# Industry Landscape - when everything changes

Malta, January 28th 2011

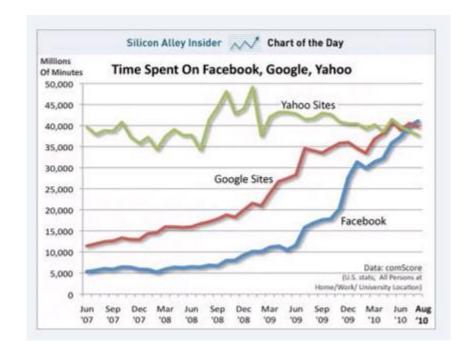
Alessandro Di Salvo

Head of Sales, South Europe



# The pace of disruptive changes in our industry accelerates - example Social Networking

- Facebook was just founded in 2005not long ago
- Time spent for Social networking surpassed Email in 11/07
- Social Networking Users surpassed Email in 07/09
- In the U.S. Facebook passes Google In Time Spent On Site in 08/10
- Social networking capabilities evolve rapidly: Chat, VoIP, Sharing, Location ...



- When will Social Networking surpass telecoms communication services?
- How can CSPs benefit from Social Networking?

Source: Morgan Stanley 2010, <u>www.businessinsider.com</u>



### **A Provocative Statement**

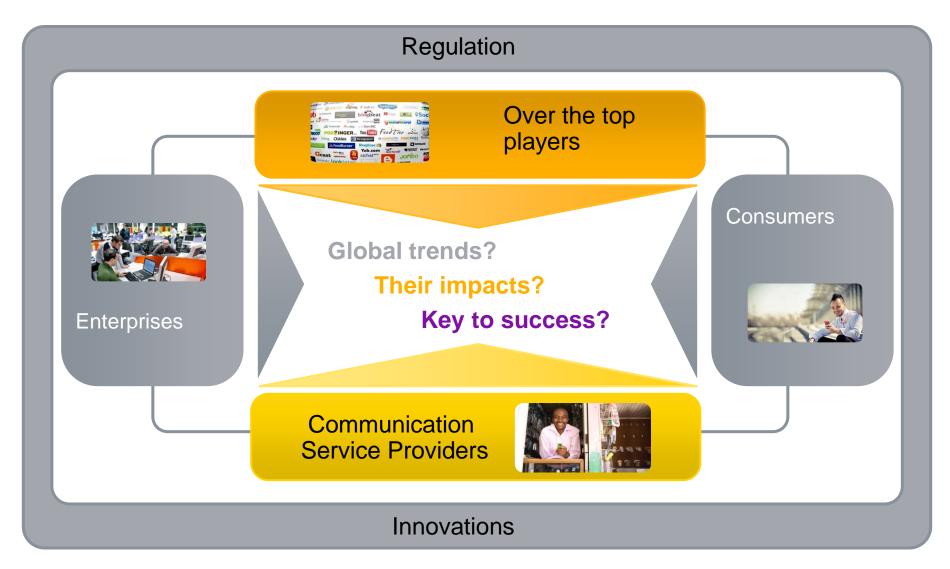
Where do innovations come from?

"We watch Google very carefully; we watch Amazon very carefully; we even watch eBay very carefully, because the learning will not come from watching AT&T and Telstra"

JP Rangaswami, Director of BT Design



## When everything changes





#### Consumers

## - In search for a better experience



#### **Declining loyalty**

- Less than 50% of customers are loyal
- Dissatisfaction drives churn
  - network & service quality becoming an issue

Churn continues to hit margin

#### Multi-screen broadband

- Globally 32% of Internet users are "Everywhere users"
- Blurring boundaries converged fixed mobile internet bundles gaining popularity

New differentiated business models

#### Web x.0 drives behavior

- "Free" Internet communication and social networks substitute CSP services
- Individual media discovery and consumption lowers VAS revenue opportunities

Inroad of Internet economics



### **Enterprises**

### - In search for efficiency gains



#### Cloud computing is taking off

- Software is considered as a service
- Data traffic security remains a concern

Leapfrog in efficiency needed

#### Web2.0, Unified coms and mobility join

- Employees and enterprises are embracing web 2.0
- Mobile UC is seen as a mean for productivity

Business beyond voice and broadband

#### Vertical services gain momentum

- Request for outsourcing and M2M managed services is increasing
- New players enter the market

New skills & delivery model important



# Communication Service Providers - In search of the sweet spot



## Indifferent broadband offers

- Accelerating capacity demand, at shrinking flat rates and ARPU
- Pricing disconnected from costs

## Dynamic Landscape

- Strong launch activity in seven service areas
- Content services heavily launched

## Disruptive Strategies

- Advanced wholesale, such as reselling customer intelligence and access
- New multi-screen strategies



Service space crowded

Positions endangered



# Over-the-top players - challenging CSP's foundation



## New ecosystems

Ecosystems around

- Video
- Social networking
- Search
- Device

drive industry and traffic

## New experiences

- Individualized and context specific
- Communication & media experiences

## New business rules

- User payments play a minor role
- Transaction based business dominates
   e-commerce and advertising



New solutions for the digital life needed

Undercutting of traditional telco business models



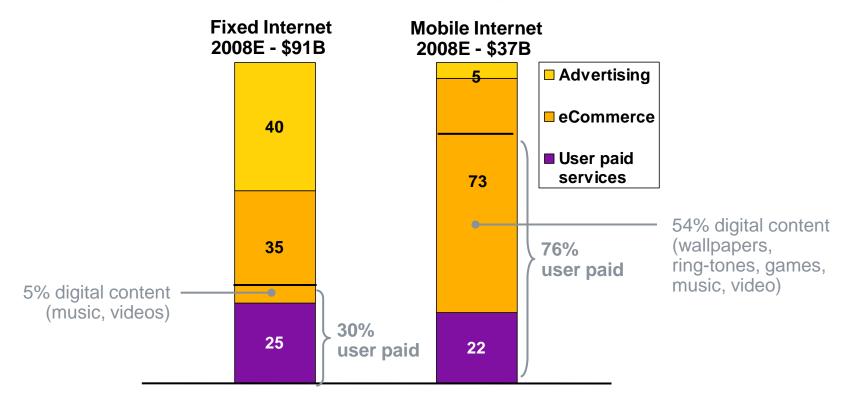
### New business rules

## - changing revenue sources



Nokia Siemens

#### Revenue Mix (ex. connectivity)



- Mobile Internet service revenues still dominated by end user payments
   but for how long as Internet economics move into mobile?
- Multi-sided revenue streams needed ATPU complementing ARPU and AMPU

### Regulation

### - bringing limits and opportunities

#### **Net neutrality**

- Service providers cannot block usage of Over-the-top (OTT) services (e.g. Skype and Google)
- Traffic prioritization is not always allowed

#### **Roaming fees**

- Regulators want to reduce roaming and interconnections fees
- EU plans to stop roaming fees in 2015 in the biggest roaming market

#### **Environment**

- Government pressure drives industries to reduce their ecological footprint
- ICT seen in key role when moving to lowcarbon economy



Drop in roaming fees directly hit CSPs bottom line results

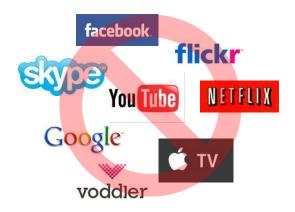
Opportunity for CSPs helping other industries to become greener



## Net neutrality removes entry barriers

- Blocking of lawful services not allowed
- Traffic prioritization sometimes allowed
- Consumers must be informed about prioritization
- Regional differences
  - EU:
     No final decision yet, but neutrality supported
  - Chile:
     First with net neutrality law in Latin America
  - USA: Neutrality proposed only in wireline
  - CSPs cannot limit competition from Internet players
  - Co-operate to create better customer experience

"I am committed to keeping the internet open and neutral" Neelie Kroes, European Commission Vice-President for the Digital Agenda





## **Technology**

### - taking a holistic view

#### **Chain reaction**

- One technology drives another technology or business model
- A catalyst, like iPhone, is often needed for service take-off
- Soft issues can hinder take-off

#### **Cloud computing**

- Enterprises looking for flexibility and reducing fixed costs
- Cheap bandwidth drives cloud services
- Security, performance and availability are key

#### **Mixed networks**

- Various technologies running in parallel
- Number of devices to explode (e.g. M2M)

Disruptive impact on the business

Importance of the network increases

Automation and selforganizing networks important



#### **Pure Network Infrastructure View**

## **Key Trend**

## Challenge

## Solution

- Mobile broadband boost by Smartphones
- Signalling traffic explosion generated by mobile Apps
- Internet HSPA, smartphones optimization features

- Video consumption acceleration by reducing digital dividend
- IP Core processing power demand exploding
- Multi-layer optimization, i.e. combined OTN switching and MPLS-TP adoption

- Smart cities call for "internet of things"
- IP addresses, signalling and data traffic increase, security, identity management
- IPv6, flat architecture, unified subscriber database, policy control



#### Put the customer in the center

#### evolve to the Network of One

One Simplified network One Flexible service delivery

One Agile operation



Holistic approach to efficiency and experience



## One day in a connected life

Personalized news is streamed to the home's 3D HDTV wall

Peter is already working, controlling an assemble line remotely from his home office

The doorbell rings, and all screens switch to door cam view

Linda gets into her e-car. and downloads the latest air travel information

Linda reserves an e-car 'park & charge' space at the airport

At the office, Linda joins an HD video conference with her team

The Smart grid recognizes the home's energy need in real time

... and then she uses her tablet device to turn the oven on

Linda uses her tablet device to start up the cleaning robot

Linda is woken up by her tablet device, and checks her social networking pages



Linda now can relax and watch a movie streamed from her personal library

Time for a workout body sensors transmit vital signs to Peters personal trainer

The weather is great, so Peter continues to work in the park, using his tablet device

Peter shares a video of their daughter with Linda using his Smartphone

Linda is now in a shop, paying for goods via her **Smartphone** 

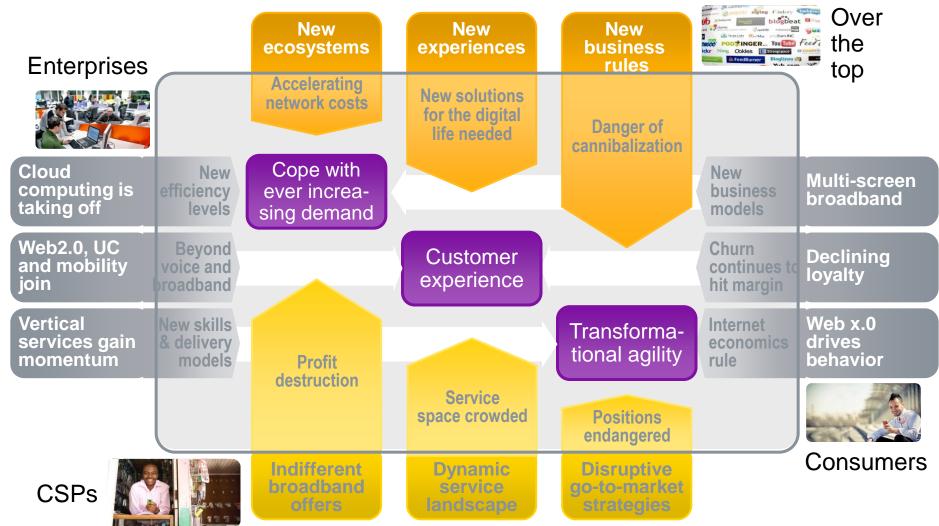
She notices tourists nearby using augmented reality glasses for sightseeing

Linda's car navigation directs her to the reserved e-car parking space

She is checked in automatically and her Smartphone receives the latest flight updates

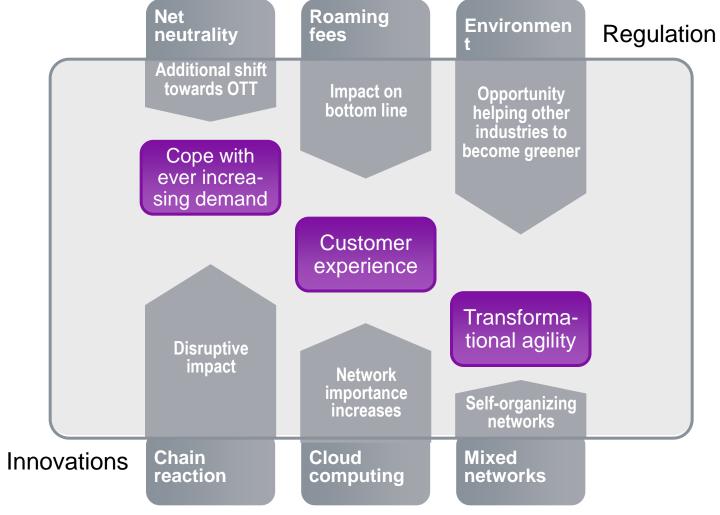
Linda reioins the video call with her global team via her tablet device

# We believe there are three key areas that are critical for CSP success in the changing industry



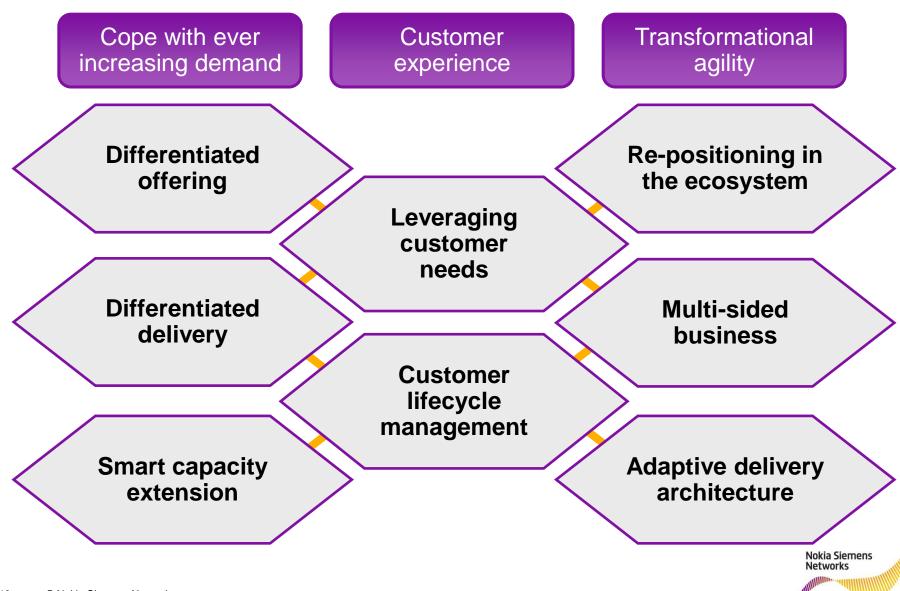


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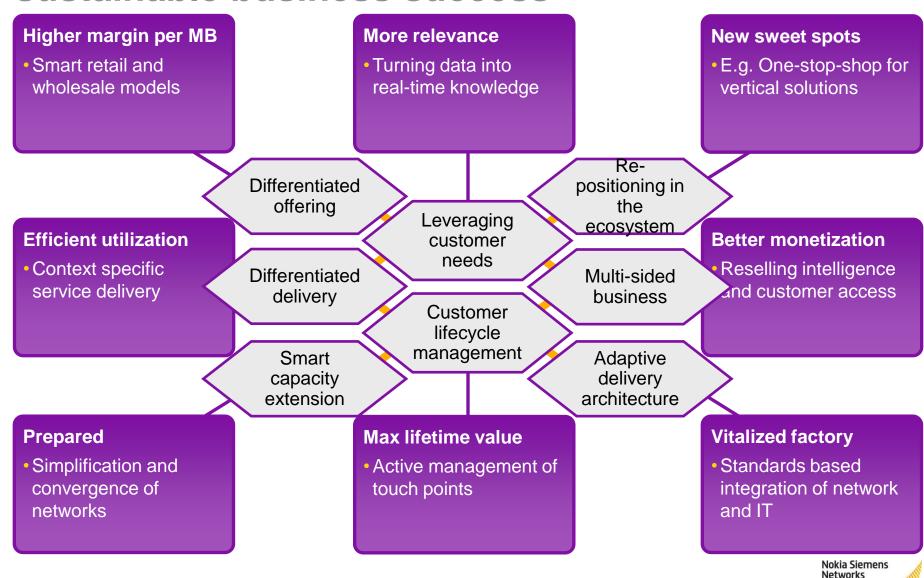




# Industry trends call for eight initiatives to ensure sustainable business success



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## **Summary**

## - When everything changes











#### Landscape movers

Cope with ever increasing demand

#### What CSPs have in their mind

Traffic monetization

#### **Urgency to act**

Margin per bit to be lifted due to profit destruction

**Customer experience** 

Customer relationship monetization

Over-the-top players occupying the customer

Transformational agility

**Sweet spot** exploration

Disruptions endanger current positions

