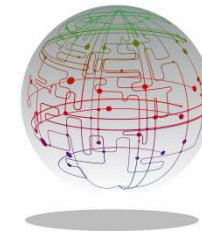


# BRESAT Kickoff

## Needs of Regions & Roadblocks

# Cyprus



**DEC**  
DEPARTMENT OF ELECTRONIC  
COMMUNICATIONS

**Stavros Tsiakkouris**  
**Department of Electronic Communications**  
**Ministry of Communications and Works**  
**Republic of Cyprus**

# Department of Electronic Communications

## Competent Authority for:

### Radiocommunications

- including satellite communications

### Information Society

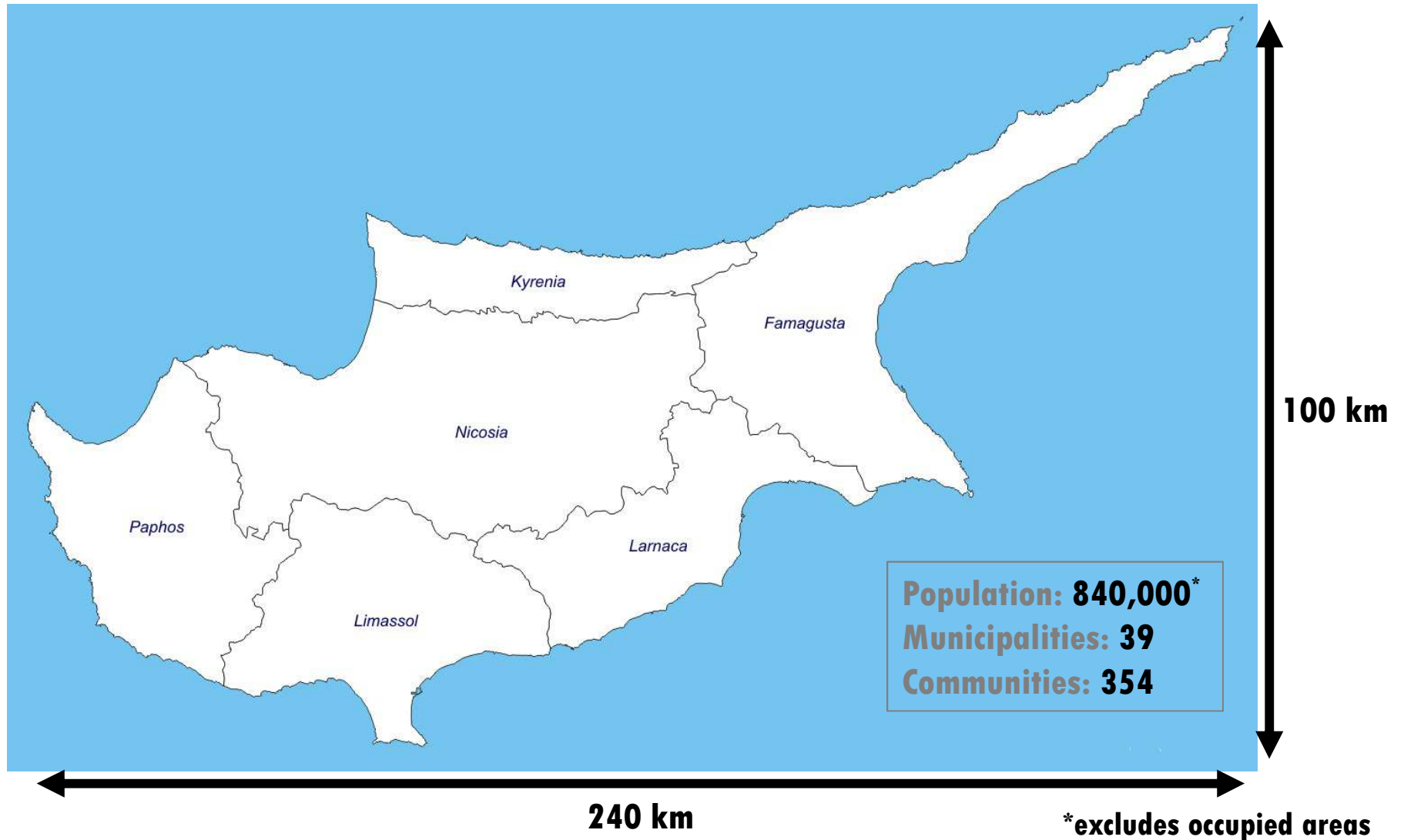
- national digital strategy
- national broadband plan

### Electronic Signatures

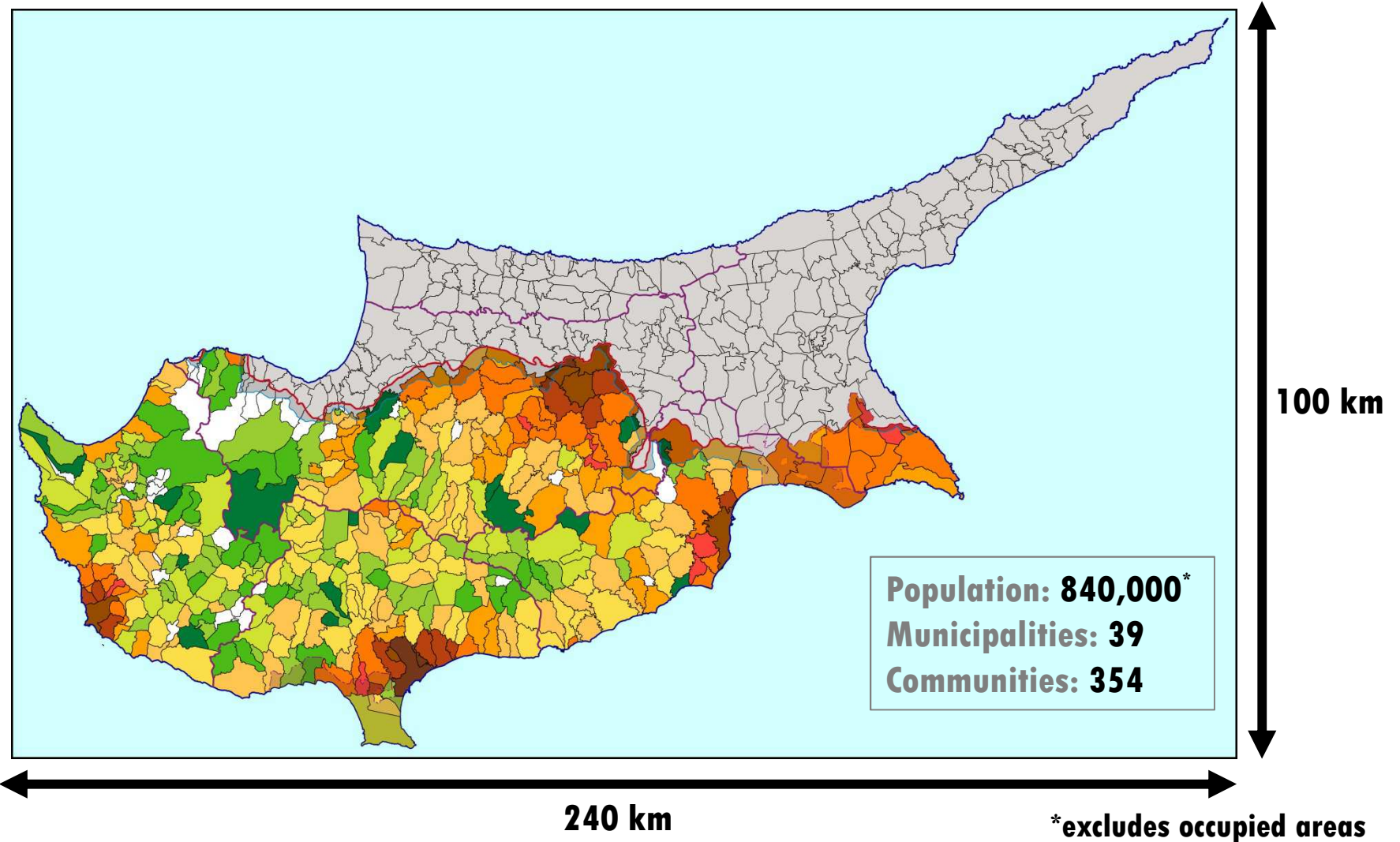
### Space Policy

- Cooperation Agreement with ESA

# Cyprus – introducing the ‘region’



# Cyprus – population density



# Broadband in numbers

## Fixed broadband

**Coverage: 100% (EU → 95.3 %, 85.2 % rural)**

**Penetration 24.4 lines/100 pop (EU → 26.4)**

**Broadband take-up 55.5% households (EU → 67.3)**

**Broadband taking line speed into account:**

<b>% of lines</b>	<b>CY</b>	<b>EU</b>
<b>equal to or above 2 Mbps</b>	<b>92.1 %</b>	<b>91.8 %</b>
<b>equal to or above 10 Mbps</b>	<b>8.3 %</b>	<b>48.4 %</b>
<b>equal to or above 30 Mbps</b>	<b>0 %</b>	<b>8.5 %</b>
<b>equal to or above 100 Mbps</b>	<b>0 %</b>	<b>1.3 %</b>

*Data from DAE Scoreboard (2011), current values may be different*

# Broadband in numbers

## Mobile broadband (3G/HSPA)

**Coverage: 95.7% (EU → 89.9 %)**

**Penetration 3.4 lines/100 pop (EU → 8.1)**

[mobile penetration 135.3 lines/100 pop (EU → 127)]

**Take-up 3.9% population (EU → 11.8%)**

**Market share of leading operator 73.8% (EU → 37.1)**

## Mobile broadband (3.5G/HSPA+)

**Coverage: 85.2% (57.8% of territory)**

*Data from DAE Scoreboard (2011), current values may be different*

# Cyprus – broadband targets inline with DAE

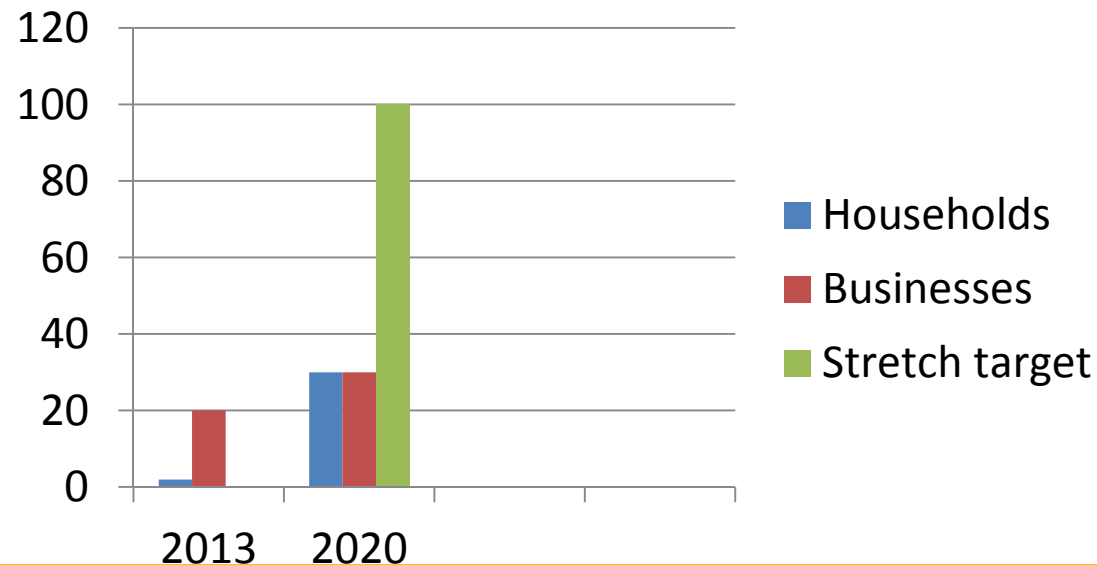
## Milestones:

2 Mbps to all households by 2013 ✓

20 Mbps to 70% businesses by 2013 [TBC]

30 Mbps to all households & businesses by 2020

100 Mbps to >50% of households & businesses by 2020



# Our Digital Strategy & Broadband plan

**Approved by the Council of Ministers in Feb 2012**

**Six major strategic objectives including 111 actions**

**One strategic objective deals exclusively with access to broadband infrastructure and services**

**National broadband plan currently under final review**

**Aim: Achieve universal penetration and take-up of 'first class' digital services**



# Operator broadband plans & NGA networks

## Fixed

### **Incumbent operator (CYTA)**

**Replace ADSL2+ network with VDSL2 technology**

**Deploy FTTH network**

Phase 1 – households within 1.8 km from telephone exchange (200k household or 42% of market)

### **Alternative operators**

**Interested in deploying NGA networks but envisage a single FTTH network**

all players will have equal access with no competitive advantage to owner

# Operator broadband plans & NGA networks

## Mobile

**Two licensed mobile operators:**

**(1) CYTA, (2) MTN Cyprus**

**Procedure underway to license additional/new spectrum:**

**800 MHz, 900 MHz, 1800 MHz, 2100 MHz and 2.6 GHz bands for the deployment of national 3G/4G high speed broadband networks (including licence for a third mobile operator)**

- **Will contribute towards achieving national broadband targets**

# Case Study - Satellite Broadband

**In 2009 many rural areas not covered by broadband network (white areas)**

**Specifics: 153 communities (population 25,000 or 3% of total population) did not have broadband Internet access of which 105 opted for a satellite broadband scheme offered to them for free by the Government (service provided by Hellas Sat Consortium Ltd)**

**Each community covered by one or more (up to 17) 1 Mbps broadband satellite connection(s) (1024 kbps downlink / 128 kbps uplink) with external Wi-Fi access points to provide community-wide coverage.**

# Satellite Broadband – Typical Setup



# Satellite Broadband

**Project to end in October 2013...**

**Incumbent operator now provides fixed broadband access (xDSL) to all communities**

**Communities given the option to continue with satellite broadband service (funding to come from communities) or opt for fixed broadband service**

# Paving the way to ultra fast broadband

- **Co-financing through EU structural and cohesion funds to roll-out networks**
- **Promote a stable regulatory framework**
- **License more spectrum for mobile broadband**
- **Promote competition → price reduction**
- **Facilitate the adoption of NGA technologies**
- **Network and Information Security**
- **Investigate opportunities offered through broadband aggregation schemes**

# Thank you