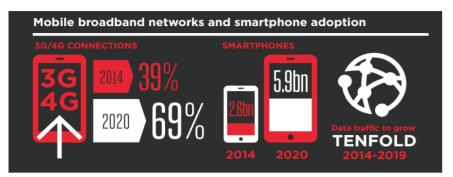
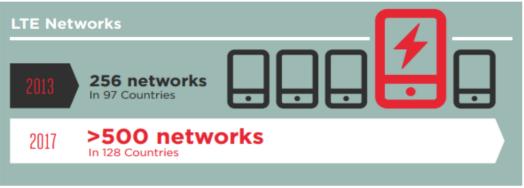


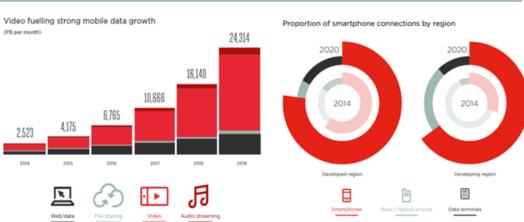
Market Trends















Data traffic expected to see a ten-fold increase by 2019. Subs and SIM numbers growing.

High investments in the infrastructure, ongoing (LTE rollout, 5th gen ahead)

Smartphones dominate, enabling new services and catering data hungry applications.

The apps, content & advertising

business is realizing significant revenues

in the ecosystem.

voice and SMS revenues

erode. Revenue growth only 3.1%

CAGR through to 2020. - GSMA

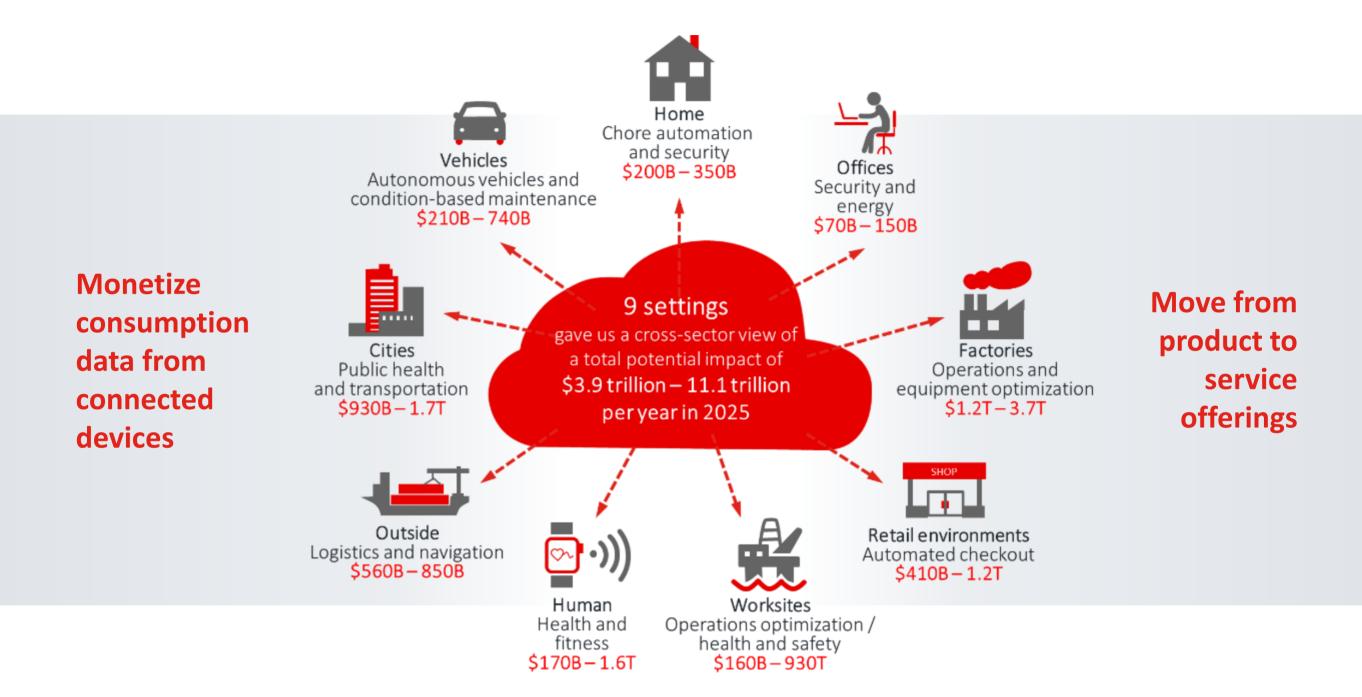
LTE is expected to create **new**

revenue streams, extend capacity, build

Threatened to become commodity and loose profitability at the same time.

The Internet of Things will transform industries

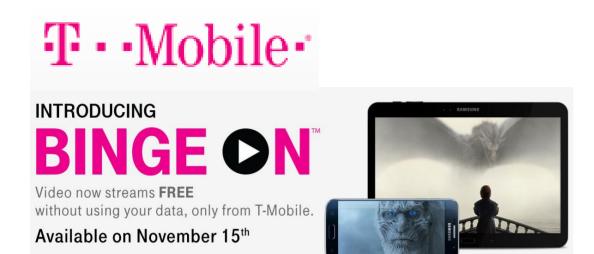




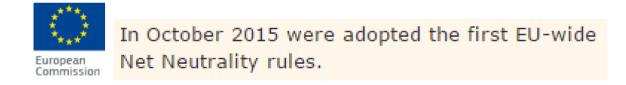
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Differentiate By OTT / Application





Now you can stream all you want for FREE without using your data.



Quality differentiation on the Internet has long been common practice. ... In future there will also be the option of booking a service with assured quality in exchange for a few more euros.



Personalized plans based on OTT awareness

> Prefe NETFLIX HBONOW

hulu sling

>

charging

WATCH ESFIT

But sor You Tube s aren't included, e.g.

Policy control needed to guarantee QoS beside

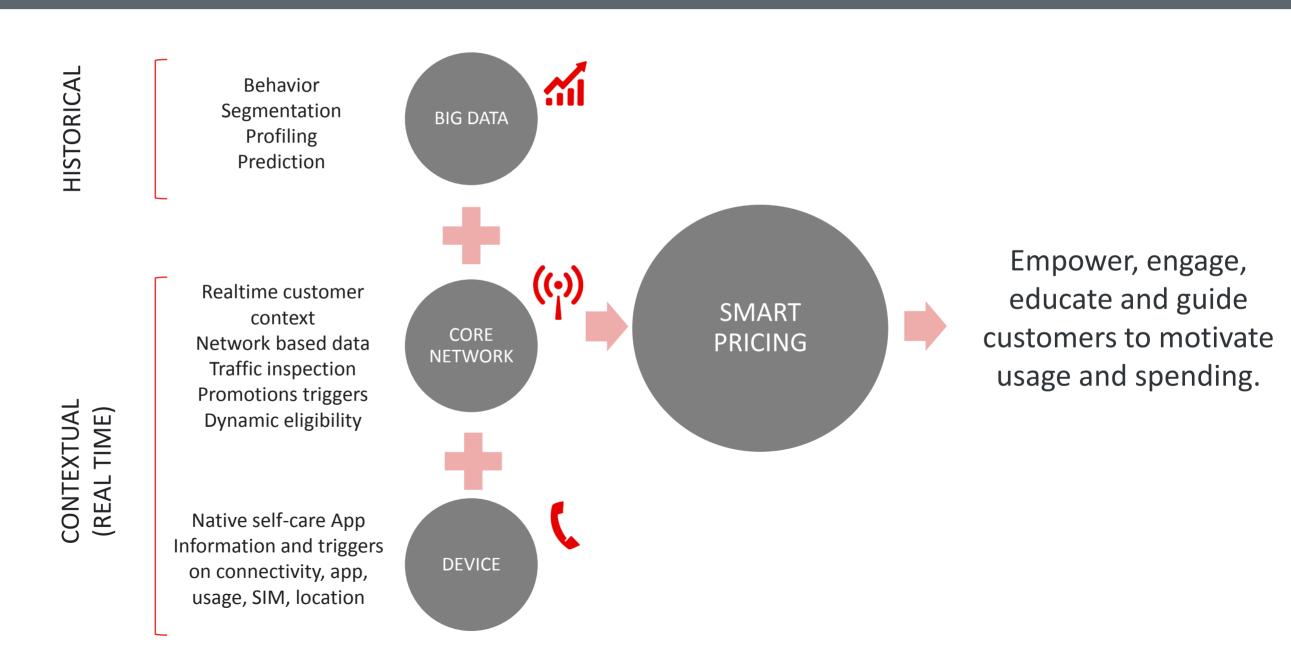
Application based charging according to 3GPP

- Option for new revenue streams while optimizing network infrastructure
- Internet traffic can be treated differently (e.g. throttling)
- Identify the subscriber, the application, content and device

The "Smarter" Data Monetization Approach



Combine traditional data with real-time, contextual information to "detect" and "capture" more opportunities for monetization. Personalized, valuable offerings at the right time and context.



The India Market in the Next Five Years



ABSORBING DISRUPTION



- It's all about social
- Partnerships with OTT players is on the rise
- Smartphone is central to our life
- New viewing habits redefine the TV experience
- LTE and FTTx deployments are growing
- Cloud-based service adoption accelerates
- Big data focuses on organizing data
- Video is Booming
- E- commerce is growing in India

THE ERA OF INDIVIDUALIZATION



- Individualization is the name of the game
- Wearable devices become more common
- Big data supports service personalization
- Battle for premium video content expands to new players
- Small cells and LTE-A deployment accelerates
- More software functions shift to the cloud
- Network virtualization is heavily adopted for telco networks

BREAKING DOWN BOUNDARIES



- Sensors and analytics add intelligence to our life
- Network goes to All-IP, increasing the need to optimize
- 5G is beginning to emerge
- Platform players pushing for network assets
- Virtual presence is emerging
- Service providers disrupt new verticals

Today (2015-16)

Mid-Term (2017-18)

Long-Term (2019-21)



One of the largest independent provider of real-time monetization software

1,800+ employees

250+ customers

2.8+ bn subscribers



Global Customer Footprint



Redknee supports some of the biggest names across all corners of the globe



Redknee provides innovative real-time monetization and subscriber management solutions to more than **250 customers** across a variety of industries, including **communications**, **transportation**, **utilities** and **automotive**.

Committed to Excellence

"Best OSS/BSS Provider"

Telecom Review

"Innovation & Leadership Award"

Frost and Sullivan

"Leading BSS Vendor"

Ovum

"Mobile Star Award"

Mobile Village

"Technology Fast 50 Award"

Deloitte

"Outstanding BSS Vendor of the Year"

Light Reading













Powering the Digital Economy



> Real-time monetization solutions for any type of market

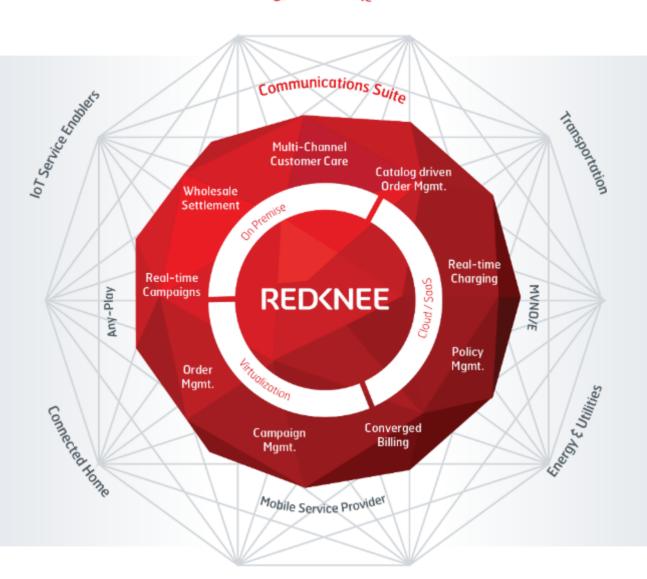
Connected Suite

COMMUNICATION **SERVICE PROVIDERS:**

REDKNEE

COMMUNICATIONS

Froviding solutions for monetizing communications and data services for hundreds of the world's leading communication service providers



IoT & **ENTERPRISE**:

REDKNEE CONNECTED SUITE

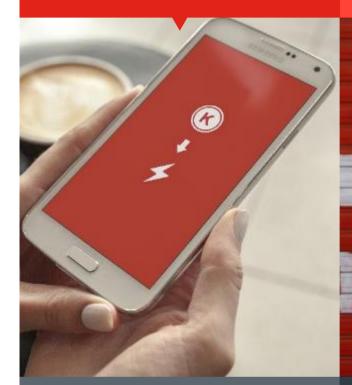
Redknee drives the business side of the Internet of Things – monetizing transactions across industries and across devices.

Automotive

Helping the World Connect in New and Innovative Ways



MOBILE ENERGY PAYMENTS



With Redknee, Digicel's customers can prepay for home energy services right from their mobile phones.

Digicel

DATA MONETIZATION



Redknee supports one of the world's largest data networks - Vodafone India, and helped deliver life-saving communication service to victims of India's 2015 floods.

vodafone

Public Mobile

CROWD-

SOURCED

- > Crowd Sourced
- > Social media driven
- > SIM only service
- > BYOD
- > Game changer in the Canadian market



CONNECTED CAR



Redknee is powering BMW's Connected Drive services by monetizing their digital in-car offerings.



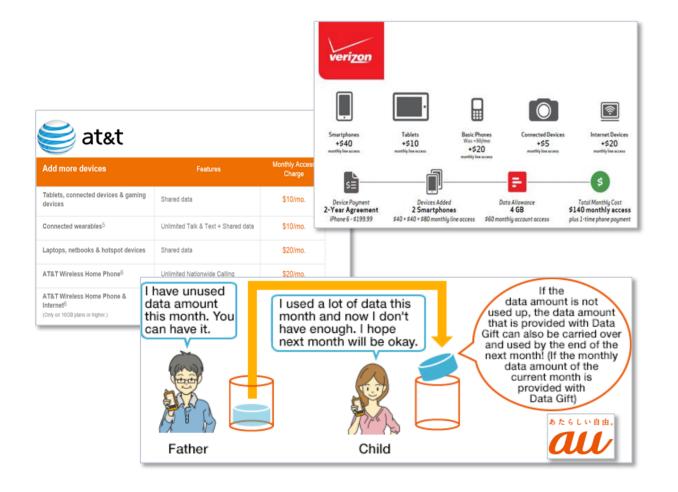


Shared Data, Communities, Crowd



Shared data is great. We see plans to extend to:

- sharing over communities
- social gifting
- social recommendations
- crowd sourced care



Community Sharing

A donator shares a portion of his allowance – to a community. The shared amount is made available to all users of the community.



Donator can be part of the users – but does not have to be (charity)

Gift CARRY OVER

Use carry over to motivate purchase of larger bundles.

Allow on conditional, on demand sharing/ gifting of carry over allowances.



Crowd Sourced Care

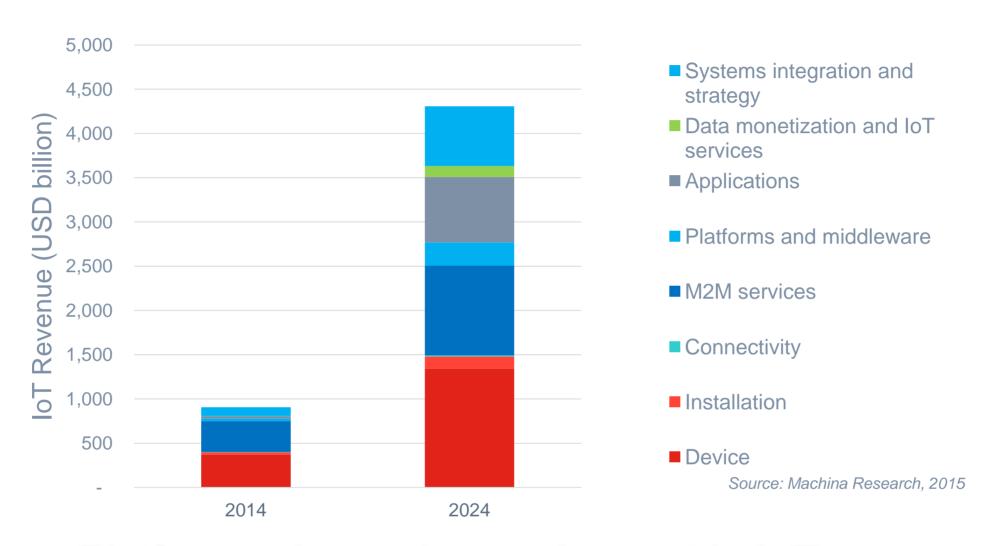
No call center – just community (and supervision)

Rewards for support (rating of support activity - earn your monthly fee back) Help the Community
Help others by taking part in our Community. You'll earn points that could save you up to \$10 on your monthly payment.

Rewards for referrals



Machina Research





Platforms play an increasing part in IoT services

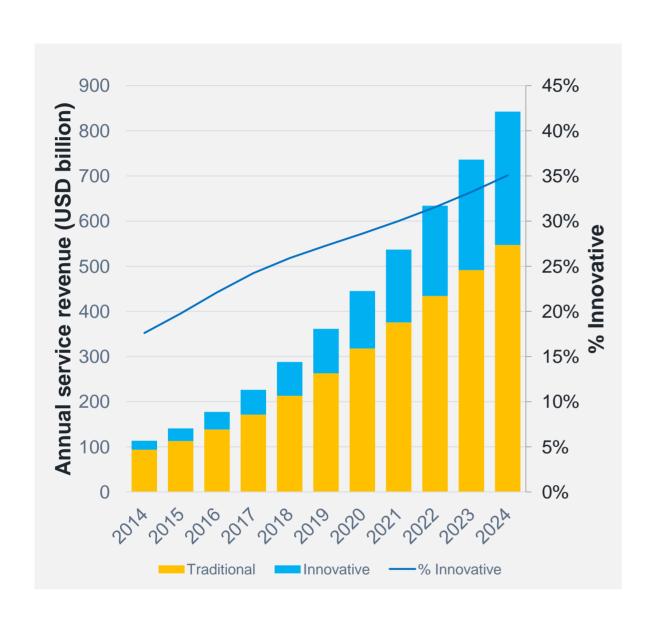


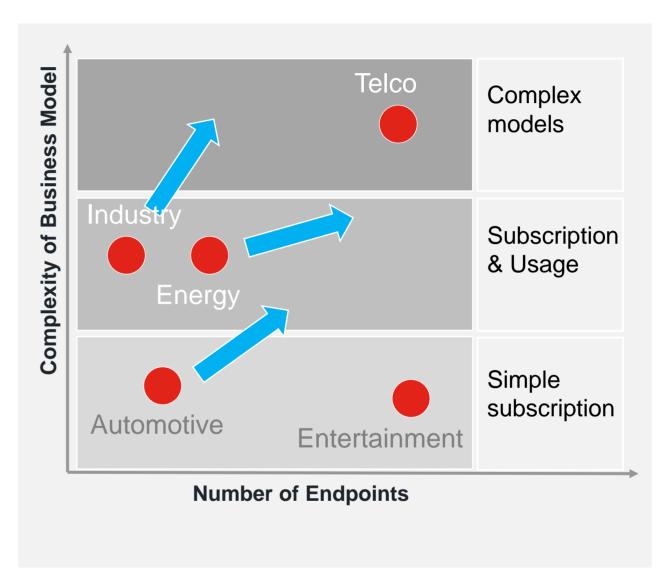
Applications have the strongest revenue growth

Business Model Complexity











Complex business models on the rise

Typical Smart Pricing Use Cases





Promote, empower, upsell, educate

Promotions based on insight

- collected by the apps residing on the phone
- collected by network components
 chg, DPI, lightweight DPI, VAS,
 etc

Promotions triggered by the app or by network components

Promotions considering

- RT trigger info and customer context
- > Customer profile data
- > Aggregated customer data
- > Available product, packages, offers

Examples

- Usage level based promotions (thresholds reached, recurring over- or under usage)
- Promotions based on action in self care app (interest in certain type of information / products)
- Promotions based on used apps / content
- Network / WiFi status / Location / roaming based promotions
- QoS based promotions
- Promotions for product / packs in case of unsuccessful service usage (missing options in plan etc)
- Promotions for higher plans based on usage
- Promotions based on option / product / service/ contract expiry