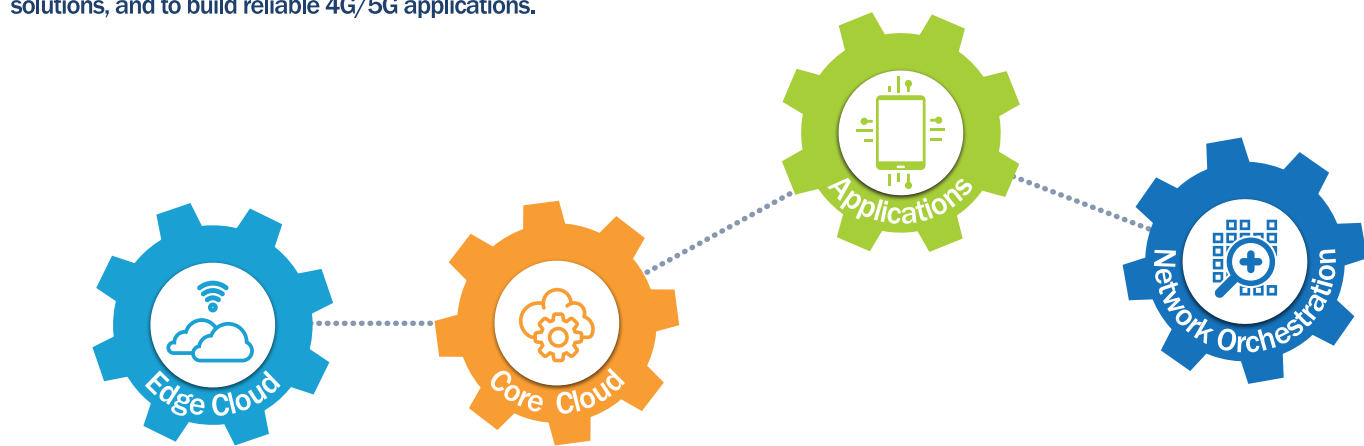




ASTRI Networking Software Technologies

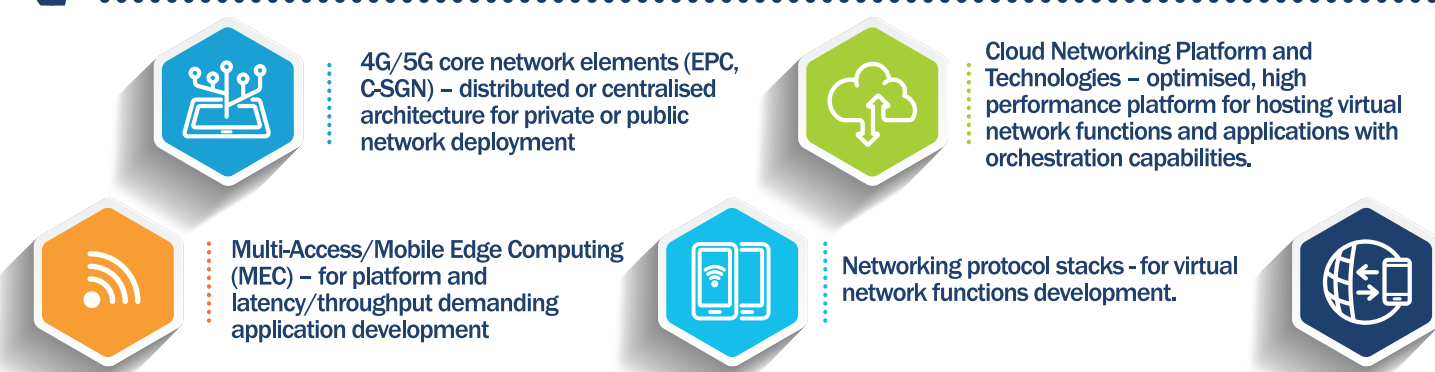
應科院網絡軟件技術

ASTRI develops technological infrastructure and platform for wide-ranging applications like public safety and smart cities. We provide licensable software technologies for network equipment or solution providers, enabling them to develop and integrate networking solutions, and to build reliable 4G/5G applications.



4G/5G SDN/NFV Technologies and Solutions

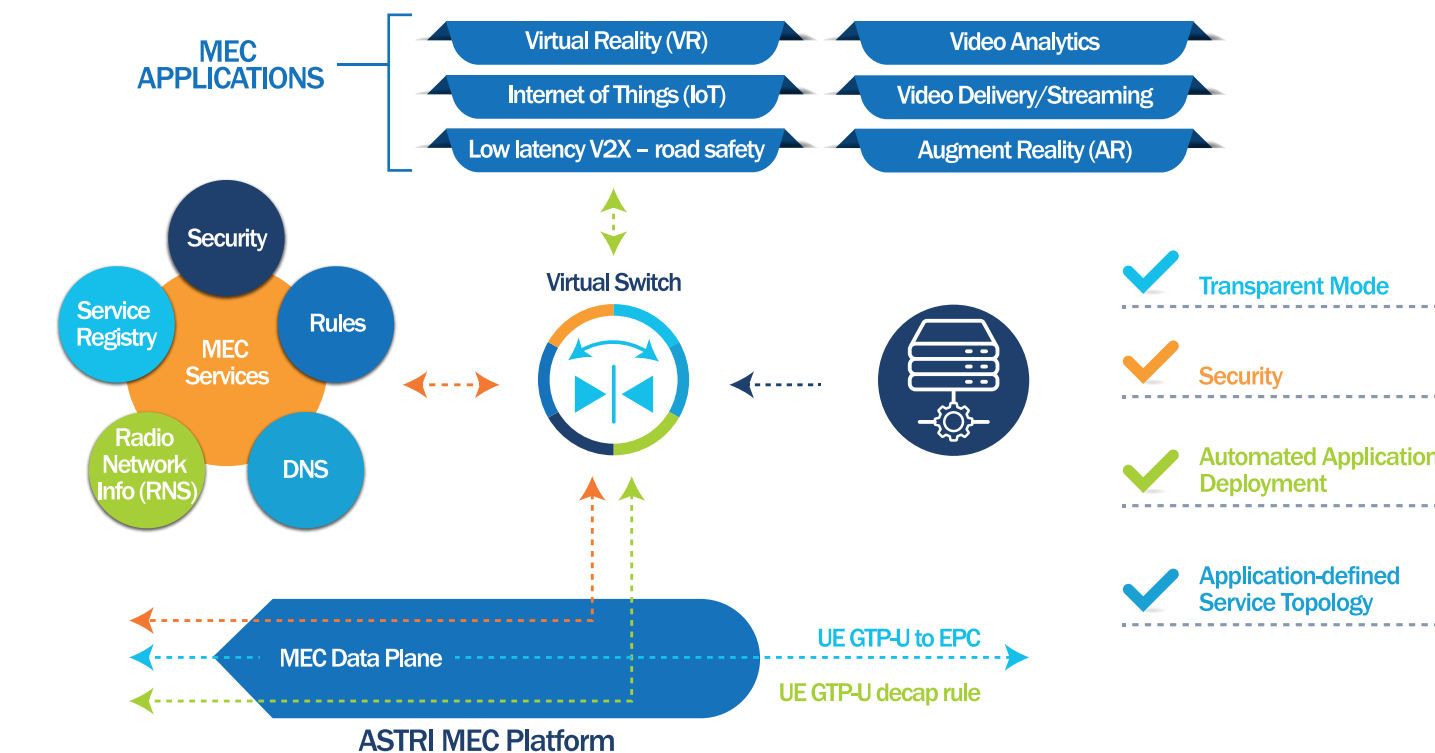
4G/5G 軟件定義網絡(SDN)/網絡功能虛擬化(NFV) 技術及解決方案



Edge Cloud/Multi-Access Edge Computing (MEC)

邊緣雲/ 移動邊緣計算 (MEC)

Enabling low latency, bandwidth demanding, manageable MEC applications



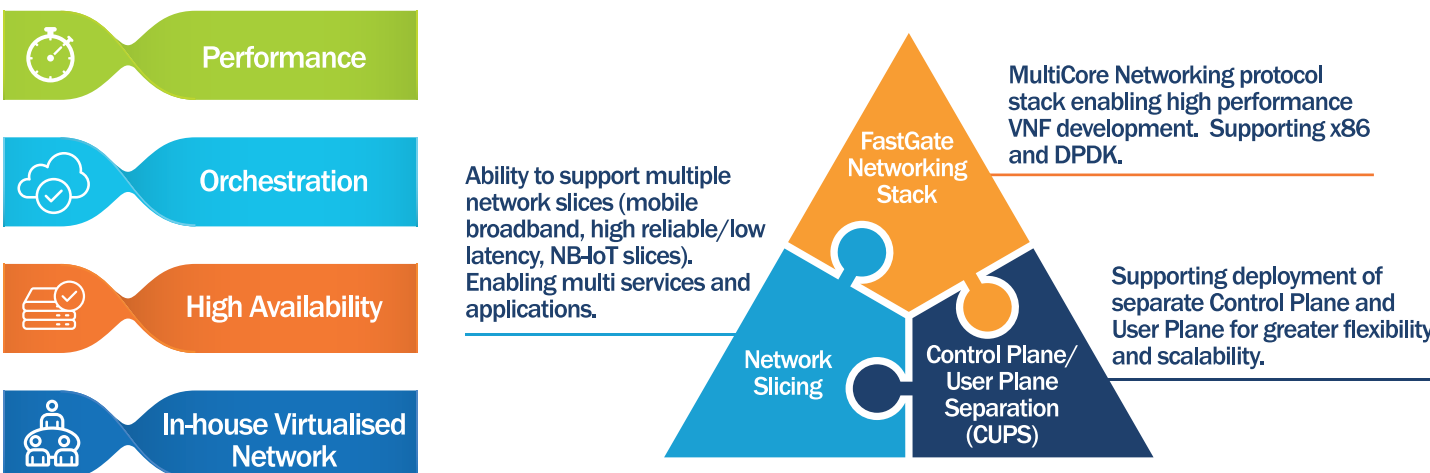
Core Network Cloud & NFV

核心網絡雲及網絡功能虛擬化(NFV)

LTE VIRTUAL NETWORK FUNCTIONS (VNFS) LTE 虛擬網絡功能

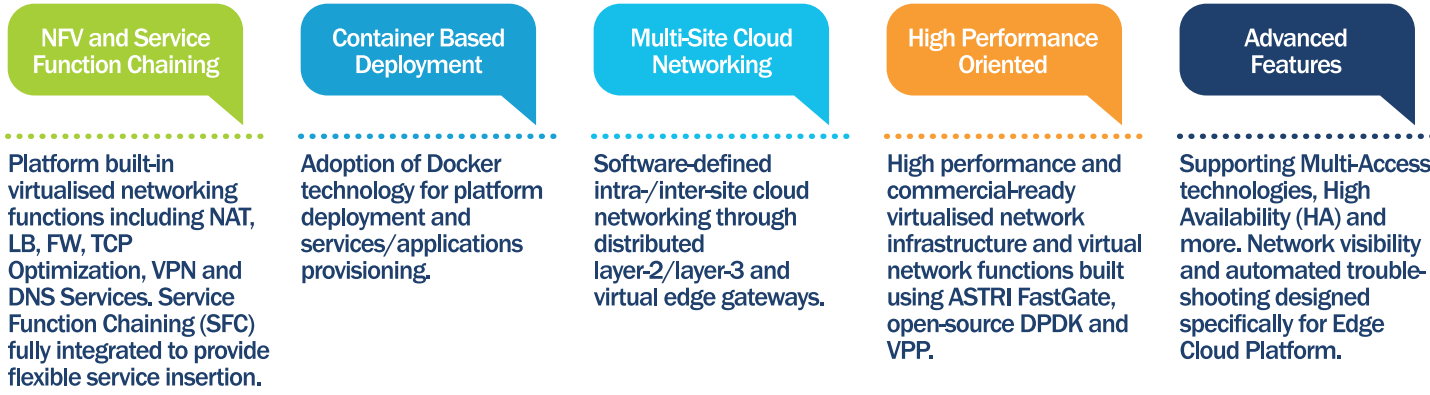


CORE TECHNOLOGIES 核心技術



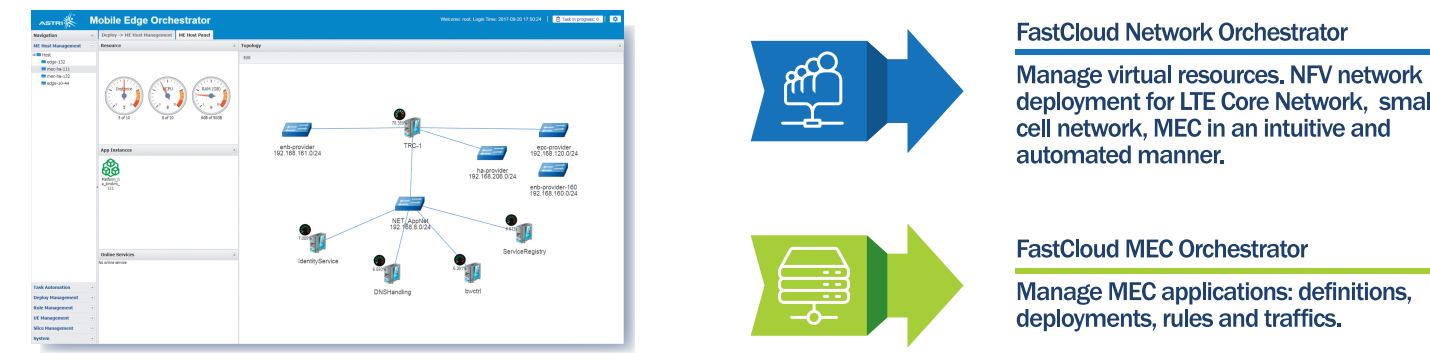
NFV/SDN Platform & Cloud Networking

NFV/ SDN 平台及雲端網絡



Management and Orchestration

管理及業務流程

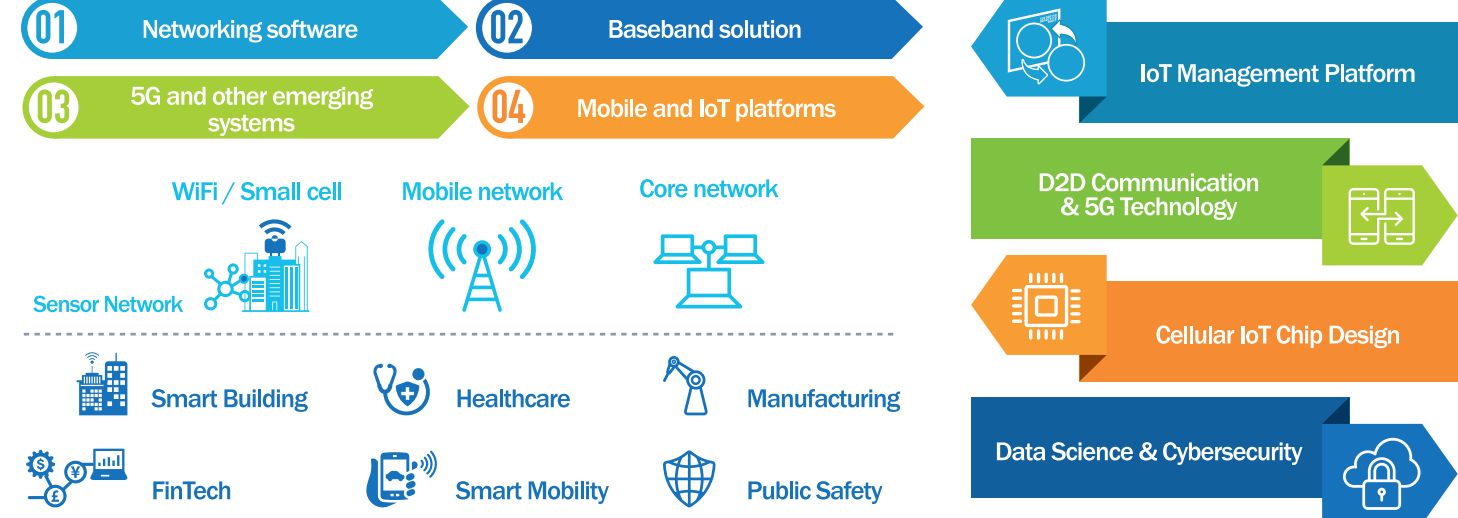


Building Smart Cities with Next Generation Network Technologies

以新一代網絡技術建設智慧城市

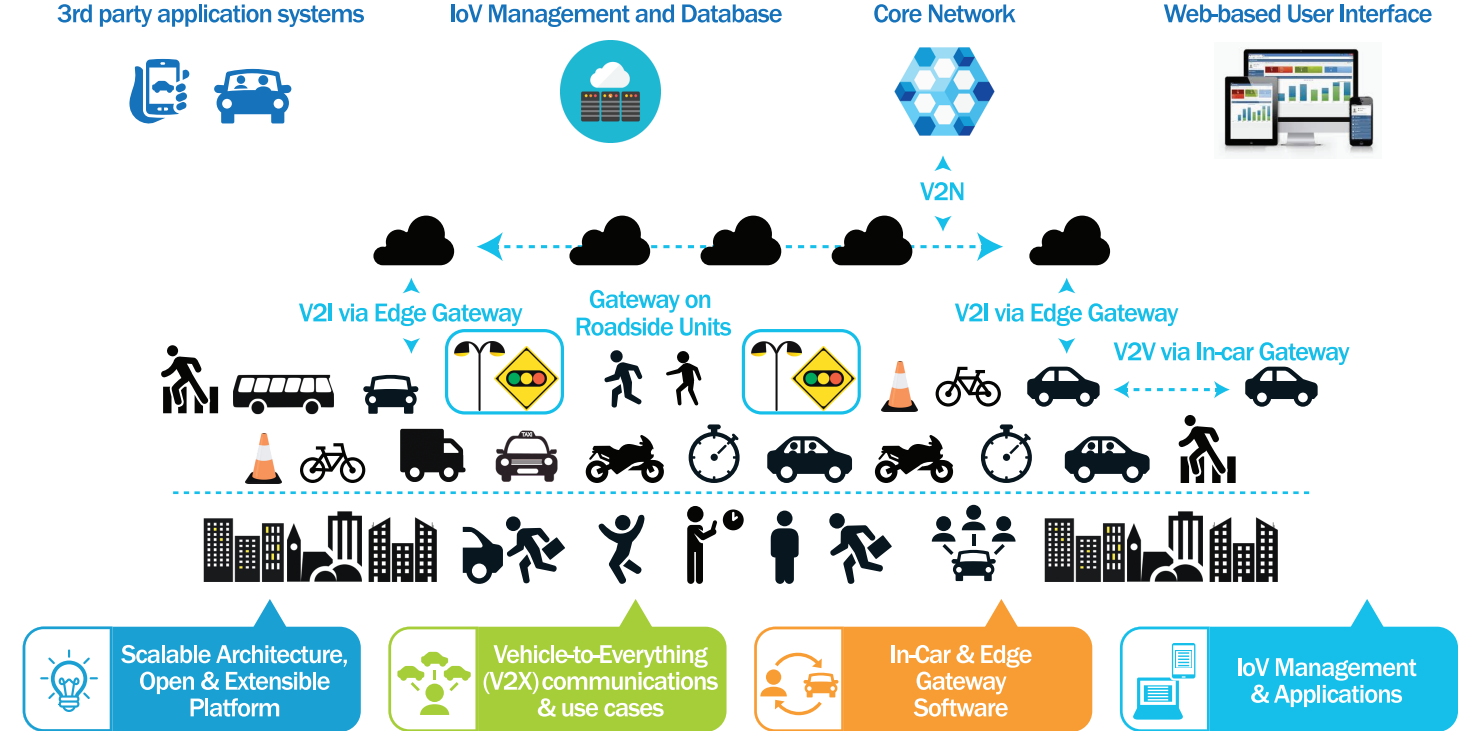
Communication Technologies

通訊技術



End-to-End Internet-of-Vehicles (IoV) Management Solution

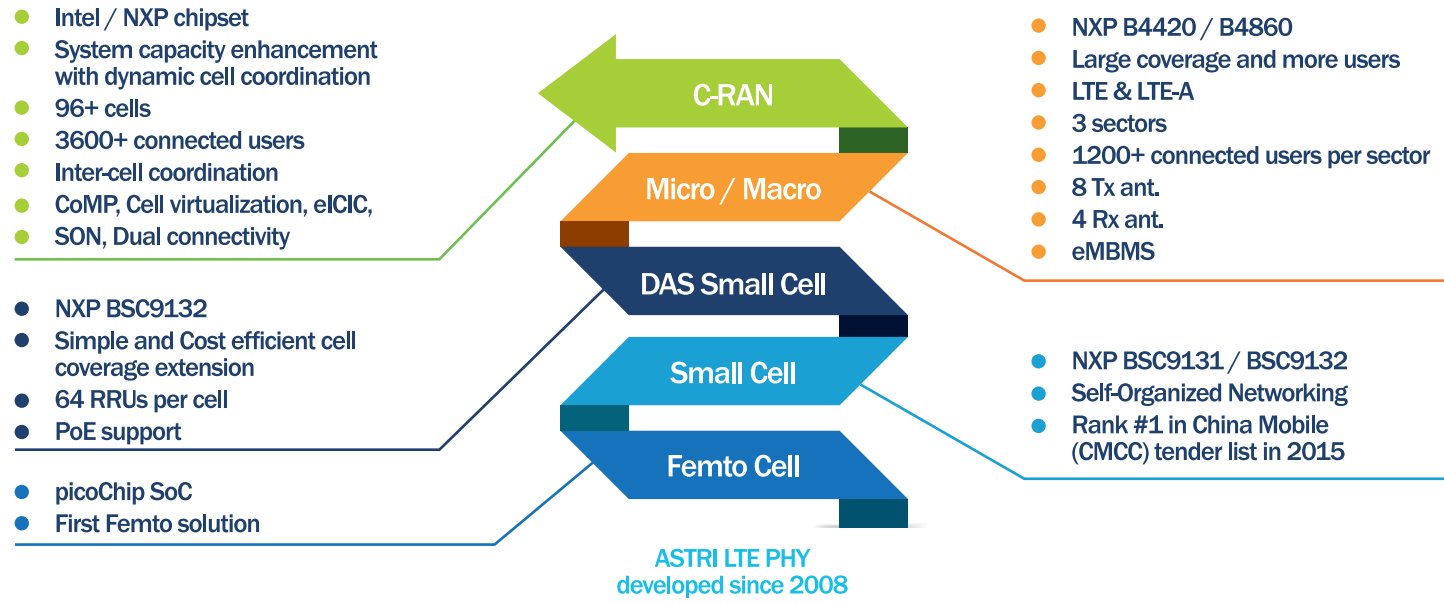
端對端車聯網管理解決方案



Contact us 聯絡我們：

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5/F, Photonics Centre, 2E Science Park East Avenue
Hong Kong Science and Technology Park, Sha Tin, Hong Kong
香港應用科技研究院有限公司 · 香港沙田香港科學園科技大道東2號光電子中心5樓

Commercial LTE eNB Solutions 商用LTE eNB解決方案



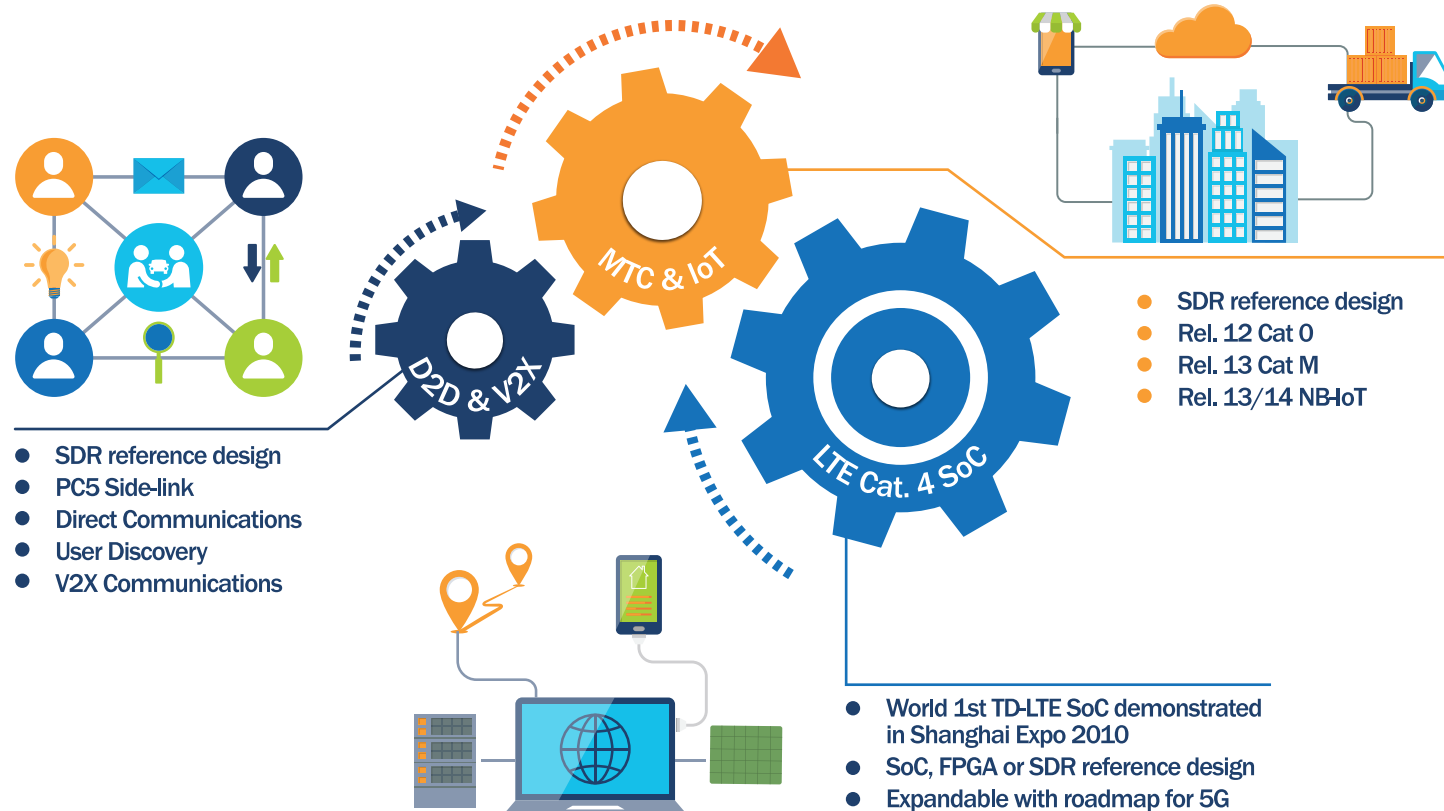
LTE Small Cell Solutions

- NXP BSC9131/BSC9132 SoC
- Simple deployment and cost efficient
- Rank #1 in China Mobile (CMCC) small cell tender 2015
- Complete system level model
- TD-LTE and FDD LTE

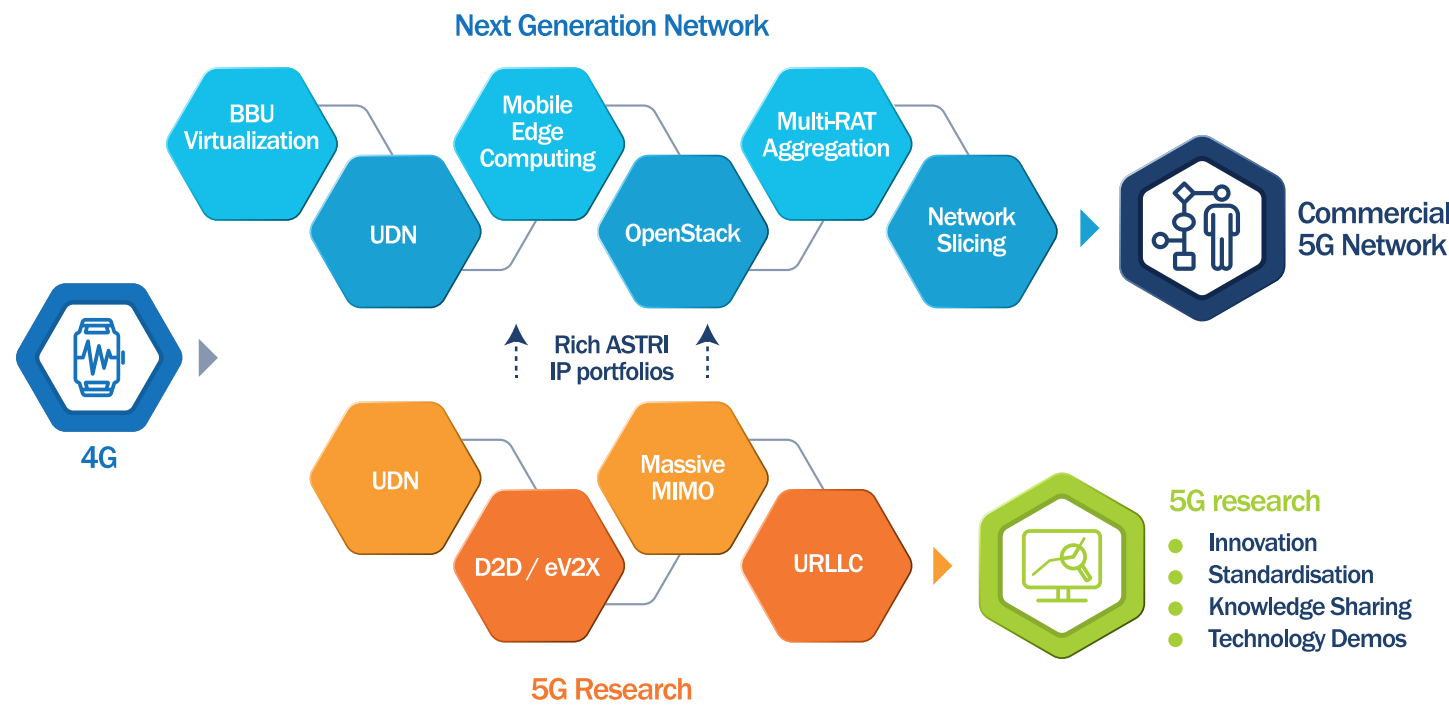
LTE Micro/Macro Cell Solutions

- NXP B4420/B4860 SoC
- Large coverage and multi-sectors
- Complete system level model
- Passed LTE-Metro test
- TD-LTE and FDD LTE

Commercial LTE Terminal Solutions 商用LTE終端解決方案



5G Radio Access Technologies 5G無線接入技術



Patents and Innovation Disclosure with Tier 1 Vendors

- > 20 patents filed on 5G technologies

Patent assignment with Tier 1 vendor

3GPP

- >20 co-signed contributions
- Measurements for JT/JR
- Accepted contribution on feCoMP SI technical report

5G Technical Reports

- IEEE paper on coherent JT/JR
- Studies on Massive MIMO, D2D/V2X and LAA/LWA
- Ultra-Dense Network: A Paradigm Shift for Network Deployment

C-RAN Virtual cell in MWC 2017

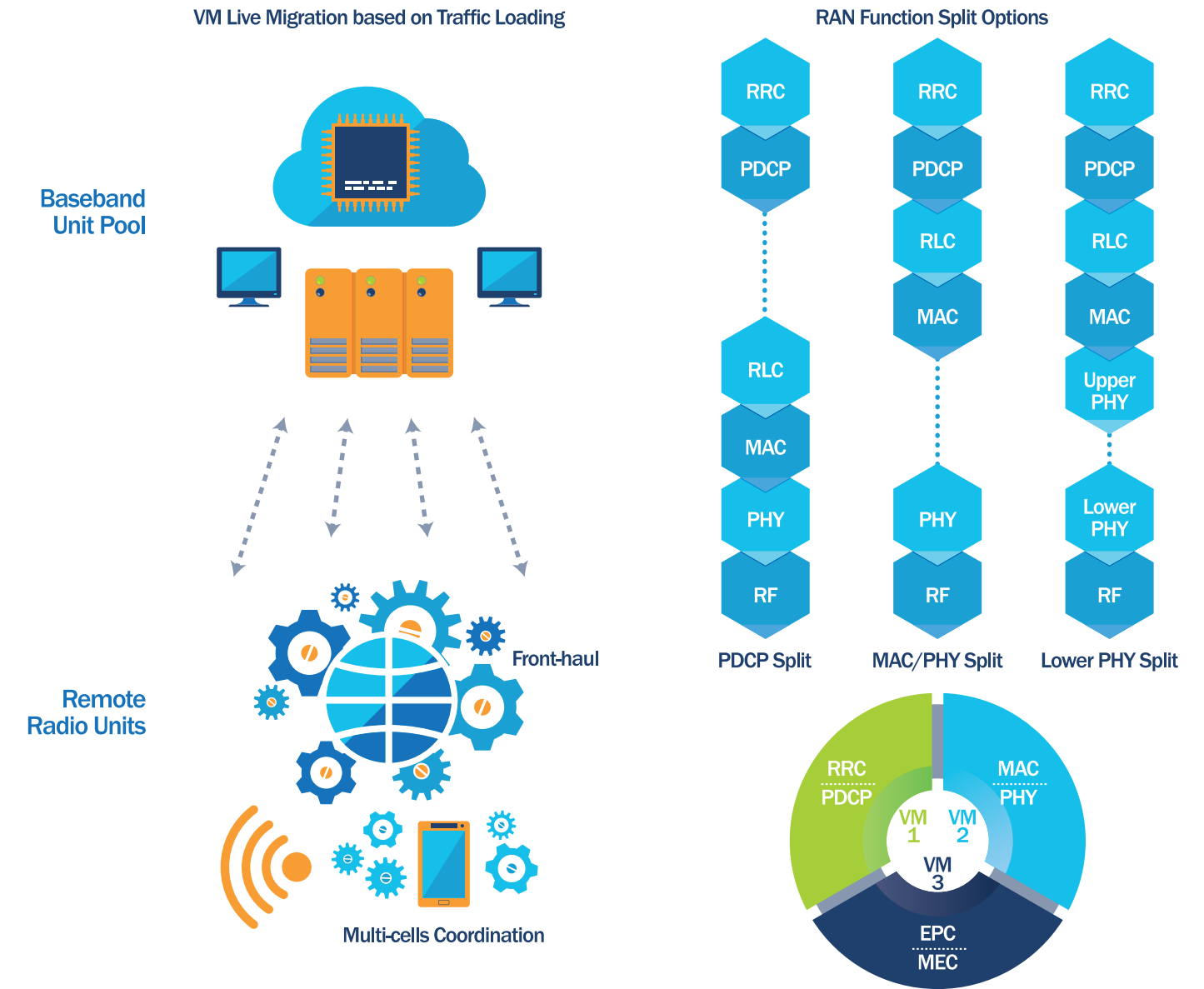
- Virtual cell C-RAN solution
- Coherent JT/JR prototype

SDR UE demo in MWC 2017

- TD-LTE Open Air Interface (OAI) SDR UE

Commercial 4G/5G C-RAN Solutions 商用4G/5G集中化無線接入網絡 (C-RAN) 解決方案

C-RAN ARCHITECTURE AND FUNCTION SPLIT



5G-RAN Virtualisation enabled by ASTRI and Intel

Features	C-RAN BBU pool Reference Design
Platform	Telecom (Artesyn) / Server (x86) / SoC (NXP)
Standard	3GPP Rel9 to Rel15 (5G)
Bandwidth	1.4/3/5/10/15/20 MHz, CA
No. of Cells	Up to 96 TD-LTE and LTE FDD cells
No. of users	1200+ connected users per cells
5G Ultra-Dense Network (UDN)	<ul style="list-style-type: none"> Flexible RAN function split Mobility Tracking with UE content sharing Joint transmission and Joint reception
Network Function Virtualization	<ul style="list-style-type: none"> OpenStack orchestration and Live migration High availability (HA) Multi-access Edge Computing (MEC)
RRH interface	Gigabit Ethernet / CPRI



INTEL NETWORK BUILDERS SOLUTION BRIEF

INTEL AND ASTRI*
HELP MOBILE NETWORK
OPERATORS SUPPORT
SMALL CELL NETWORKS



