

# **National Broadband Government Think Tank (Sweden) - An Example of Technical Policy Development**

**Maria Häll & Patrik Fältström**

**Swedish Government IT Policy and Strategy Group**

**April 28, 2006**

# Background and role

- **Swedish Government forms the IT Policy Strategy Group**
  - decision in June 2003
- **Political initiative**
  - non political group
- **Meetings with IT minister Ulrica Messing once a month**
- **Advisory to the government and all ministries in IT policy areas**
- **The IT policy Strategy Group**
  - 8 external members, internal administrative office of 5 people



# IT Policy Strategy Group



**Ylva Hambræus Björling**  
(Chair) CEO Swedish IT &  
Telecom Industry



**Patrik Fältström**  
Network/Internet expert,  
Cisco Systems



**Bo Dahlbom**  
Research Director, Swedish IT  
Institute, Professor at IT-  
university in Gothenburg



**Stefan Hedin**  
Mayor, City of Sandviken



**Nadja Lyberg**  
Nurse, Regional safety officer,  
Swedish Municipal Workers  
Union



**Shirin Laji**  
3G- and telecom-issues,  
Ericsson



**Suss Forssman Thullberg**  
Head of department, The  
Swedish National Agency for  
School Improvement



**Kenneth Olausson**  
CEO, Innovation Impact AB

# IT Policy Strategy Group

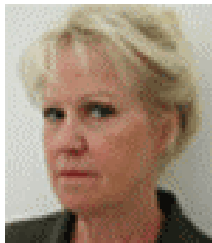
Administrative office



**Maria Häll**  
Administrative Director

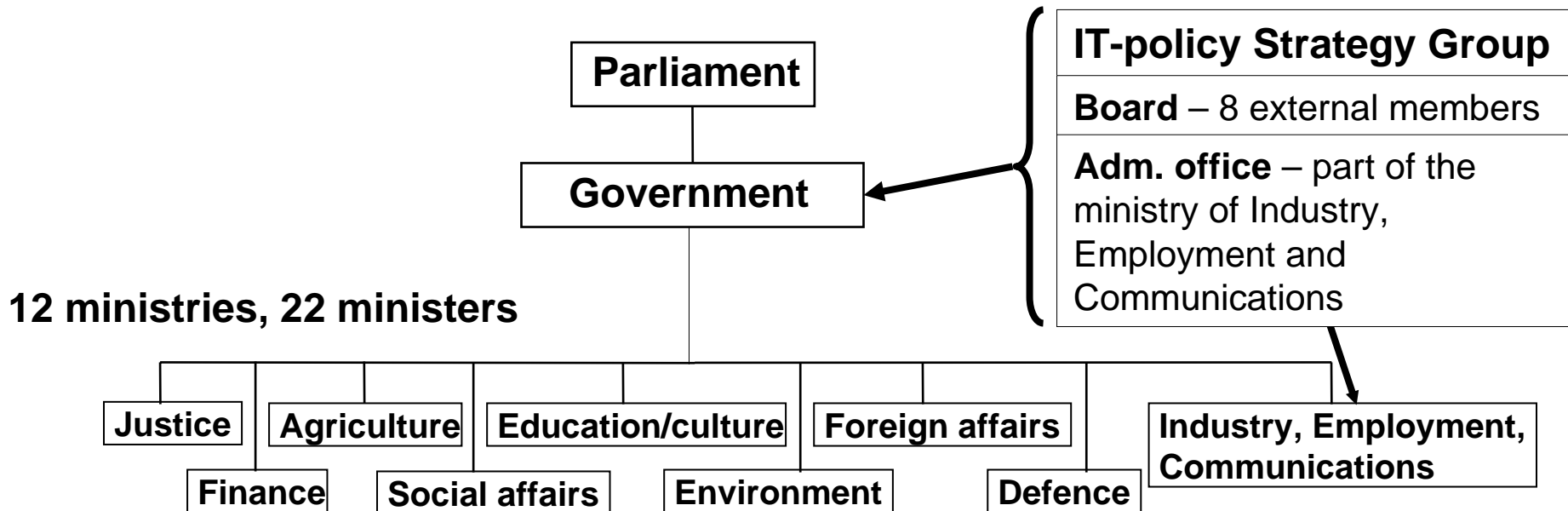


**Caroline Andersson**  
**Torbjörn Skarin**  
**Carolina Otterskog**  
Senior Administrative Officers



**Monica Tornberg**  
Assistant

# Organization of the Government and the IT-policy Strategy Group



# Ministry of Industry, Employment and Communications

## IT-policy Strategy Group

**Board** – external members

**Adm. office** – part of the ministry

Minister for Industry and Trade  
**Thomas Östros**

State Secretaries  
**Sven-Eric Söder**  
**Lars-Olof Lindgren**

Minister for Communications and Regional Policy  
**Ulrica Messing**

State Secretary  
**Jonas Bjelfvenstam**

Minister for Employment  
**Hans Karlsson**

State Secretary  
**Anders Teljebäck**

**Jens Orback**  
*Minister responsible for coordinating gender equality policy*

**Leif Pagrotsky**  
*Minister responsible for the Swedish Agency for Innovation Systems and related issues*

## POLITICAL APPOINTEES

## PERMANENT CIVIL SERVICE STAFF

### Secretariats

### Divisions

Legal Secretariat

Budget Secretariat

Business Division

Division for Labour Market Policy

Secretariat for Administration

Coordination Secretariat

Division for State-Owned Companies

Division for Labour Law and Work Environment

Secretariat for Information and Public Relations

Secretariat for Research and Analysis

Division for Information Technology, Research and Development

Division for Regional Development and Tourism

Secretariat for European and International Coordination

Division for Sustainable Development and Primary Industries

Division for Transport Policy

Division for Gender Equality

Division for Infrastructure

# Methods

- **Working groups with members from government ministries, central and local government authorities, academia and private sector, experts, specialists**
- **Cooperation - ongoing activities**
  - internal - Government offices, central government authorities
  - external - private sector, regional and local governments, research and education, international contacts
- **Forums for dialogue**
  - roundtable discussions, seminars, hearings
  - network of more than 300 people...

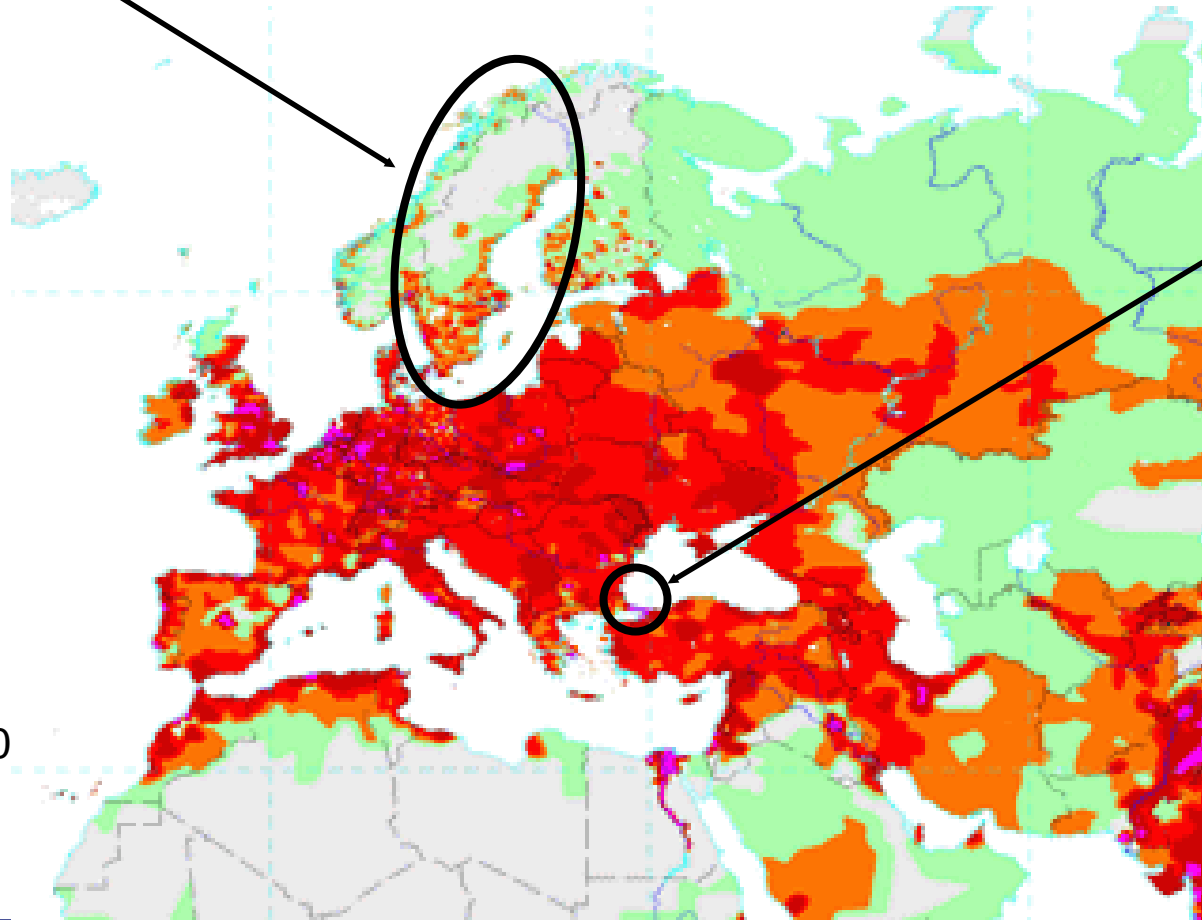
# Six priority areas

- **ICT Infrastructure and Broadband**
- **ICT in Schools and Learning**
- **ICT in Healthcare**
- **Economic Growth in ICT Industries**
- **ICT and Culture**
- **ICT and a Sustainable Society**





# Sweden – a sparsely populated area



You  
are  
here

# General broadband policy – since 2000

- **The political aim is that an effective and secure physical infrastructure, with high capacity, must be available in all parts of Sweden**
  - give people possible access to interactive public services
  - accomplished mainly through market channels and
  - the government has overall responsibility for ensuring that IT infrastructure is available nationwide
  - competitive neutrality, diversity in networks and technological neutrality

# General broadband policy

## The broadband program 2000 to 2006

- **Infrastructure funding of 5.25 billion SEK (1,05 billion YTL):**

- Backbone network 8%
- Regional network 40%
- Local network 22%
- Tax relief for connection 20%
- Extra funding to backbone, regional and local networks 10%
- ...and structural funds and other regional grants 0.575 billion SEK (0,115 billion YTL)

# General broadband policy

## Some conclusions

- **The governmental funding to broadband access is important for sparsely populated areas**
- **Local involvement and commitment in municipalities and regions is very important**
- **Increased competition through a diversity of operators**
- **Expansion takes longer time than estimated because of complexity and change in market situation**

# Major challenges!

**Network neutrality**

**Consumer perspective, Available services**

**Convergence**

**Broadcast, Internet Infrastructure**

**Competition**

**Infrastructure, Internet Services**

**Coordination**

**Local, regional and national level**

**Coordination**

**Private and public sector**

**The digital divide**

**e-inclusion**

# What is public policy?

- **The basic policy or set of policies forming the foundation of public laws, especially such policy not yet formally enunciated**
- **Public policy manifests the common sense and common conscience of the citizens as a whole that extends throughout the state and is applied to matters of public health, safety, and welfare**
- **(and more...)**

# Why do Governments inject themselves in some discussions?

- **A Government feel they are responsible for some processes, like “access to public resources”**
  - To be able to make phone calls, one need a telephone number
  - Telephony is important for the economy
- **Allocation must “just work”**
- **If allocation does not work, entities will complain to the government**

# Example: IP-addresses

- **Everyone can today get an IP address**
- **Policy is developed via an open process**
- **But what happens if things go bad?**
  - Is the appeal chain known, if allocation decisions or policy decisions are to be appealed? Local (LIR) or global (RIR)?
  - What happens if RIPE NCC go away?
  - What happens if bad people start work at RIPE NCC, what is the control mechanism?



# Example: Domain names

- **We have ccTLDs, that are delegated**
- **Everyone can get a domain name**
- **But...**
  - If the registry is to be changed, what is the process for assigning the ccTLD to someone?
    - Note that the question is not **why** it is changed!
  - Is there a risk a policy created out of control can have impact on domain name assignment or operation for the ccTLD?

# Governments must be here at RIPE

- **Questions governments ask are different than the ones we ask**
  - We say “RIPE NCC is taking care of this”
  - Governments ask “What if RIPE NCC goes away?”
- **Similar questions regarding policy**
  - What is the risk allocation has impact on competition, innovation and the ability for end users to “do what they want to do”?

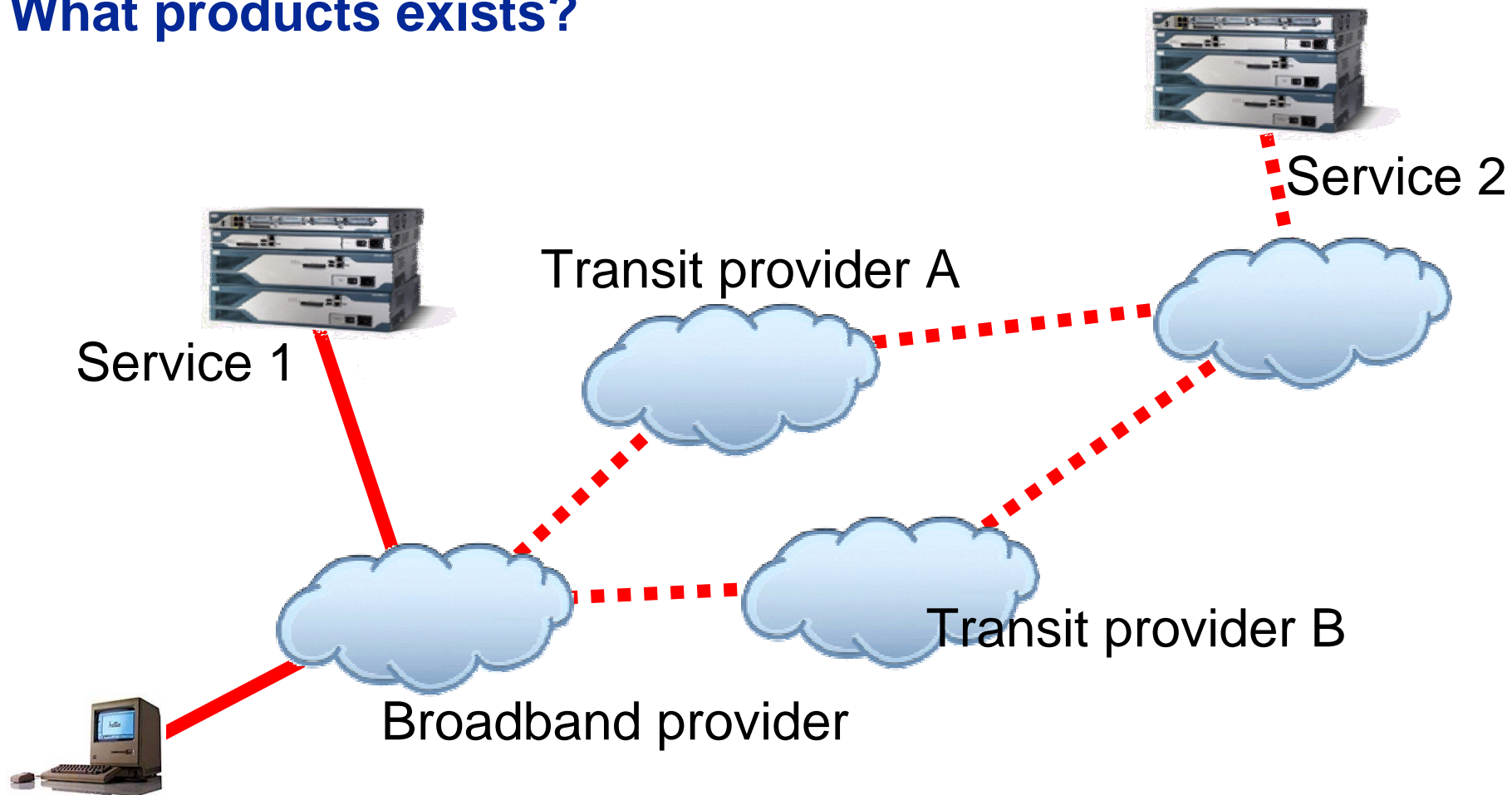
# RIPE NCC Roundtable

- **RIPE NCC have held some roundtable discussions**
- **Have educated governments on what Internet and “a RIR” are**
- **More Government policy people could be here and ask questions directly, to participate in the RIPE process (that control RIPE NCC)**

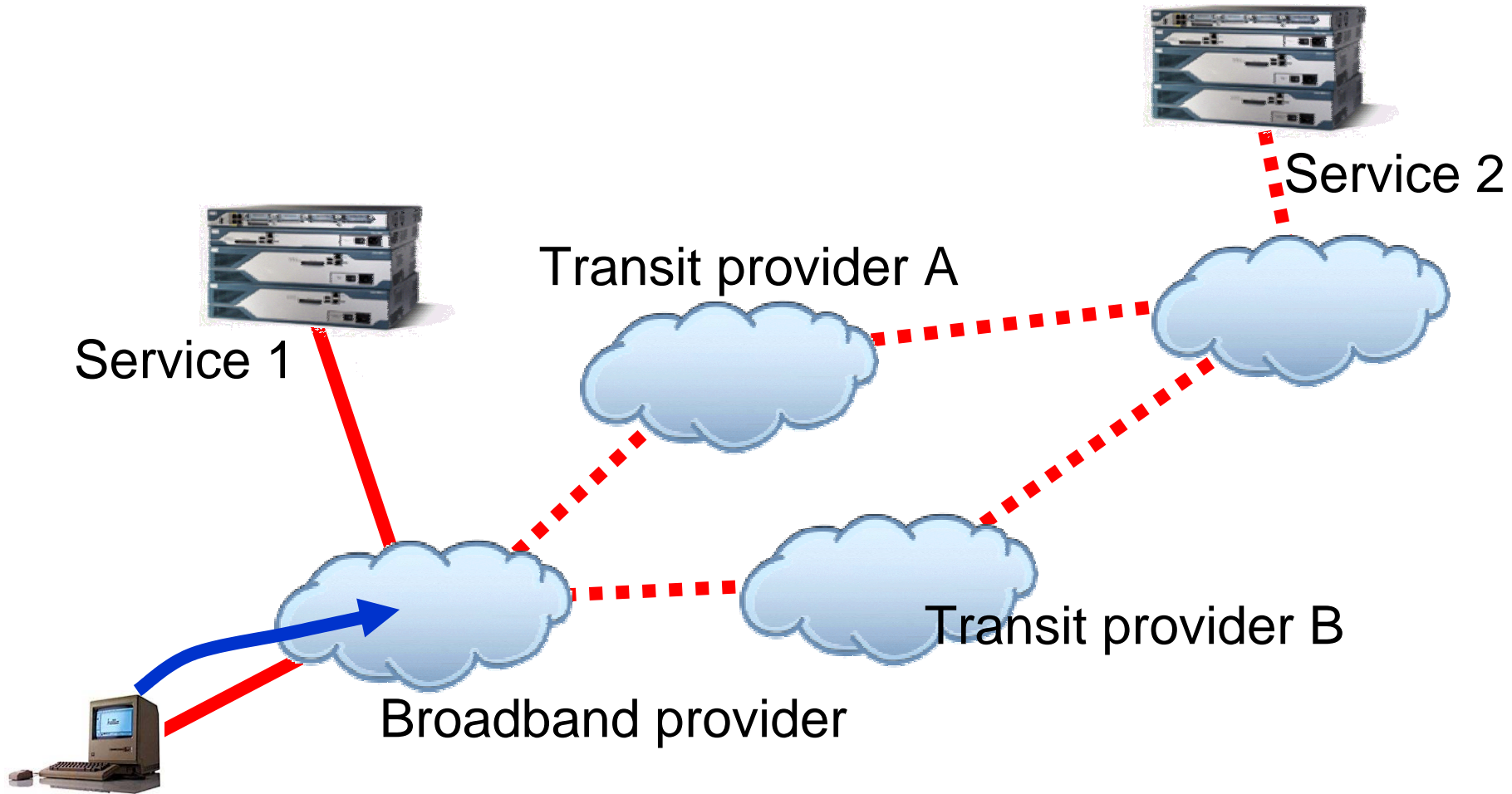
# Some questions related to broadband

# Broadband product of today

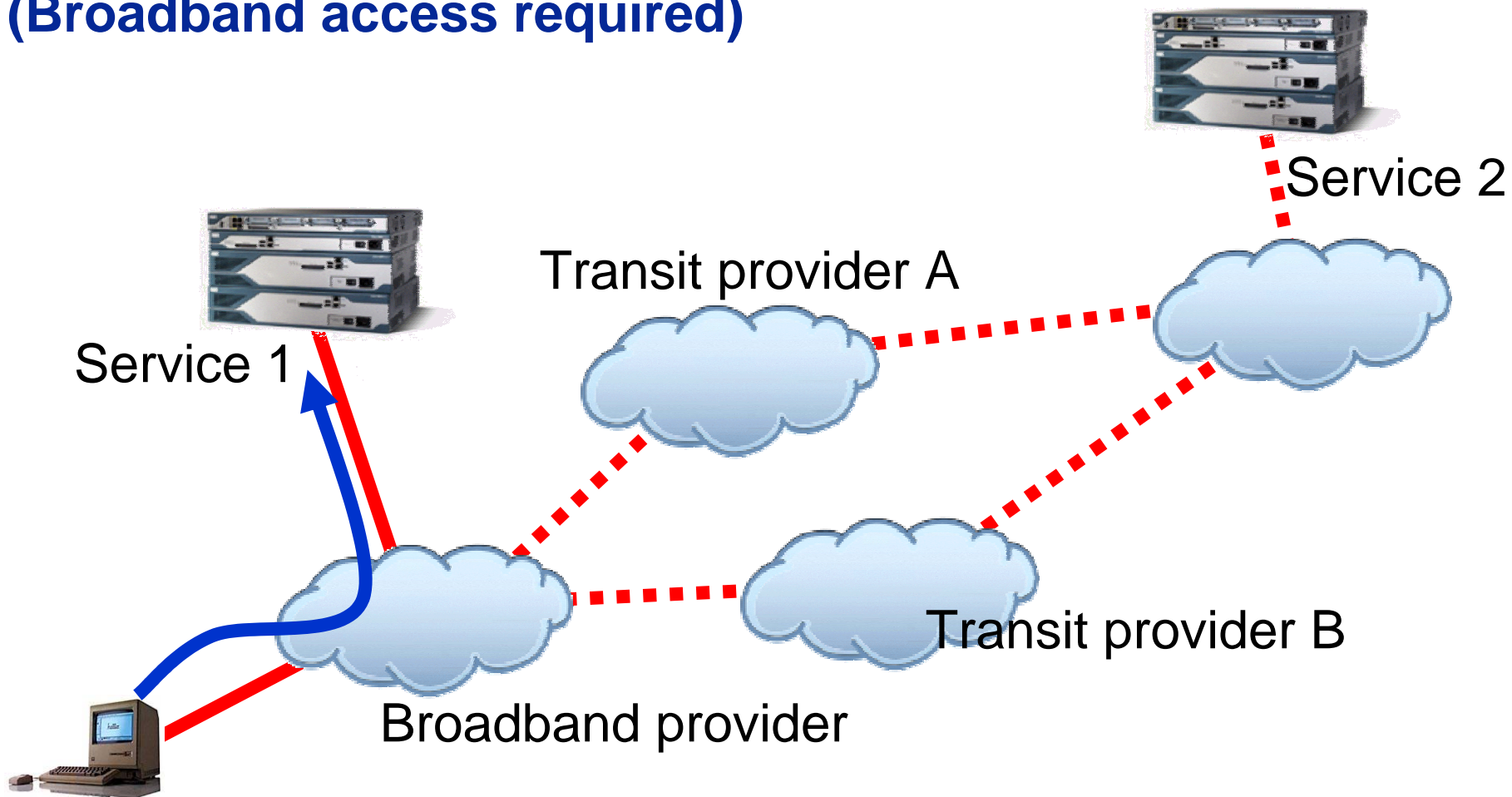
What products exists?



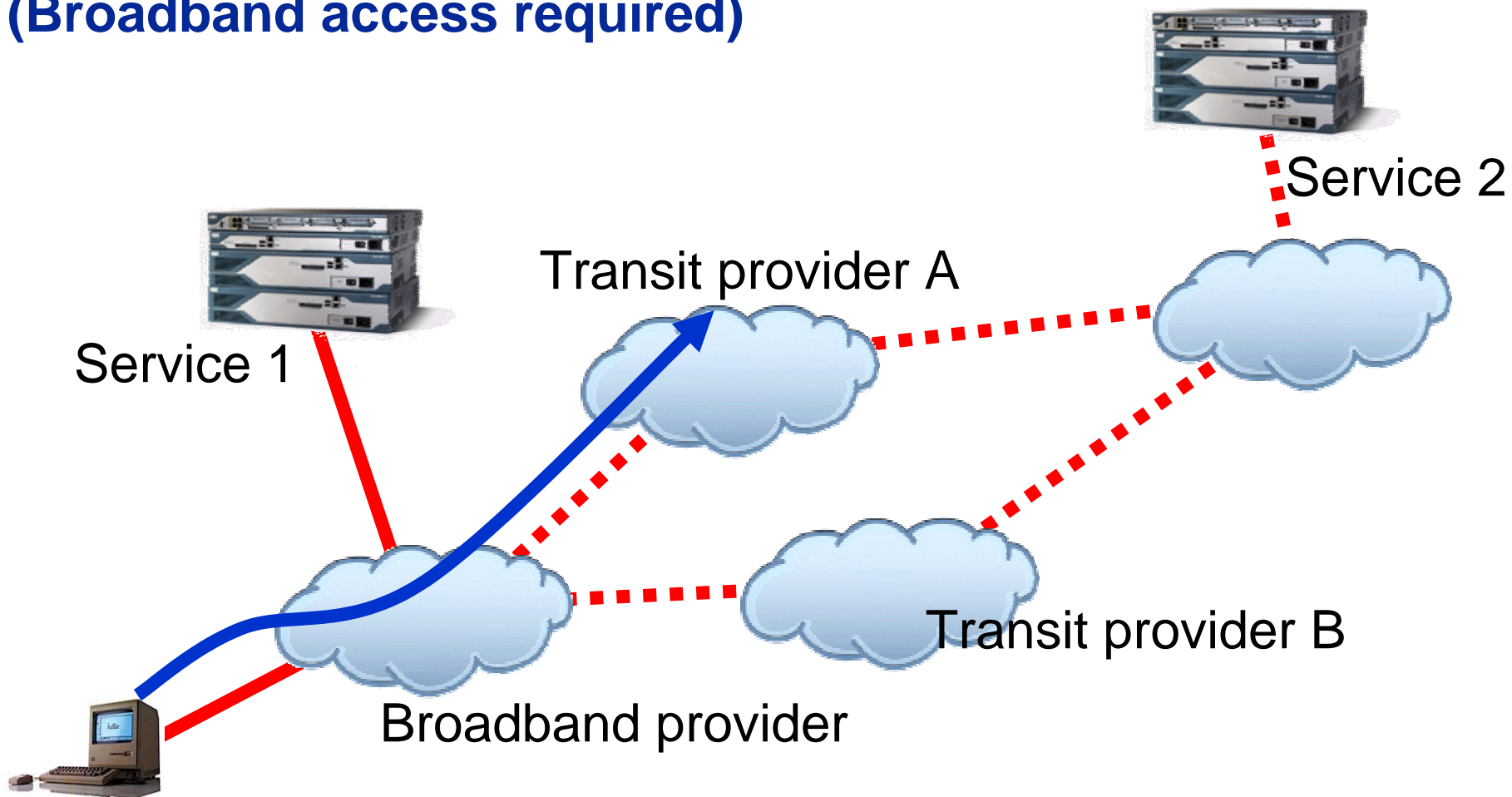
# 1. Broadband access



## 2. Local services (Broadband access required)



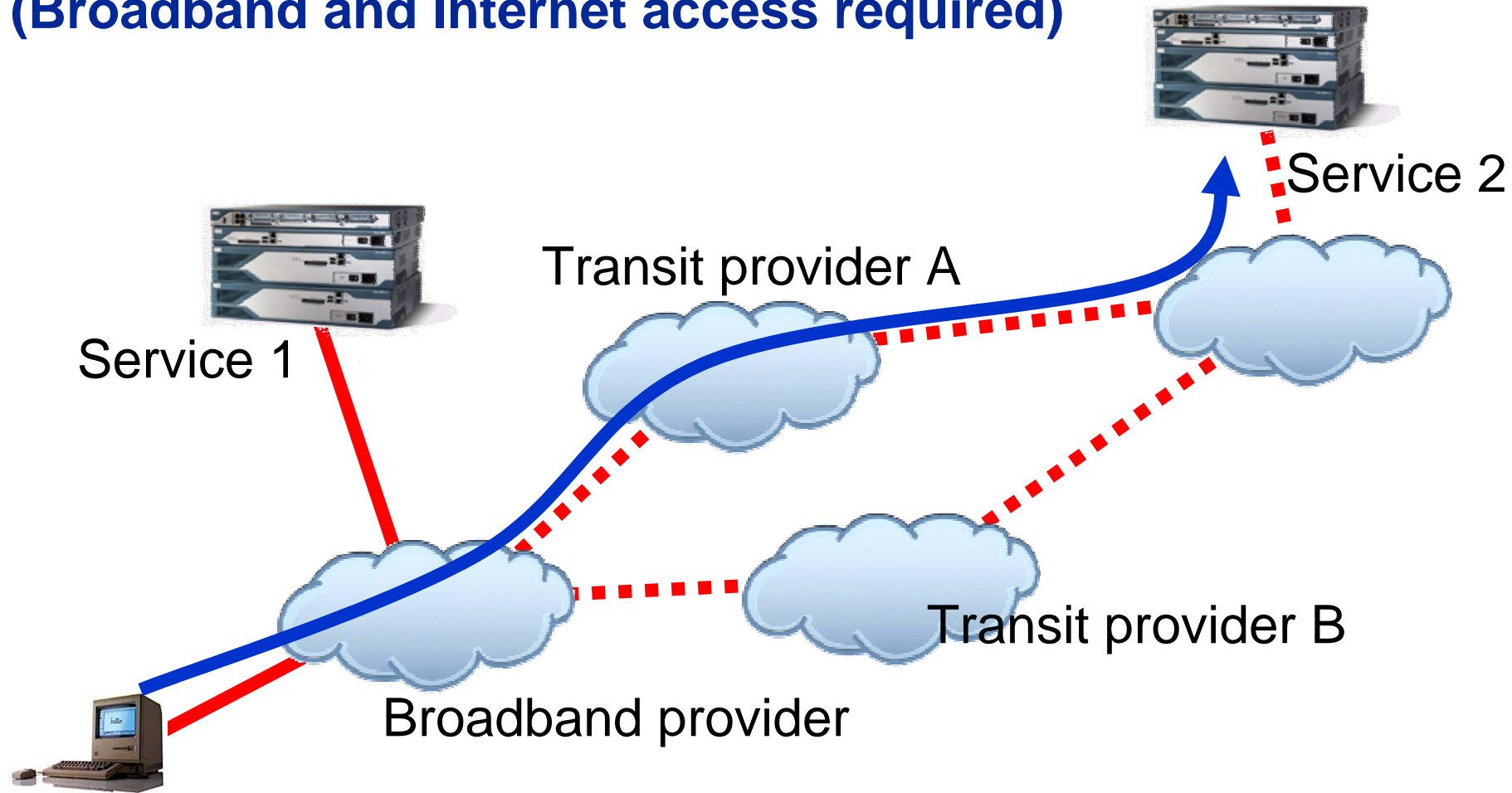
# 3. Internet access (Broadband access required)





# 4. Non-local services

(Broadband and Internet access required)



# Products to choose from

## 1. Broadband access

- Necessary for all services

## 2. Local services

- Broadband access required

## 3. Internet access

- Necessary for non-local services

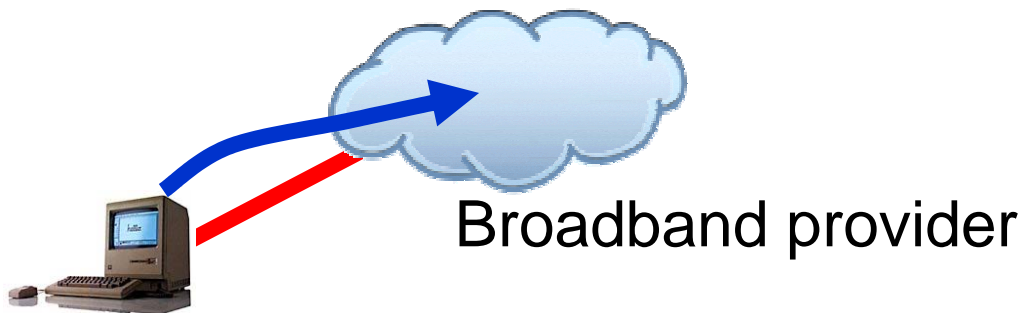
## 4. Non-local services

- Internet access required

# This model rises a couple of questions

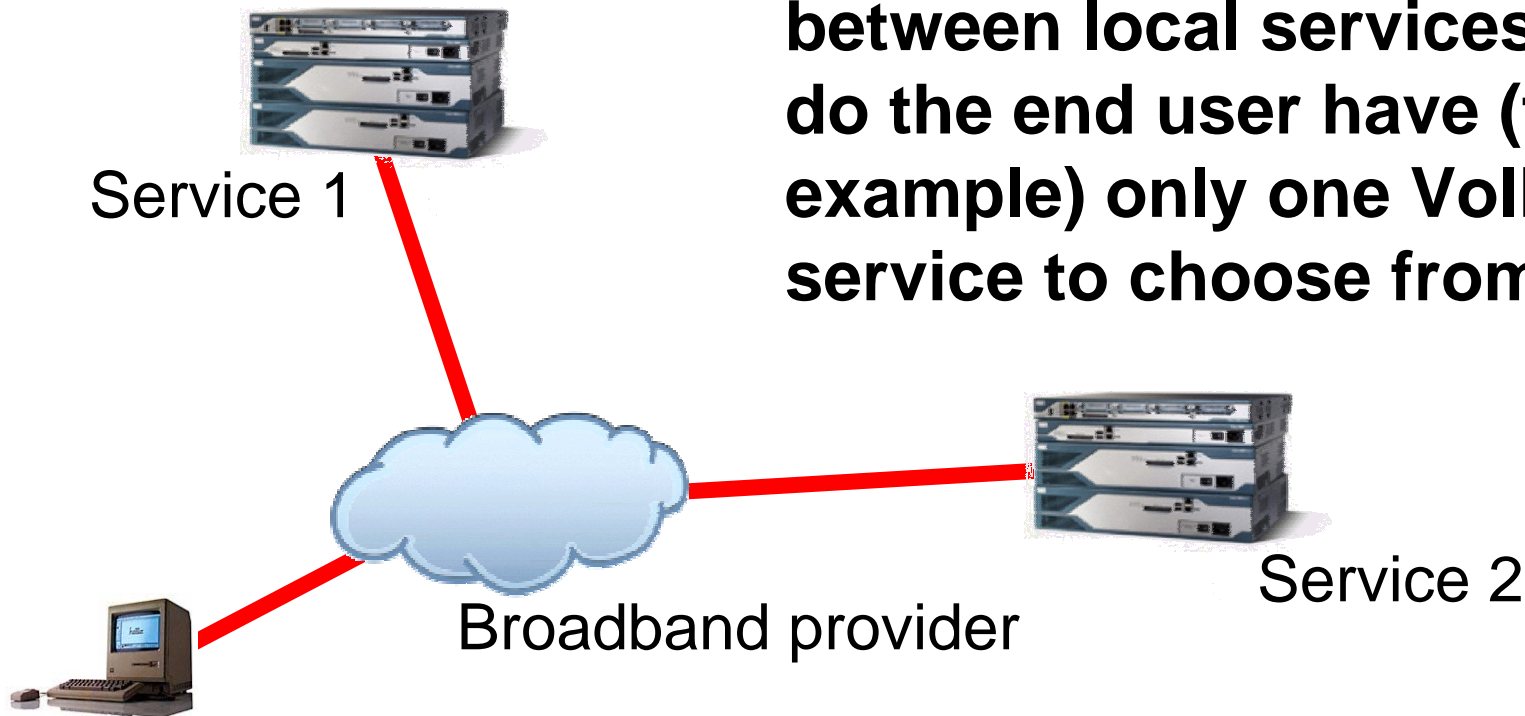
# 1. De-facto-monopoly for local broadband?

- Will each household have more than one broadband provider to choose from?
- If so, do they use the same infrastructure?
- Is there a need for special oversight around local access?



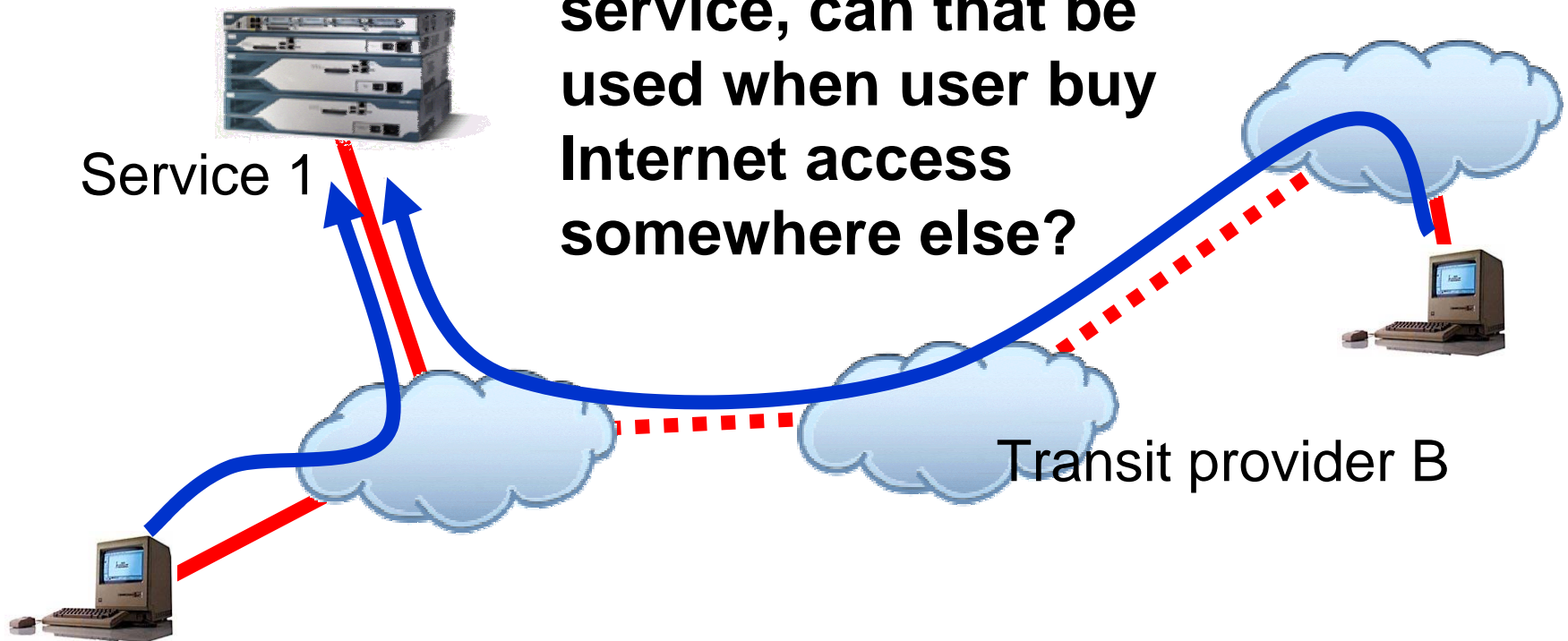
## 2. Competition between local services?

- Is there competition between local services, or do the end user have (for example) only one VoIP service to choose from?

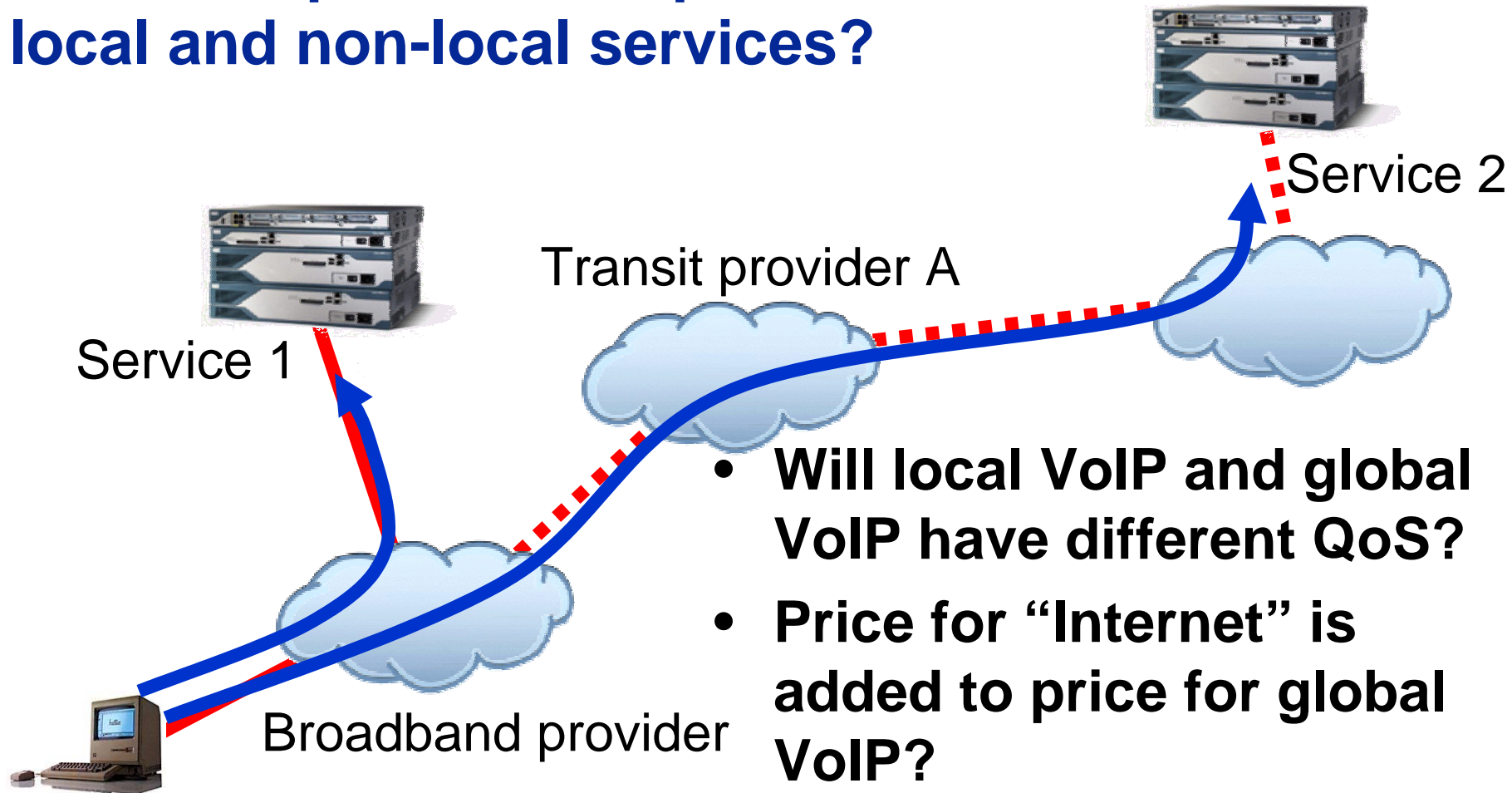


# 3. Reachability for local services?

- If end user buy a local service, can that be used when user buy Internet access somewhere else?

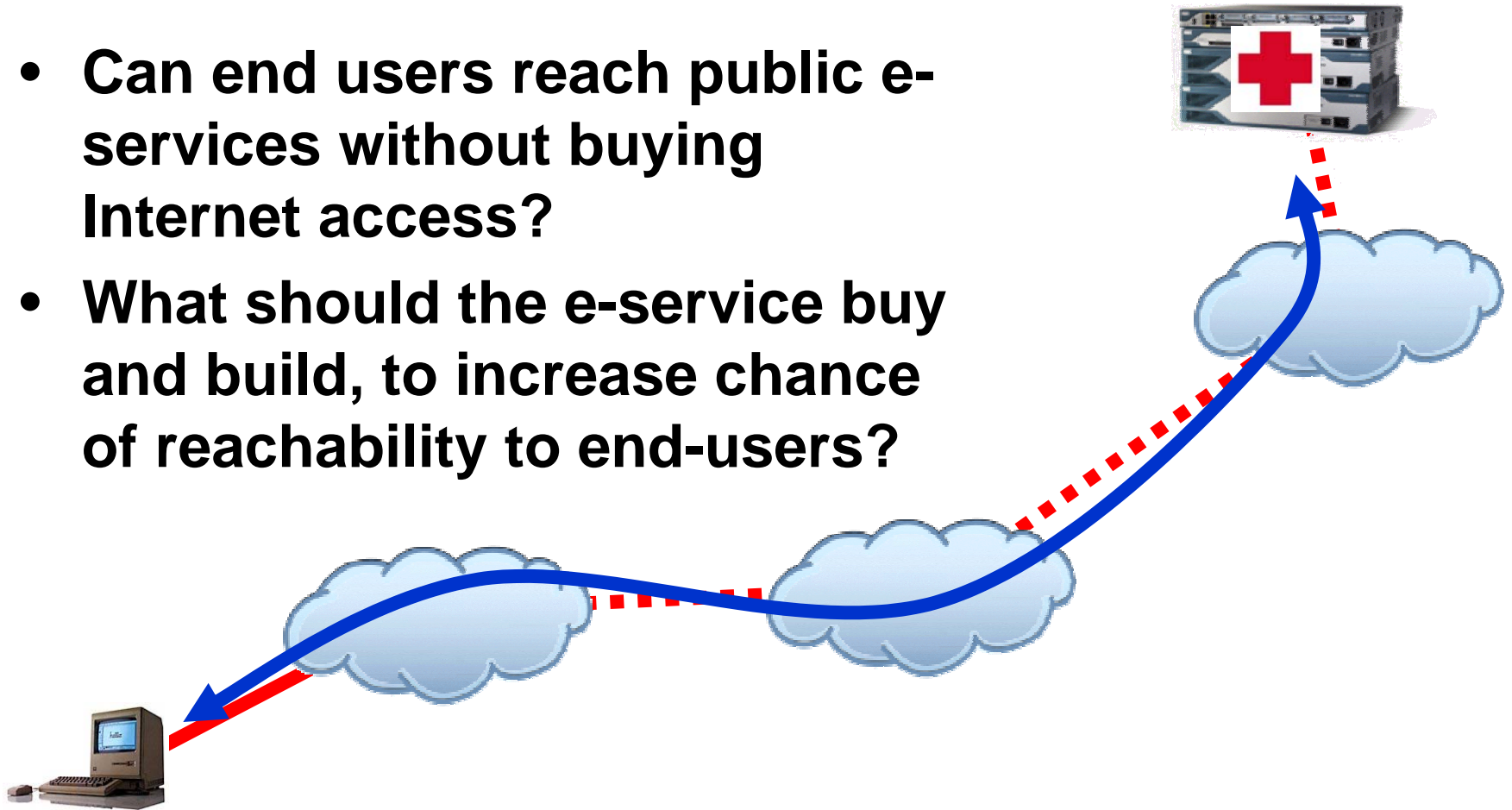


## 4. Price and performance of Internet access impact on competition between local and non-local services?



# 5. Deployment of public e-services?

- Can end users reach public e-services without buying Internet access?
- What should the e-service buy and build, to increase chance of reachability to end-users?

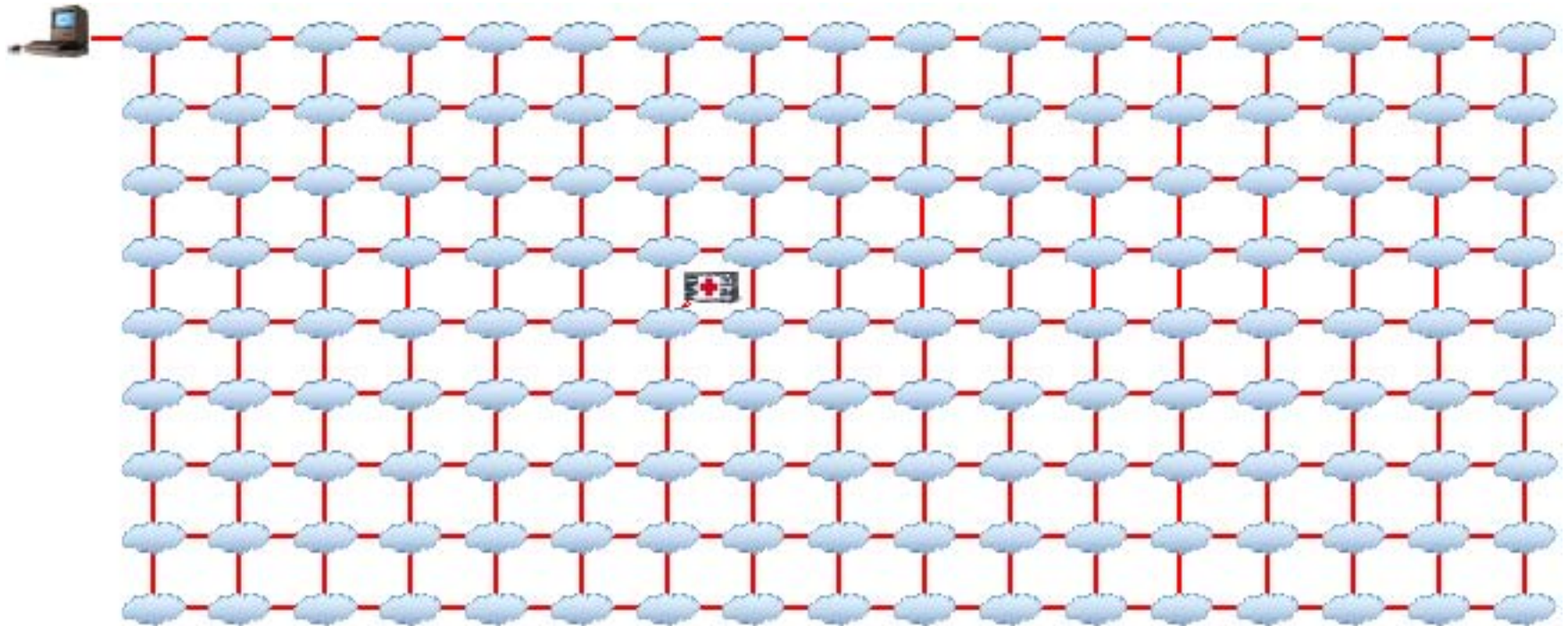




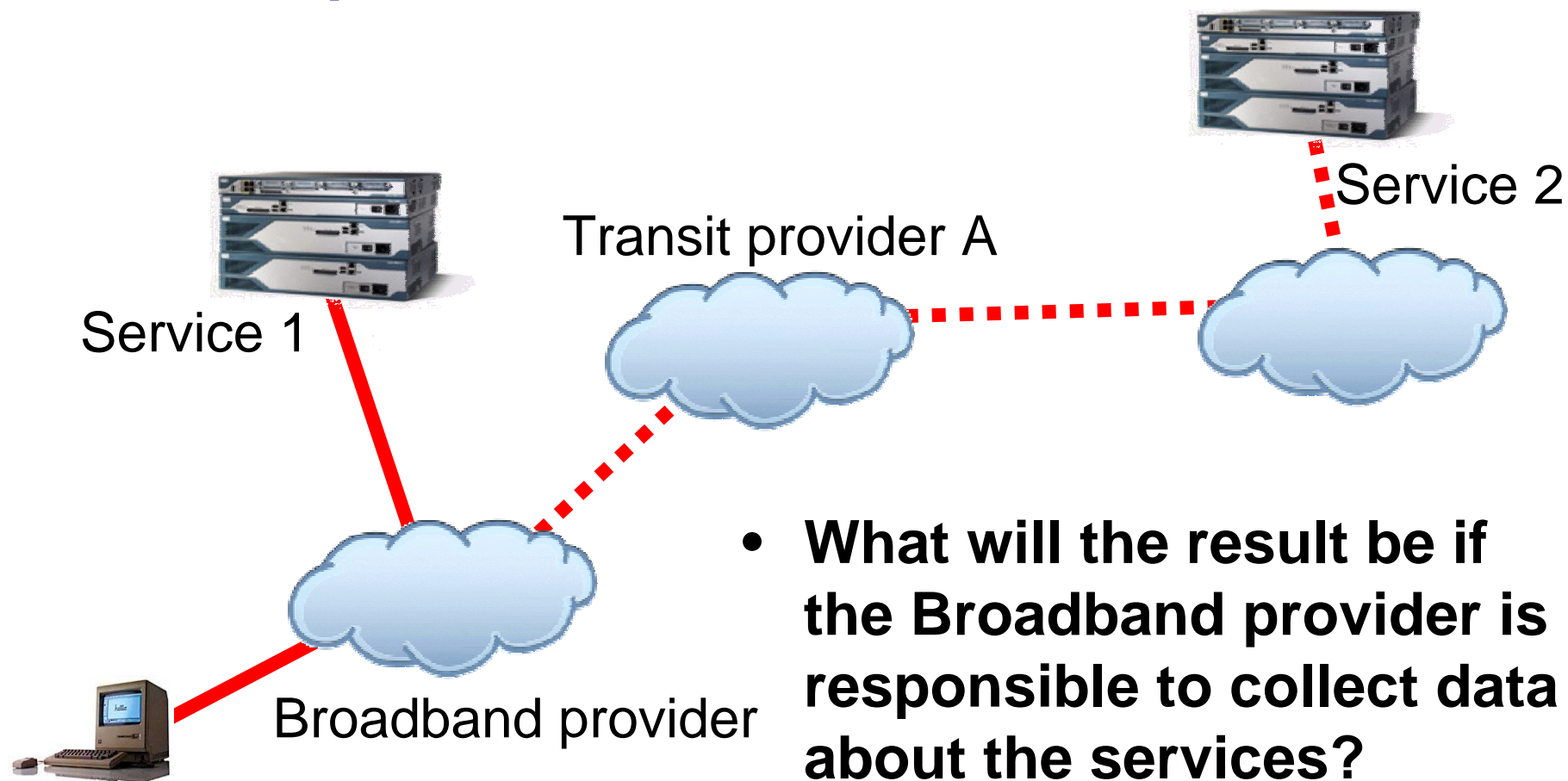
# 5. Must the e-service have connectivity/agreement with every network?



# 5. Or is it enough to get one connection?



## 6. For issues like data retention and wiretap, who is responsible to collect what data?



# Statements...

**The ultimate goal is that the user, independent of location and time, must be able to access the services she or he wishes, without being hindered by blocks created by business, technical, or regulative reasons.**

**This vision of the user's ubiquitous access requires convergence when looking at services, equipment and networks.**

**The impression, though, is that this convergence process is slow, and is hindered by traditional business models.**

**The main purpose of the review of the telecom regulation is to ensure the existence of effective and stable competition in all sectors of the market.**

**Regulation should be “future-proof” and predictable, and strive towards a high degree of harmonization and consumer protection, ensure security, privacy and trust.**



***The Swedish Government has indicated that these issues should be examined. We have also highlighted these issues in connection with the review of the electronic communications directive.***

# Links:

- **Swedish IT Policy**
  - <http://www.sweden.gov.se/sb/d/2156/a/20015>
- **IT Policy and Strategy Group**
  - <http://www.sweden.gov.se/sb/d/2156/a/22411>
- **Summary of the Government Bill 2004/05:175, From an IT policy for society to a policy for the IT society**
  - <http://www.sweden.gov.se/sb/d/2025/a/51790>
- **Development of IT infrastructure - action to increase access throughout Sweden**
  - <http://www.sweden.gov.se/sb/d/2025/a/18450>
- **Maria Häll <maria.hall@industry.ministry.se>**
- **Patrik Fältström <paf@cisco.com>**