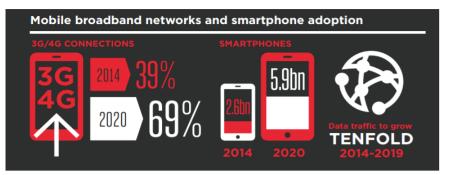
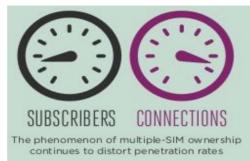




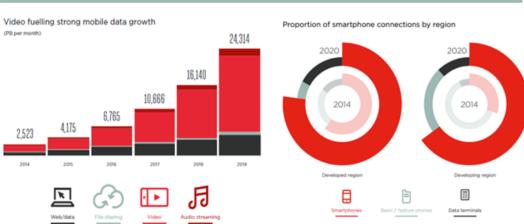
Market Trends















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 OTT WAR



The acceleration of OTT







NETFLIX













130 Million Users

230 Mio Active Buyers

TELECOMMUNICATIONS

Telecom companies count \$386 billion in lost revenue to Skype, WhatsApp, others

by Erik Heinrich

JUNE 23, 2014, 11:34 AM EST

BUSINESS » INDUSTRY

NEW DELHI, May 28, 2015

Updated: May 28, 2015 23:09 IST

OTT eating into revenues of operators 'fatal': **Martin Peters**

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Digital

Over-the-top content: Bullies or buddies?

BY THABISO MOCHIKO, 28 JANUARY 2016, 09:02







Disruptive Analysis

Don't Assume



GUARANTEED 1-TO-1 MEETINGS

SPEED NETWORKING

FACILITATED MEETINGS

BESPOKE NETWORKING EVENTS

WEBINARS

ON-SITE VIDEO

PRODUCT LAUNCH DEMOS

SURVEYS & WHITEPAPERS





If you can't **beat** 'em, **join** 'em.

The key is not for operators to fight against the **OTT** players but rather to find and develop the **profit pools** where their particular capabilities offer the greatest chances of success.

Its not **4G** driving a change but the **Services** which operators would **launch** with it which will make a difference

LTE is expected to create **new**revenue streams, extend capacity, build

brand

Traditional BSS were built to deal with voice and simple data, but the BSS for LTE need to accommodate the characteristics of the new services, the associated network signaling traffic, and the ecosystem dynamics that make tariff innovation and

new business models critical to operators' future commercial success.

The Key For LTE Monetization



From generic offerings to value based offerings.

Allow experimentation with innovative tariffs and differentiated products / upsell options on a flexible platform

A BSS Eco System for Sponsored Data Charging, promotions and Settlement with OTT partners. Ubiquity of devices, internet of things arise and change volumes & patterns dramatically

Real-time Access nothing offline

Works. For Me.
Transparent services
providing personal value now.
Pick, mix and share

Social, connected customer. Needs fun to engage. Gamification.

Flexible Partner Wodels expected to fit the customer, & the OTT.

Empowered & Connected
I want and I can. Pick & mix, share, sell.



Browse. Stream. Enjoy.™

With AT&T Sponsored Data, you can browse websites, stream video and enjoy apps on your wireless device without impacting your personal data plan.*



Content delivery to mobile devices is sponsored in a targeted and flexible way.



Customers get sponsored access to more great content.



Sponsors can deploy time-based offers that are OS agnostic and come with rich analytics.

















The "Smarter" Data Monetization Approach for Digital Customer

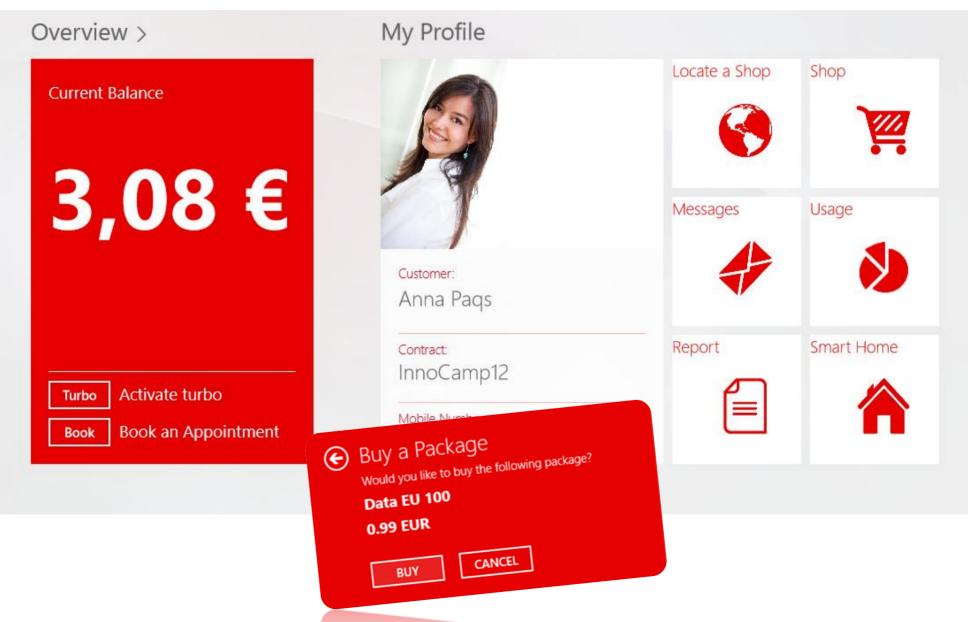


everything contextual and on my device

DIGITAL

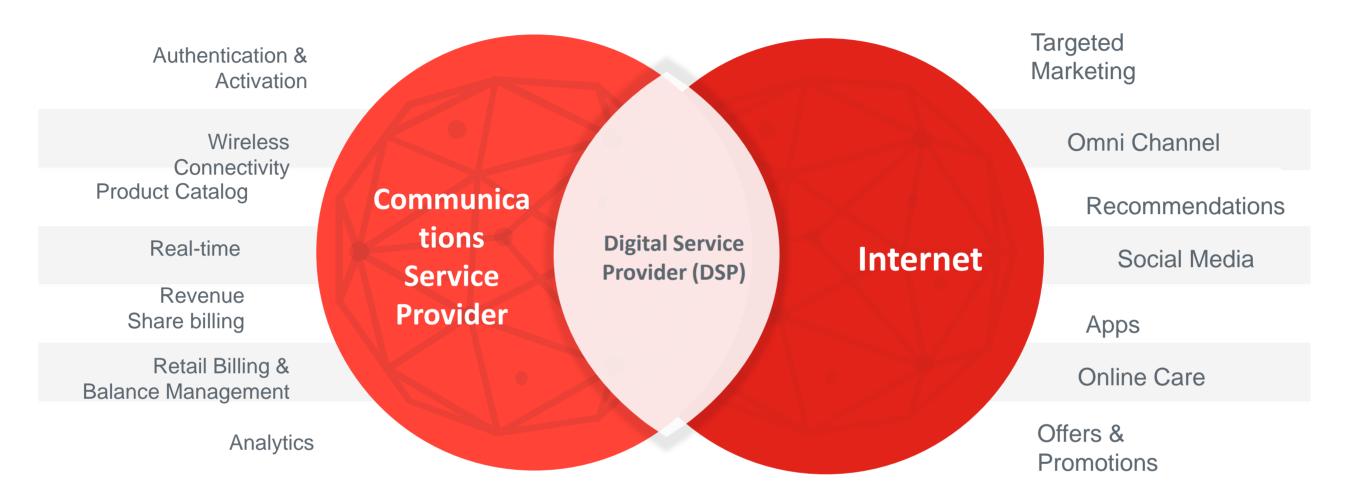
custo PERIENCE

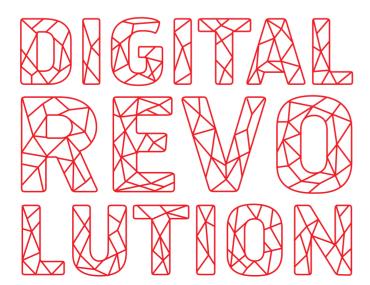




The Making of a Digital Service Provider









Differentiate On Speed / QoS

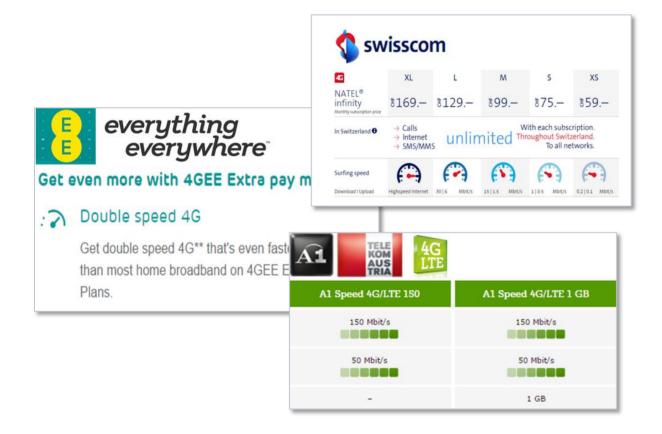


Needs and value is diferent:

- QoS / speed tiers
- on demand or application specific QoS
- y guaranteed QoS of partner content / apps

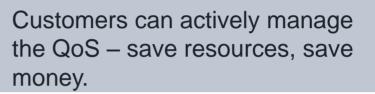
You can also differentiate on

- > payment behavior, loyalty status, group spending...
- demand and available resources



Temporary QoS

Inverse turbo - on demand QoS reduction, reduced QoS reduced volume is counted.





Device Specific QoS

QoS differentiation on a device-, instead of customer basis.

Differentiate between devices of the same customer, under the same plan – e.g. multi device plans.



Demand Based Dynamic Data Rates

Align data tariffs and promotions to network traffic / resources indicators.

Network traffic indicators can be updated over external OSS systems.

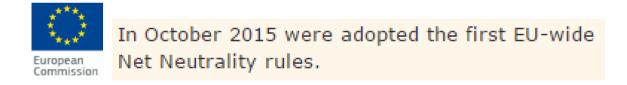


Differentiate By OTT / Application





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

>

WATCH ESFIT

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

Policy control needed to guarantee QoS beside charging

Application based charging according to 3GPP

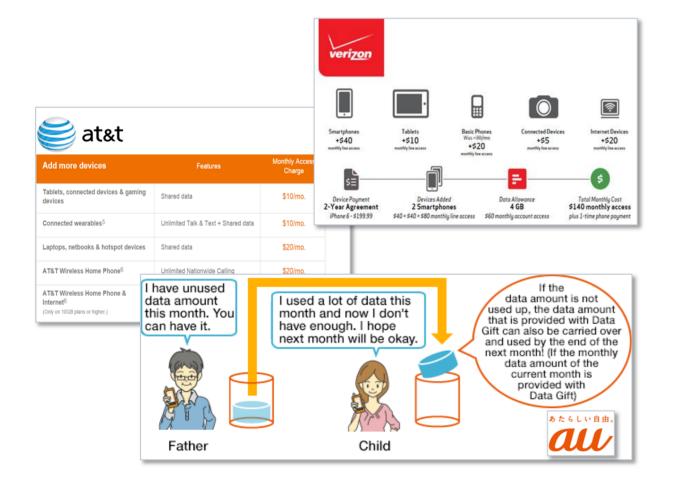
- Option for new revenue streams while optimizing network infrastructure
- Internet traffic can be treated differently (e.g. throttling)
- Identify the subscriber, the application, content and device

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

Try & Buy, Loyalty



Trials prove value – once it ends subscriber can opt in for regular services.

Loyalty programs combined with more generous mobile data handling – e.g. omitting QoS reduction, providing an excess amount at the end of a booster pack.

Loyalty programs, extended to 3rd parties.



Try & Buy, While The Stock Lasts

Trial products with capabilities to manage their lifecycle, allowing automatic / conditional renewal.

While stock lasts promotions, limiting the number of available products.

Realtime Loyalty Programs

Realtime experience while earning / spending points & personalized coupons. Managing loyalty status and benefits.



Options to integrate with 3rd parties.

Customer Value Score

Constantly updated for each customer based on KPIs, based on current usage and history.



Allows targeted promotions, is available for CRM to optimize care processes.



Differentiated products

From generic offerings to value based offerings. Experiment with innovative tariffs. Tailored, contextual offers to the right individuals.

Customer Focus

Aim to delight. Obtain better customer insight with real-time view. Understand the customer and contextual value. Engage, not broadcast.

Efficient & Agile operations

Solutions handling the exploding data amounts. Virtualized based systems. Extremely fast time to market. Optimize operations to ensure agility





KEEP CALM **AND** Enjoy

