

### Elisa Communications Capital Market Days

#### Elisa Kommunikation GmbH

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### **The Elisa Opportunity**



Elisa's ambition is to use the city carrier consolidation opportunity to build a leading facilities-based telecommunication carrier in Germany – but with focus on chosen several regions and certain customer segments

		Facility-based	(Switch-based) Reseller		
Incumbent		Deutsche Telekom			
Full-Service Challengers (full product line, national coverage, all customer segments)		• Arcor • Viag	<ul><li>mobilcom</li><li>debitel</li><li>Talkline</li></ul>		
Focussed Challengers	Product or Customer Focus	• E-Plus (Mobile) • Colt • QSC (xDSL) • Star Telecom (WLL) • MFS Worldcom (LE)	Drillisch (Mobile)		
	Regional Focus	• Versatel (NRW) • NetCologne (NRW) • Berlikomm (B) • Completel (Tier2 cities)	<ul><li>Regiocom (SA, MCI Worldcom)</li><li>R-Com (BAY, Viag)</li><li>Ruhrnet (NRW, Versatel)</li></ul>		



### The consolidation opportunity is to integrate city carriers to overcome their scale deficiencies while maintaining their inherent strengths

### City Carriers' Advantages/Deficiencies

- + Local market knowledge
- + Strong position in SME and SOHO segments
- + Own MANs and local access infrastructure
- Not enough manpower to enhance customer base and product portfolio
- Limited geographical coverage
- Lack of economies of scale
- Lack of financial resources

#### **Consolidation:**

- Centralised process and systems development
- Interconnection of city carriers via national backbone
- Combined purchasing power and easier access to capital markets

### Consolidated Company's Advantages

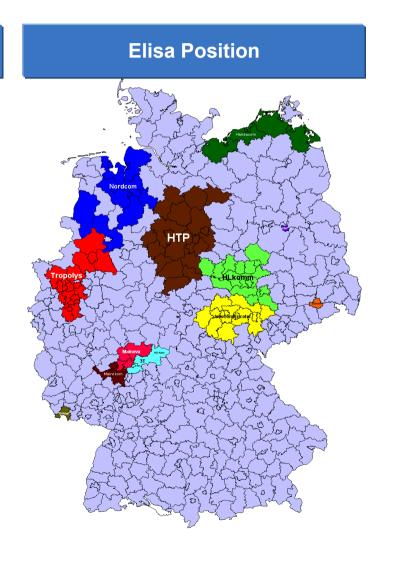
- + Local market knowledge
- + Strong position in SME and SOHO segments
- + Own MANs and local access infrastructure
- + Broader product portfolio
- + Larger customer base
- + Nationwide geographical coverage
- + Economies of scale
- + Financial resources



## Elisa is well positioned to capture this consolidation opportunity and has already established itself as the leading consolidator in Germany

#### Elisa Advantage

- The local carriers give Elisa a strong position in the attractive local access market
- Elisa is well positioned in the SME, municipal and SOHO segments
- Elisa can draw on a full line of innovative services from its Finnish parent company
- Elisa operates with an attractive cost structure
- Elisa combines local responsiveness with national scope
- Elisa replicates a proven business model from Finland to a very similar environment in Germany





## With support from Elisa it is possible for city carriers to overcome their scale deficiencies and regional limitations

#### **City Carrier**

- Limited product portfolio
- Limited geographical coverage
- Customer base restricted to own area
- Lack of economies of scale
- Lack of financial resources

#### **Elisa's support:**

- Broad product and service portfolio
- Coordination of city carrier activities in different regions
- Interconnection of city carriers via national backbone
- Combined purchasing power and easier access to capital markets

#### **Elisa City Carrier**

- + Full line service and product portfolio
- + Linked to a network with nationwide coverage
- + Can serve his local customers outside his own area
- + Improved cost position



## Elisa's Strategy



### For the operational consolidation, Elisa is creating a two-tier structure in which local carriers are backed by a national operator

#### **Holding/Management Activities Local Carriers** Control and cash management **Financial** Local customer interface Control Group management Access infrastructure Umbrella brand (Elisa) Local brands Marketing guidelines Marketing Purchasing agreements Product distribution or resale **Financing National Operator** Product/platform development Operational **Interface** National network Customer interface (Elisa Solutions)



Elisa can draw on experience from a similar strategy executed successfully in its home market, Finland



## Elisa's strategy is to build value through financial consolidation as well as alignment and operational consolidation of its carriers

#### **Financial Consolidation**

- Economic value: Saves transaction costs
  - → Create simpler financial structures
  - → Create larger units
  - → Increase transparency for shareholders / investors



### Carrier Alignment and Operational Integration

- Economic value: Improves efficiency
  - → Align strategies
  - → Realize operational synergies
  - → Combine resource power



## The national operator provides key central services, such as product and operations management

Backbone Capacity	Operations Development & Management	Product Development & Management	Customer Interface	Service/Support Activities
TCL / RMN	ElisaNet Tropolys	Elisa Business Units (BUs)	Mäkitorppa ElisaSolutions / ElisaNet/ City carrier	Elisa/Tropolys
<ul> <li>TCL provides national backbone</li> <li>RMN provides regional network in Rhein-Main</li> <li>Long-term objective is to merge RMN and TCL completely</li> </ul>	<ul> <li>ElisaNet responsible for national network and switching</li> <li>Tropolys responsible for billing, customer relationship management and customer care (CRM/CC), operations management center (OMC)</li> <li>Long-term objective is to merge Tropolys and Elisa completely</li> </ul>	<ul> <li>Initially, 2 BUs: - IN &amp; Voice - Internet &amp; Data</li> <li>BUs provide products, marketing and product support to city carriers and national sales channels</li> <li>BUs work together directly with Finland on operational level</li> <li>Finnish counterparts get an attractive financial incentive to support the BUs</li> </ul>	<ul> <li>Mäkitorppa developed into a national sales operation for residential, SOHO and SME segments</li> <li>ElisaSolutions provides services to large enterprise customers</li> <li>ElisaNet provides services to carriers and opportunistically to mass market</li> <li>City carriers serve customers in their area</li> </ul>	Support activities centralised for the Group as much as possible     Financing     Procurement     Legal/regulatory



- All national operator activities are managed as one integrated organisation
- Some units may be subsidiaries



### The city carriers provide local network infrastructure and the customer interface

#### Capacity

Operations
Development &
Management

Product
Development &
Management

#### **Customer Interface**

Service/Support Activities

- Provide local / regional MANs
- Includes selling capacity on these MANs to other carriers
- Responsible for local access infrastructure
- Objective is to centralize all product development and management at Elisa
- Some activities remain at carrier level short-term
- Provide local customer interface in sales
- Service level support for local problems
- Product distribution or resale
- Local brand, always supported by Elisa umbrella brand
- Local marketing within Elisa's guidelines

- Procurement of equipment using Elisa's frame contracts
- Local staffing activities
- Local administration



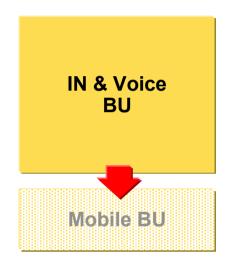
- By default, carriers act as sales agents
- Carriers may act as resellers for specific products or due to local competitive situation



### **Business Units**



#### Currently, there are two business units: IN & Voice and Internet & Data



- Responsible for value-added (IN) and basic voice products
- Also develops the initial fixed-mobile convergence services
- Future separate mobile BU to expand role into valueadded services and further to for instance Elisa brand MVNO utilising bulk airtime as it becomes available

Internet & Data BU

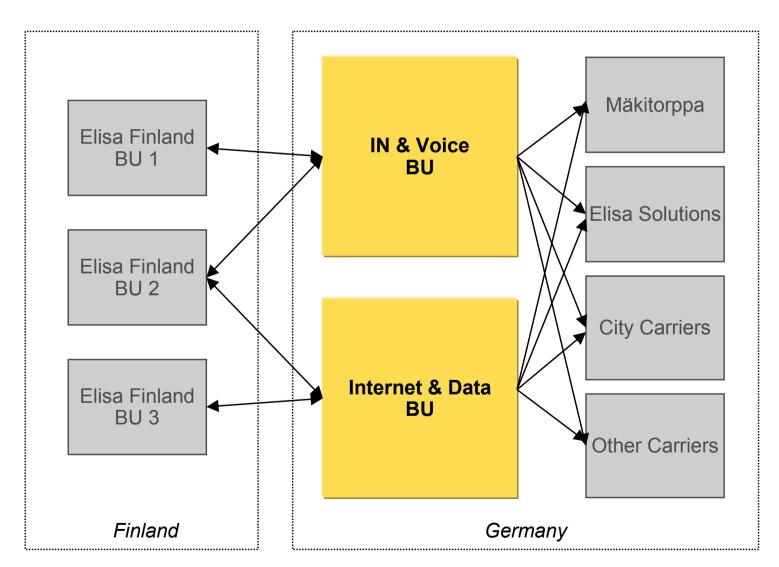
- Responsible for value-added and basic Internet and data products
- Initially combines connectivity and hosting type of activities
- Separate BUs for connectivity and hosting / data center / ASP activities may be established later

MVNO = Mobile Virtual Network Operator



#### Business units interface directly with counterparts in Finland

- BUs interface directly with counterparts in Finland on operational level
- Finnish
   counterparts
   get an
   attractive
   financial
   incentive to
   support the
   German BUs





### **Market Situation**



## Compared to Finland, telephone usage in Germany is lower and adoption of new services, like mobile and internet, is slower

	Fixed Voice		Mobile			Internet			
	rixed voice	Germany	Finland	nland		Finland <sup>1</sup>	memet	Germany	Finland
Penetration	Total Lines % of Population % ISDN CATV Subscribers % of Population	48.7 mio 57 % 22 % 17.9 mio 21.7 %	2.9 mio 55 % 11 % 1.0 mio 19.2 %	Total Lines % of Population % Digital	23.4 mio 28 % 99 %	3.6 mio 70% 95 %	Total Users % of Population % Broadband % of HH with PC Hosts/Capita ('000) E-Commerce Penetration	19.5 mio 24 % <1 % 44 % 34 14 %	1.98 mio 38 % <1 % 60% 121 N.A.
Usage	Total Minutes Minutes/Capita/Yr Minutes/Line/Mth % International % National % Local	177 bln 2,153 319 3 % 33 % 64 %	16 bln 3,076 463 2 % 12 % 86 %	Total Minutes Monthly MOU % Prepaid SMS SMS/Line/Month	38.7 bln 137 23 % 2.165 bn 7.8	5.3 bln 135 3% 0.9 bn 25	Total Minutes Traffic/Capita/Yr.  Monthly MOU	29 bln N.A. 328	N.A. N.A. N.A.
Prices (Euro)	Monthly ARPU Monthly Line Fee National Tariff Local Tariff National/Local	44.2 11.1 0.28 0.08 3.5	10.4 0.19 0.13 1.5	Monthly ARPU Handset Price Monthly Line Fee Peak Tariff Off-Peak Tariff	83.1 180 12-33 0.15-0.50 0.08-0.20	40 256 3.4-10 0.07-0.29 0.07-0.18	Monthly ARPU <sup>3</sup> Price/Month <sup>2</sup>	7.82 9.58	N.A. 6.95

Source: OECD, Deutsche Telekom Half-Year Report 2000, Int. Telecom Statistic

Note: all data 1999, except indicated otherwise

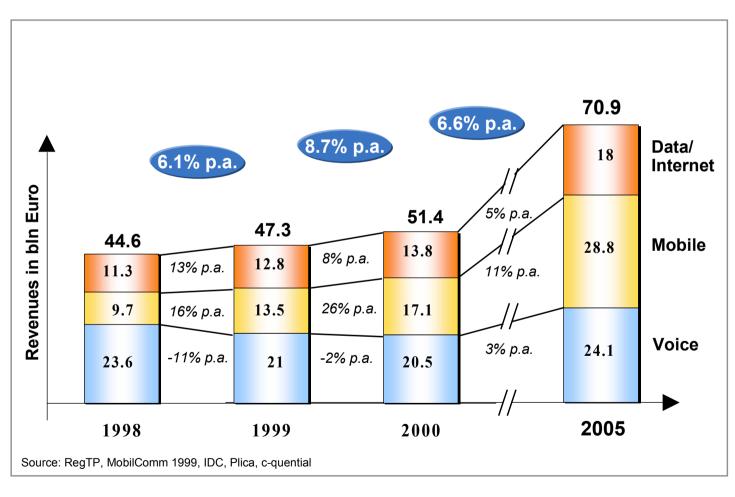
<sup>&</sup>lt;sup>1</sup> 3Q/2000

<sup>&</sup>lt;sup>2</sup> Purchasing power parity, US\$, 40 hrs usage, OECD

<sup>&</sup>lt;sup>3</sup> T-Online half-year report 2000



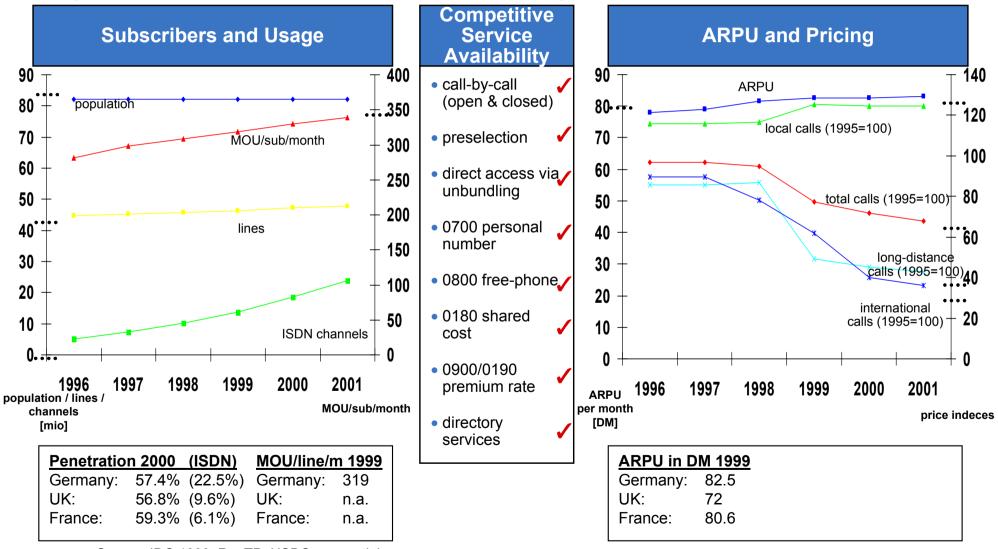
### The German telecom market is growing at an attractive rate, driven by mobile and data/internet growth



- Telecoms services in Germany account for about 51 bln Euro in 2000
- Mobile is the fastest growing segment in the German telecom service market
- Growth in fixed voice is slower; most of the additional revenues result from Internet dialup services while the portion of traditional voice telephony went down due to large price cuts



The market for fixed voice is characterized by high penetration and a full range of services, while prices are dropping and ARPUs are stable

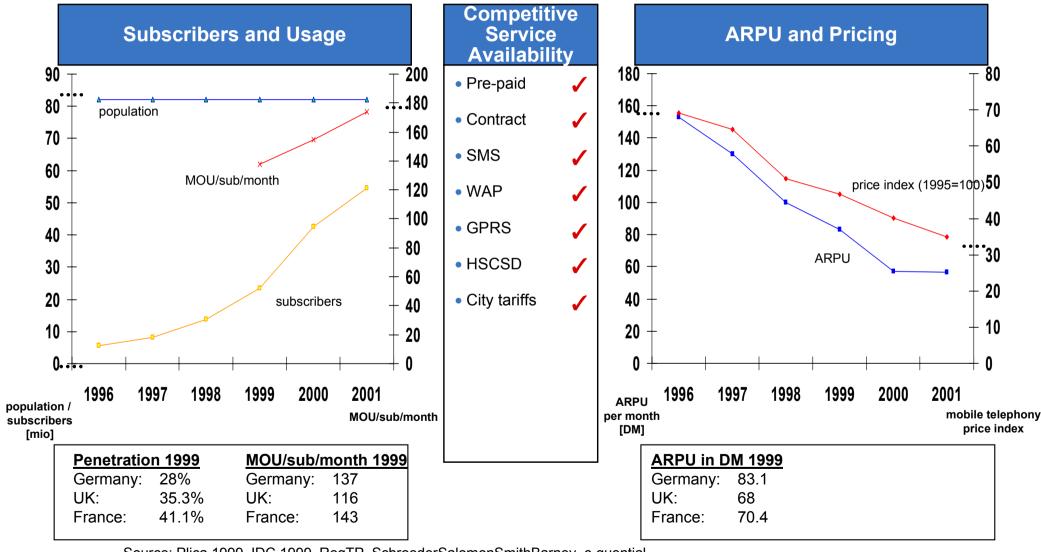


Source: IDC 1999, RegTP, HSBC, c-quential

Note: ARPU = Average Revenue per User; MOU = Minutes of use



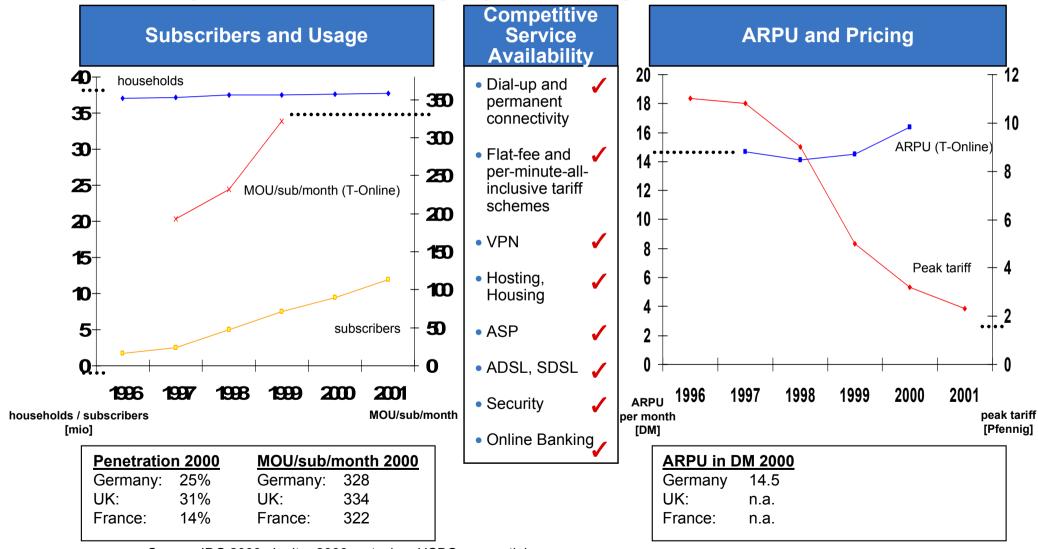
#### The mobile segment is characterized by a strong increase in subscriber numbers, but decreasing ARPU and prices



Source: Plica 1999, IDC 1999, RegTP, SchroederSalomonSmithBarney, c-quential

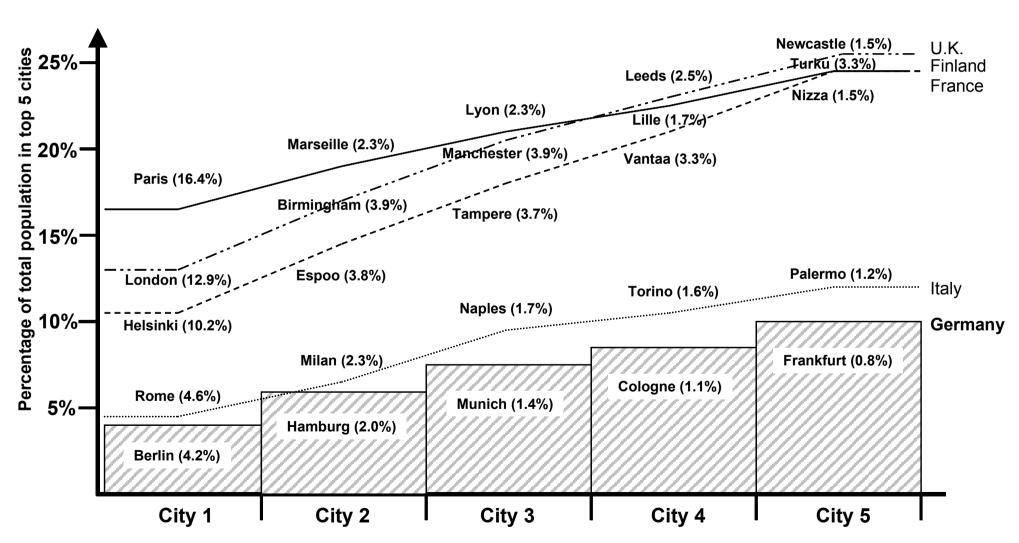


The internet segment is characterised by a steadily growing penetration, increasing online time and slightly increasing ARPU





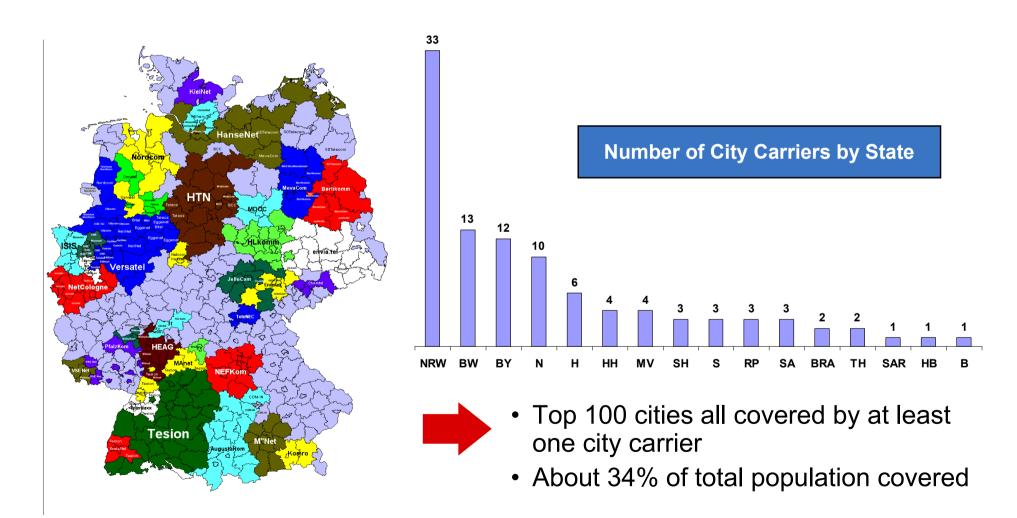
## Demand in Germany is much more geographically spread compared to most European countries



Source: c-quential analysis based on data from www.citypopulation.de



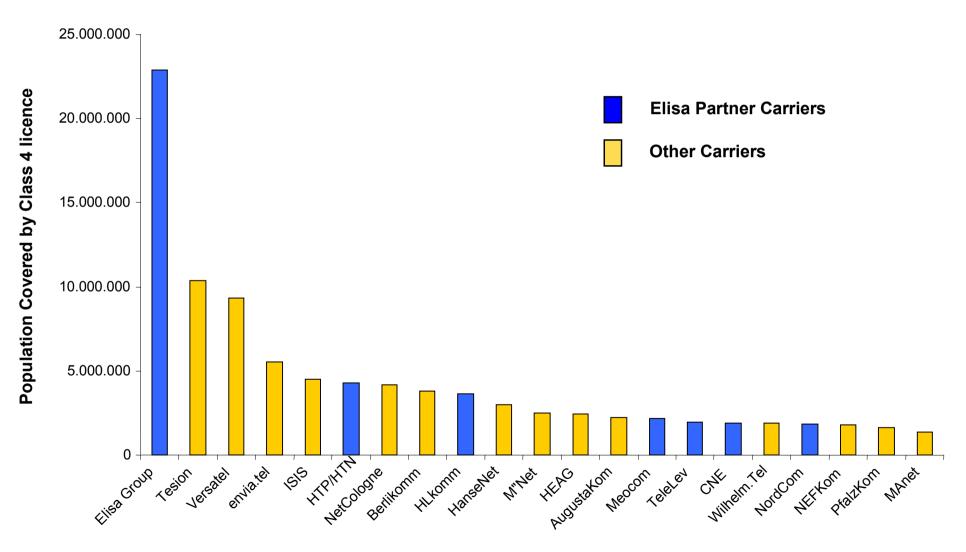
## This is reflected in the large number of about 100 city and regional carriers which cover all major cities and about one third of the total population



Source: c-quential



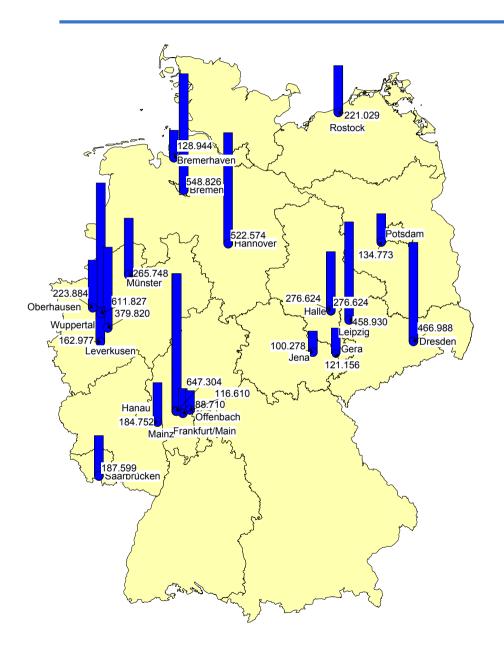
### The largest of these city and regional carriers cover areas with a population of several million



Source: c-quential

#### Market Situation German City Carriers Elisa City Carrier Population Coverage





City Carrier	City	Quote (%i)ty	Inhabitants
nordCom	Bremerha	aven	128.944
nordCom	Bremen		548.826
htp	Hannove	r	522.574
JelloCom	Jena		100.278
enco.tel	Gera		121.156
pulsaar	Saarbrüc	ken	187.599
HLkomm	Halle		276.624
HLkomm	Leipzig		458.930
DDkom	Dresden		466.988
HU-KOM	Hanau		88.710
MAINZ-KOM	Mainz		184.752
3T	Offenbac	h	116.610
MAINOVA	Frankfurt	/Main	647.304
RMN	Frankfurt	/Main	See above
Hansacom	Rostock		221.029
tnp	Potsdam		134.773
Citykom Münster	Münster		265.748
CNE	Essen		611.827
TeleBel	Wupperta	al	379.820
TeleLev	Leverkus	en	162.977
Meocom	Oberhaus	sen	223.884
			5.625.469

Source: dds data service 1997

The licence areas of the carriers actually cover a total population of approx. 23 Mio. inhabitants



### Services, Marketing and Sales



# Elisa's product strategy is to integrate and offer customer segment -tailored solutions as bundles of basic and value-added services produced by Elisa and partners

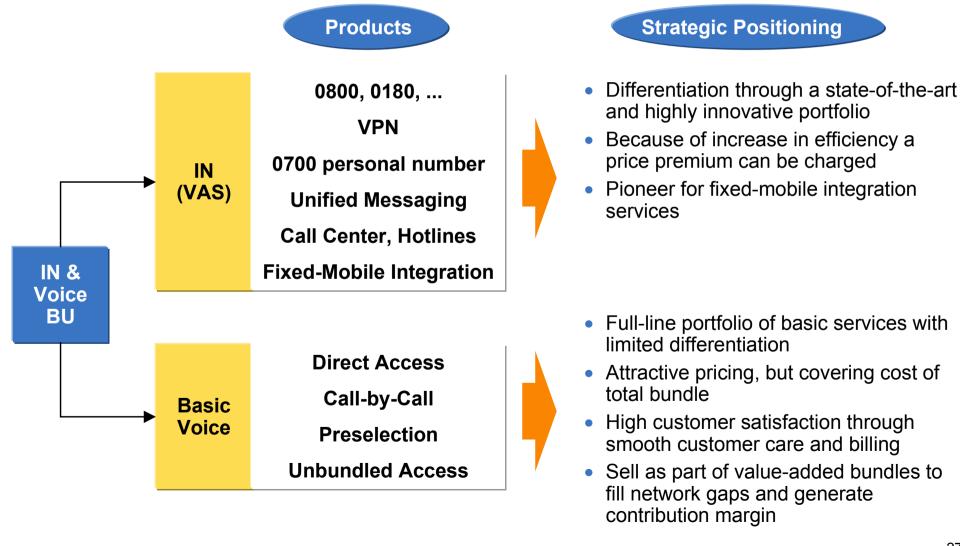
#### **Portfolio Overview** Basic Connec-Voice tivity (e.g. phone (e.g. VPN) line) **One-stop shop** IN & Internet for telco and ISP Voice & Data Services **Services** services IN Web (e.g. 0180 services **business** (e.g. number) Hosting)

#### **Basic Product Strategy**

- Offer solutions as bundles for SME and SOHO segments and municipalities/municipal enterprises
- Offer only value-added products as stand-alone products
- Provide basic services only as components of bundles (or sometimes for contribution reasons)
- Make margins on value-added services
- Examples:
  - Voice: Call-by-call as a mobile access component of a total voice package for SME customers
  - Internet: Dial-up access as remote access component of a VPN bundle
- In the mid-term (starting 2001) Elisa will put much emphasis on developing innovative solutions tailored to the SME and SOHO segments

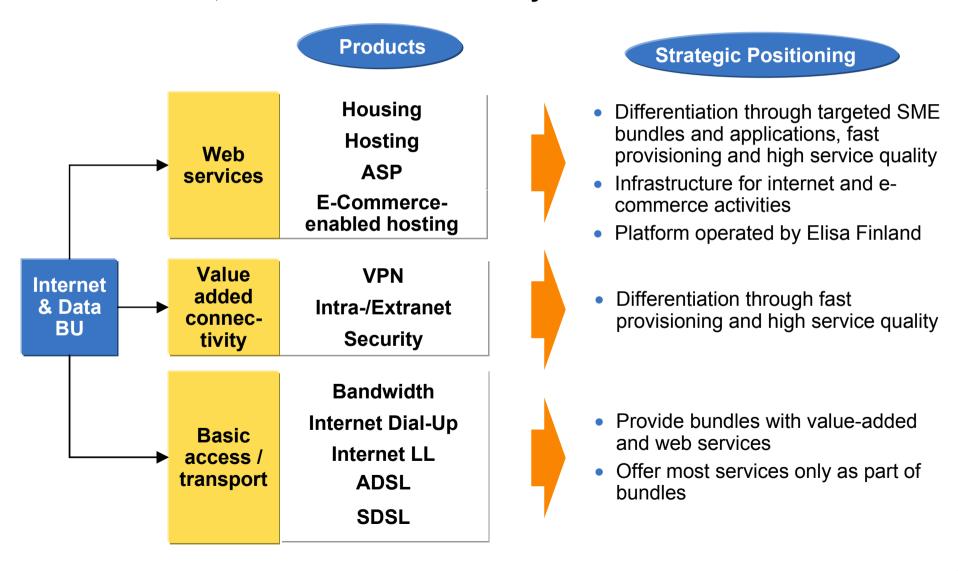


#### The IN & Voice business unit bundles basic voice services with state-of-theart IN products from the Finnish parent company





### The Internet & Data business unit offers a full-line portfolio through bundles of basic access, value-added connectivity and web services





## Local city carrier brands are maintained but are supported by an Elisa umbrella brand; Mäkitorppa is an additional national brand

	Region with no city carrier	Region with city carrier
Carriers, Ser- vice Provider and ISPs	<b>elisa</b> N	let in cooperation with local carrier
Very large multis		Elisa Solutions in cooperation
Large Corporates	elisa	with local carrier
Medium enterprises	MÄKITORPPA Elisa Solutions	enco.tel
Small enterprises		elisa
so	MÄKITORPPA	pulsaar
HO + HEC		Local city carrier brands supported by Elisa brand
Mass Market	MÄKIT	ORPPA



The branding strategy follows the customer split



## **Network, Technology and Systems**



### Elisa operates a low-cost national backbone network as well as local access MANs in areas covered by its city carriers



#### National backbone network

- 3,500 km of fibre optic cable
- Bandwidth of 16 \* STM-64 nationwide by year end 2000
- Interconnected with 23 carriers
- SDH equipment of Siemens
- DWDM equipment of Siemens
- Peering agreements with DICIX and Telia

#### **Local access MANs**

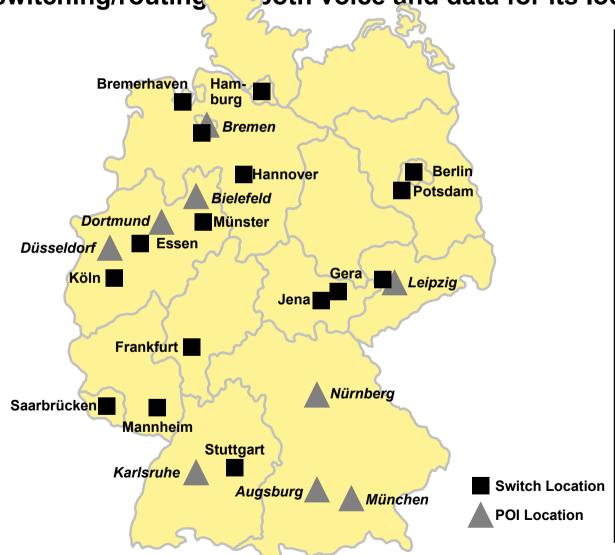
- 2,664 km of fibre optic cables
- 4,235 km of copper cables
- SDH equipment of Bosch-Marconi, Siemens, Nortel, ECI
- Bandwidth capacity from 64 kbit/s up to STM-64
- MANs are located in 25 cities



The national network is being interconnected with the local city carrier networks



On this network, Elisa provides national network management and switching/routing both voice and data for its local carriers



#### Voice

- 22 switches
   Thereof:13 Nokia switches
   8 Siemens switches
   1 Alcatel switch
- Systems/Versions:
   Nokia DX 220
   Siemens EWSD V12 and V13
   Alcatel S12
- Around 630 ICAs (incl. city carriers and ElisaNet)

#### Data

- One hop internet strategy with 1 core router in Frankfurt (equipment: Juniper Networks M10)
- >70 access routers at city carriers (equipment: mainly CISCO C800/C2500/C7200)
- E3 to STM-1 connections from city carriers to PoP in Frankfurt



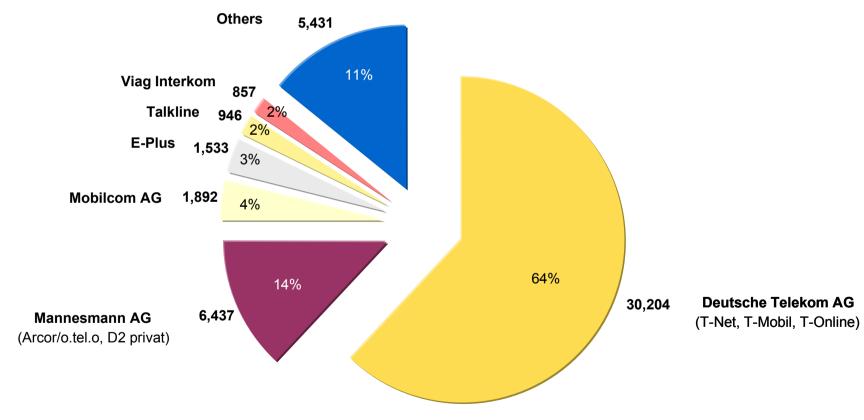
### **Competitive Advantage**



### After three years of deregulation new entrants have managed to capture one third of the market

#### Market Shares in the German Telecommunication Market 1999

(in million Euro)



**Total Market Volume: 47,300** 

Source: RegTP, annual reports



## Compared with the largest players, Elisa is positioned competitively along the value chain

	Access	Backbone	Switches	Products	Channels
Elisa					
DTAG					
Arcor					
Mobilcom					
Talkline					
Viag Interkom					

Source: c-quential 35