



Use Case

- · Naked-eye 3D for big/small screen
- XR (Cyberverse)
- · Digital Human

Cloud & Platform

- · XR Platform (Envision)
- Digital Content Production Line (Metastudio)
- Enabling Service, e.g. Block chain, Fintech, Al training (ModelArts)

Experience

- Target Network (GUIDE)
- · Advance Solution, e.g. game accelerating, 5G slicing, security etc.
- · Innovative Product, e.g. 5.5G, FTTR, Wi-Fi6 etc.

Device

- XR Glasses (Alice)
- Device Computing (AR Engine)
- HarmonyOS
- · Smartphone / Big Screen / PC / Sensor

Root Technology

- Collection (3D audio/video) collection, Full view image collection)
- Chipset (NPU, Cloud GPU, Display)
- Data Governance
- Interaction & Sensing

Foundation

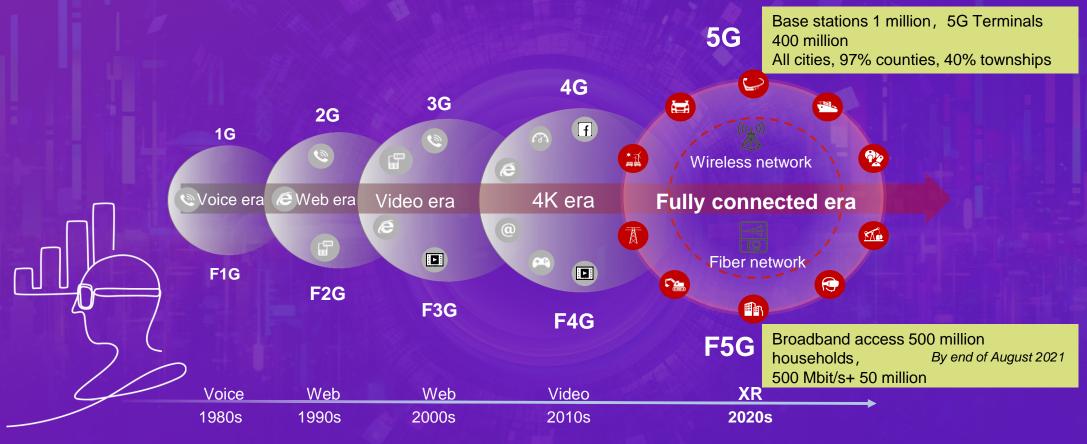
Persist with Heavy R&D Investment (No.2 in ICT Industry)

for long term leading innovation and invention (\$ 23.2 billion annual R&D investment in 2022)

Noah's Ark lab Bohr Planck lab Network technology lab DC technology lab Thermal lab Structural material lab ...

2023世界人工智能大会

WORLD ARTIFICIAL INTELLIGENCE CONFERENCE





Cloud XR Track Near 400 Project

5G Application Innovation Competition



Launched in September 2021

F5G Application Innovation Competition



5.5G increases XR capacity by five times and lowers the threshold for popularizing XR services

2023世界人工智能大会
WORLD ARTIFICIAL INTELLIGENCE CONFERENCE

All-round XR enhancement for 5.5G

eMBB RTBC UCBC 10 Gbit/s capacity 5x XR Capacity **Uplink ultra-**Broadband realbroadband time interaction **mMTC URLLC** Passive IoT 30x Capacity **HCS** Communication **Awareness** Convergence Synaesthesia, positioning

Network applications sense each other and implement end-to-end intelligent



5.5G large space VR digital intelligent athletic verification





Multi-user: 10 vs 10, multiplayer smooth competition via one 5.5G cell

Backpacking: Local VR to Cloud VR

High

Quality HD

53 PPD

90% DCI-P3

2023世界人工智能大会

WORLD ARTIFICIAL INTELLIGENCE CONFERENCE





HUAWEI Vision Glass

Intelligent Video Glass











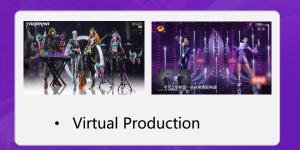


MetaStudio four production lines, build pottom-level root technologies, open up new industry space

23世界人工智能大会

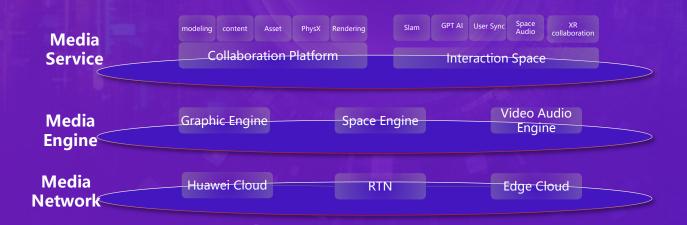
WORLD ARTIFICIAL INTELLIGENCE CONFERENC













MetaStudio four production lines, build bottom-level root technologies, open up new industry space

2023世界人工智能大

WORLD ARTIFICIAL INTELLIGENCE CONFERENCE

Digital Idol 'Al ling'



Case

CMHK Virtual spokesperson "Joy-E"



MetaStudio Digital Human Production Line

Modeling

- photo/ Camera matrix automatic modeling, TTM for hyper realistic digital human from 1 month to 1 week
- 5000+ digital human asset

Binding & Action

- Video/audio/AI based digital human action driven
- Digital human AI brain, enabling natural interaction

Auto Modeling



Auto Face Pinching



Video/Audio Driven



Al Brain



Rendering

- Huawei 3D MetaEngine, real time rendering
- Al offline rendering, reducing 80% TTM

Realtime/offline Rendering







Virtual-real Converged Production: provides virtual-real converged video production solutions with film and television quality



Case

Hunan TV Station 2023 New Year's Eve Party



Shenmengchen & Fansiqi Digital Human Concert



Virtual Production Product Line



Scene Creation & Mgmt





Virtual-Real Integration Broadcasting station





Monitoring and management

Multi-style Digital Human



Volumetric Video



MetaEngine Cloud Rendering



Holography turns every point in space-time into a portal of information

NORLD ARTIFICIAL INTELLIGENCE CONFERENC

Information display panel





Clickable desktop

Drawing board of graffiti



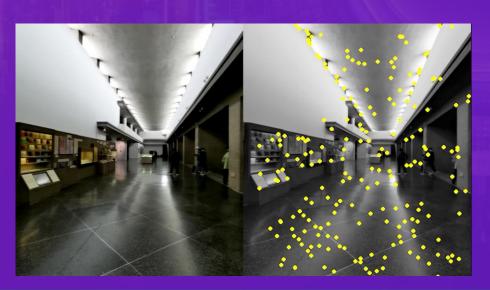


Game park





Centimeter-Level Spatial Computing





Strong AI Environment understanding

High-Reality Rendering





Booming XR industry standards and industry alliances, accelerating industry and ecosystem development

2023世界人工智能大会

WORLD ARTIFICIAL INTELLIGENCE CONFERENCE



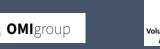
















SPATIAL WEB

FOUNDATION

IOT and Digital Twins

IEEE P2874

