) 2024



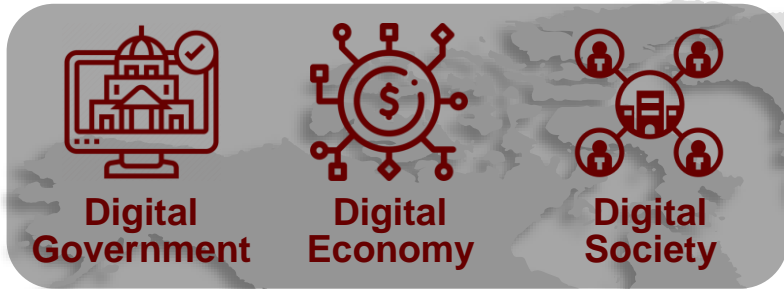
International Institute for Management Development

WDC (World Digital Competitiveness) 2024

Comparing relative positions of countries

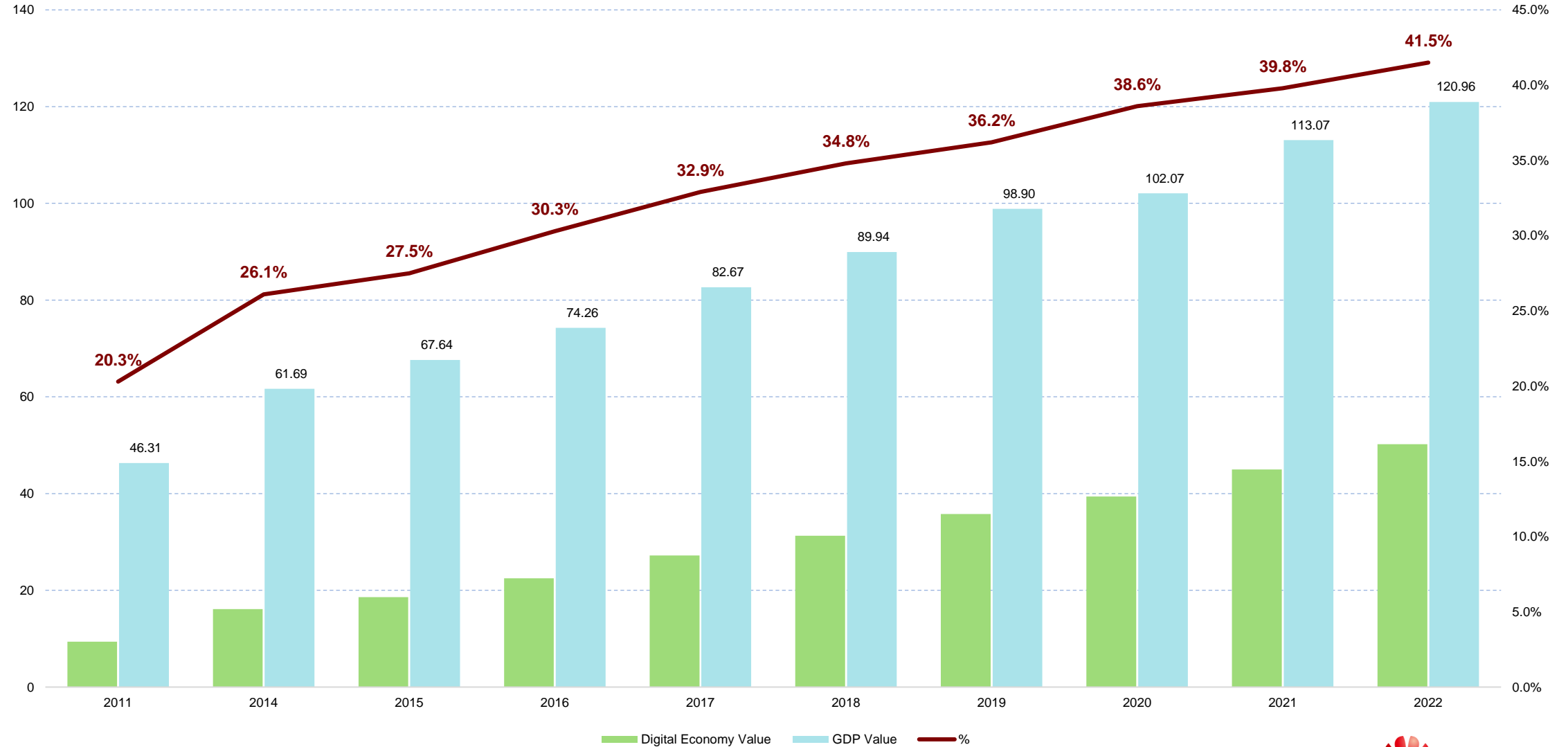


National Vision, Digital Agenda & AI Strategy



China's Growth in the Digital Economy

GDP CNY Trillion



China's Digital Transformation Achievements



Digital Society

Education

- 100% schools connected, serving 18.8 million teachers, 293 million students and learners
- 27,000 MOOC courses in higher education
- 10,000+ online courses in vocational education

Healthcare

- National health insurance platform
- Connecting 800,000+ hospitals, covering 1+ billion persons across the country
- E-social security card services total 15.1 billion times
- Coverage rate of telemedicine at the prefecture level reaches 100%
- Number of online medical users in rural areas reached 68.75 million



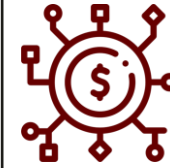
Digital Government

E-Government

- 92.5% of government services online, including "one matter one time" service
- More than 700 electronic licenses

Global Ranking

Index	2008	2020	2023
EGDI ranking	65	45	35 (2024)
GII ranking	37	14	12 (2023)
NRI ranking	57	29	20 (2023)
GCI ranking	30	28	-
Prosperity Index	64	64	54 (2023)



Digital Economy

Major GDP Contributor

- 41.5% of GDP from the digital economy
- Digital economy growth contributes 66.45% to GDP growth
- Digital economy created 200 million jobs, which is 25% of total employment

Lighthouse Factory

- 62 "lighthouse factories" have been built, accounting for 40% of the world's total

Retail

- Online retail sales reached CNY 15.42 trillion, up 11 percent year on year
- Number of e-commerce employees exceeded 70 million
- Rural online retail sales reached CNY 2.49 trillion

National Digital Transformation Objectives



Digital Society



Digital Government



Digital Economy



Inclusivity



Safety & Security



Competitiveness



Lifelong Education



Quality Public Services



Digital Hub



Better Healthcare



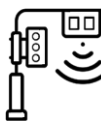
Electronic ID



Electronic Commerce



Lower Unemployment



Smart Transportation



Smart Manufacturing

Etc.

Etc.

Etc.



Device



Connectivity



Compute



Data



Cloud

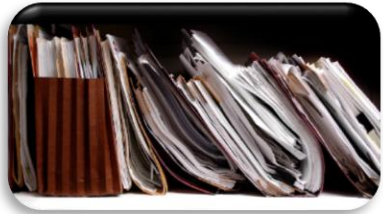


AI



Security

Common Operational Challenges



Paper-based



**Poor
Connectivity**



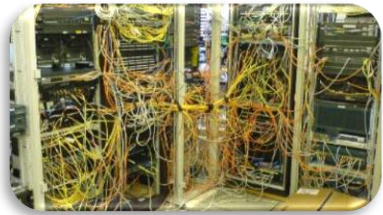
Silo Systems



**No Information
Exchange**



Digital Divide



Heterogeneous



**Cybersecurity
Threats**



**Rigid Laws &
Policies**



Skill Mismatch



Budget Source

Public Sector Digital Transformation Critical Success Factors



**Vision &
Leadership**



**Governance &
Structure**



**Law &
Regulation**



**People &
Culture**



**Operating
Model**



**Security &
Sovereignty**



**Data
Strategy**

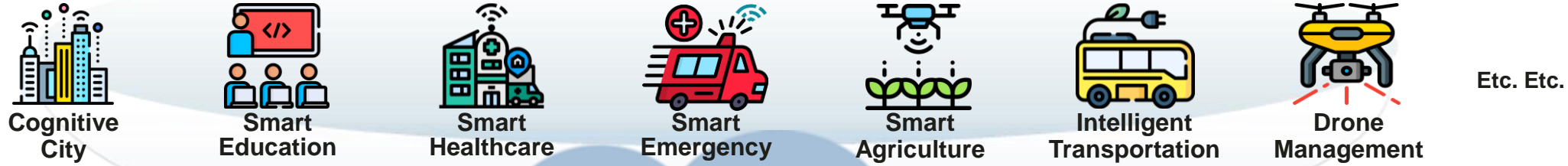


**Technology
Ecosystem**

Huawei Reference Architecture for Intelligent Transformation

Technology Ecosystem

N
Use Cases



One Cloud

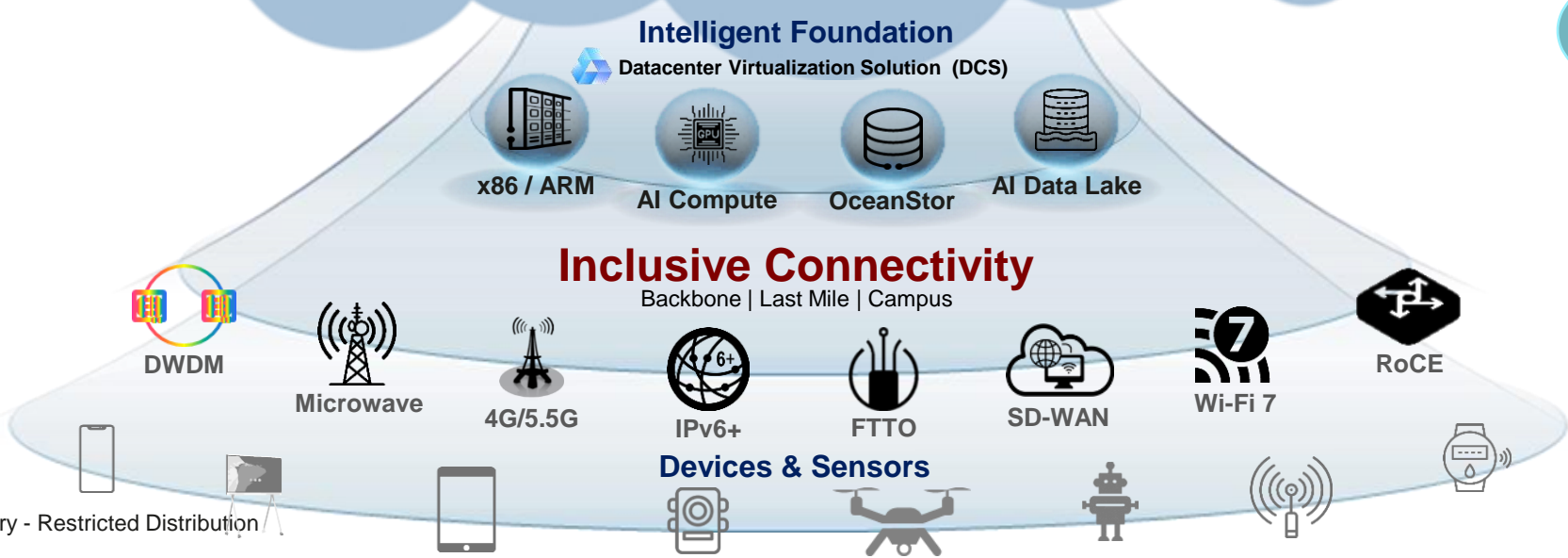
- Resource Sharing and On-Demand Allocation
- Unified Data Sharing and Governance
- High Value Components Enabling All Use Cases
- Agile Development of Applications
- AI Enablement



ICT Talent Development

One Network

- Secured & Always On Network
- IT-CT-OT Convergence
- Full Mobility
- Ready for AI Computing



iMaster NCE
Smart O&M

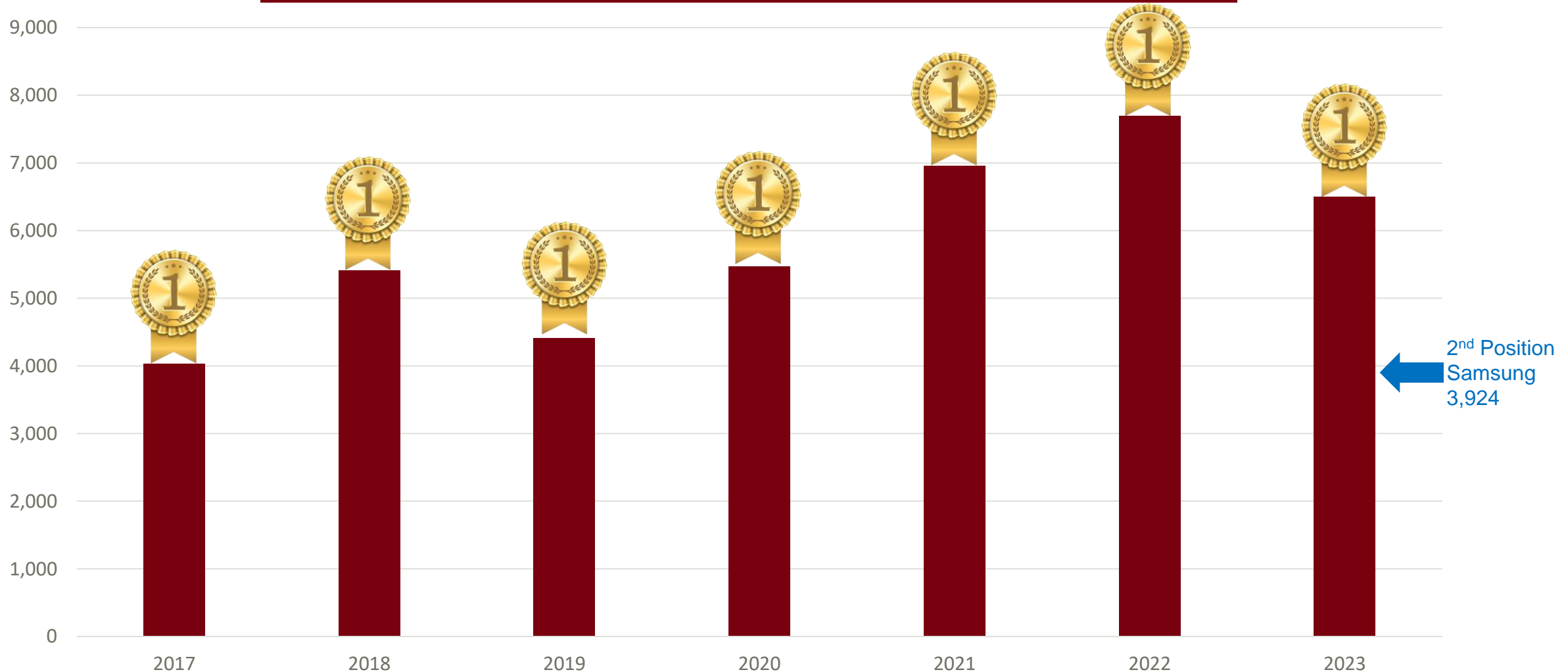
End-to-End Security

WIPO Patent Cooperation Treaty (PCT) Applications

Innovation is in Huawei's DNA

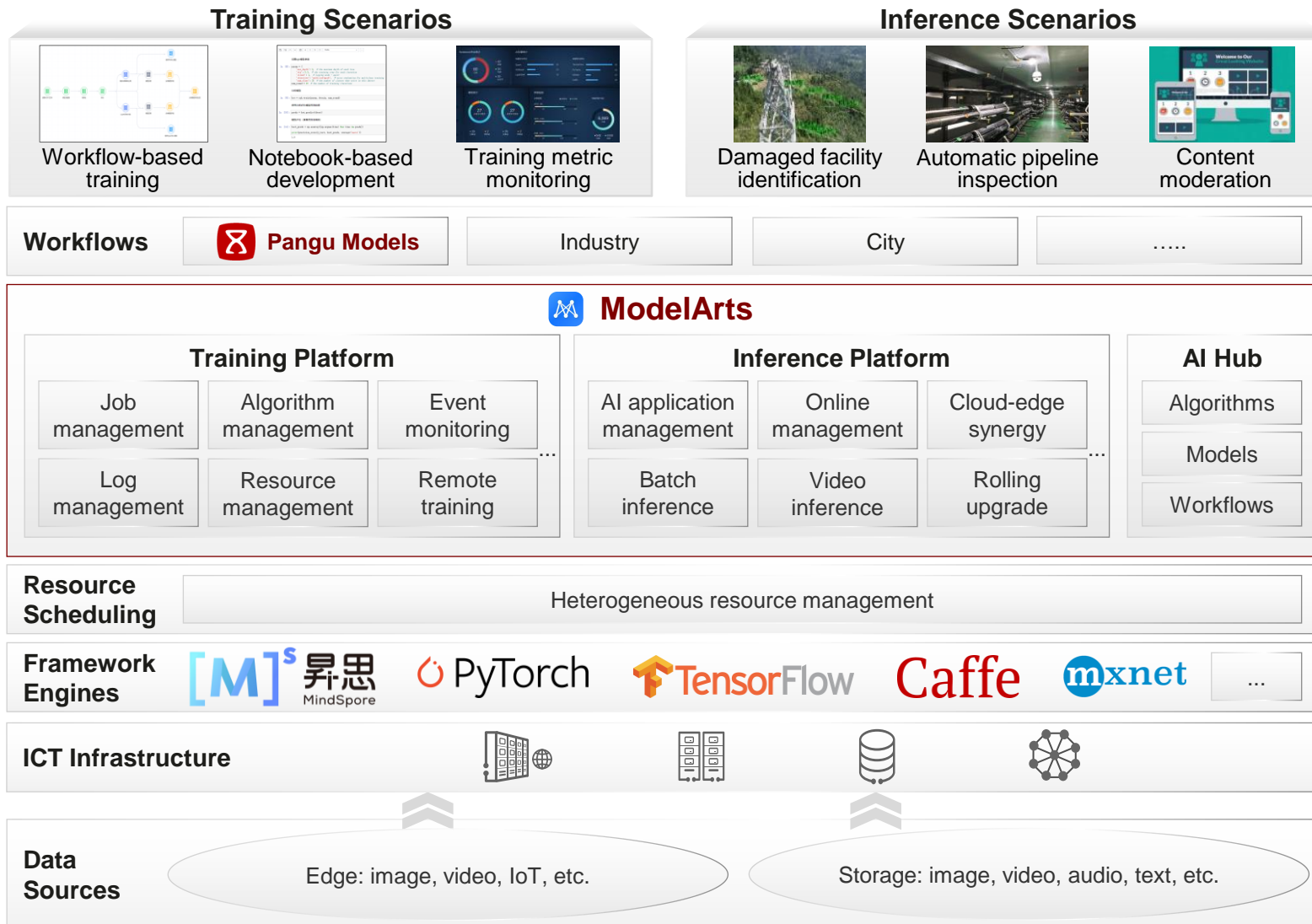
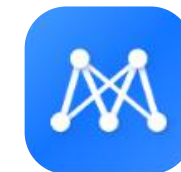


World's Number One for the Seventh Consecutive Year!



Innovation is in Huawei's DNA

ModelArts: Easy, Fast & Efficient AI Development



Efficient full-process AI development in all scenarios

- Flexible capability combination and effective reuse of industry know-how practices
- All AI assets and workflows shared through AI Gallery
- Zero-cost migration with mainstream and Huawei's framework engines

Multi-architecture computing and efficient resource utilization

- Unified management and full hardware enablement: general-purpose compute and AI compute
- Cloud-device synergy and dedicated AI networks
- Cloud-native AI computing power

Innovation is in Huawei's DNA

AI Use Cases



Saving the rainforest



Robots for greener planet



Smarter supermarket



Super scavengers



Rough handling detection



Fighting detection

Innovation is in Huawei's DNA

Supporting Net Zero Agenda

Clean Energy



Smart PV

↑ 2.3%
Efficiency



DriveOne

↑ 8.5%
Cruising Range



Smart String ESS

↑ 15%
Efficiency

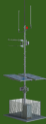


FusionCharge

1 km/s
Charging

Carbon Conscious Technologies

Site/Edge



RuralStar

↓ 60%



iSuperSite

↑ 30%
Efficiency



Wi-Fi + IoT

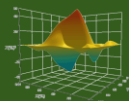
↓ 50%

Connectivity



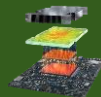
All-Optical

↓ 60%



iLossless

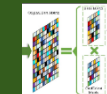
↓ 47%



NetEngine

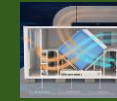
↓ 30%

Data Center



Storage

↓ 70%



iCooling@AI

↓ 1.12
PUE



FusionPower

↑ 97.8%
Efficiency



Reducing Emissions



Renewable Energy



Circular Economy

ICT Talent Development

The Important Grape in Promoting ICT Talent Ecosystem Construction and Leading Industry Development Forward




Improve Professional Competitiveness

Expanding Employment Opportunities

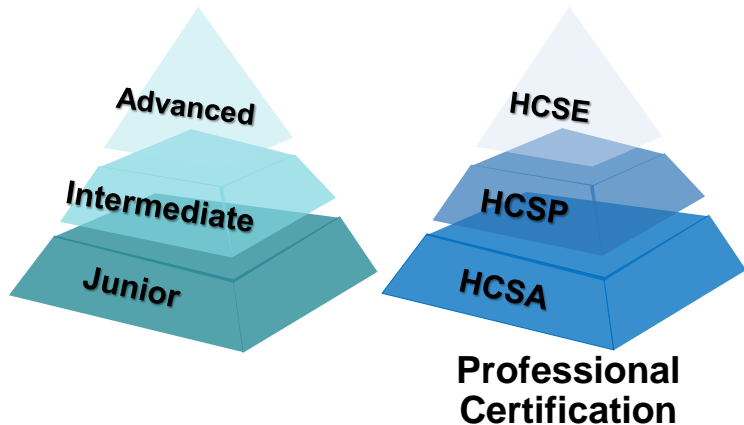
Improve Work Skills






Accredited by the Industry

Huawei Career Certification

Cloud Platform & Services	Cloud Computing	Cloud Service	Big Data	GaussDB	IOT	 Huawei Certified ICT Expert  Huawei Certified ICT Professional  Huawei Certified ICT Associate
Software & Hardware	openEuler	openGauss	HarmonyOS	AI	Kunpeng	
ICT Infrastructure	Storage	Collaboration	Intelligent Vision	Digital Power	MDC	
	Datacom		WLAN		Security	
	Transmission			Access		
	5G			LTE		

Huawei provides 66 certifications and 83 exams in 22 technical directions, providing broad career options and clear career development paths for ICT practitioners.



On-Site			Digital	Practice
				
Lecture	Workshop	Practical	Online MOOC Online Experiment	Research Competition OJT

Serving Public Sector & Government Customers in 120+ Countries



Anytime, Anywhere, Never-Down Public Services

Autonomous Region (>8m Pop.) of a Major European Country

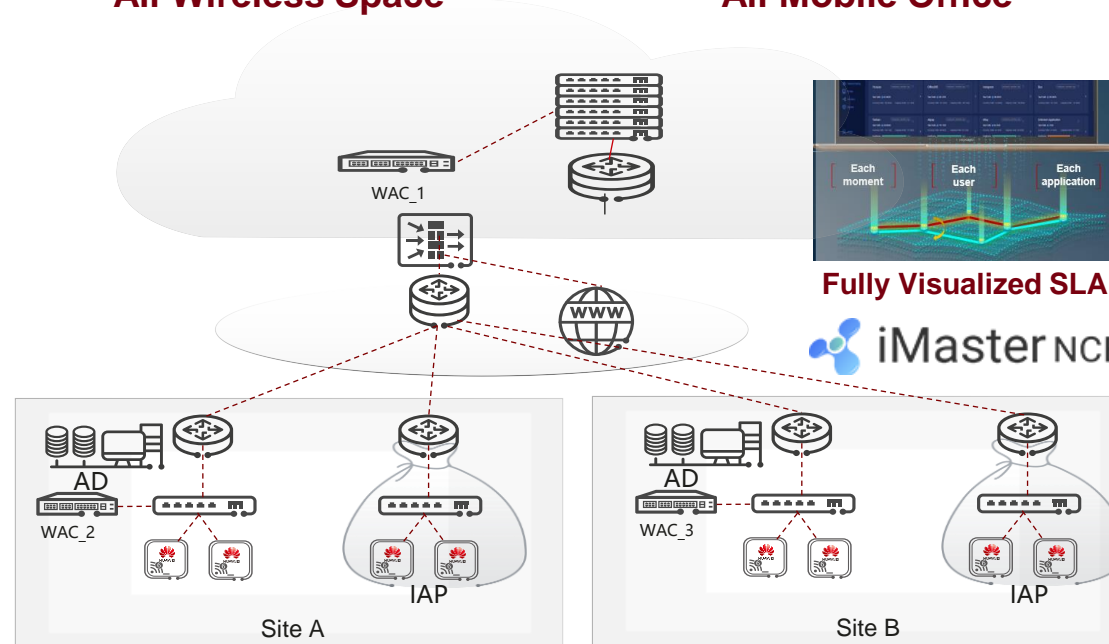
- World's largest government campus project
- **6,000+** offices
- Providing services for **200,000** civil servants
- Enable customers to enter the mobile office era



All Wireless Space



All Mobile Office



Never-Down Services

All wireless with wired-like experience, 3D planning and seamless coverage

Work Anytime, Anywhere

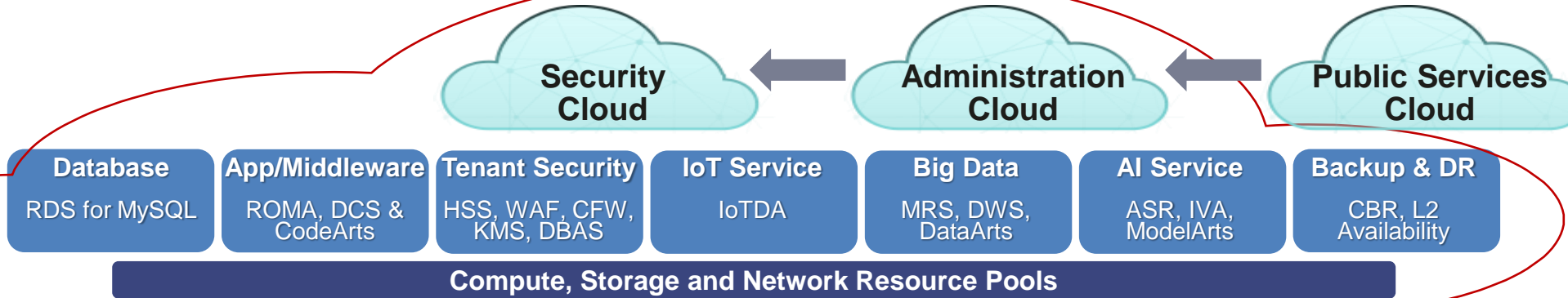
One SSID unified access, free mobility across offices, to better serve the people

50% TCO Reduction

Network visualization; Locating faults in minutes; Reducing CAPEX by 50%

Secured & Sovereign Cloud & AI

Country with >80m Population



National Data Platform

- National data exchange platform
- Government big data
- National basic databases

National DRaaS

- Intensive development and sharing
- National unified DR center

National AI Platform

- Local language recognition
- Intelligent analytics
- Geographical perception

30+ Ministries

15+ Industry Scenarios

20+ Internal Applications

ASR R&D Costs
↓ 80%

85% ASR Accuracy

Gene Analysis
Accuracy **↑ 8%**

Sustaining Digital Future with ICT Talent Development

Oman Ministry of Labour



Institutional initiatives for **future-ready workforce** skills



Public initiatives for upskilling and reskilling in **lifelong learning**



Partnership initiatives for **industry-aligned skills** training



Makeen

Programs of study in leading institutions
10,000 skilled Omanis by 2025



Qudrat

Unified National Framework
Digital platform for all learners



Etimad

10,000 Omanis in the private sector
Middle and senior management positions

**Technology
Boot Camps**

**Policies, Regulations &
Action Plans**

**Research &
Innovation**

**Digital
Infrastructure**

Digital Transformation Journey

Governance

- Laws & Policies
- Organization & KPIs
- Highest Level Driver
- Budget & Ops Model

Digital Culture

- Inclusiveness
- Lifelong Literacy
 - Reskilling
- Data Scientist

Digital Ecosystem

- Local Developers
- Joint Innovations
- Everything-as-a-Service
- Research & Development

Sustainability

- Return on Investment
 - New Services
 - Efficient O&M
- Net Zero Agenda



Digital Infrastructure

- Backbone, Inclusive Connectivity & Campus Network
- Data Centers & Sovereign Cloud
 - Data Strategy & Hubs
 - Cybersecurity

Digital Services

- Prioritization
- People-Centric
- Proactive & Personalized
- Digital & AI Enabler

Thank you!

Hong-Eng Koh
Global Chief Public Services Industry Scientist

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把数字世界带入每个人、每个家庭、
每个组织，构建万物互联的智能世界。

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

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