



# Agenda

---

## The Proximus Network

CSD – GPRS - UMTS

## GPRS

How does it work ?

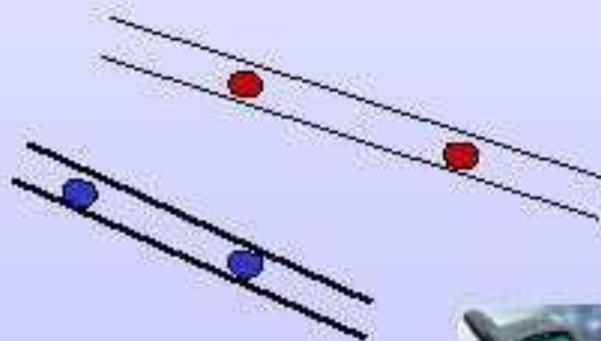
What is it used for ?

## Q & A

# The Proximus Network

## Circuit Switched Data (GSM = Global System for Mobile communications)

- Several frequencies per antenna (region)
- 1 frequency = 8 Time Slots (TS)
- Each end-user uses 1 TS



B2B Mobile Data – Bart Neyt  
Company confidential





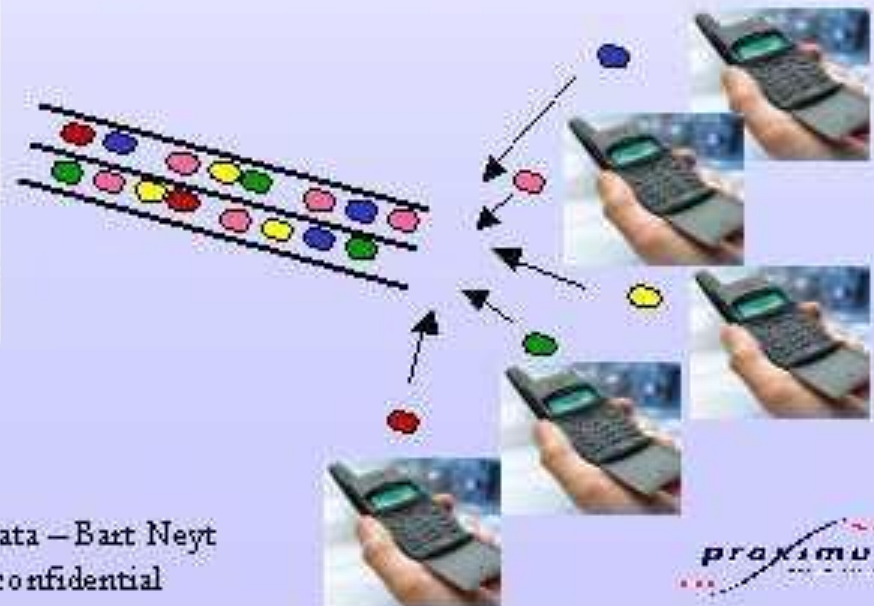
# The Proximus Network

## General Packet Radio Systems

= Packet Switched Data

- IP-principle : data is split in « packages »
- 1 Time Slot can be used by several end-users

**Optimisation of  
network resources**



# The Proximus Network

## ■ UMTS

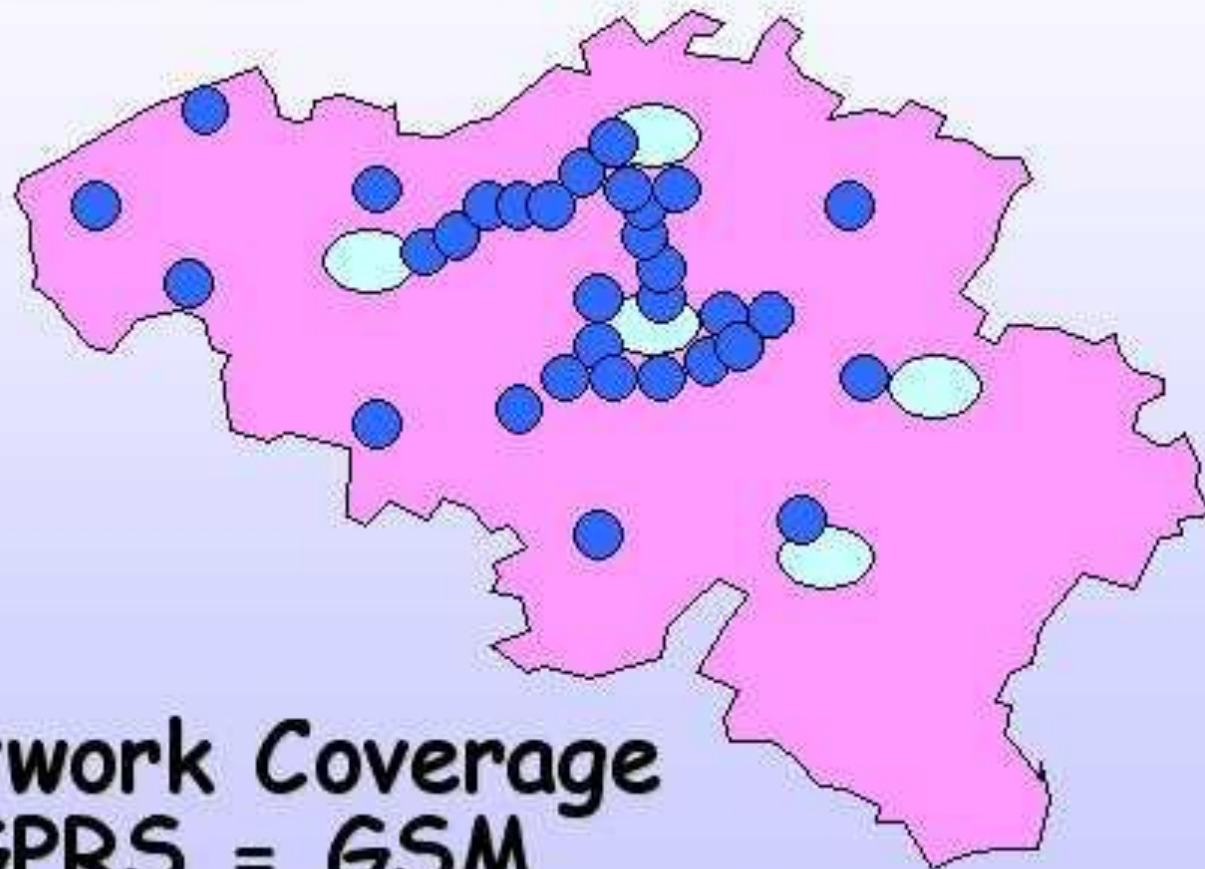
### Universal Mobile Telecommunication System

- Need for High data rates
- Need for new services
  - Video telephony
  - Electronic business cards
  - Streaming video for security
  - Virtual workgroups
  - ...



# Do we need GPRS ?

---



**Network Coverage**  
**GPRS = GSM**

B2B Mobile Data – Bart Neyt  
Company confidential



# The Proximus Network

---

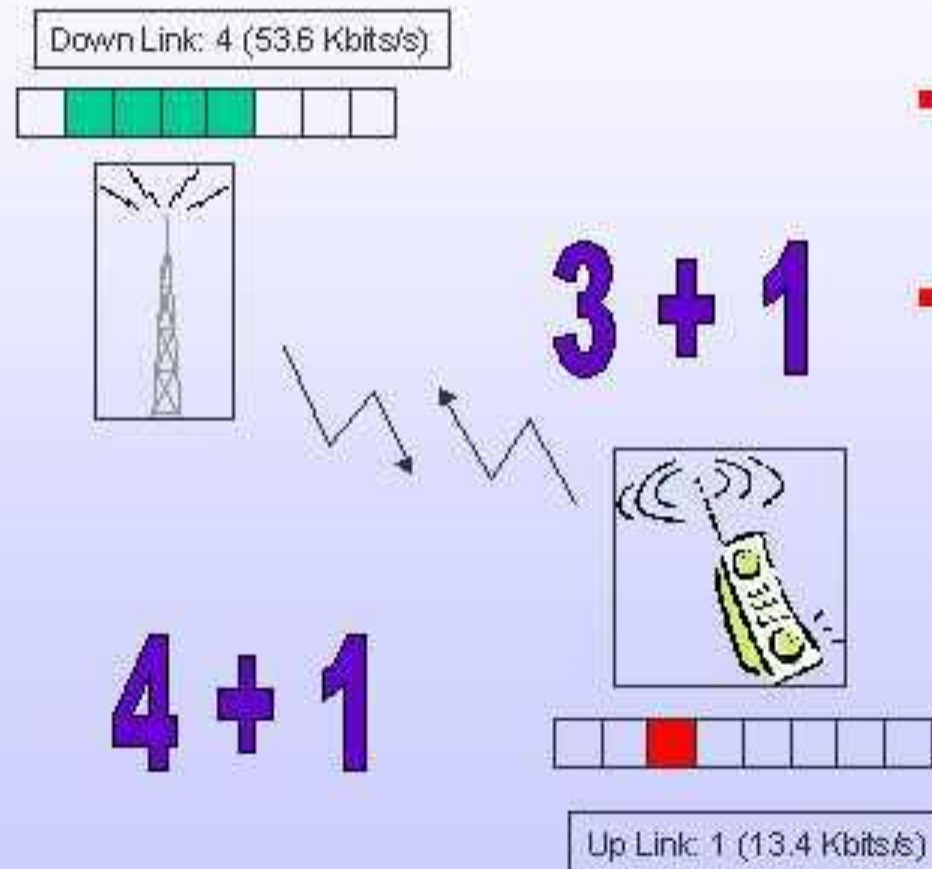
From CSD => GPRS is a revolution

From GPRS => UMTS is only an evolution



- GPRS is based on current GSM network
  - Same coverage roll-out => 99,9 %
- GPRS uses IP principle
- Always on possibility
- Billing is volume-based > < time-based

# GPRS Data Rates



## ■ Up Link :

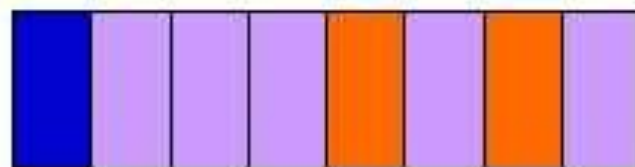
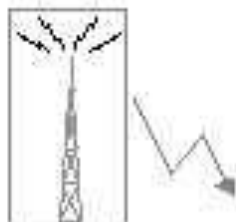
- from handset to network
- 1 timeslot = 13.4Kbits/s

## ■ Down link :

- From network to handset
- 3 TS = 40.2 Kbits/s
- 4 TS = 53.6 Kbits/s



# GPRS Data Rates



- Slot not used
- Control Channel
- GPRS
- GSM



# GPRS Handsets

## Cable Data Suite



## Bluetooth

B2B Mobile Data – Bart Neyt  
Company confidential



# Application Trends





# Several major application groups are defined

**Mobile office**

Applications that enable the user to wirelessly access any type of office functions or access to other applications/content typically available in an intranet

**Field support**

**Salesforce  
enablement**

**Workforce  
management**

**Remote monitoring and tracing**

**Telemetry**

**Security**

**Traffic  
telematics**

**Logistics**

# Data Services

---

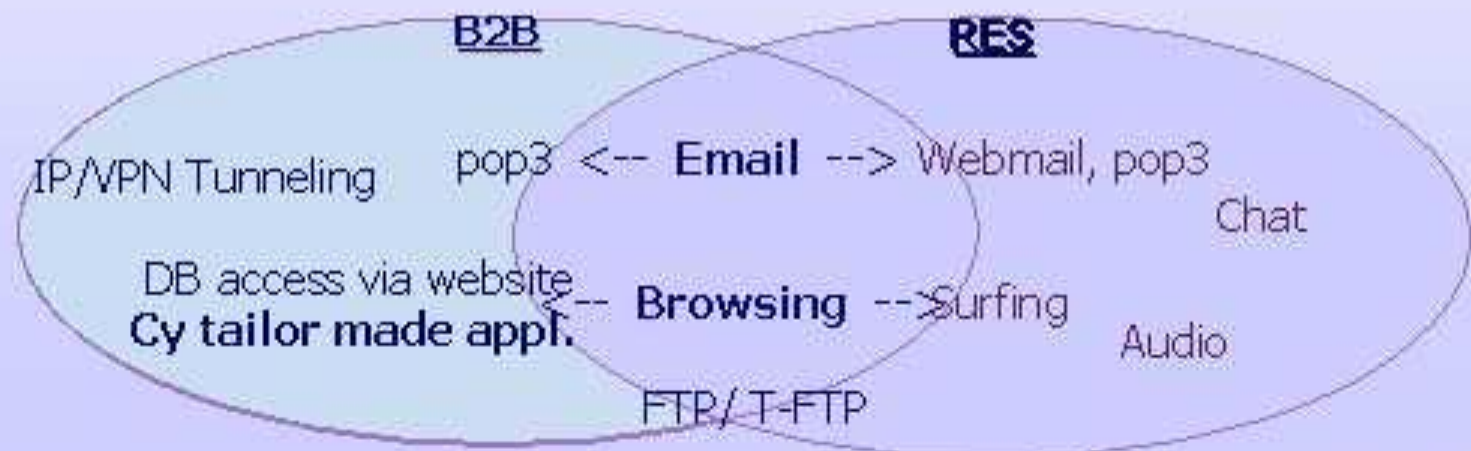
## Mobile office

- Mobile Intranet
- Mobile Internet

# Data Services

*Heavy applications  
are not advised*

- Emails (No time-waste when meeting is cancelled...)
- Newsgroups (Medical appl. for urgent consulting, Net meeting...)
- Browsing (look for information : traffic / maps / ...)
- Audio streaming (Media-player...)
- Always latest version available
- For some specific professions (waterways...)



B2B Mobile Data – Bart Neyt  
Company confidential



# Data Services

I do not have that information with me,  
Let's make an appointment for next week

An advertising campaign  
discussion. Check Online  
Media-buying availability

Architect & constructor on  
site, changes plans and  
sends them immediately to  
client for approval.

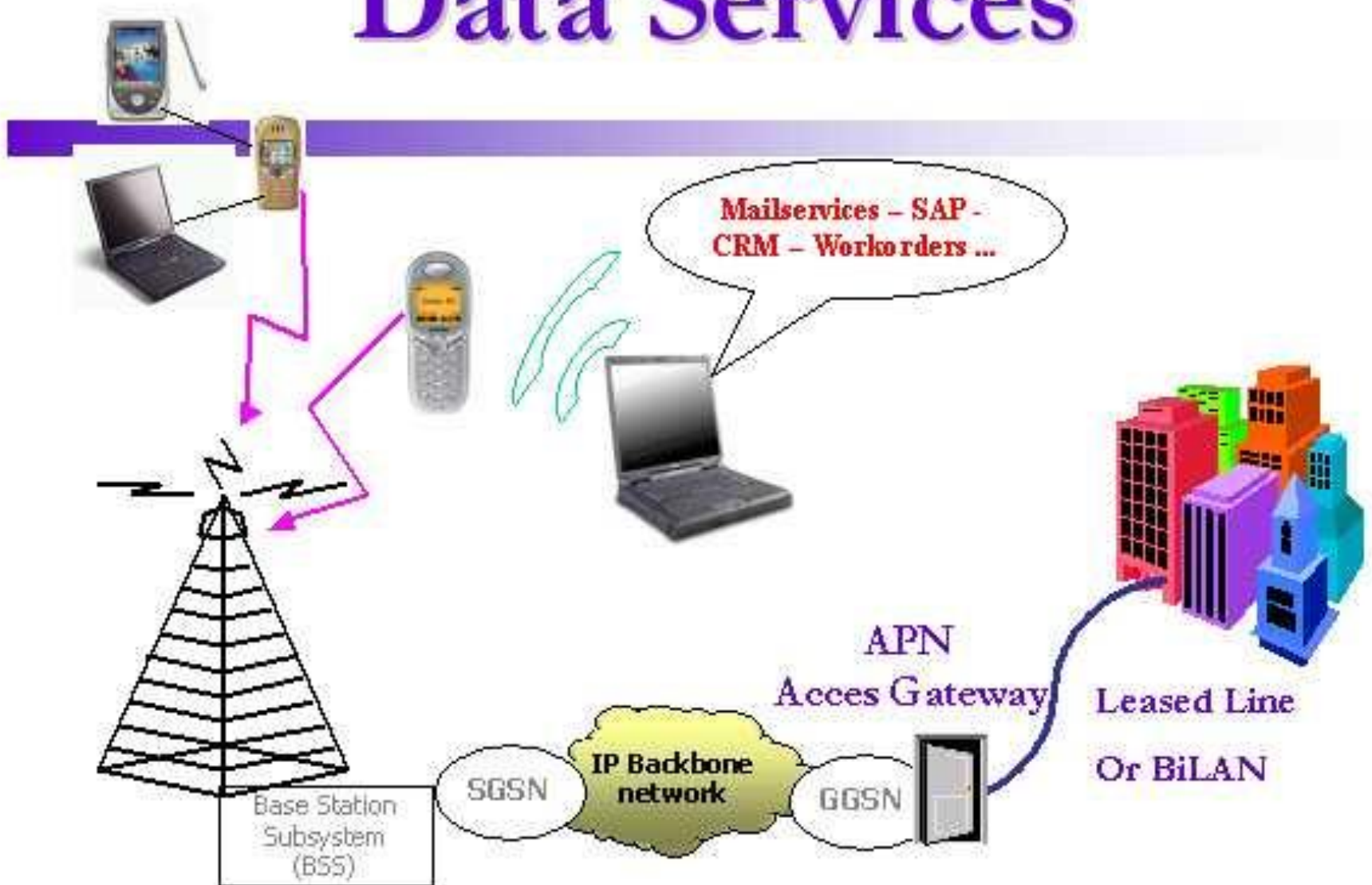


Press Communiqué : My clients  
are sooner informed than I am

My catalog is not the most  
recent, but the last version is  
available on our web-site

**It's just a start**

# Data Services





**Q & A ?**

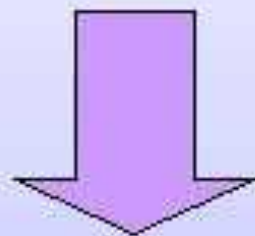
**Demo**



# Conclusion

---

**Multiple Devices  
for multiple purposes**



**Find out the Mobile Need**

---

# THANK YOU

Bart Neyt Product Manager B2B Mobile Data  
Belgacom Mobile (Proximus)  
Vooruitgangstraat 55 B-1210 Brussel

Tel. +32-2-205.32.66  
Fax. +32-2-205.21.68  
GSM +32-476-55.50.90

E-mail: [bart.neyt@proximus.net](mailto:bart.neyt@proximus.net)

B2B Mobile Data – Bart Neyt  
Company confidential

