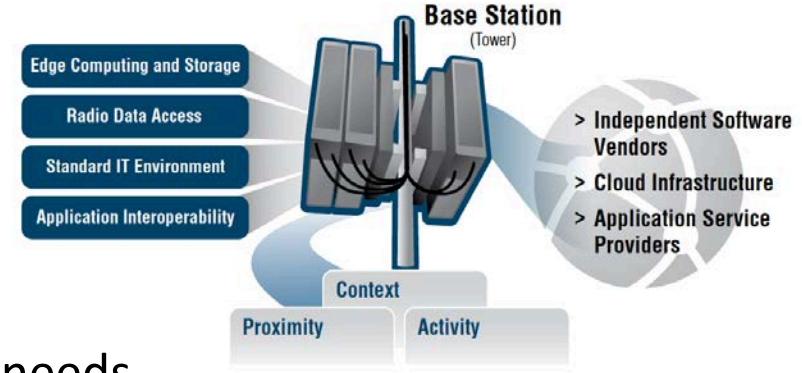
Creating Better Access Networks for Improved Data Analytics

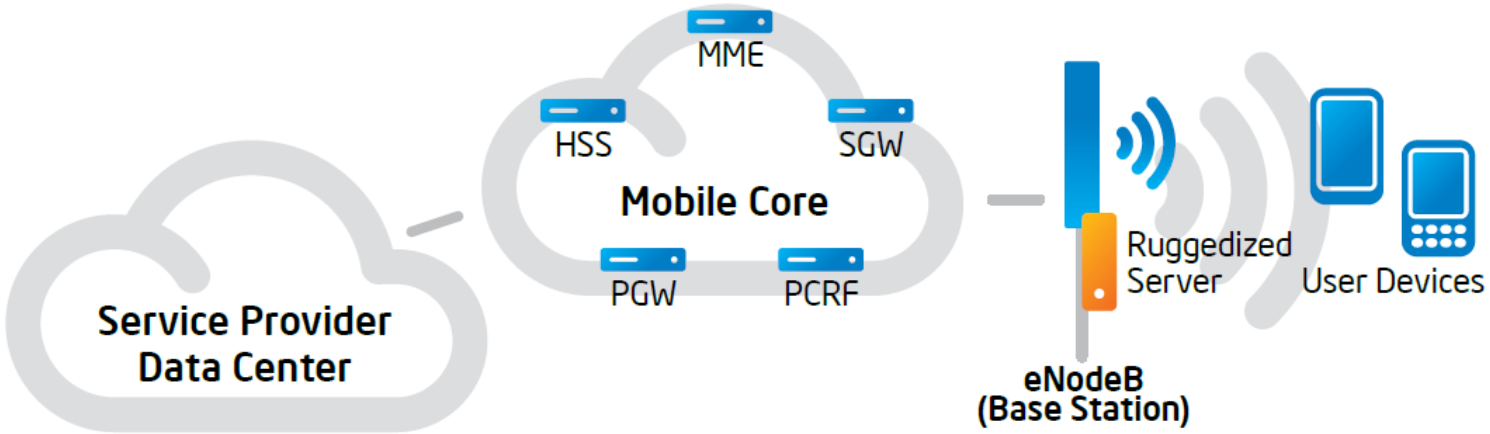
Eric Kao
Product Director
Embedded Computing Group

ADLINK TECHNOLOGY INC.

Mobile Edge Computing



- Heavy mobile data use cases pushed Edge Server needs to reduce back-haul/transmission cost
- Operators trying to leverage edge/access to host more apps & contents to avoid becoming a “pipe provider”
- Example: Nokia Networks Liquid Application



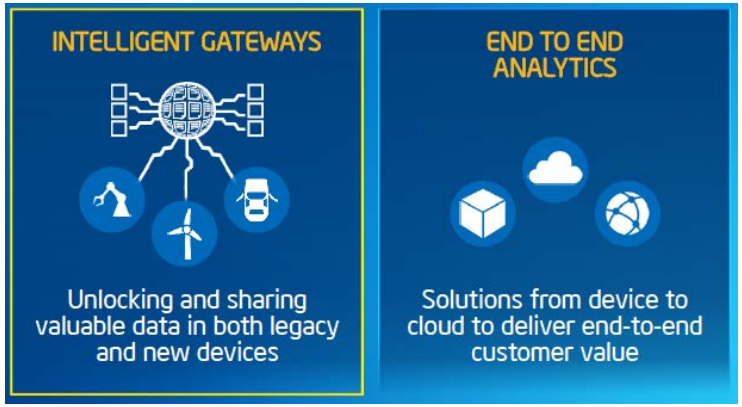
Network Efficiency

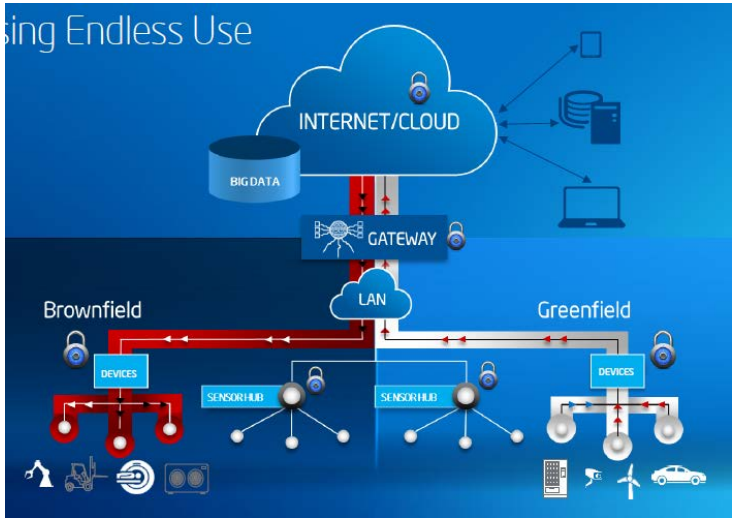
Customer Experience

New Revenue Opportunities

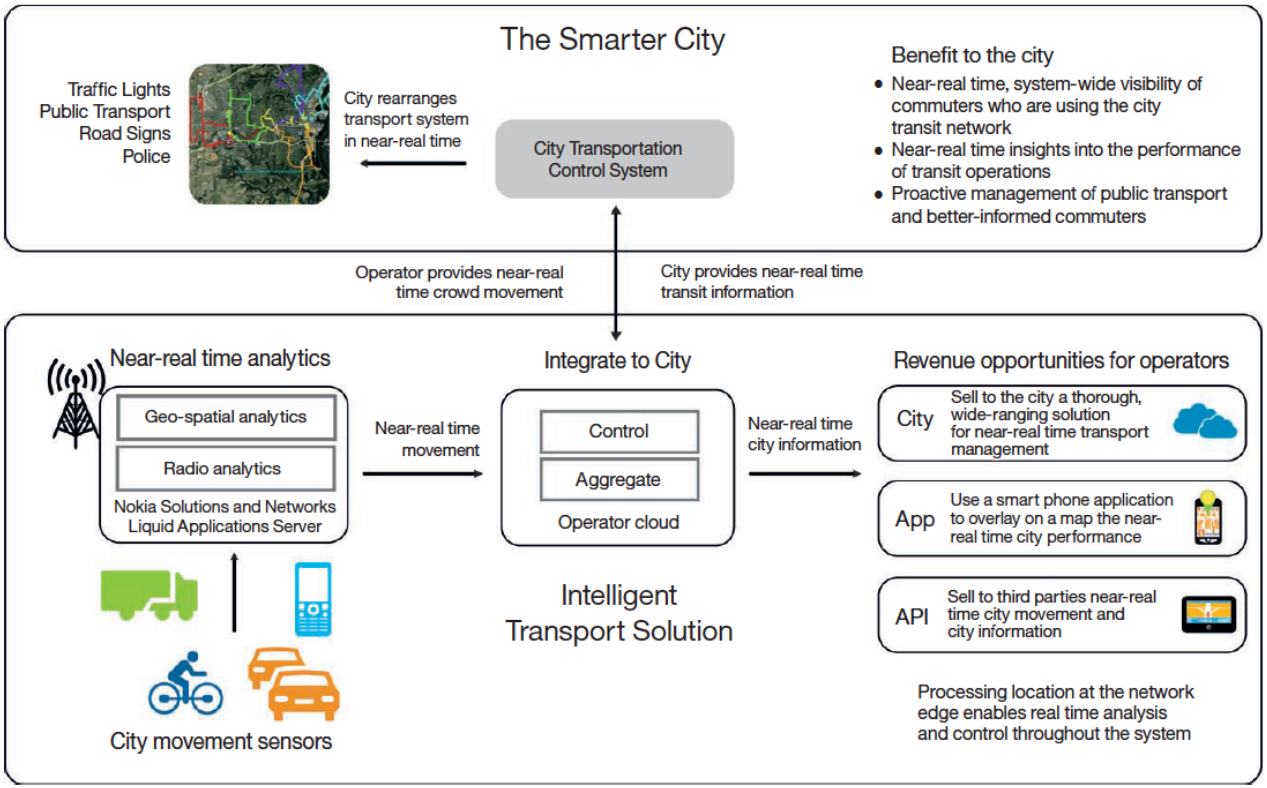
Differentiation & Innovation

IOT Server – Analytics at Edge

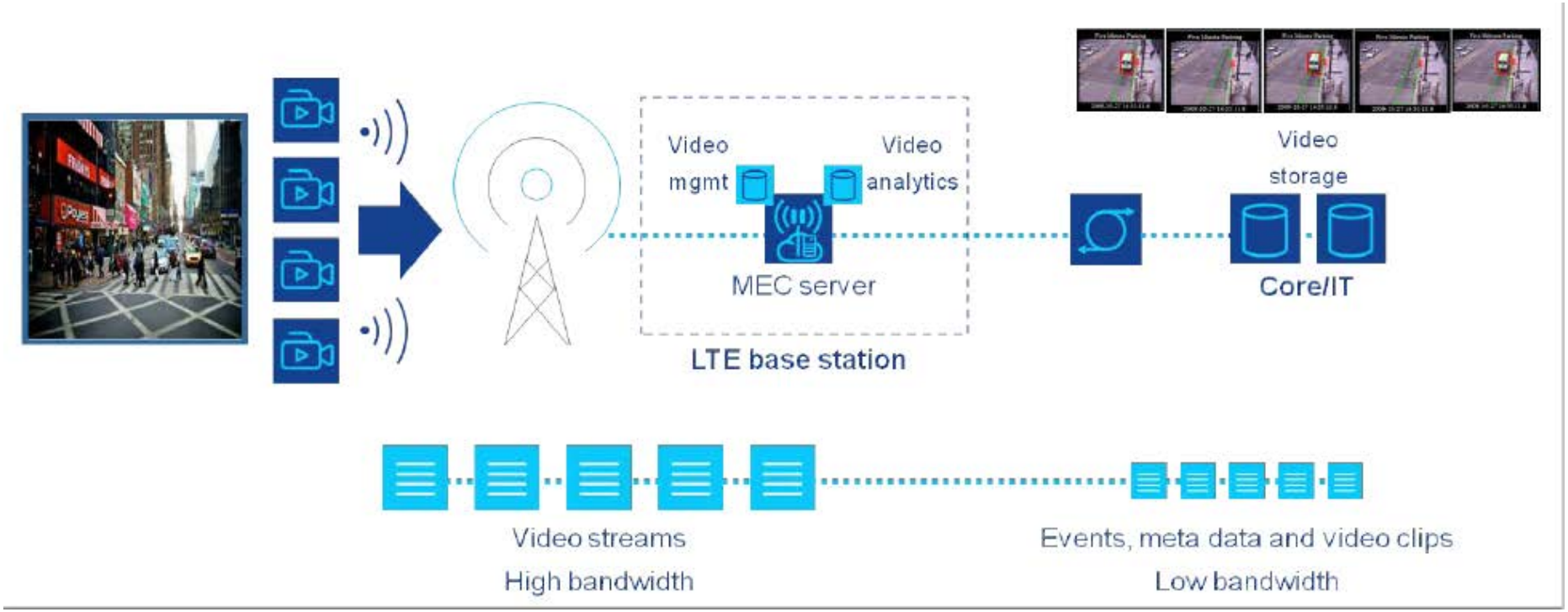




- **Where local real-time analytic needed**

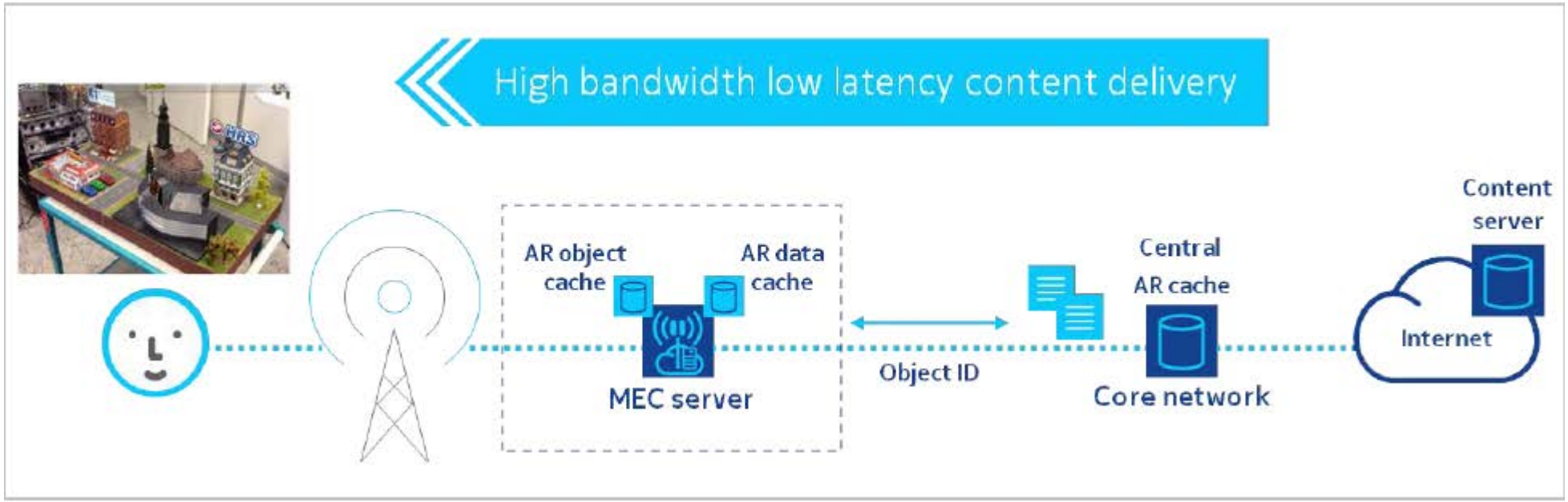


Use Case: Video Analytics at Edge



- The video management application transcodes and stores captured video streams from cameras received on the LTE uplink.
- The video analytics application processes the video data to detect and notify specific configurable events e.g. object movement, lost child, abandoned luggage, etc. safety, public security to smart cities.
- Value added services to local subscribers without burning backhaul bandwidth and horse power

Use Case: Augmented Reality



- Augmented Reality (AR) application on a smart-phone or tablet overlays AR content onto objects viewed on the device camera
- Applications on the Mobile Edge Computing (MEC) server can provide local object tracking and local AR content caching.
- Minimizes round trip time and maximizes throughput for optimum quality of experience.
- Offers consumer or enterprise propositions, such as tourist information, sporting event information, advertisements etc.

ADLINK Solution: More Details @ Briefings

HXC-1000 Dual 10C E5-2400V2 Xeon Rugged Server

- **Designed for Harsh Environment**

  -40 to 55C operation

  NEBS shock & vibration

  IP65 intrusion protection

- **Server Grade Performance**

  Dual 10C E5-2400V2 Xeon processors

  6x DDR3L RDIMM, up to 96GB

  10GbE SFP+ optical ports

  Dual GbE RJ45 ports

  Optional Intel 8920 crypto engine

  Dual swappable SATA storage bays

  IPMI 2.0 management interface