Cyprus as a regional node (hub) in the field of electronic communications

Telecommunications Conference
Filoxenia Conference Centre
12/02/2016

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Ministry of Transport, Communications and Works (MTCW)

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Cyprus

Vision

Cyprus to become a Society of Information based on modern technologies, skills, and infrastructure, in the context of the national objective to be established as a regional hub in the area of Easter Mediterranean.

Mission

To support and promote the ICT (Information and Communications Technologies) and the digital innovation for the provision of high quality and secure electronic communications services, within affordable prices, resulting in the increase of social and economic welfare and in general the exploitation of the benefits of the new digital age.

Department of Electronic Communications (DEC) - Areas of Competency

Radiocommunications (Regulatory Authority)

Information Society Digital Strategy

DEC
DEPARTMENT OF ELECTRONIC COMMUNICATIONS

Electronic Trust Services (Regulatory Authority)

Space Strategy

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Radiocommunications

Cyprus Spectrum NRA (National Regulatory Authority)

- The Radiocommunication Laws of 2002 until 2013.

- Adoption of all EU Legislation
- Adoption of the majority of CEPT (Conference of European Postal and Telecommunication Administrations) Decisions
- Adoption of ITU PPs (Plenipotentiary) and WRCs (World Radiocommunication Conference) Final Acts

Radiocommunications (2)

Mobile Communications

3 authorisations

cyta – mobile network (2G/3G/4G) – 900MHz/1800MHz/2100MHz bands

MTN - mobile network (2G/3G/4G) – 900MHz/1800MHz/2100MHz bands

Primetel - mobile network (2G/3G/4G) – 900MHz/1800MHz/2100MHz bands

Radiocommunications (3)

Mobile Communications

New Authorisations

- 800 MHz (790-862 MHz)
- 2600 MHz (2510-2690 MHz)

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Radiocommunications – (4)

Satellite Communications

3 authorisations

- Hellas Sat Consortium (39^{0}A) – 1 satellite in operation – Launch of 2 new satellites in 2017
- OverHorizon (59.7^{0}A App 30B) – Launch of 1st satellite in 2017
- AP Kypros Satellites (20 orbital positions) – Launch of 1st satellite in 2018

Radiocommunications – (5)

Satellite Communications

New Developments

1 new authorisation – Evaluation procedure

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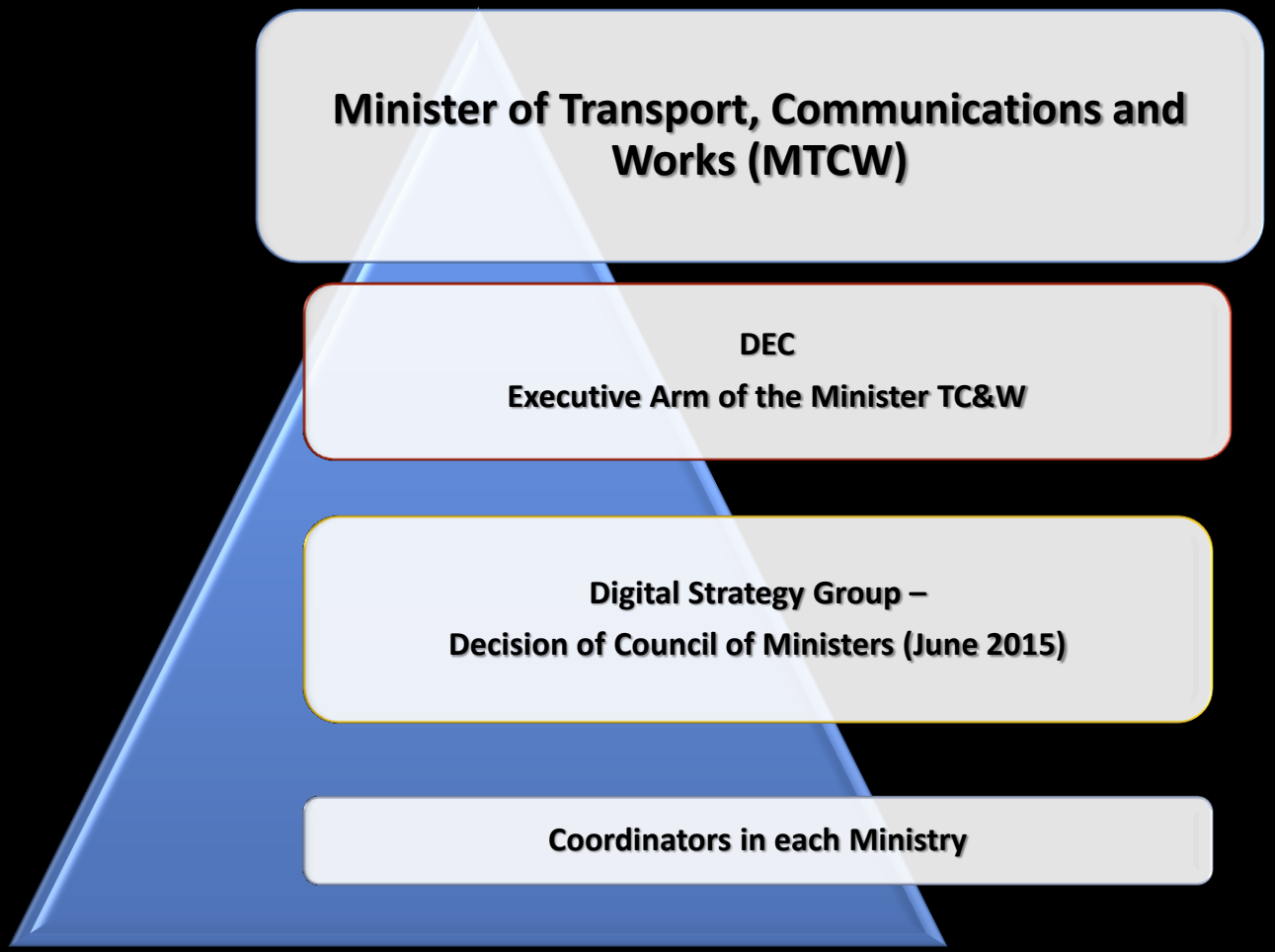
Radiocommunications (6)

Satellite Communications

- Promote Cyprus as a Satellite Centre

Digital Strategy

Structure of Governance

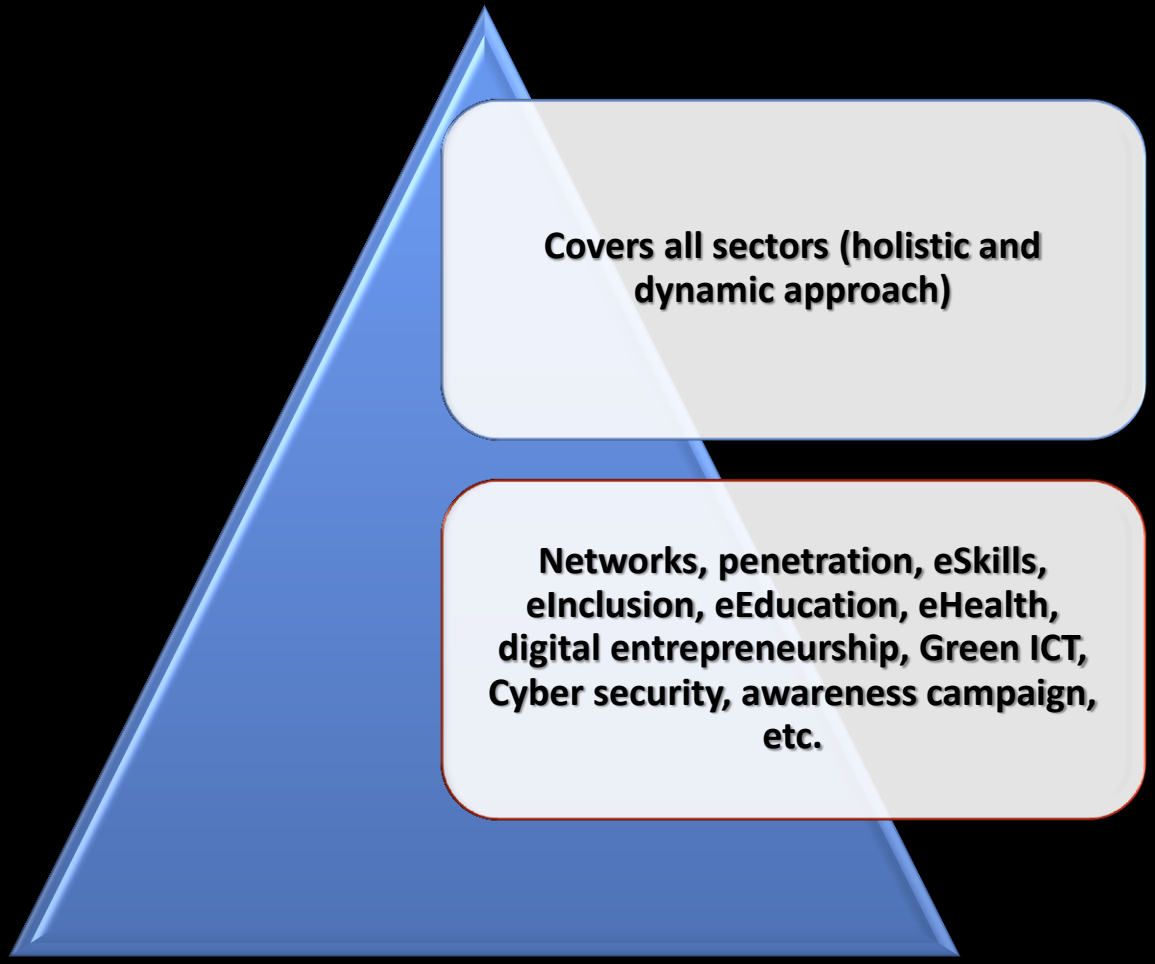


Digital Strategy- (2)

National Digital Strategy – 8/02/2012 – 6 Major Strategic targets

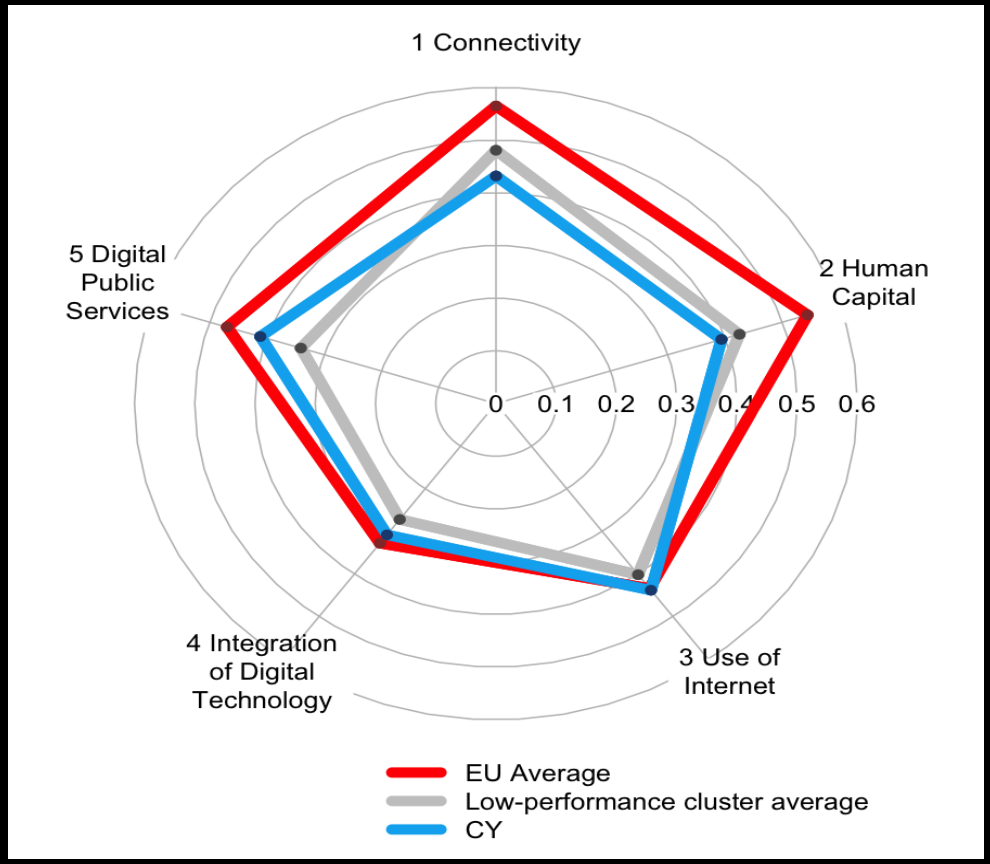
1. Connecting Cyprus,
2. Modernizing public administration and providing public electronic services,
3. Citizens' participation including vulnerable groups in Digital Cyprus,
4. Education and Learning,
5. Digital entrepreneurship, and
6. Promoting green technologies.

Digital Strategy- (3)



Digital Strategy - (4)

Digital Economy and Society Index (DESI)



Cyprus ranks 22 among EU countries.

It falls in the Low performance group of countries.

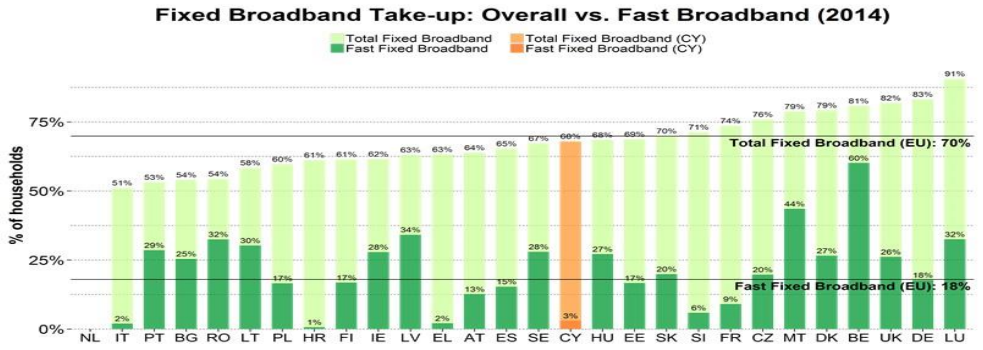
(Source EC)

Digital Strategy - (5)

Digital Economy and Society Index (DESI)

Connectivity: Fixed Broadband Take-up

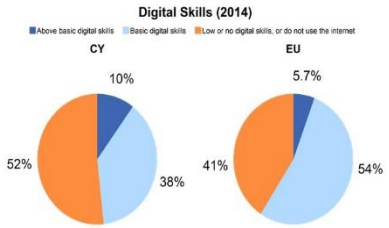
68% of Cypriot households subscribe to fixed broadband (70% in the EU), and 4.4% of those subscriptions are to a fast* connection (3% of Cypriot households).
26% of EU broadband subscriptions are to a fast* connection (18% of EU households).



Source: Eurostat and Electronic communications market indicators collected by Commission services, through National Regulatory Authorities, for the Communications Committee (COCOM)
* A broadband connection is considered to be a fast connection when it allows for donwload speeds above 30 Mbps.

Human Capital: Digital Skills

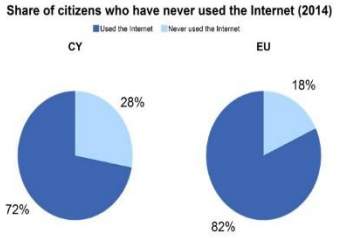
In Cyprus 38% of citizens have basic digital skills (54% in the EU)
and 10% have above basic digital skills (5.7% in the EU)



% of individuals
Source: Pilot work carried out by DG CONNECT in relation to action 62 of the Digital Agenda to propose "EU-wide indicators of digital competence". It is proposed for regular implementation starting with the 2015 survey.

Human Capital: Internet Users

28% of Cypriots have never used the Internet (18% in the EU)



% of citizens

Source: Eurostat - Community survey on ICT usage in Households and by Individuals

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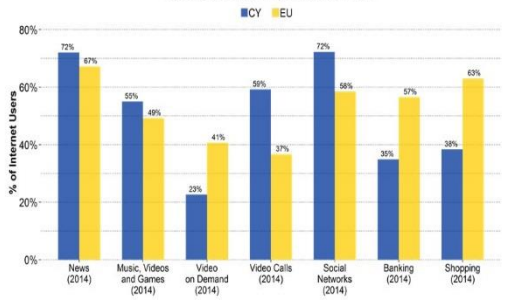
Digital Strategy - (6)

Digital Economy and Society Index (DESI)

Use of Internet

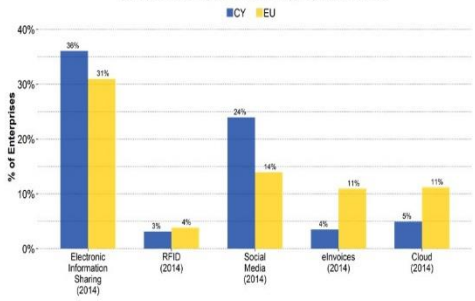
Cypriots, much like European citizens in general, perform a diverse set of activities online.
They use the Internet to consume content and media, to communicate, and to perform transactions.



Source: Eurostat - Community survey on ICT usage in Households and by Individuals; IHS Technology databases - TV Media Intelligence Service.

Integration of Digital Technology: Business digitization

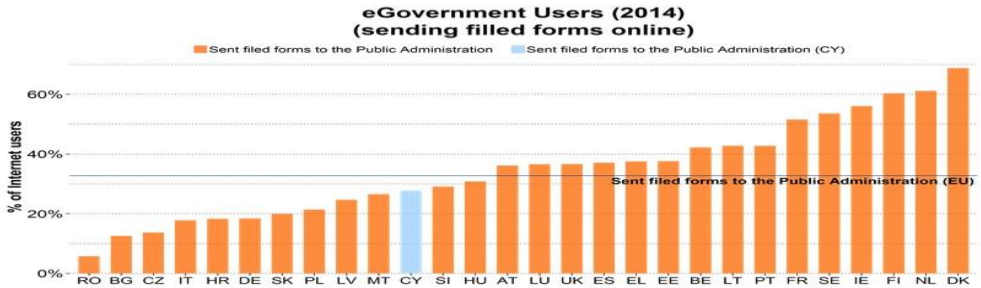
Businesses in Cyprus are adopting different digital technologies to enhance productivity,
such as sharing internal information electronically or using RFID, eInvoicing, Social Media and Cloud.



Source: Eurostat - Community survey on ICT usage and eCommerce in Enterprises

Digital Public Services: eGovernment users

28% of Cypriots have exchanged filled forms with the public administration online,
whereas overall in the EU 33% of citizens have done so.



Source: Eurostat - Community survey on ICT usage in Households and by Individuals

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Digital Strategy- (7)
Action Plan 2015-2017

- This Action Plan 2015-17 includes nineteen (19) projects (€107 million).
- Most of the projects will be co-financed from the European Structural and Investment Funds (ESIF) for the programming period 2014-2020.

Digital Strategy- (8)
Action Plan 2015-2017

- **Goals**

✓ The increase of the internet speed at affordable prices and good quality.

✓ The modernization of the public sector and the increase of available public electronic services.

✓ The enhancement of the Digital Entrepreneurship.

✓ The promotion of the Digital Skills.

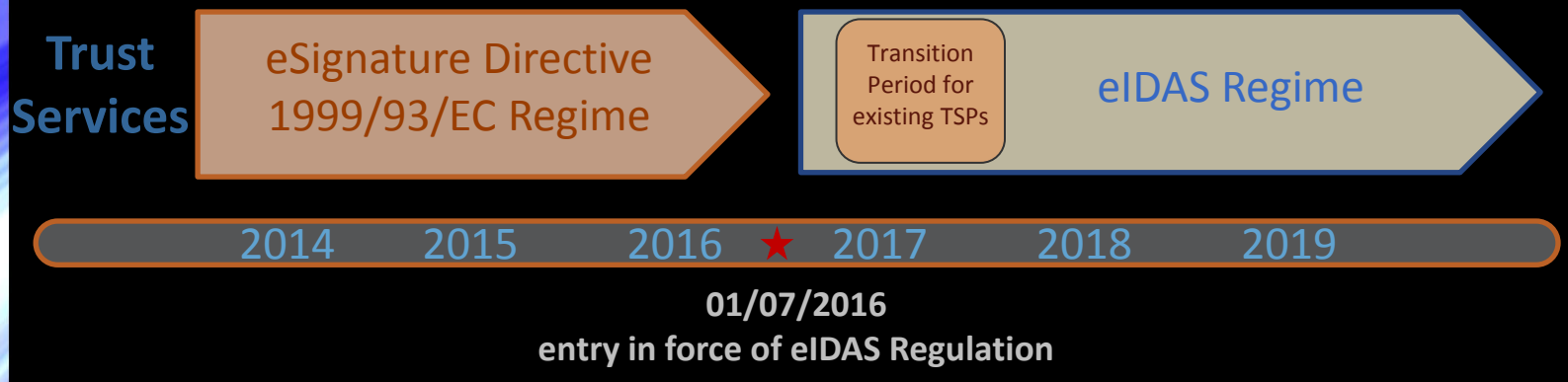
Electronic Trust Services

- **eIDAS Regulation**

«Regulation (EU) N°910/2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC»

- **Supervisory Body**

DEC supervises qualified Trust Service Providers (TSPs) established in the territory of the Republic of Cyprus to ensure, through supervisory activities, that those qualified trust service providers and the qualified trust services that they provide meet the requirements laid down in this Regulation.



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Electronic Trust Services (2)

eIDAS Regulation

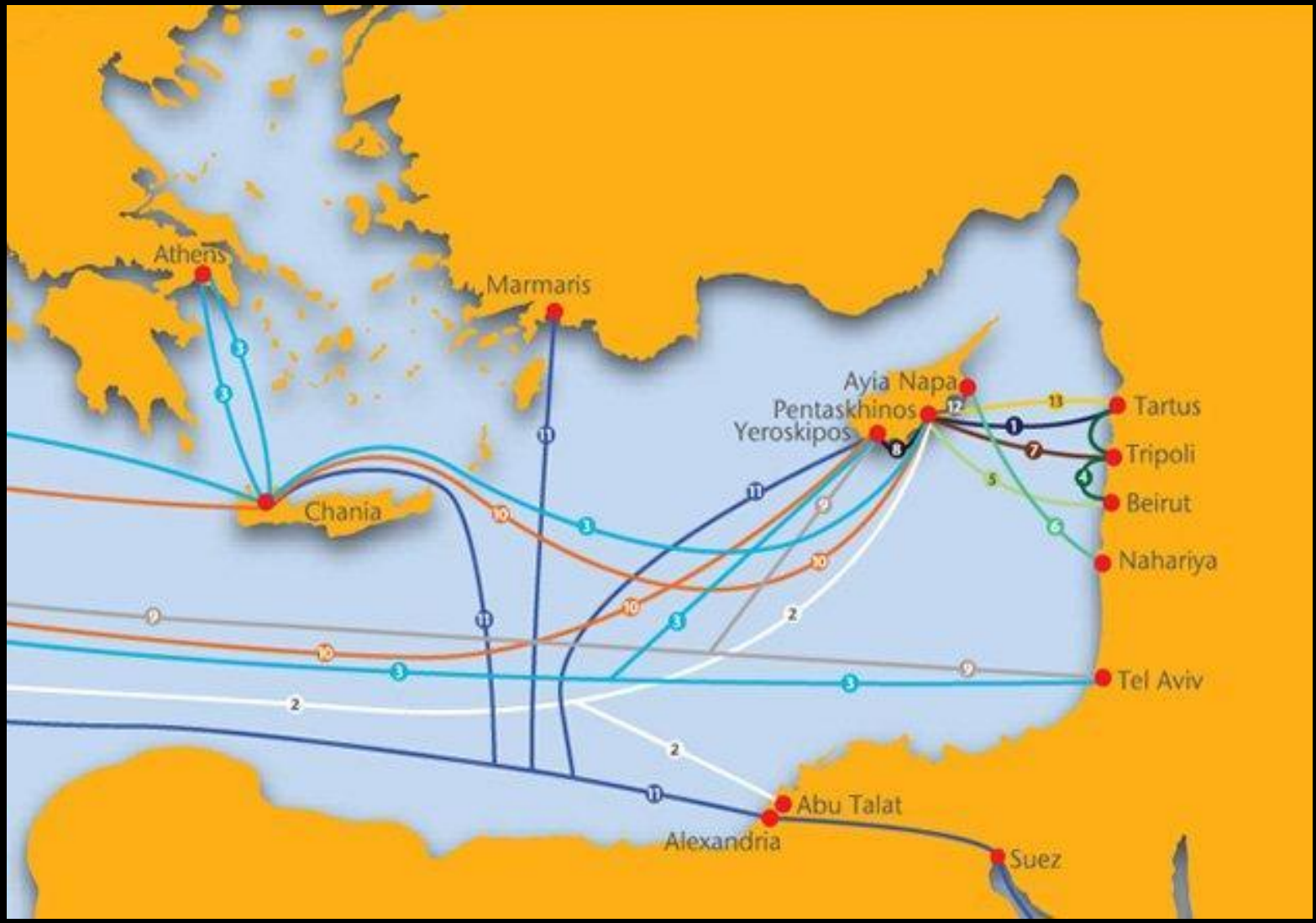
eID

Trust Services

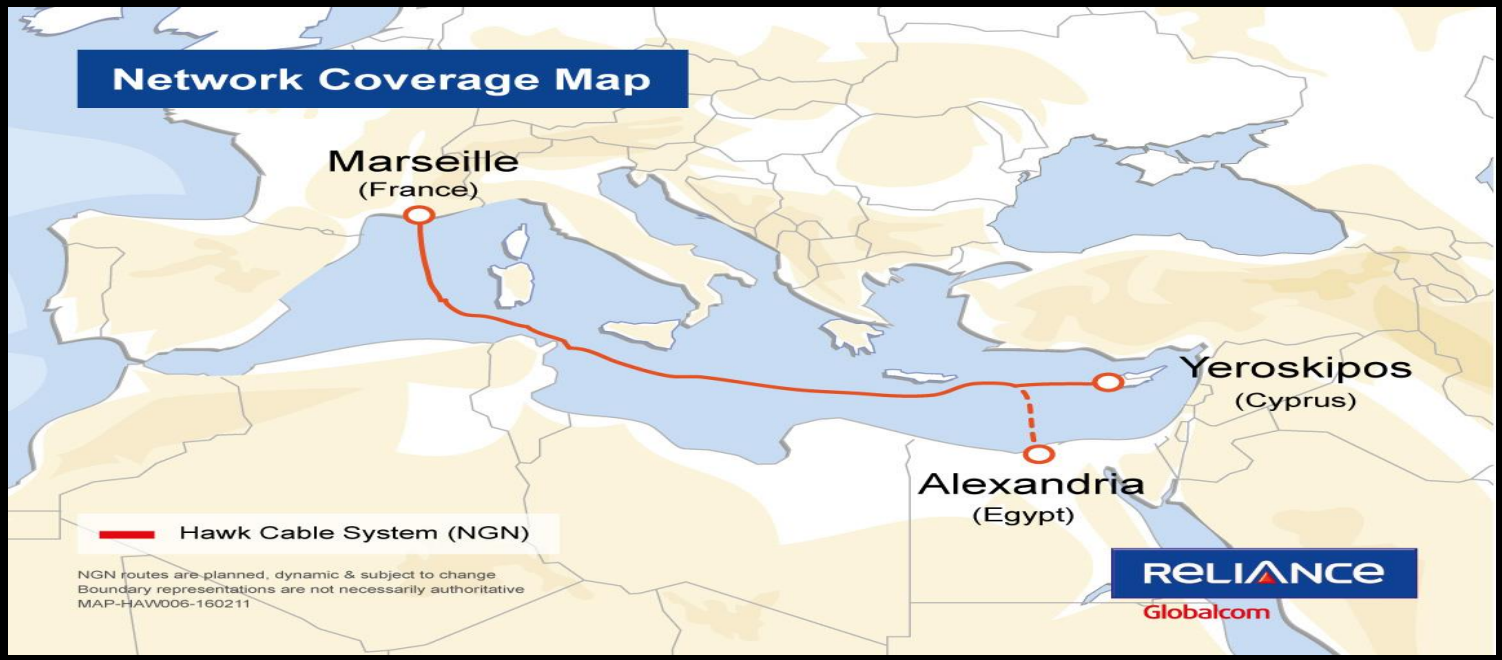
- Mutual Recognition
- Levels of Assurance
- eSignatures
- eSeals
- Time Stamps
- Website Authen-tication
- Electronic Registered Delivery
- eSig/eSeals Validation & Preservation

Cyprus Submarine International Network

Cyprus Submarine International Network - CYTA



Cyprus Submarine International Network - Primetel



Source HAWK Reliance Globalcom/Primetel

Cable system with design capacity of 2.7 Tbps with initial total lit capacity of 200 GbpsOne fiber pair (Local route) with initial lit capacity of 100Gbps connects Marseille - Yeroskipos - Alexandria

Smart Specialization Strategy for Cyprus (S3Cy) - Innovation clusters

Investment Plan for Europe- Junker Plan

DEC proposal

Improving and modernizing the broadband network – International Connectivity (Submarine Cables) – Data Centers

The enhancement of the international sub-marine cable network (development of new landing stations and launch of new submarine cables), connecting Cyprus with Europe, Middle East and Africa.

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Space Strategy

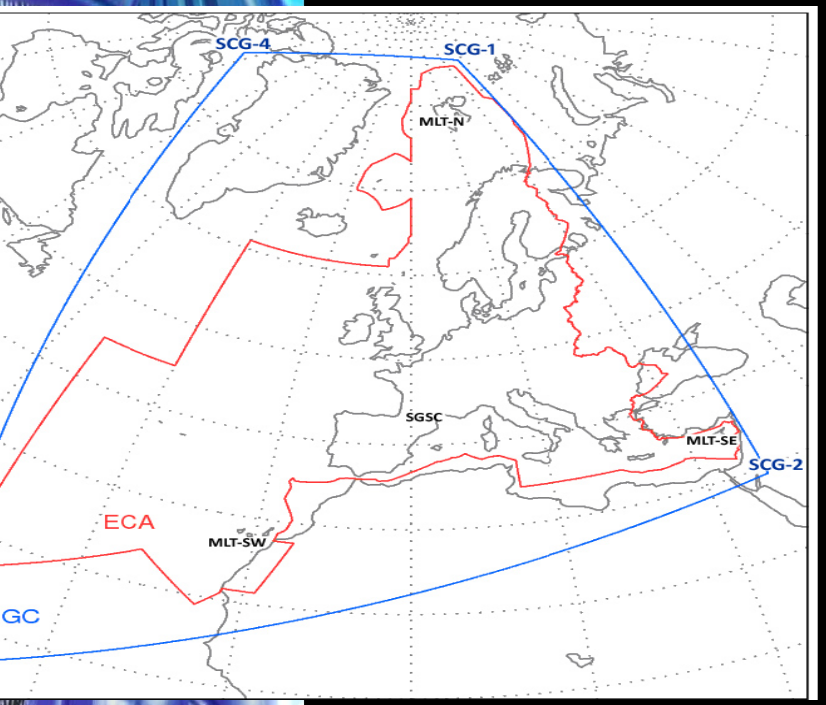
Council of Ministers' Decision No. 67.802 dated 17/10/2008

National Space Strategy (National Coordination)	EU Space Policy Programs (Galileo/EGNOS, Copernicus, H2020)	ESA - Cooperation Agreement (2009), - European Cooperative State – ECS (2016)

Space Strategy (2)

Search and Rescue service of Galileo

- MEOLUT – COSPAS/SARSAT



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EU Implementation Report 2015

- Electronic communications is a market manifesting significant dynamism in Cyprus, even amidst an important financial crisis. Competition is intensifying both in the fixed and in the mobile markets and the financial crisis has not halted investments.

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