



Applications and Solutions

What the future in Russia and Eastern Europe will look like

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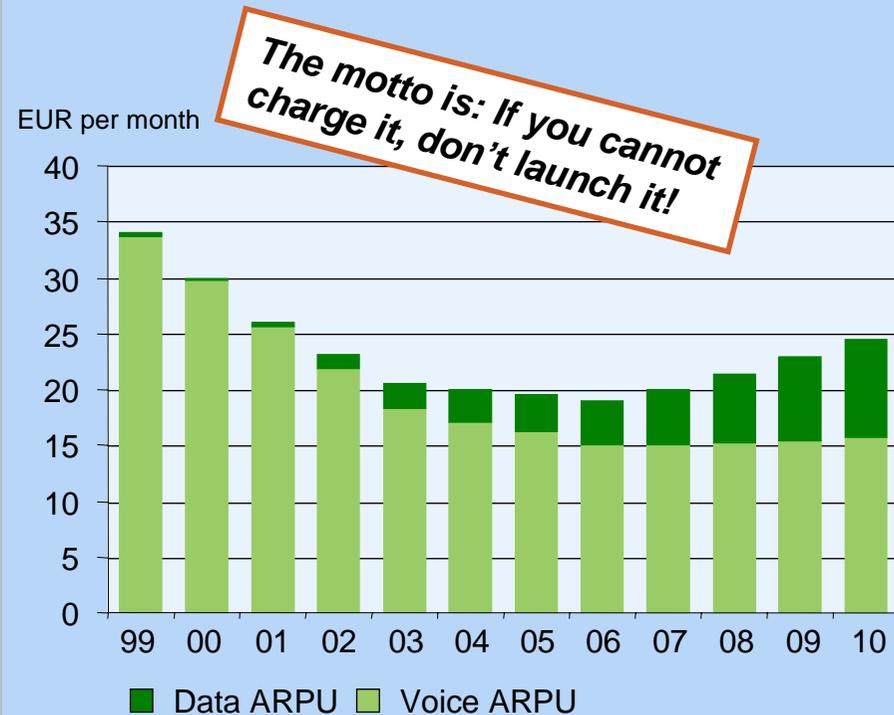
Siemens mobile networks
Moscow, September 2004

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Apart from the roll-out of a smart network operators can increase ARPU by introducing innovative mobile services

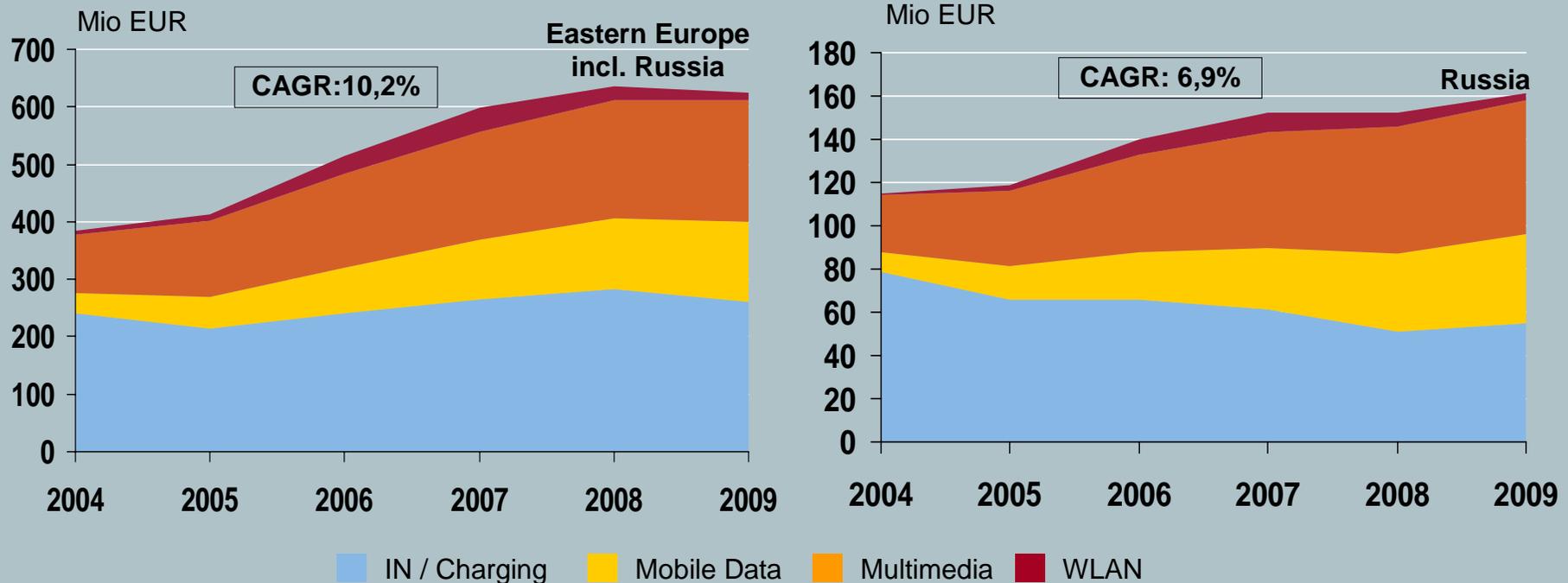
With innovative mobile services operators can

- Increase their data ARPU up to €2 through multi-media services
- Increase enterprise ARPU up to 70%
- Charge everything they launch
- Secure growth and ARPU through flexible and fast tariff changes



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The demand for innovative mobile services in Russia and Eastern Europe will increase within the next five years

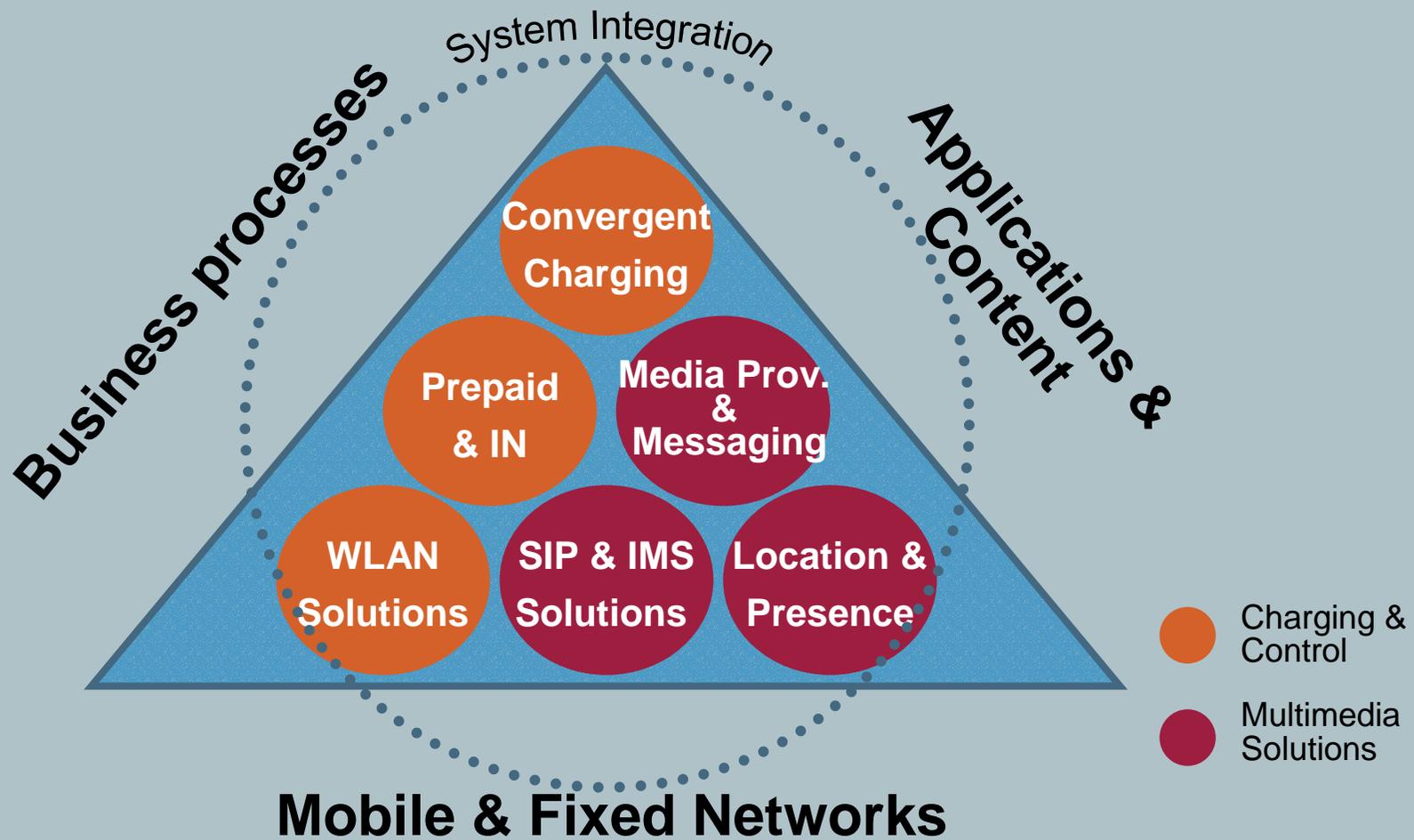


- Growth mainly triggered by ramp-up of Multimedia Services, Mobile Data, and Convergent Online Charging (leveraging and expanding Prepaid Solutions)
- Croatia, Serbia, Bosnia-Herzegovina, Macedonia, Slovenia, Romania, Bulgaria, Hungary, and Poland grow significantly above EE-average (CAGR: 10,2 %)

Source: ICM N SM MA, August 2004, incl. Service

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What the future in mobile communication in Russia and Eastern Europe will look like



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It is all about seamless user experience and increased enterprise efficiency

End-customer expectations

Challenges for the Operator

Freedom of choice



Present a broad variety of best-in-class services along with flexible pricing

Don't care for the network



Provide services agnostic to networks and technologies

Personalized communication



Adapt services to context and user profiles

Unleashed potential



Support corporate customers' business processes

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It can be seen as a leadership strategy for operators to focus on ...



Applications and services to generate revenue and increase APRU

Convergent Online Charging to secure revenue

System integration to address subscribers' expectations of a seamless user experience and increased enterprise efficiency

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Operators who are already navigating towards 3G can also increase their ARPU by pushing New Multimedia Services

Communication



- Push and Talk over Cellular
- Instant Messaging
- Picture Chat
- Multimedia Conferencing



Multi-Media
Multi-User
Multi-Session

- Photo Share
- Push-to-Flirt/-Show
- Person-to-Person Gaming
- Audio and Video Streaming

- Info Channel
- Information Sharing
- Interactive guidance
- Collaborative working

Information



Entertainment

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Next generation messaging (NGM) stimulates new messaging revenues by comfortable and simple user experience

Messaging today

End-User View



click

save

send



via MMS

via Email

via SMS

via IrDA

to MML

pictureshare

Technical View

SMS

VMS

UMS

MMS

WAP

NGM allows simplicity...

...and tomorrow!!



click, save ,
send, buy...

via NGM



Reduce

Opex

Time to
Market

Capex

Data

Functions

Interface Layer

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Push and Talk & Instant Messaging bind existing and attract new users with community services

Simply press a button and speak - „Walkie-Talkie“ style

Send immediately messages to one or more of your peers depending on their presence & availability

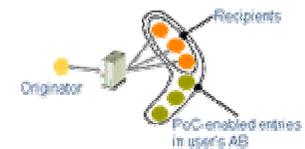
Chat Group



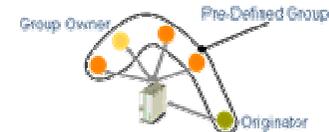
1-to-1 sessions



Ad-hoc instant group talk



Instant group talk



Trendsetting options for communities

- Kids community loves multimedia chat

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Multimedia Streaming and Download allow profitable business with multimedia content



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Location Based Services increase ARPU by enriching applications with subscriber's position

A-GPS high-accuracy positioning opens high-revenue location market

Mobile operators can chose a tailored solution for all their requirements

Low-investment entry solutions are also available for high-accuracy positioning

Future-proof investment through Siemens involvement in standardization

A-GPS compliant to 3GPP & (new) to OMA



safety



tracking



info



mapping

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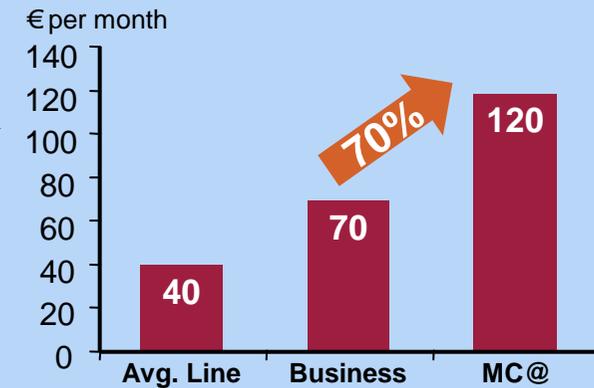
Operators have different levers to raise revenue with innovative applications and solutions

They can raise the revenues by

Attracting enterprise customers to mobile networks

**Example: Netcom
MobileCentrex(@vantage)**

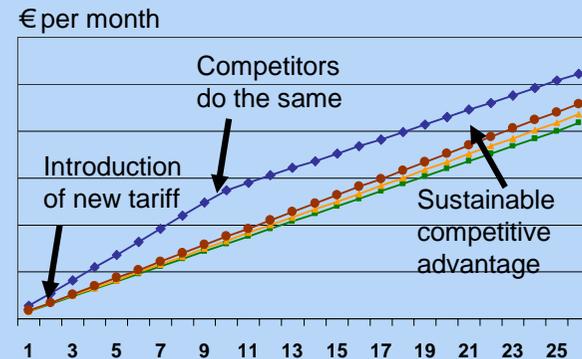
**Increased
ARPU with
MobileCentrex**



Driving market expansion with flexible tariffs and loyalty programs

**Business Case Calculation: Operator to
increase revenue with a new tariff model**

**Revenue
vs. weeks
since
introduction**



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Convergent Online Charging increases the end-customer's loyalty and revenue



for all networks

for all charging models

converging prepaid & postpaid

supports flexible tariffs and loyalty programs

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Market demands for Convergent Online Charging

Differentiation



uniform environment for rating, account management, and customer loyalty / bonus programs

Flexibility and time-to-market



multi-layered rating customization

Revenue assurance

real-time systems based on telco grade IT

Investment protection



future-proof solution

Cost reduction

converging prepaid and postpaid infrastructure

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Summary



Multimedia Solutions

- Fully integrated context-aware multimedia solutions



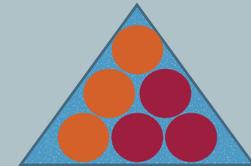
Convergent Online Charging

- Flexible charging for all services, all networks, converging prepaid & postpaid



Competence in system integration

- Customized and comprehensive end-to-end solutions



Solutions for profitable growth

- allow fixed and mobile carriers to offer differentiating value add, and
- leverage applications & content, communication, and business processes

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Let's make it happen!

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