

Vision 2020

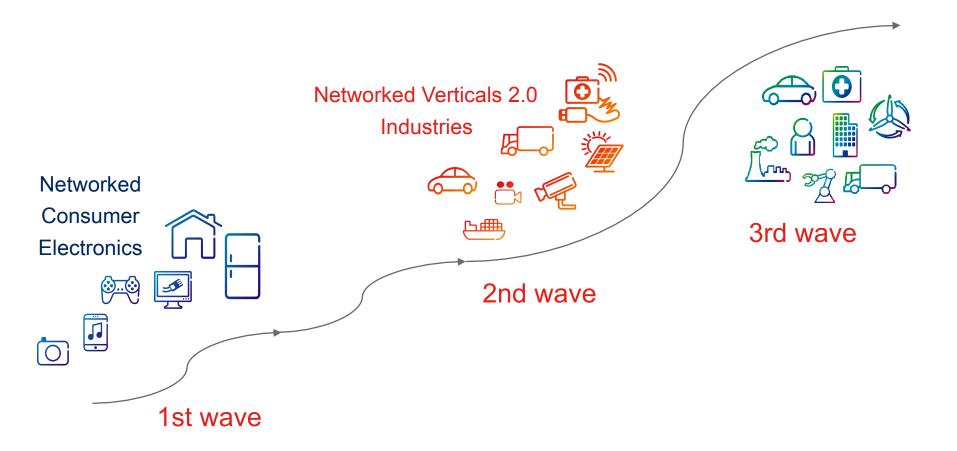




50 BILLION CONNECTED DEVICES & the reality of M2M

3 waves of connected devices





Machine-Type Communication



Massive MTC

Low cost Low energy High coverage Small data volumes Massive numbers of devices

Ultra reliable Very low latency Very high availability



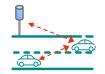
- > Low protocol
- Scalable
- **)** ...
- overhead



- ms-level latency
- > Robust transmission
- Fast channel assignment
- Multi-level diversity



Smart grid



Traffic safety/control



Sensors, actuators

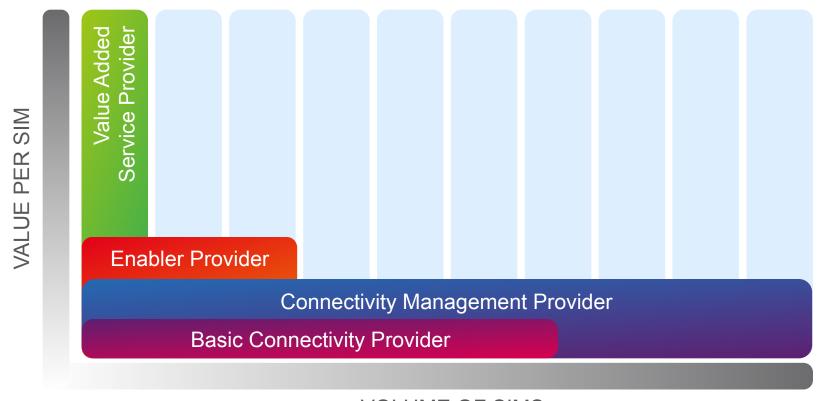
M2M is a different business



...to embedded, business From best effort... critical communication From national focus... ...to international deployments From pure telco expertise... ...to industry expertise ...to be part of From owning the service... an integrated solution From standard infrastructure ...to dedicated infrastructure for M2M customers only serving all customers... ...to enterprise focused From retail focus... business models

roles and positioning





VOLUME OF SIMS

Key M2M challenges



Low ARPU

SIM management

Access to provisioning

Charging management and control

Time to Market

Software and database licenses

Telecom authority licenses



Deployment models



Operator owned solution

- Reuse of existing e2e network infrastructure
- Full control over the solution
- Expand NW as required
- Open network interfaces to business partners
- Dedicated security solutions
- License expansion
- E2e service development in house
- Extensive local project throughout the lifetime of the solution
- How to reach TTM targets?

XaaS

- Keep M2M completely separated from core voice and data services
- Reuse only the access network
- Connectivity management service provided from the cloud
- Purchase capacity in the cloud according to business uptake
- Customized interface from the cloud service to the business partners
- No compromise on security
- Limited local project
- Fast TTM
- Focus on value added extensions



ERICSSON