



MEKONG  
INSTITUTE



# Leading Infrastructure to Accelerate Education Intelligence

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# Digital Skills in High Demand: Thailand Anticipates a 500,000 Talent Gap

## APAC Talent Gap in 2030



**+550%**

growth in **demand for digitally skilled workers**  
**across APAC countries** by 2025



**47 m**

**talent gap in APAC** by 2030 – all major economies in  
the APAC region will face a shortage of talent by 2030



**0.5 m**

**talent gap in Thailand** by 2030, if no proactive  
action is taken

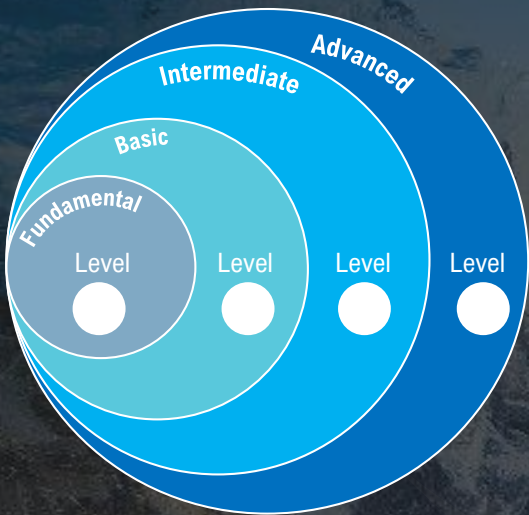


■ Acute deficit 8 million or greater ■ Significant deficit 4 – 8 million ■ Deficit 0 – 4 million ■ Surplus

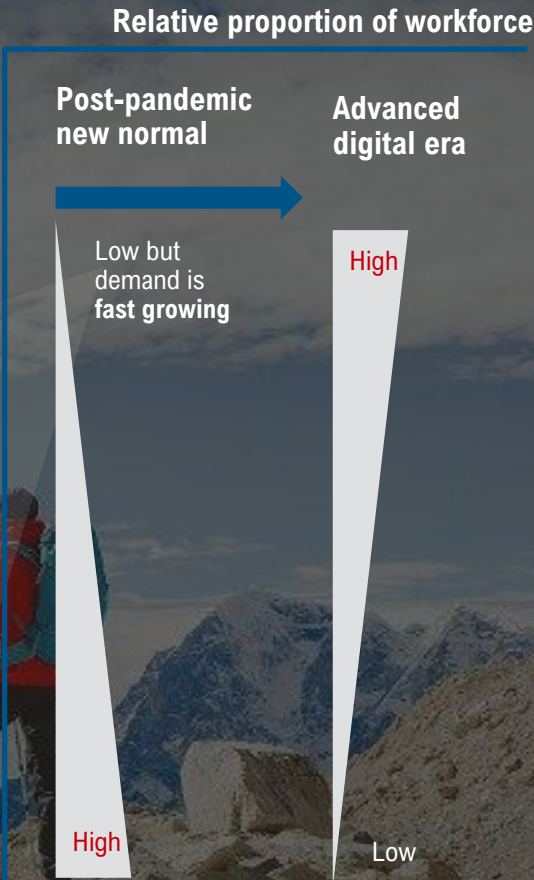


# Transforming Thailand's Future: Empowering Digital Skills from User to Creator

Shift in digital skills level from heavy focus on level 1-2 towards level 3-4



Digital skills level	Definition	Skills example
<b>4 Advanced</b> Digital specialists	Able to <b>create and develop digital solutions</b> that create new value	<ul style="list-style-type: none"><li>• <b>Design &amp; Architecture</b> (e.g., UI/ UX)</li><li>• <b>Development</b> (e.g., AI/ML, big data, IoT, 5G, cloud and app development etc.)</li></ul>
<b>3 Intermediate</b> Digitally proficient workforce	Able to use digital tools to <b>generate meaningful insights</b> that add value to existing industries	<ul style="list-style-type: none"><li>• <b>Digital marketing</b> and basic website development</li><li>• <b>Business intelligence (BI)</b> reporting</li></ul>
<b>2 Basic</b> Digitally literate workforce	Able to <b>use digital tools</b> to find, create and communicate information at work	<ul style="list-style-type: none"><li>• <b>Productivity tools utilization</b> (Microsoft Office, email)</li><li>• <b>Digital workplace skills</b> (video conferencing)</li></ul>
<b>1 Fundamental</b> Workforce with basic digital skills	Able to use digital tools and <b>participate in digital society</b> in daily life	<ul style="list-style-type: none"><li>• <b>Hardware operations</b> (basic operation functions, maintenance)</li><li>• <b>Navigating apps &amp; internet</b> (basic search engine, social media)</li></ul>



# Smart Transformation and Evolution of Universities



Smart universities: data sharing, service collaboration, precise decision-making, and efficient operation



# Huawei Intelligent Education Solutions, Accelerating Digital Transformation

## Next-Gen Scientific Research

Improves research and shares information.



### NREN

Intelligent, simplified, secure, and ultra-broadband



### HPDA

OceanStor Pacific series,  
Cloud Fabric 3.0 hyper-converged data center network

## Next-Gen Campus Network

Operation efficiency  
Improvement



### 10G Campus Network

Fully Wireless Campus  
WiFi 7

Energy Saving with  
ESG Concept



### Green Campus Network

FTTO

Student and Teacher  
Experience improvement



### Digital platform

Data platform, Capability  
platform

Research

Network

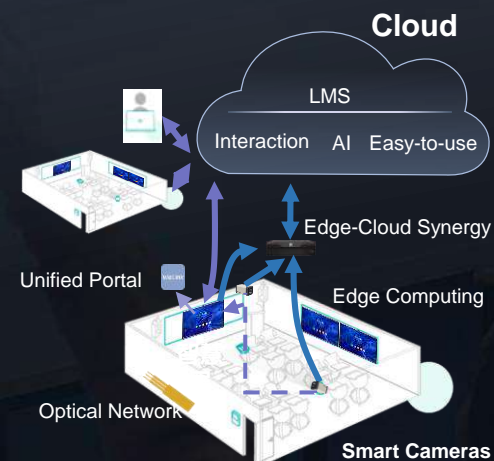
Services

Digital  
Services

Teaching

## Next-Gen Learning

Students-centric, Extends the  
classroom boundary.

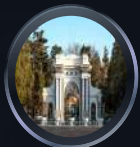


## Talent Development



### Huawei & Partners ICT Academy & Digital Lab Platform

- Covering more than 170 countries
- With a rich teaching content



### More than 2600 universities and more than 11 thousand teachers

- ICT Digital Lab Platforms
- Update talent training plan with ICT technologies



### More than 200 thousand Students joined per year

- ICT Skills
- ICT Jobs

# Next-Gen Campus Network: Never Stop Pursuing Better Experiences

## Traditional Online E-Learning



1080p 60 FPS  
~10 Mbps

ADSL + 4G

## Immersive "Meta Learning"



4-8K 60 FPS  
~200 Mbps

5G + WiFi 6

## Collaborative Physically and virtually integrated

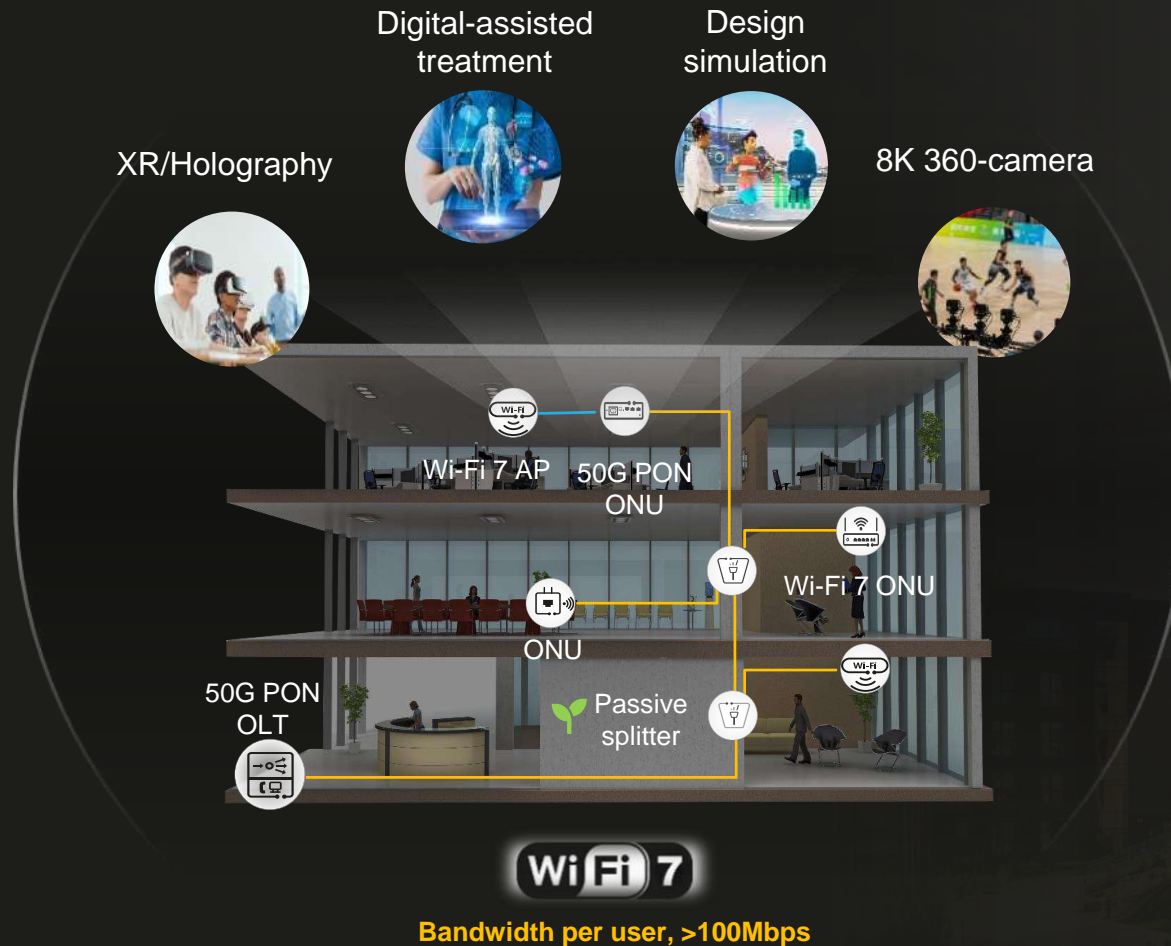


64K 6D 120 FPS  
~10 Gbps

5.5G + WiFi 7



# Next-Gen Campus Network: 10Giga Smart Campus with Digital Experiences



Holographic  
interactive design  
**> 1 Gbps | < 10 ms**



Vehicle crash  
simulation  
**10 Gbps | < 20 ms**

# Next-Gen Learning: Improves Learning Experience



Huawei Cloud meeting

Digital Classroom

Group Discussion Classroom

AI Personalize Learning



# Next-Gen Learning: New Experience & Learning Everywhere



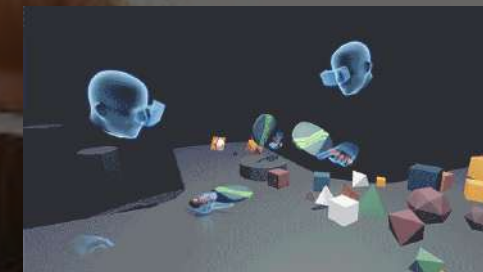
live streaming or broadcasting



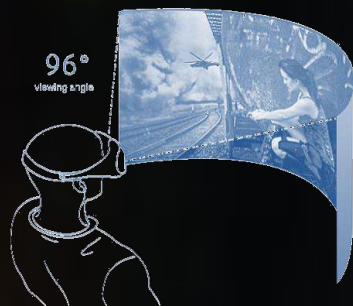
education



social network

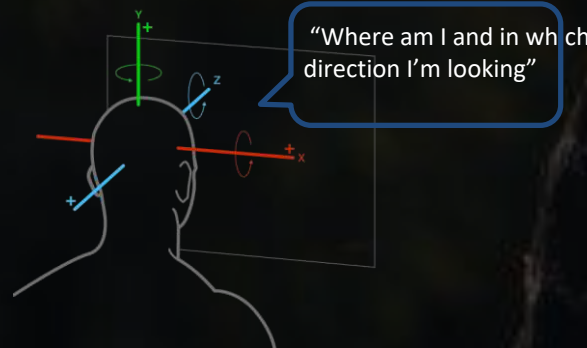


gaming...



Video + Audio  
surrounding experience

~ 40mbps



Immersive + Interactive  
experience

100m ~ 9.4Gbps

VR recovers world  
From 360 to CG,  
3D  fill the pipe

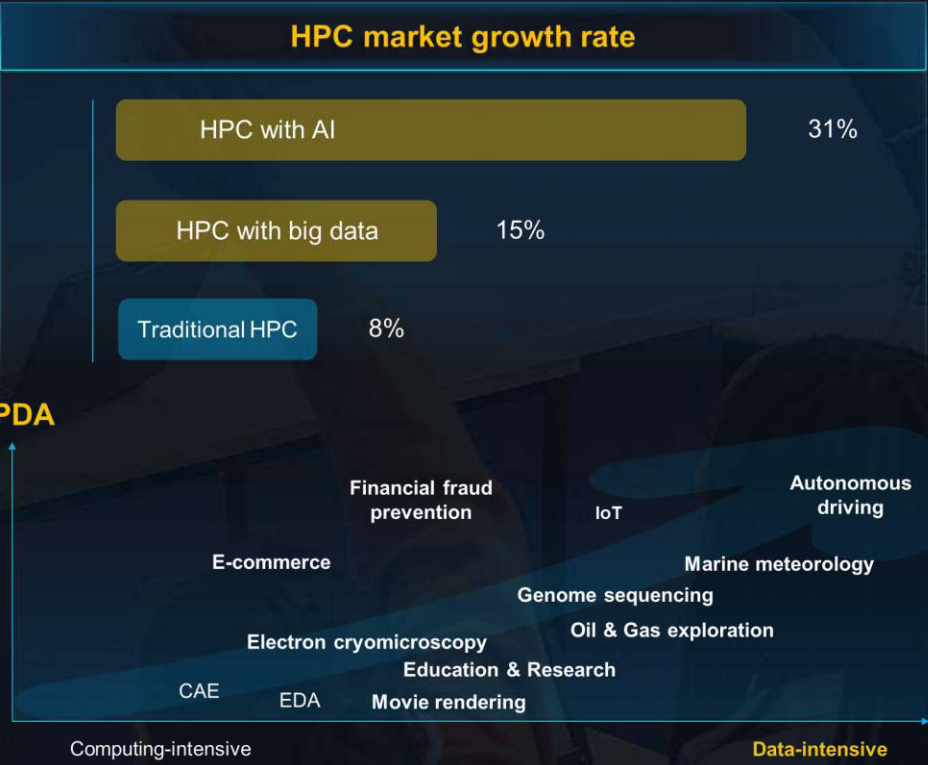
# Next-Gen Scientific Research: High Performance Data Analytic

## HPC Industry Evolves Towards Data-Intensive HPDA

HPC becomes an important driving force for social progress

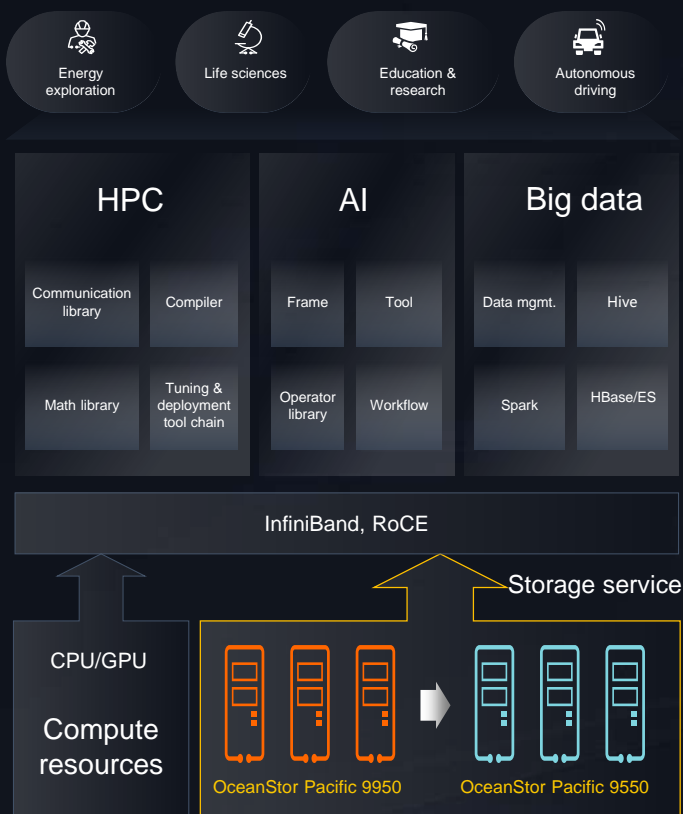


HPDA





# Next-Gen Scientific Research: Medical Research Center with HPDA

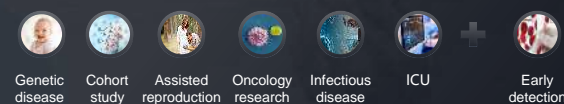


**High Speed  
Data Transfer  
8Gb/s**

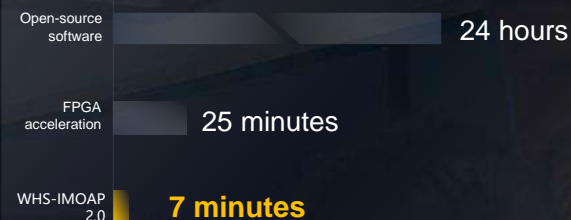
**Protocol  
Interworking Data  
Transfer**

**AI Data  
Management**

Case: high-performance genomic analysis



Time to analyze **30X human WGS**  
(Whole Genome Sequencing) germline  
mutation



**7 mins**

**Human WGS data analyzed  
within minutes for the first  
time**



Ranks among the top 1‰,  
Essential Science Indicators  
(ESI)-Clinical Medicine, by  
Clarivate Analytics

# Accelerating Digital Transformation with Huawei Intelligent Education

## Next-Gen Learning



Digital/VR Classroom

## Next-Gen Campus Network



Brand New WiFi 7

## Next-Gen Scientific Research

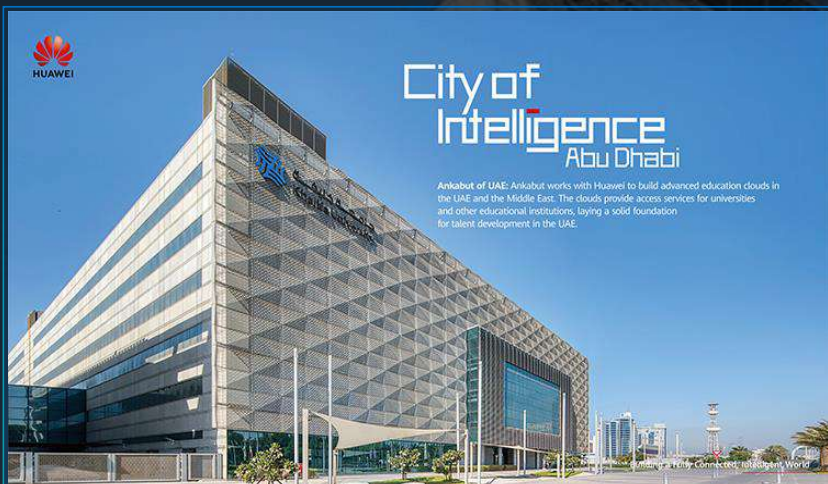


High Performance Data Analytic

Talent Development



# Ankabut (UAE): Full-Stack Education Cloud Builds a Core Hub for Education and Scientific Research in UAE



## Customer benefits

Integrates ICT and data assets to improve decision and mgmt efficiency.

Implements cloud transformation and provides Comprehensive and high-quality cloud services.

Solutions: HCS hybrid cloud platform, SDN network, and all-flash OceanStor Dorado 18000

## Features

- **One cloud with multiple pools**, managing multiple cloud vendors' resources and maximizing the customer's ROI
- Intelligent, simplified, secure, and open digital network platform **for unified management**

## Advantages

- **Comprehensive Education Services** with open and high-quality education cloud platform: 20+ out-of-the-box cloud services
- **High Speed Content Delivery** to University and Student by Super High Speed and Super Low Latency (0.1 ms latency)
- **Fully Automate Infrastructure** with SDN: Reducing O&M costs and complexity for more efficient scientific research

# Thank you.

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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