# Fixed-to-Mobile Convergence

aus Sicht der Vodafone D2 GmbH

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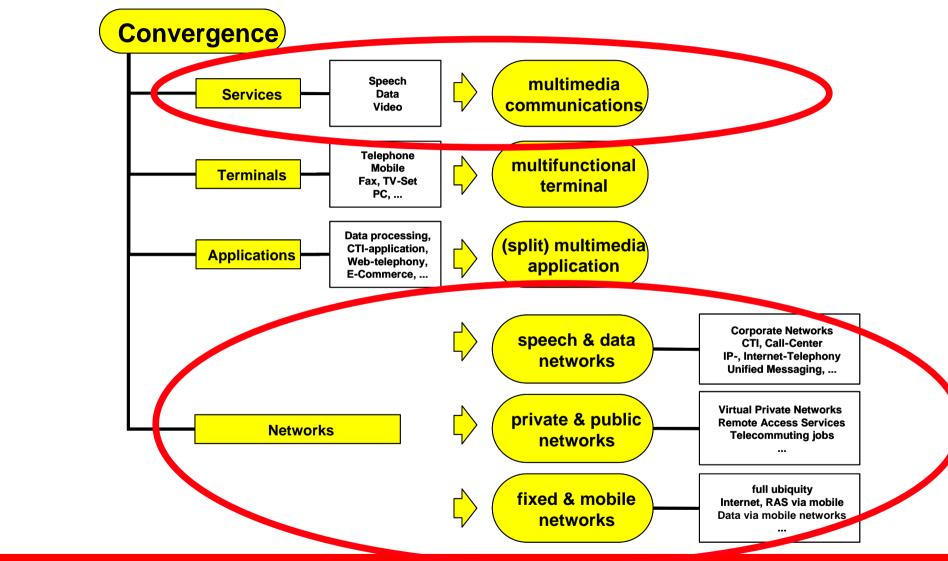


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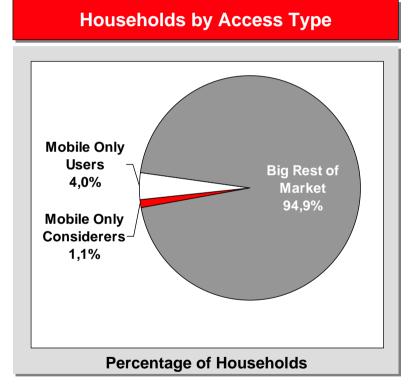


# **Different Types of Convergence...**



## **FMC/FMS - Market Considerations**

 Only a small minority of households have already substituted their fixed network access or plan on doing so - but the vast majority remains unaddressed by current MNO offers.



#### **Segment Characteristics**

#### **Mobile Only Users**

- Substitution already made
- Partly unattractive segment

### **Mobile Only Considerers\***

Easily approachable if key barriers are overcome

### **Big Rest of Market**

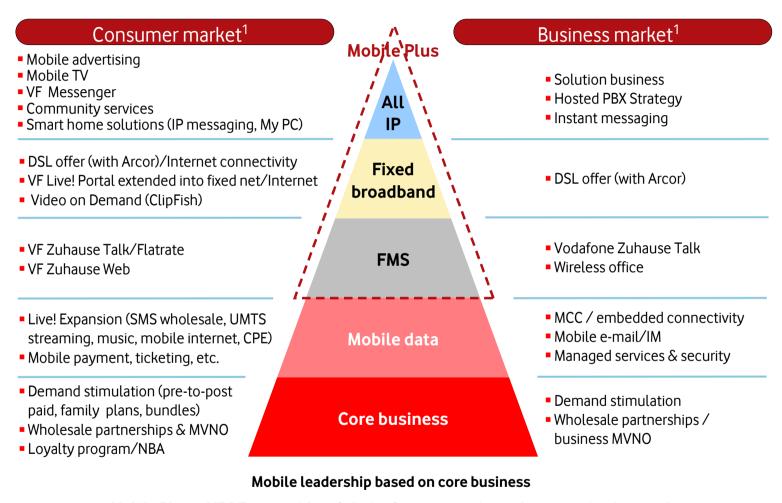
– No need for FMS - or simply no fitting offers available?



<sup>\*</sup> Planning to substitute fixed line access for mobile only within 6 months

Source: Telebasics Home / FAZ 17.5.2004, p.21 / Statistisches Jahrbuch / SKP calculations

# **Leveraging Mobile Leadership**



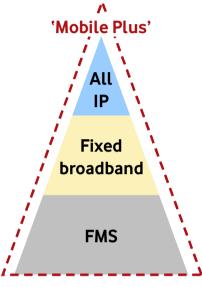
Mobile Plus = VF DE as provider of choice for customer's total communication needs

1) Examples

CPE = Consumer Push E-Mail



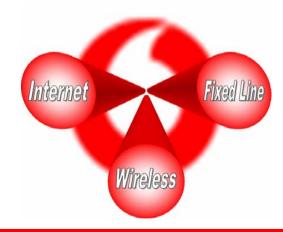
# **Leveraging Mobile Leadership**



## **Mobile plu** ReInvents "Mobility"

Access to a broad Class of Services through Vodafone:

- In any Location (@home, @work, on the move)
- In any Network (mobile, fixed, WiFi, Internet)
- On any Device (Mobile Phone, PC/Laptop, etc.)
- One address/number, best customer experience, optimum cost



# FMC Products: Vodafone Zuhause DSL (launched 10/2006)







#### **Proposition**:

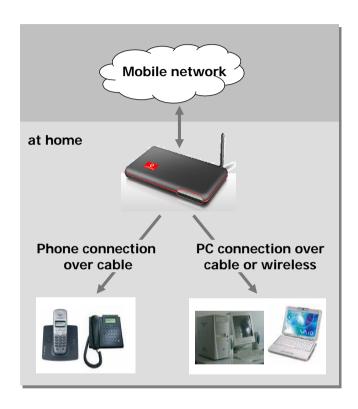
 cheap calls and heavy internet access at home

#### Features:

- a mobile, fixed network and DSL Internet flat rate
- A fixed network number is included
- Vodafone DSL 6000 with three times the regular DSL data transmission speed for only 5€/month extra
- Start surfing straight away with a mobile phone modem at no extra cost
- Combinable with the Vodafone KombiPaket Zuhause or Zuhause Talk24 options
- 24-month minimum term
- Provided in a joint venture with Arcor
- DSL activation from 16 October 2006 onwards



#### **Vodafone Zuhause Talk & Web Box** (launched 10/2005)



## **Proposition:**

cheap calls and internet access at home or in the office

#### **Product features:**

- regional restriction to Zuhause zone
- Plug&Play: put the box anywhere and plug it in
- Connect it to PC or Laptop: either with cable or without (wireless over WLAN)
- Insert DECT or POTS phone
- Talk- & Web Box connects automatically for phone calls (2G) and internet services (3G)
- simultaneously make phone calls and use the internet

## **Technical enablers**

 Generally, the Zuhause zone is defined on a per cell basis. Different alternatives are investigated to define the zone more precisely to reduce the cannibalisation effects of the Zuhause tariffs.

Zuhause and Zuhause & mobil







- Zuhause zone is defined when the tariff is ordered
- IN platform is used to check the position of the phone
- solid 2G indoor coverage

Zuhause Web

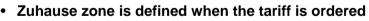




- Zuhause zone is defined when the tariff is ordered
- location server is used to check the position of the data equipment
- solid 3G indoor coverage with HSDPA

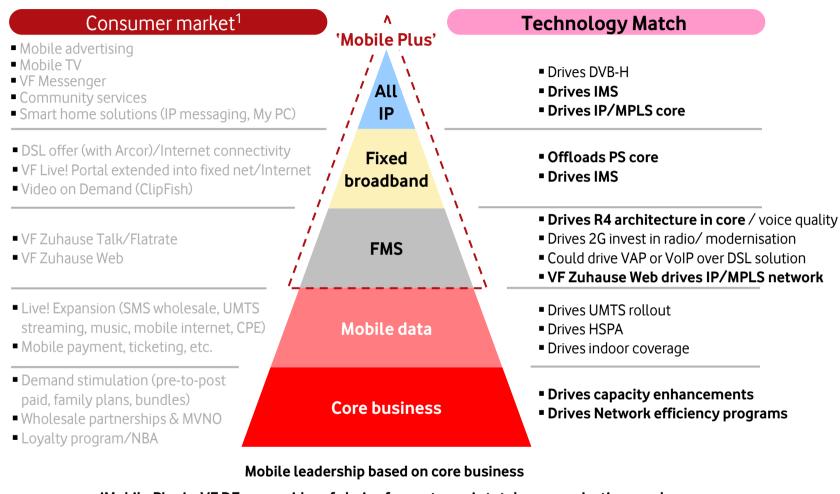
Zuhause Talk & Web





- IN platform is used to check the position of the box
- solid 2G and 3G indoor coverage
- HSDPA for higher data rates available

# **Technology Match for Consumer Market**

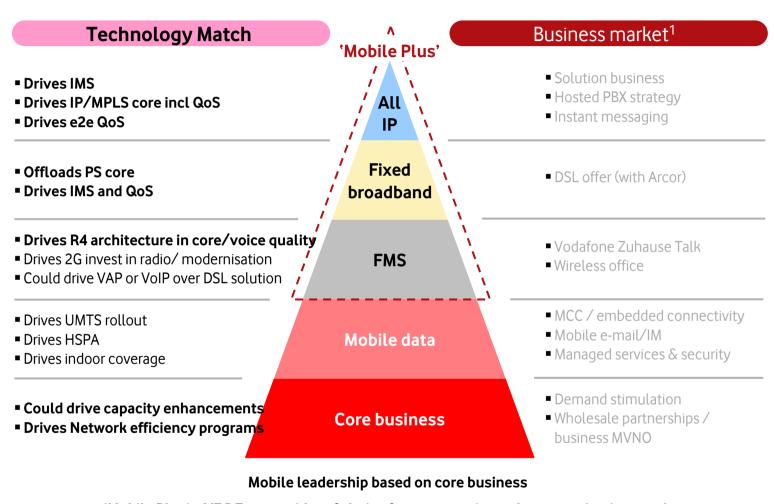


'Mobile Plus' = VF DE as provider of choice for customer's total communication needs

1) Examples CPE = Consumer Push E-Mail



# **Technology Match for Business Market**



'Mobile Plus' = VF DE as provider of choice for customer's total communication needs

CPE = Consumer Push E-Mail 1) Examples



## **Conclusions**

1. Service convergence is necessary to ensure future revenue growth



3. Service and also network convergence depends on economic efficiency and (realistic) forecasts of demands

Dr. Andreas Jungmaier, TNE



# Thank you!



Make the most of now!

Fixed-to-Mobile Convergence bei VF-D2

**Backup** 



# The Basics: FMC – Definition (ETSI)

"Fixed Mobile Convergence (FMC) is concerned with the provision of **network** capabilities which are independent of the access technique.

This does not imply the physical convergence of networks. It is concerned with the development of a converged network architecture and supporting standards. This set of standards may be used to offer fixed, mobile or hybrid services

An important feature of fixed mobile convergence is the separation of the subscriptions and services from individual access points and terminals and to allow users to access a consistent set of services from any fixed or mobile terminal via any compatible access point. An important extension of this principle is related to inter-network roaming, users should be able to roam between different networks and to be able to use the same consistent set of services through those visited networks".



## **Vodafone Zuhause Talk**

# (launched 11/2004)



19.01.2007

Einfach günstig ins Festnetz.

## **Proposition:**

Cheap calls into the fixed line network - easy & convenient

#### Device:

- with special handset and cradle
- or SIM only, with existing customer handset

#### **Product features:**

- regional restriction (incoming and outgoing calls) to the Zuhause zone
- Complementary to existing mobile tariff
- currently 2G only

up to 06/2005: Incoming calls at mobile rates since 06/2005: fixed number and incoming calls at fixed rates

## **Vodafone Zuhause Option**

# (launched 10/2005)



## Proposition:

 Cheap calls into the fixed line network – easy & convenient

#### Device:

no additional handset required

#### Product features:

- customers use their existing mobile handsets and receive a preferential tariff for outgoing calls inside the Zuhause zone.
- fixed number and incoming calls at fixed rates when at home
- HO from the Zuhause zone to the regular network and vice versa without loss of service
- currently 2G only

## **Vodafone Zuhause Web**

# (launched 03/2005)



## • Proposition:

 at home and in the office convenient and cheap internet access

#### Product features:

- Zuhause zone indicator at dial-up (,Landing Page')
- cell reselection from the Zuhause zone to the regular network and vice versa without loss of service.