

# **”ICT-infrastructure for all, the Stokab example”**

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# AB Stokab

## ICT-Infrastructure in the Stockholm and Mälarenregion





# The owner of AB Stokab

The City of Stockholm through  
the Company group Stockholm Stadshus AB





## The mandate from the City of Stockholm

- includes the City's internal communications networks for the municipality's companies and public offices
- co-operation with the municipal Real Estate corporations in Stockholm, Stokab is developing the networks to enhance the opportunities for broadband connection for all housing in Stockholm



# The purpose of Stokabs operation

is to promote growth in Stockholm through the provision of an infrastructure for ICT that is open to all on equal terms





## Stokab's Vision

- Is to put the Stockholm region in general and the City of Stockholm and Stokab in particular, on the global ICT map as a driving force in the creation of "an information society for all"



## Stokabs Strategy

- In order to achieve the vision, Stokab provides an open operator neutral ICT-infrastructure for all and for all needs
- ICT is one of the most important factors affecting development today and Stokab thereby stimulates growth in Stockholm and the Stockholm- and Mälardalen region



# Business Concept

**Stokabs business concept as an operator-neutral network owner is to:**

## **First**

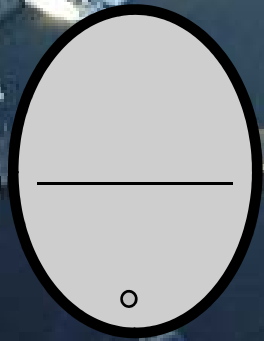
On commercial terms provide an ICT-infrastructure for all, particularly in the City of Stockholm and to thereby contribute to growth in the Stockholm- and Mälarenregion

## **Second**

On the assignment of the City of Stockholm, administer and develop the City's overall communication network for both the administration and management and also for the more public needs of schools, child care, services, leisure and culture



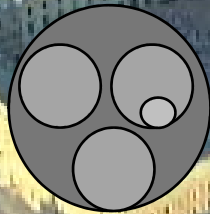
# The laying of cables



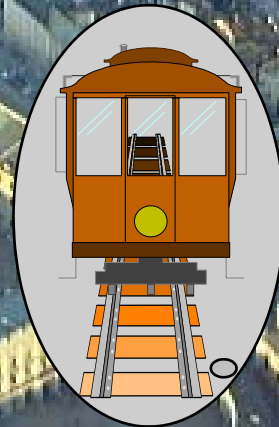
Tunnels



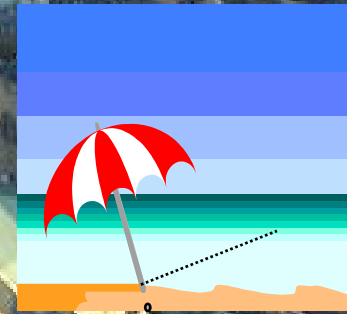
Tracks



Duct

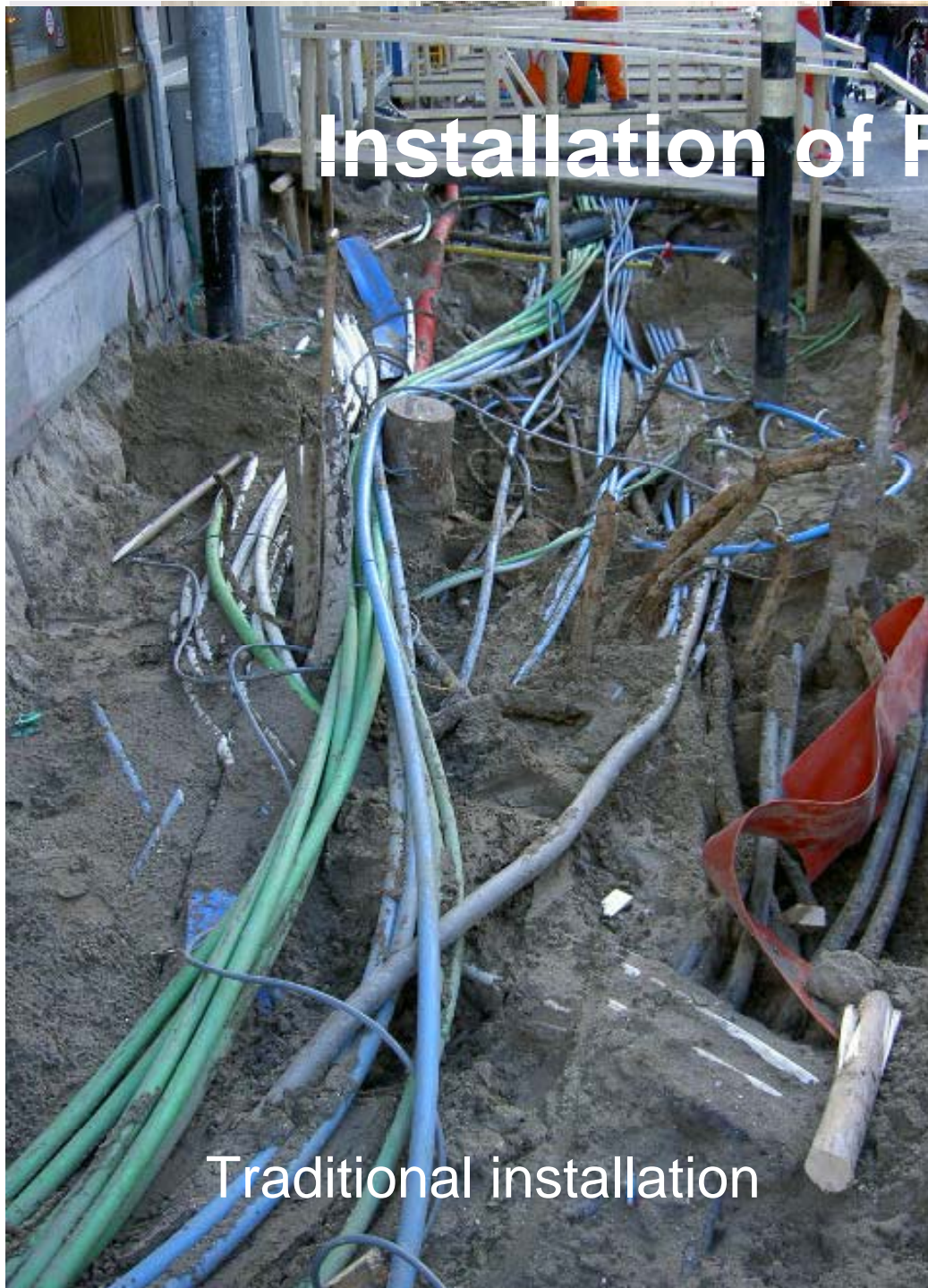


Underground



Sea

# Installation of Fibre Cables



Traditional installation



Stokab installation

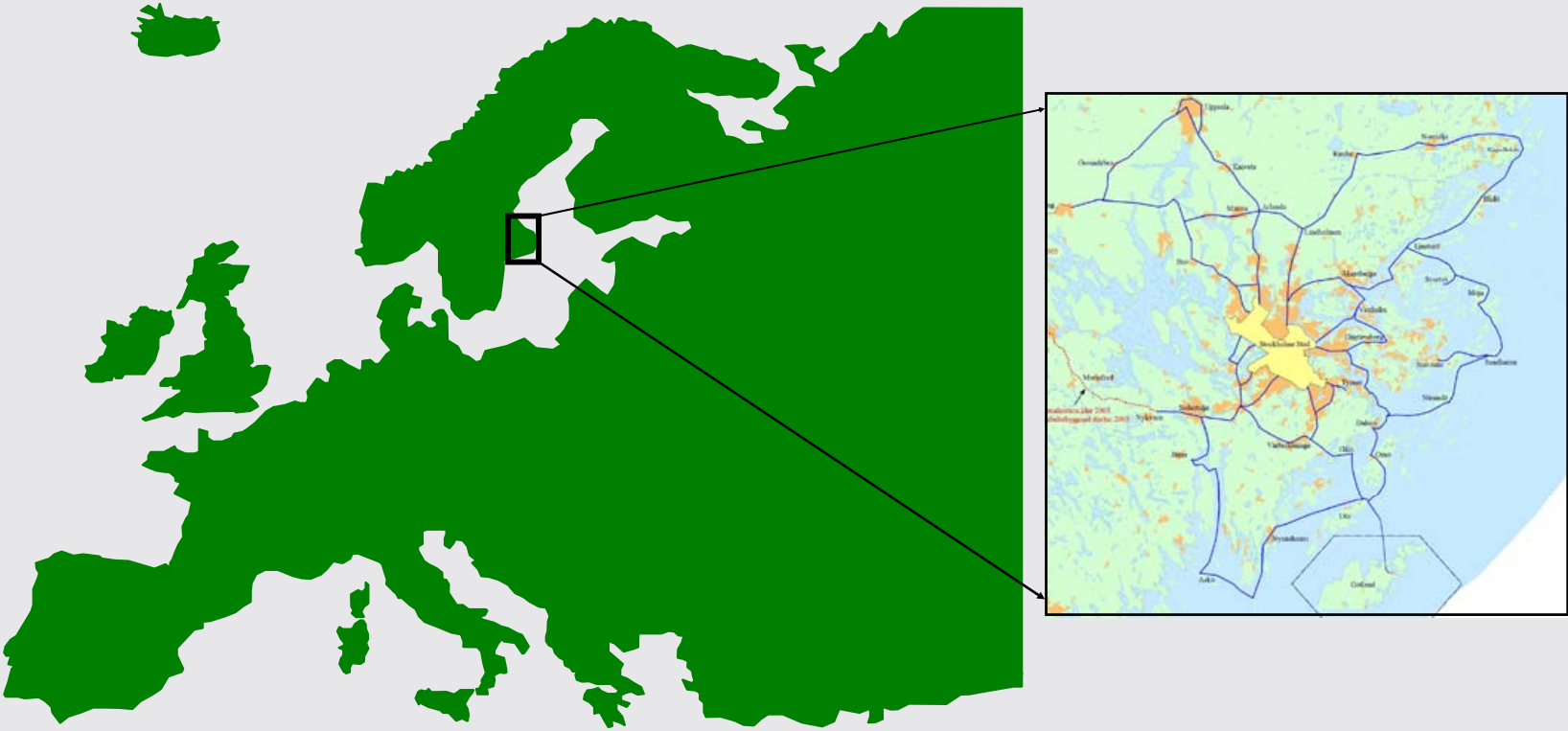


# Submarine Cables





# Stockholm- & Mälarenregion



# The Meetingpoint in the Nordic & Baltic Region



# The Stockholm- & Mälarreregion

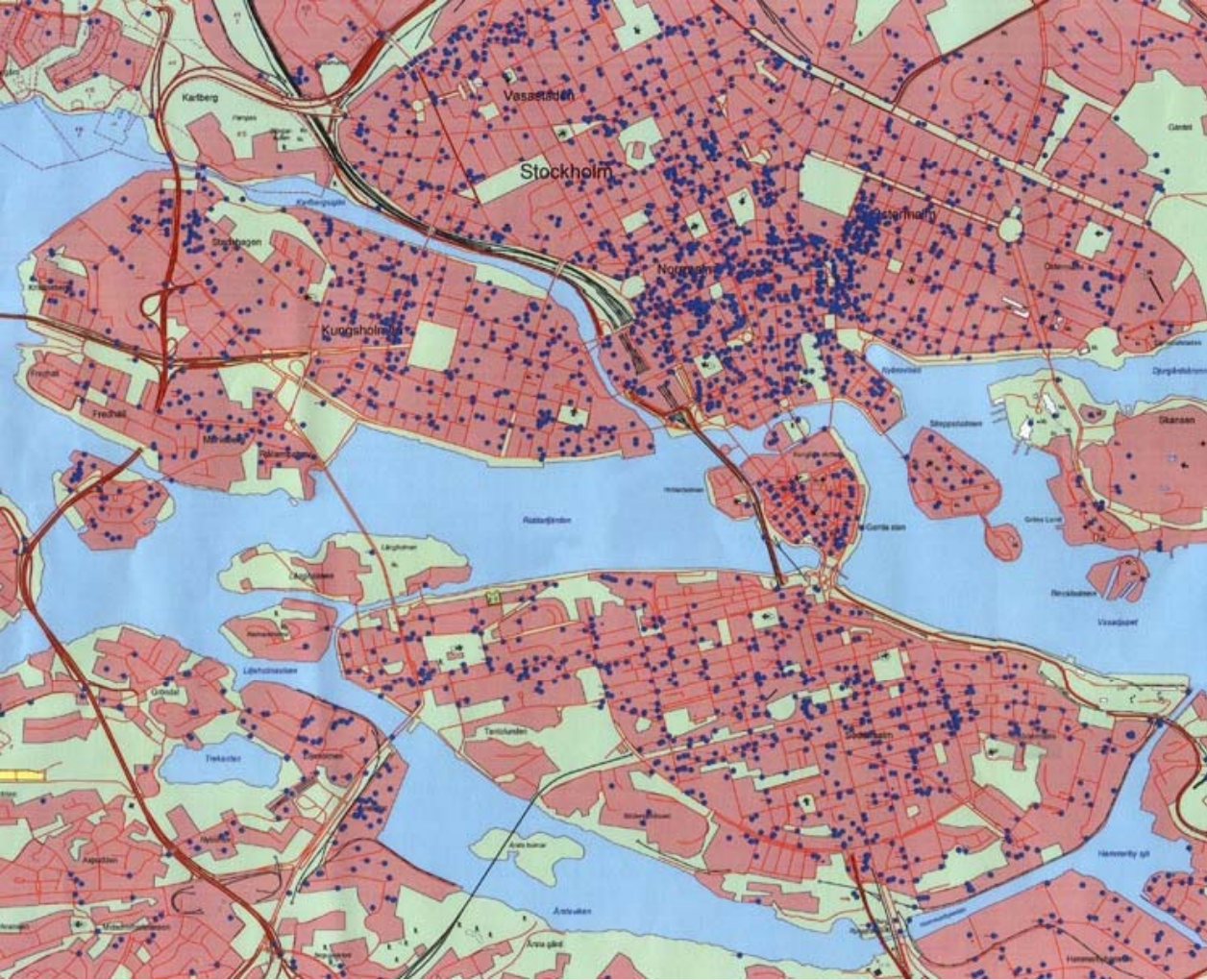


## Connecting

- 29 towns in the Stockholm area
- The island of Gotland
- 5 cities in the Mälarreregion
- Finland
- Estonia
- Latvia



# Neutral ODFs in the Inner City of Stockholm





# Fibre To The Building



## Roll-Out plan

- to all blocks in the Inner City of Stockholm
- to all Apartments etc owned by the City's Real Estate Companies





# Some facts concerning Stokab

## Number of Employees

- 146

## Business Division NET

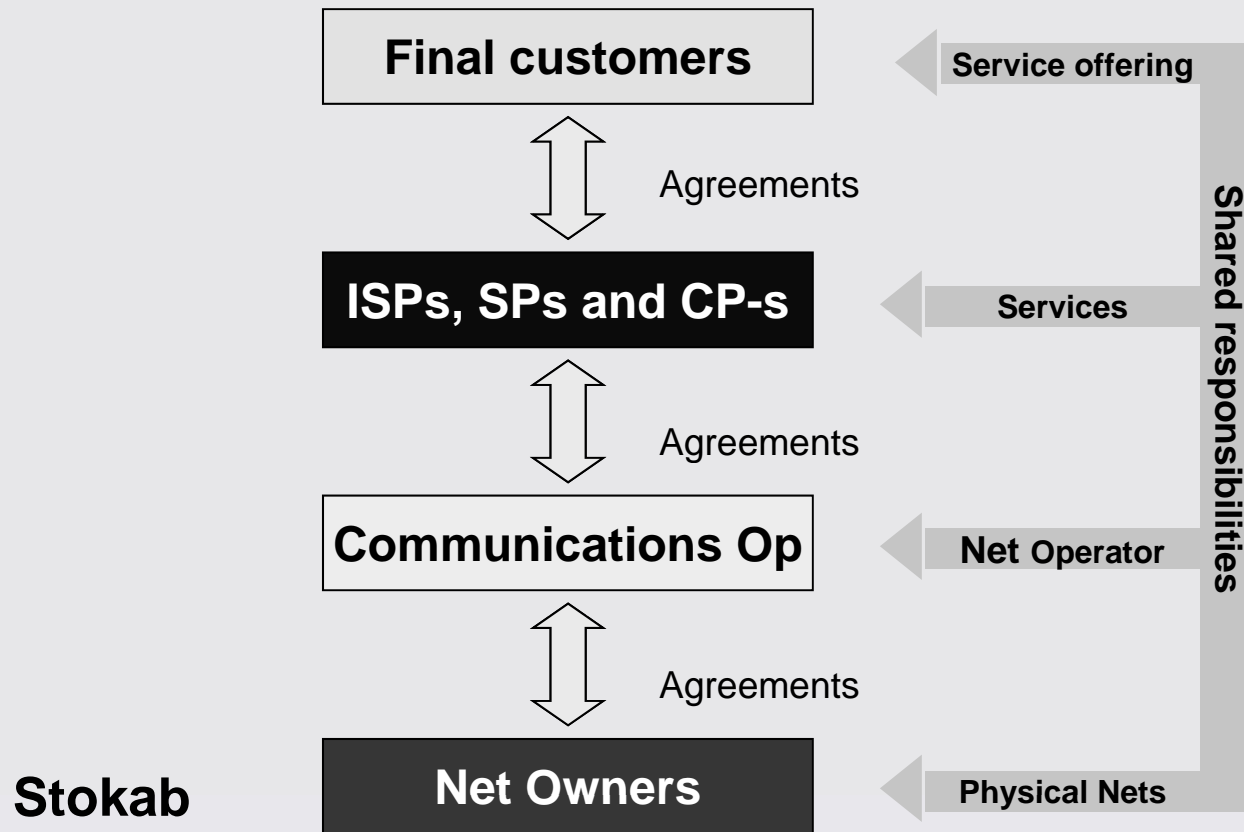
- 4 300 km Optical Fibre Cables (one time around the world)
- 730 000 km Optical Fibres (more than 18 times around the world)
- 80 Operators and Service Providers,
- 320 Other Customers; Official Sector, Enterprises and Companies

## Business Division KOM

- 170 000 Internal users within the City of Stockholm
- 2 300 Switches in our internal MPLS Network



# Responsibility, business rolls and business models





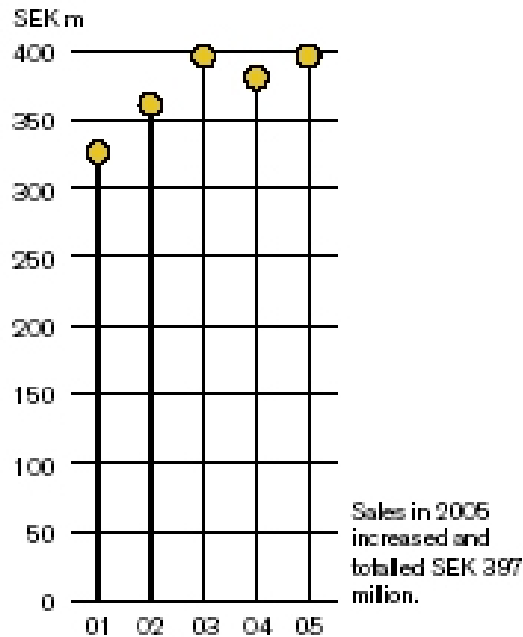
## Financial Key Ratios 2005

- Total operating income 407 MSEK
- Total operating expenses 343 MSEK
- Operating Profit  
(before net financial items) 64 MSEK
- Total financial items 39 MSEK
- Profit after Financial items 25 MSEK
- Balance sheet total 1 227 MSEK

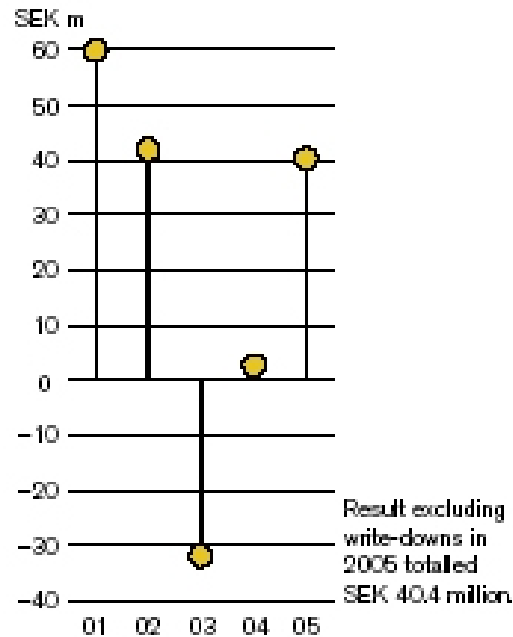


# Highlights of 2005

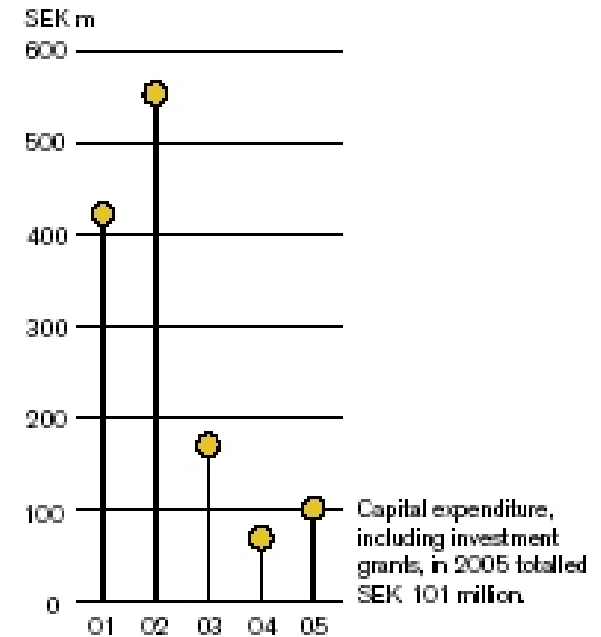
Net sales



Result before appropriations and tax, excluding write-downs

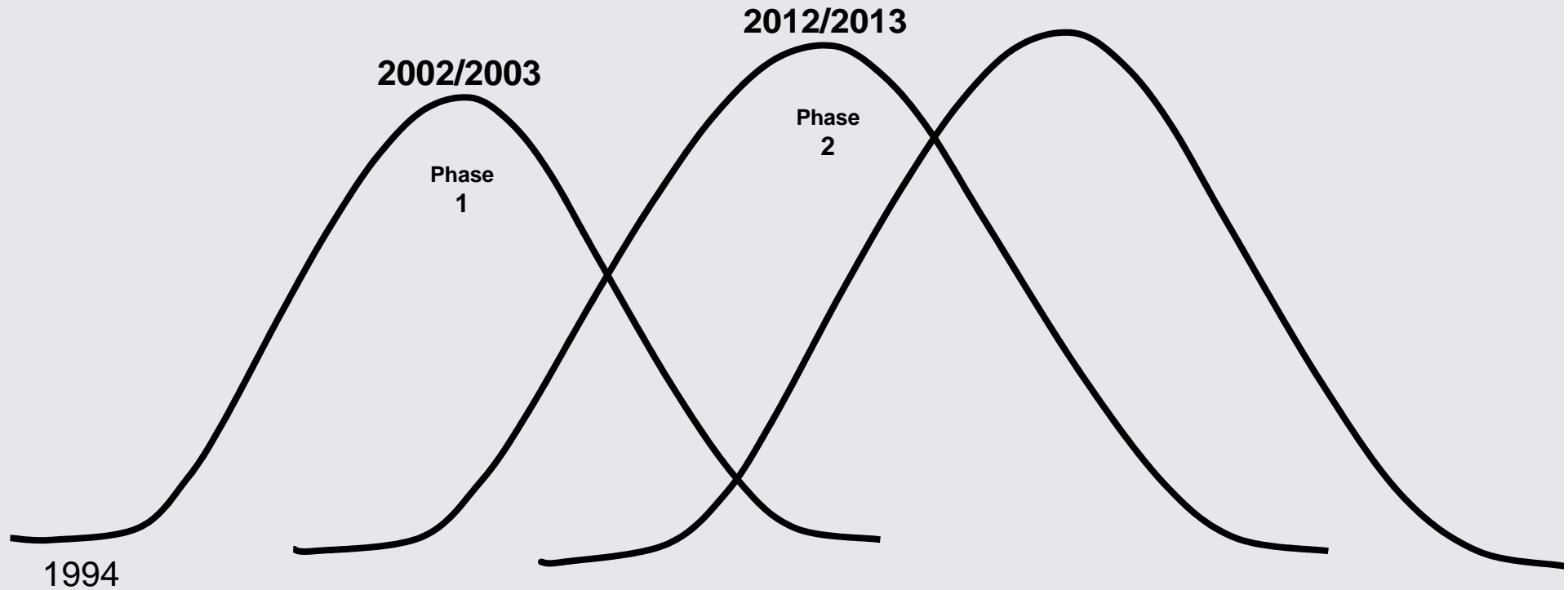


Gross expenditure in plant and equipment





# Development Phases



# **New Challenges 2006-2009**



## Support the development of new kind of ICT-based Services

- Lack of labour in the Official Sector because of demographic reasons
- Growing population of elderly people
- Great demands for Local and Regional Governments
- "The Arena for Digital Services in Stockholm" is one example
  - [www.adts.se](http://www.adts.se)



# The Swedish analogue TV-distribution is closing 2006-07

- Digital TV-distribution over Broadband Net leads to new demands for Service Providers
- More Real Time Applications mean new demands for the owners of the Nets; i.e. Redundancy, different SLAs etc
- More different Net Products
  - P2P
  - P2M
  - M2M





# **New Challenges in the Business Division Net**

1. Connect 120 000 households to our Metro Net
2. Connect 20 000 SOHOs
3. Build Strategic Meeting Points in rings in the Metro Net
4. Build Virtual Meeting Points in different Towns in the Region
5. Build Nodes for the Distribution and Access Nets
6. Integrate Wireless Solutions for Rural Areas and for Nomadic needs



# **New Challenges in the Business Division KOM**

**(for internal use in the Stockholm Administration and schools)**

1. Introduce the possibility for "Triple Play" services in the S:t Erik Kom Network
2. Introduce IP-telephony
3. Integrate "Hot Spots" in the S:t Erik Kom Network for instance for schools (probably all schools in the City of Stockholm next year)
4. Use the "Strategic Meeting Points" for possible interaction between the local Authorities and Service Providers for ICT based services too the Citizens especially for Health and Geriatric Care and Nursing
5. Integrate Wireless Solutions for Rural Areas and for Nomadic needs



## **Integrate Wireless Solutions for Rural Areas and for Nomadic needs**

- FWA (Fixed Wireless Access) for rural areas and where it's for a certain time too expensive to build a fiber network
- Wireless Broadband Access for Nomadic needs

# Eurocard Gotland Runt Offshore Race - an example with WiMax-technology

WiMax Base Station

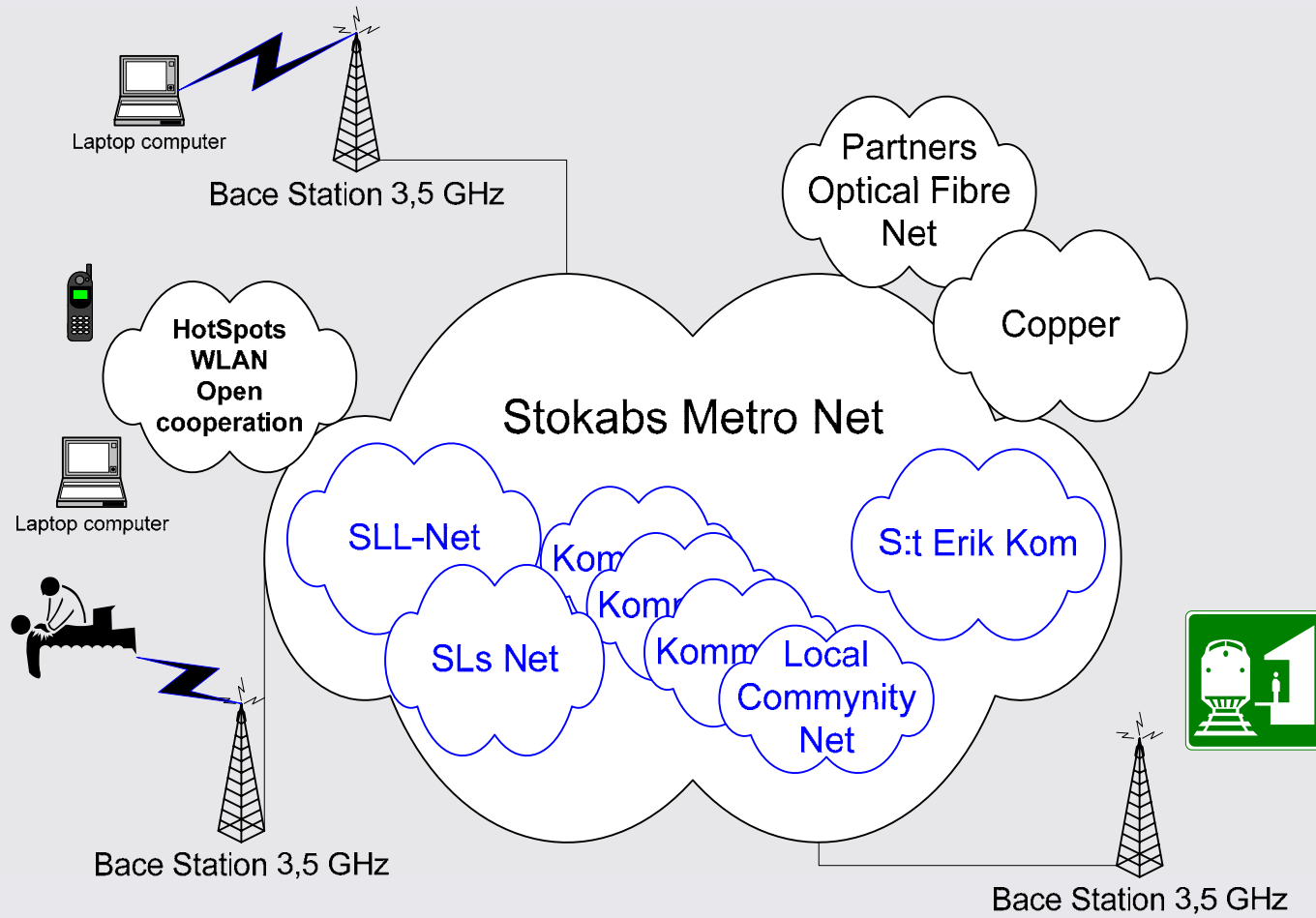


WiMax Customer Unit





# VISION





# Stockholm Digital City

## Co-operaton Intel-Cisco-Ericsson-Stokab



# Thank you!

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