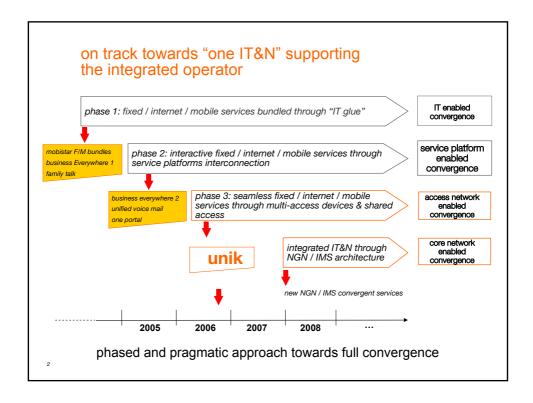
On track to deliver 21st century services

JP. Vanot Senior Executive VP, IT&N

V. Badrinath Executive VP, IT&N







transformation of processes & organisation

a group technical organization created

 mid 06, central technical organizations, from fixed, mobile, internet & content services merged into one unique division

local IT&N entities integrated a unique IT&N entity set up, or in progress, in most of Orange countries ("domestic network factory") to spread out services created at the "Technocentre"

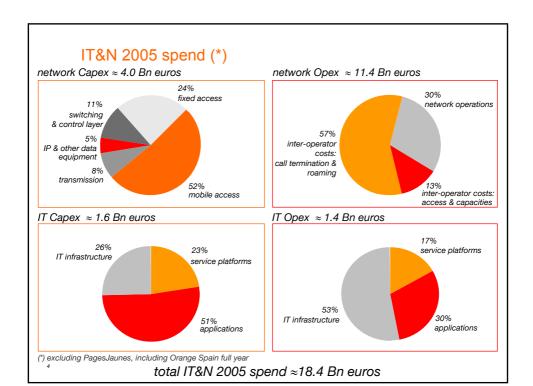
shared services driven at group level

- merged International backbones
- information system development
- central coordination and support for network inter-operator costs and wholesale

new IT&N governance

- major technical processes defined and implemented
- · key decision making bodies set up

new organisation on track to deliver the full range of convergent services



IT&N Capex & Opex guidance

june 2005

- IT&N Capex to sales to remain between 10 11% over 06 08
- Opex savings: up to 2 pp of GOM in 08 vs 05 with flat Opex (12.8 Bn euros in 08) due to expected revenue growth

december 2006

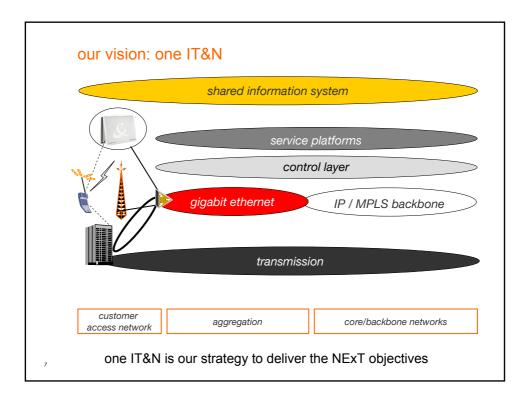
- IT&N Capex of 10 -11% of sales is confirmed
- IT&N Opex savings of 2 pp of GOM is confirmed, plan to reach in 08 500 800 Mn euros gain, given a lower revenue trend

a more challenging guidance for IT&N Capex & Opex

the network







next generation network: fixed VoIP development

achievement

VoIP started as second line offer (France, UK, Poland, Netherlands) first line currently offered in France and in the Netherlands customer base in Europe end of Q3 2006 > 2 million wideband (VoIP enhanced)

started in France

outlook

wideband

- rolled out in most Europe Orange countries in 2007 migration to SIP(*) in 2H 2007 will
- prepare SIP convergence offers
- take advantage of the SIP industry support for network, gateways and handsets

first line offered

- by January 2007 in Spain
- in the UK and in Belgium in 2007

(*): Session Initiation Protocol

next generation network in the mobile: new MSC architecture roll-out

target

new standardized MSC architecture (softswitch): splitting the traditional MSC into 2 components:

- the MSC-Server(*) for the control layer
- the Media gateway (MGW) for the connectivity / transport layer

achievement

main benefits:

- switching and transmission savings: ≈ 40% savings on TCO(**)
- scalability, network resilience improvement
- future proof solution: IP introduction on shared IP backbone, ready for IP interconnection and IMS(***) introduction

3 suppliers selected in 1H 2006

outlook

- deployment by swapping the traditional MSC when relevant (country per country decision)
- (*): Mobile Switching Center Server
- (**): Total Cost of Ownership
- (***): Internet Protocol Multimedia Subsystem

NGN / IMS solution selected to provide fully integrated services

target

integrated IT&N through NGN / IMS architecture

achievement

- pre-IMS solution used for VoIP SIP services (in fixed networks)
- selection of IMS providers is ongoing

outlook

- IMS providers selected in 1H 2007
- testing for introduction by the end of 2007
- gradual phase out of PSTN switches to begin from 2008, starting with MT25 2G switches

network Capex and Opex optimization: radio site sharing

achievement

agreement with Vodafone for sharing network infrastructure in Spain within areas below 25,000 inhabitants

outlook

3G UTRAN(*) sharing

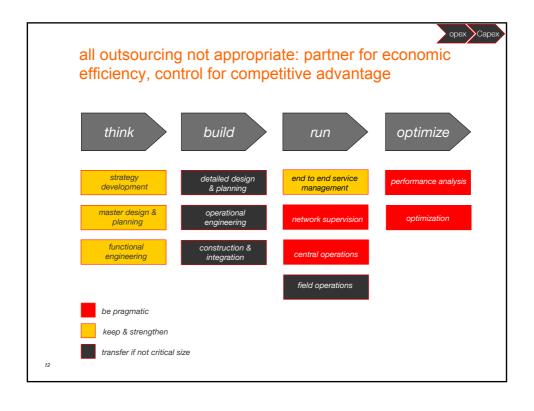
- 5,000 radio sites common roll-out in 4 years
- operational by 2H 2007, first time in Europe

2G site sharing

- optimization by decommissioning and re-installation of equipment in the operator's site responsible for the area
- important Capex and Opex savings at stake over the 5 coming years (200 Mn euros expected)
- further operations under analysis

11

(*): UMTS Terrestrial Radio Access Network



opex

network operations optimization: example of Switzerland

achievement

- first line maintenance (on-site) and site infrastructure management
 non significantly differentiating activity
- no economy of scale achievable within the group
- situation up to 3Q 2006: 2 subcontractors
- new situation: one single partner from 3Q 2006
 =>forecasted Opex savings ≈ 40% in 06-08

transfer

outlook

ongoing projects through Orange footprint to implement new make or buy policy

(in Belgium, in the Netherlands, additional steps in Switzerland)

be pragmatic

1

operations optimization: an example of cross-border synergies

target

activities performed by France for UK regarding a new 3G technology in the UK:

- 24x7 3G network element monitoring
- first time fix, trouble ticketing
- level 2 & 3 support / expertise
- · interface with vendor

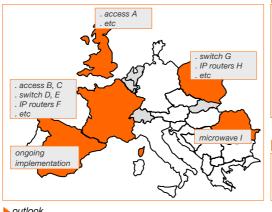
achievement

key benefits:

- expertise concentration
- improved operational efficiency & QoS
- Opex reduction ≈ 25%
- leveraged management of vendor

keep & strengthen

operations optimization: corporate Skill Centers implementation



Orange aims at implementing one single corporate skill center (SkC) for each technology in charge of:

- technology policy
- specification
- tests and implementation

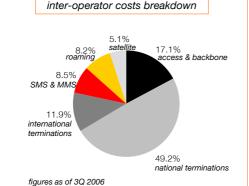
achievement

- 20 SkCs already launched
- 16 under implementation

outlook

- ≈ 100 Skill Centers targeted by 2008 for network and service platforms
- corporate skill centers will reduce IT&N Opex and optimize technical skills management

network inter-operator spend optimization



target

objective is to achieve savings representing 1pp on Opex to sales ratio by 2008.

achievement

insourcing

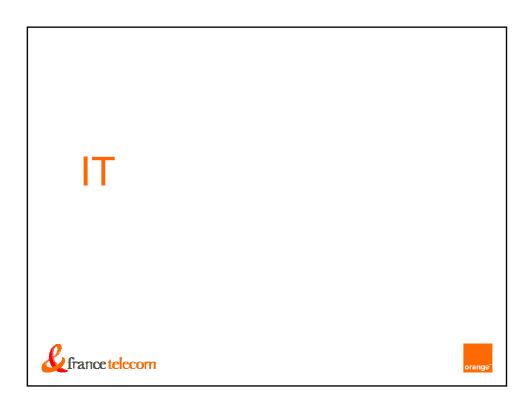
- access and backbone synergies
- internal traffic routing joint procurement approach & sourcing strategy cost assurance mastering of unlimited offers

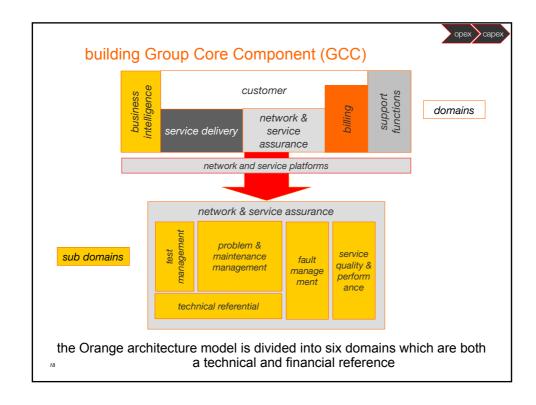
outlook

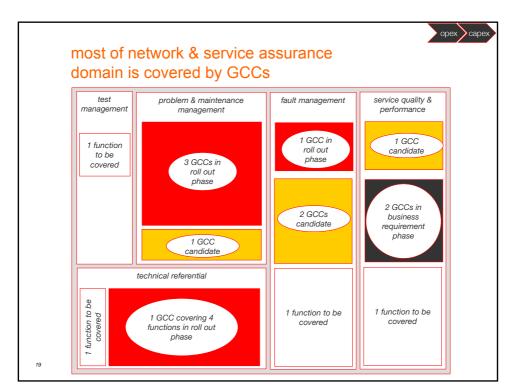
mastering call termination & roaming

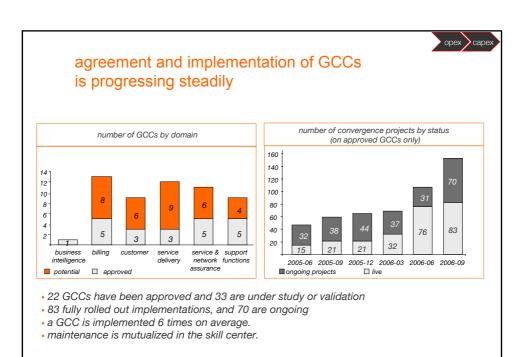
- improved control over abundance
- termination costs decreasing wholesale control at group level

call termination costs are the major cost segment









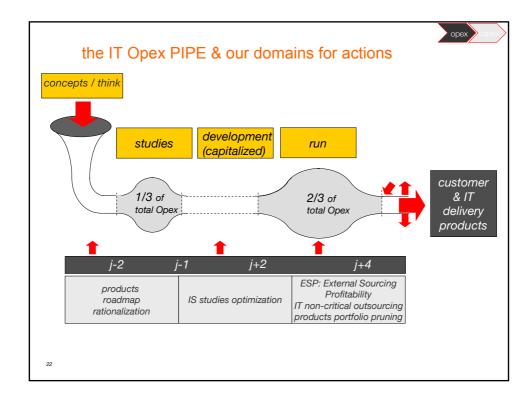


IT active suppliers portfolio management enables rationalization & cost management

example of France	2003	out	in	2005
suppliers	63	- 29	+ 16	50

overall IT services prices have been contained, with a slight decrease compared to 2004 baseline, involving a price evolution in the 3 countries (France, UK, Poland) of about 5% on unit costs

• referenced new offshore IT suppliers within the core list of suppliers





from a heterogeneous billing system situation to a streamlined current situation

target

mobile business

billing system version

Belgium BSCS V5.1 Botswana BSCS V6 Caribbean BSCS V5.0 US => V8 BSCS V5.0 US => V8 Dominican Egypt BSCS V6 BSCS V5.21 => V8 Ivory Coast BSCS V5.21 Jordan BSCS V6 Madagascar Netherlands BSCS V5.1

BSCS V6

objective of our new billing solution project (BSCS):

- cost optimization through consolidation of supplier base
- better sharing and re-use of developments
- ensure viability of BSCS maintenance until implementation of new system

Spain achievement

the total annual spend for previous billing system was 15.8 Mn euros with a heterogeneous situation:

5 suppliers and 10 countries.

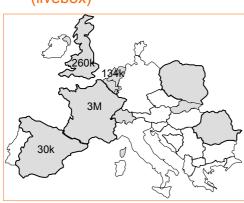
outlook

12 Mn euros savings (25%) over 3 years

23

industrialize home gateway remote management (livebox)





target

scope and context

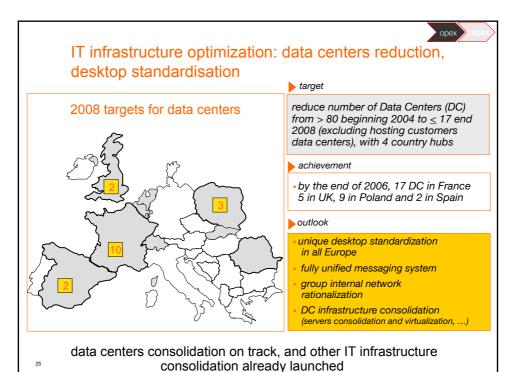
- firmware livebox update for 4 countries
 - + franchise entities
- wifiphone and liveradio updates
- 3 launches per country in 2006
- equipments audit value added of Karma
- precise equipment management
- target off-peak period
- target per subscribed services

achievement

- deployment gains of around 4Mn euros per year in direct costs + time to market opportunities
- a clear improvement of the brand and the QoS (i.e. indirect gains)

outlook

in 2007, introduction in Poland, Belgium, Slovakia, Switzerland, diminution of generalisation delays, immediate update on customer care request



Conclusion

- technology roadmap on track to deliver converged products and services
- cost optimization improvement programs in place and delivering savings in view of increased challenge
- inter-operator costs on track to deliver 1pp improvement
- => on track to deliver ambitious IT&N guidance on Capex & Opex, and put in place network, IT and service platforms enabling 21st century services

glossary

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BSCS

Business Support and Control System FTE Full Time Equivalent

IMS Internet Protocol Multimedia Subsystem

IΡ Internet Protocol IS Information System IT Information Technology MGW

Media Gateway

MPLS Multi-Protocol Label Switching MSC Mobile Switching Center MSC-S Mobile Switching Center Server MT25

2nd Generation Fixed Network Switching Center Next Generation Network

NGN **PSTN** Public Switched Telephone Network

QoS Quality of Service SIP Session Initiation Protocol TCO Total Cost of Ownership

UTRAN UMTS Terrestrial Radio Access Network VolP

Voice over Internet Protocol Wifi

Wireless Fidelity

(*): UMTS Terrestrial Radio Access Network