

Med Nautilus Greece Cloud Computing Conference

*Maroussi Amphitheatre
March 20, 2014*



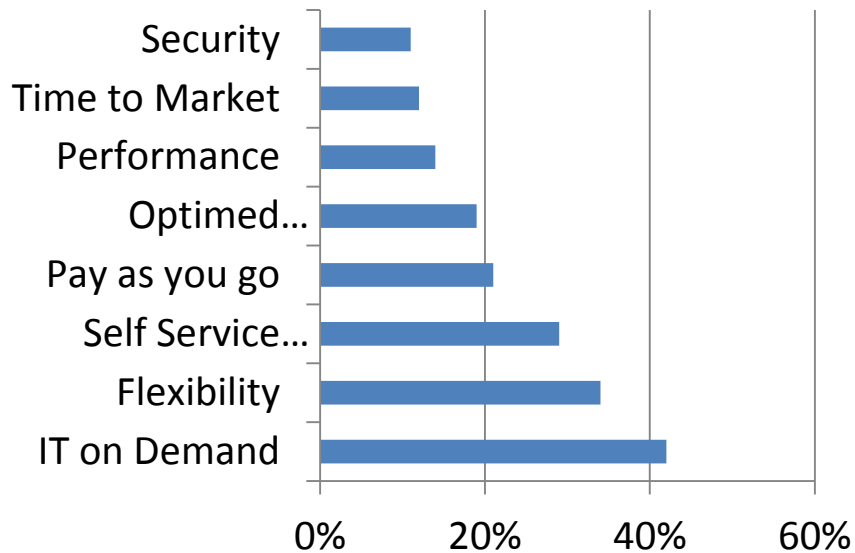
Cloud Revolution in Greece ?

*A.Danesi
CEO - MNG*

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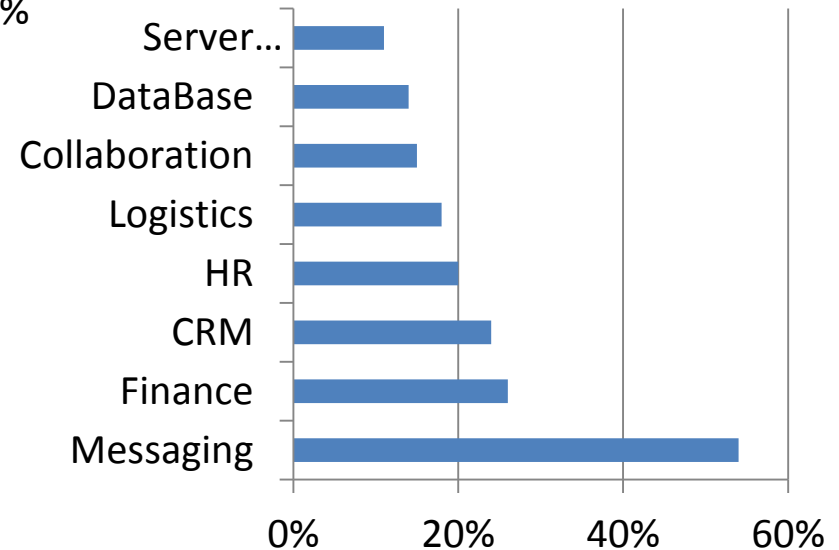
The True Cloud Customer Perspective



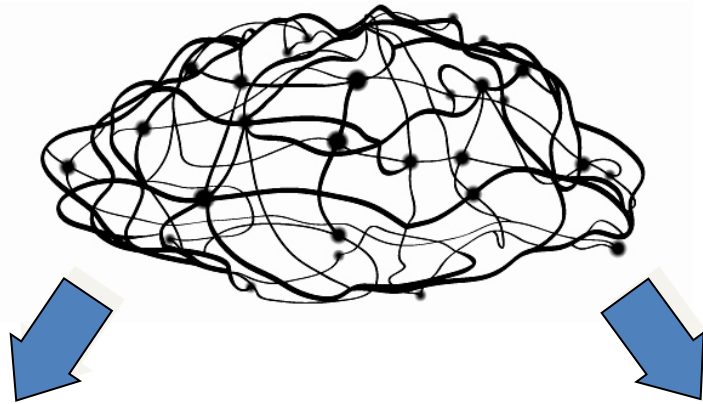
The Main Cloud Applications



The Recognized Cloud Values



Cloud Computing: Benefits for Customers



IT TCO Reduction (-23%)

IT Labour Productivity (200 VMs x HC)

Wide Adoption Worldwide

+60% Workload virtualized at DCs

Net cost savings/Lower risk

Peak Demand Management

Scalability

Business creation

Export boost/reduction

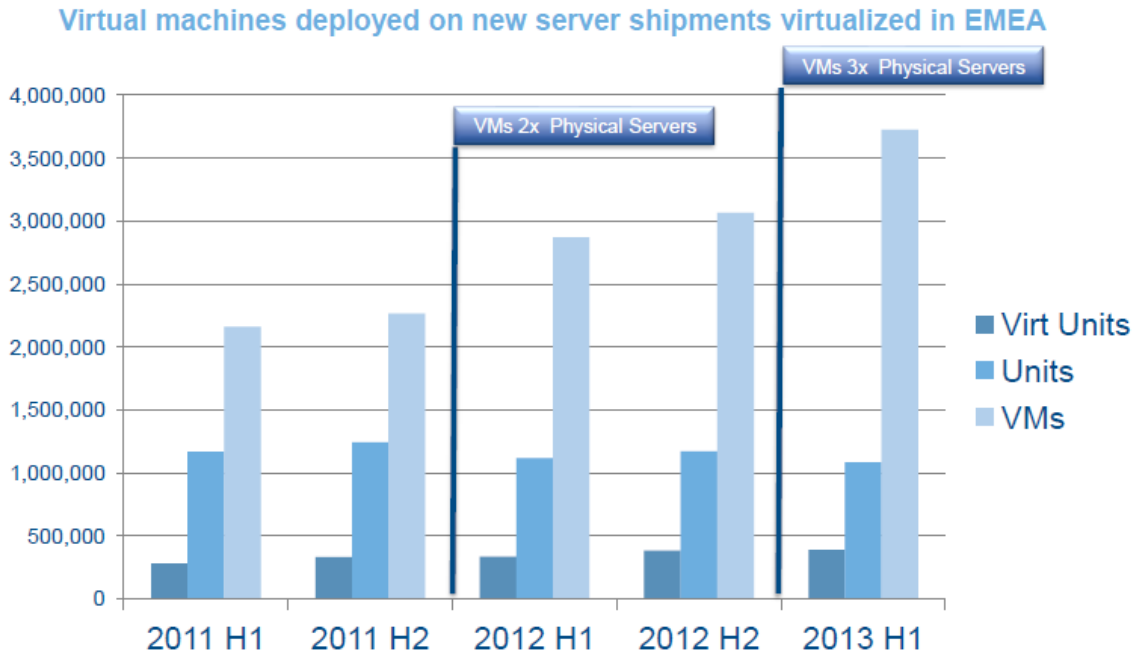
Time2Market4Innovation

Cloud computing leads to cost reduction and higher productivity, providing means to capture previously unsatisfied demand...

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The Virtualization Trend in EMEA



Ave . Cloud Provider Basic metrics:

- VM Size doubling every 18-24 months
- Basic Configuration: 4Gb vRAM,
- Basic hosting: 2Gb vRAM
- Critical apps: 12Gb vRAM

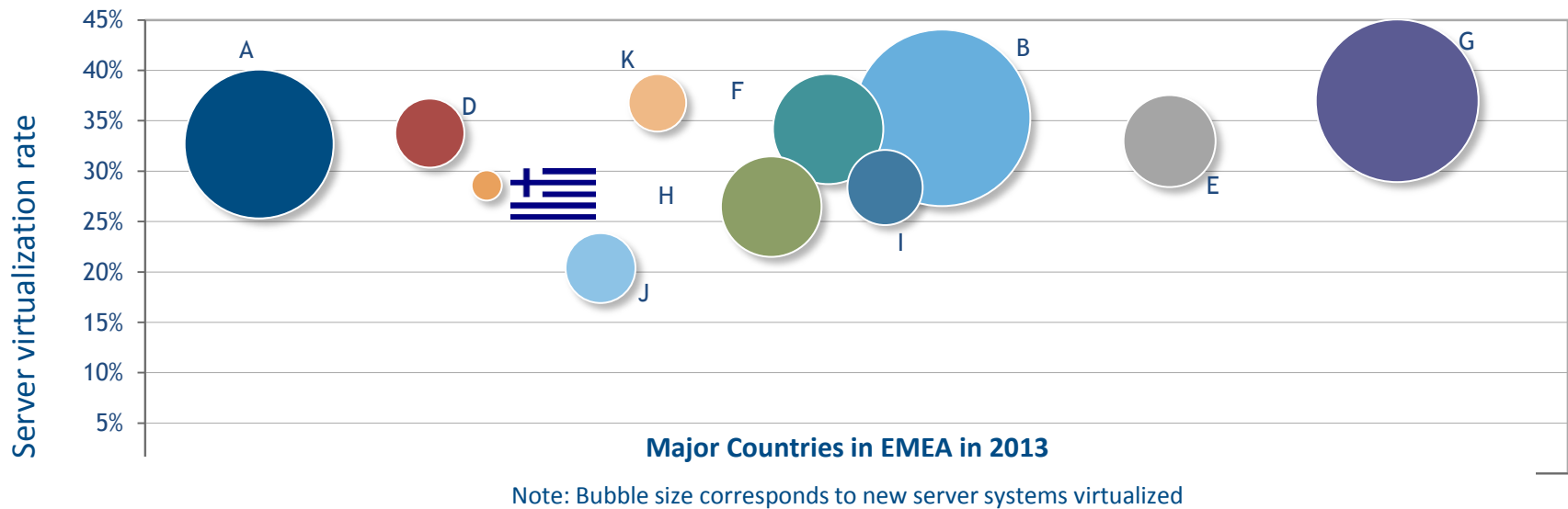
Cloud SP Organization:

- ❑ Headcount: doubling in 2 years
- ❑ 200% Revenues Growth in the first year of operation

Virtualization Global Megatrend is heavily affecting the entire IT Industry

Source: IDC Quarterly Server Virtualization Tracker IDC end user survey, n= 2,203 company applying server virtualization, and VMWare

Cloud Business in Greece

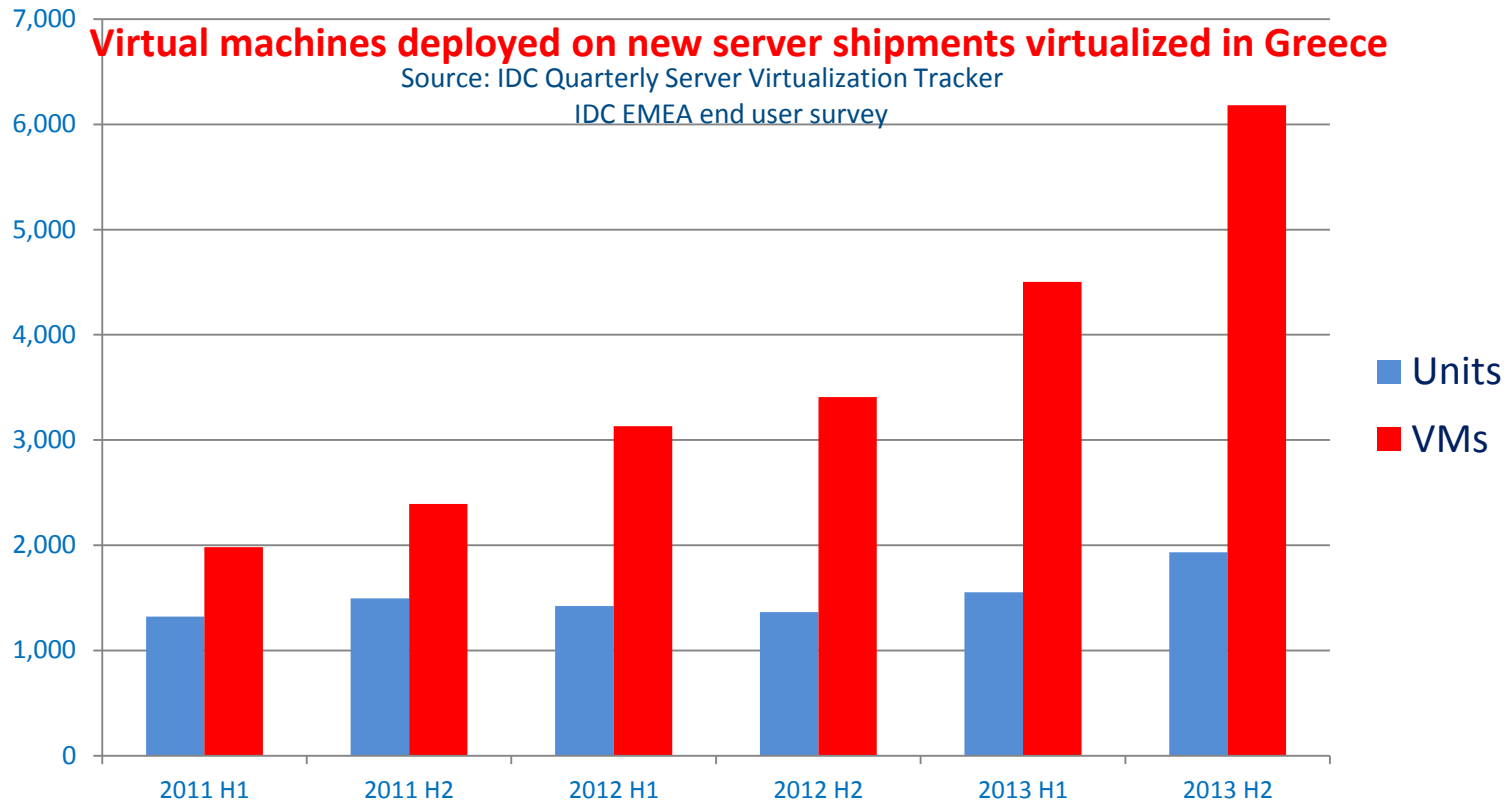


● A France ● B Germany ● C Greece ● D Israel ● E Italy ● F Netherlands ● G UK ● H Russia ● I Spain ● J Sweden ● K Turkey

Greek Virtualization rate still at 30%/year more or less in line with the other South Europe and Mediterranean Countries (Italy, Spain, Israel)

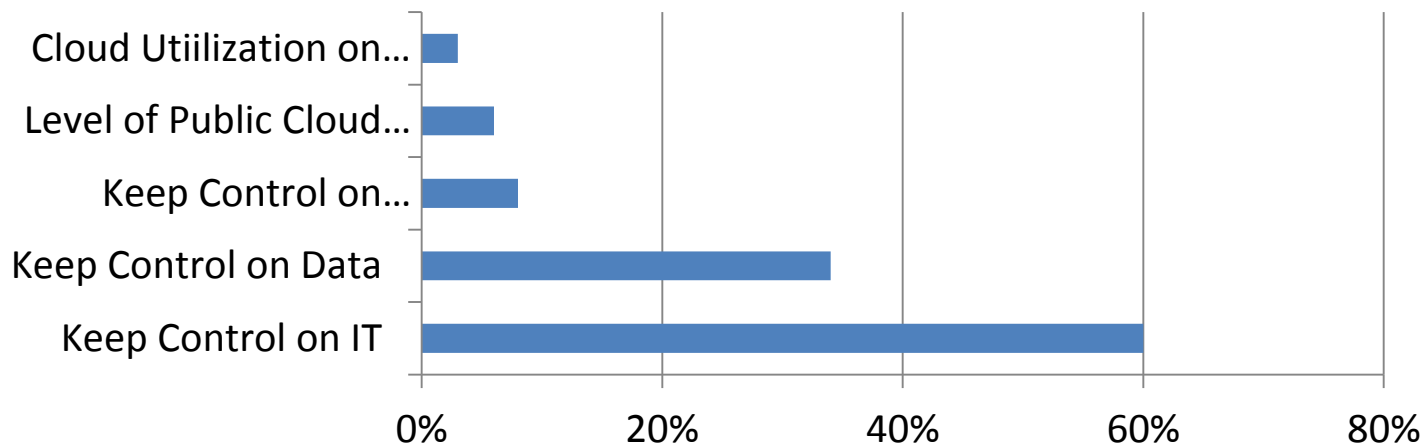
3,500 Server Virtualized in 2013

Cloud Business in Greece



- ▶ IT virtualization for Enterprise Customers are increasingly adopted by large organizations
- ▶ +22,000 Cloud VMs in operations since 2011, with a 2013 run rate of +10,000 new VMs/year (Mainly for enterprise private cloud purposes)
- ▶ Market Intelligence and IDC in Greece reveals that such solutions are gradually adopted also by small and medium enterprises (up to 40 Headcounts).
- ▶ Medium Term Cloud business Projections:
 - ❖ 36M€ by year 2018
 - ❖ of which only 7.5M€ for public Cloud

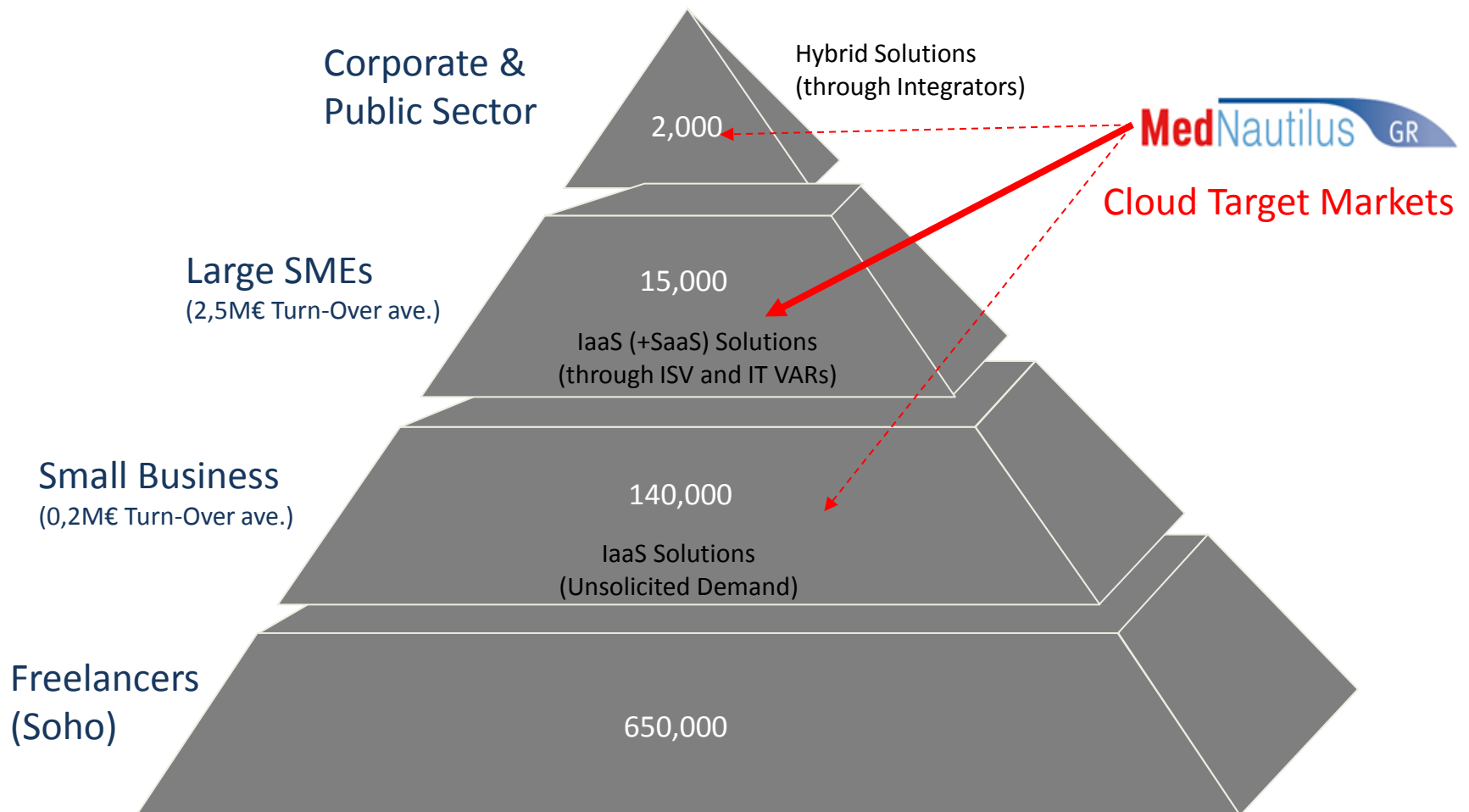
Private vs. Public Cloud Dilemma



**Large Corporate Customers struggling with Public (or even Hybrid) Cloud Solutions:
+15,000 private VMs deployed in Greece over the last 3 years while Public Cloud still
lagging behind.**

**Shouldn't Current Credit Crunch issues force Corporates and System Integrators
to go Public (or at least Virtual Hosted) faster ?**

MED Nautilus Greece: Cloud Target Market



Telcos Beyond Connectivity: Web and Cloud

M&A



Make



Off-the-shelf



	Tier1 US-based	European Players	Regional ICT operators
Preferred Entry Strategy	Big players M&A : <ul style="list-style-type: none"> Verizon – Terremark CenturyLink – Savvis Level3 – Global Crossing AT&T – USinternet 	Make: <ul style="list-style-type: none"> T-Systems (DSI-Dynamic Services for Infrastructure) TI (Nuvola Italiana) Interoute (CloudStore) 	Reselling: <ul style="list-style-type: none"> KPN (Parallels) Colt (Parallels) Belgacom (stakes in IT Start-ups)
Rational	to become ICT global players (enter IT market more quickly)	to enhance ICT offering (support to existing customers)	to address new target market (mainly SMBs opportunistically)
Leverage	<ul style="list-style-type: none"> Economies of scale 	<ul style="list-style-type: none"> Internal IT department Existing customer base 	<ul style="list-style-type: none"> Time to market

Telcos will retain +70% of the Public IaaS investments over the next 5 years

TI Cloud Solutions: Nuvola Italiana

TI Competitive Advantages in Cloud:

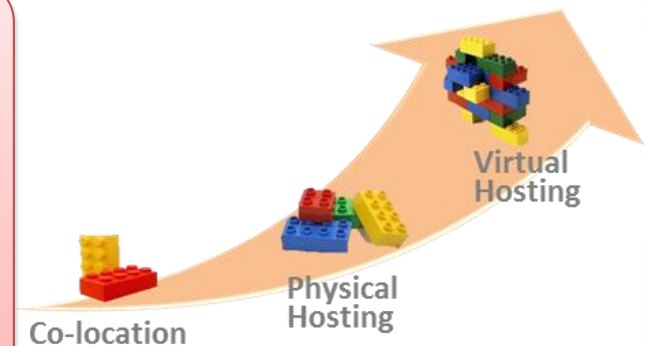
- Connectivity
- QoS
- Native Multitenant Environment
- Bundling
- Multi-Tiered Sales Channel

Cloud Offerings	Customer Segment		
	Large Enterprises	Medium-Sized Businesses	Small Businesses
SaaS	T-Systems Dynamic Services (pre-2007)	Orange IT Plan 2008	Telstra T-Suite 2008
PaaS		Telefónica Aplicaleca 2009	Deutsche Telekom T-Mobile 2009
IaaS	AT&T Synaptic Hosting 2008	BT Virtual Data Centre 2009	Verizon Computing-as-a-Service 2009
		Orange Flexible Computing 2010	



Source: TIS based on Booz Allen & Hamilton, Cap Gemini

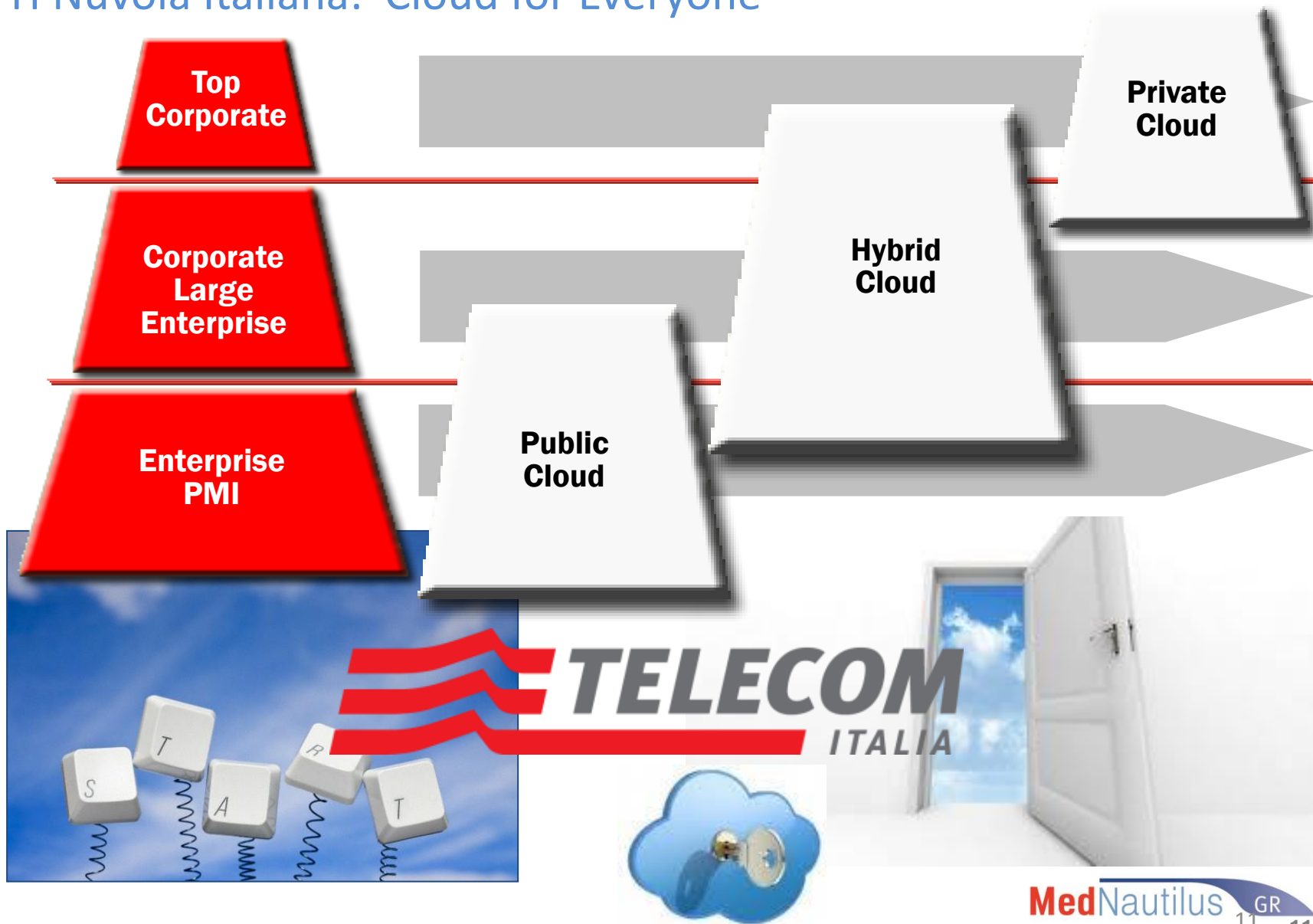
Nuvola Italiana - Service Portfolio



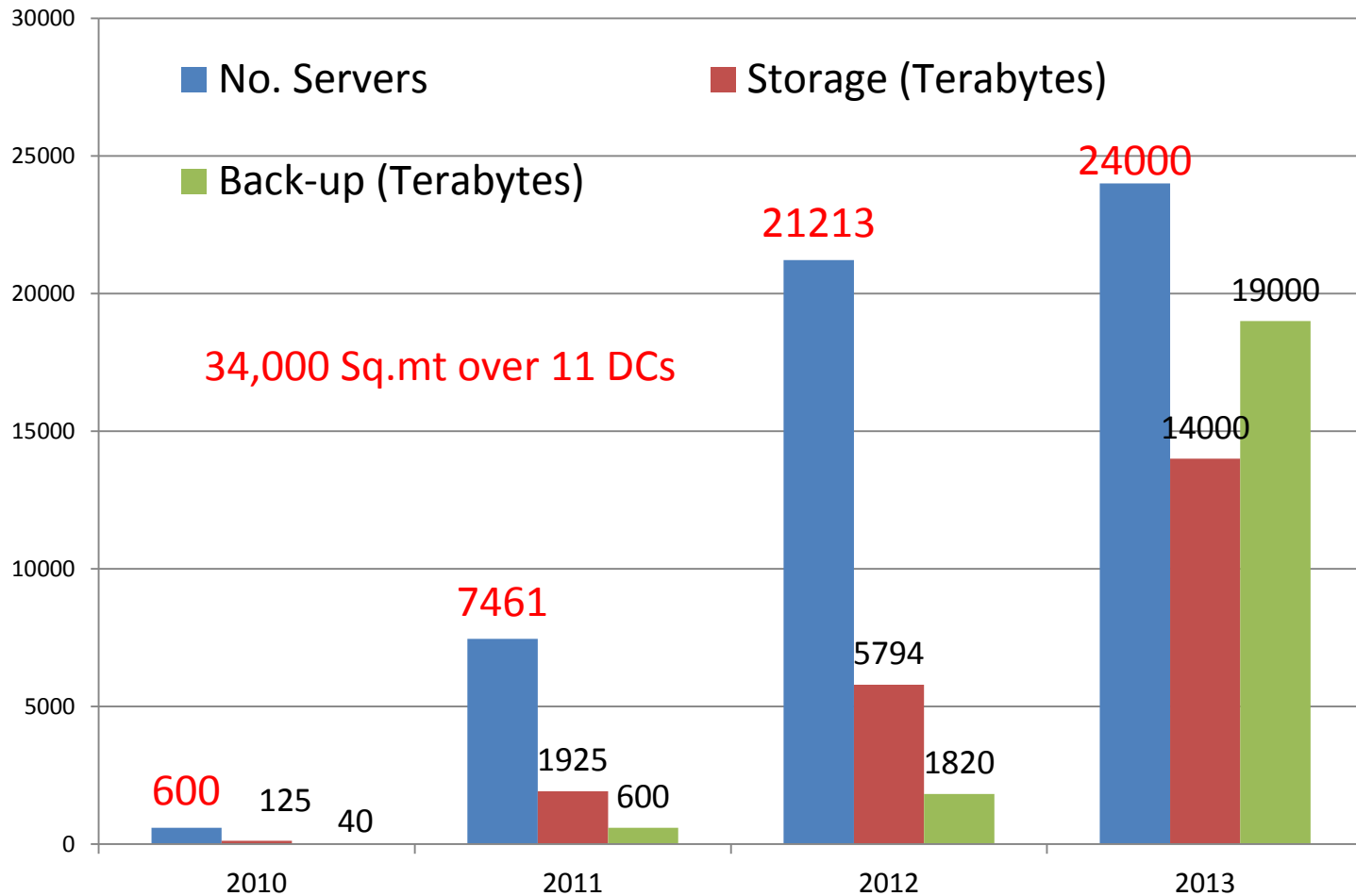
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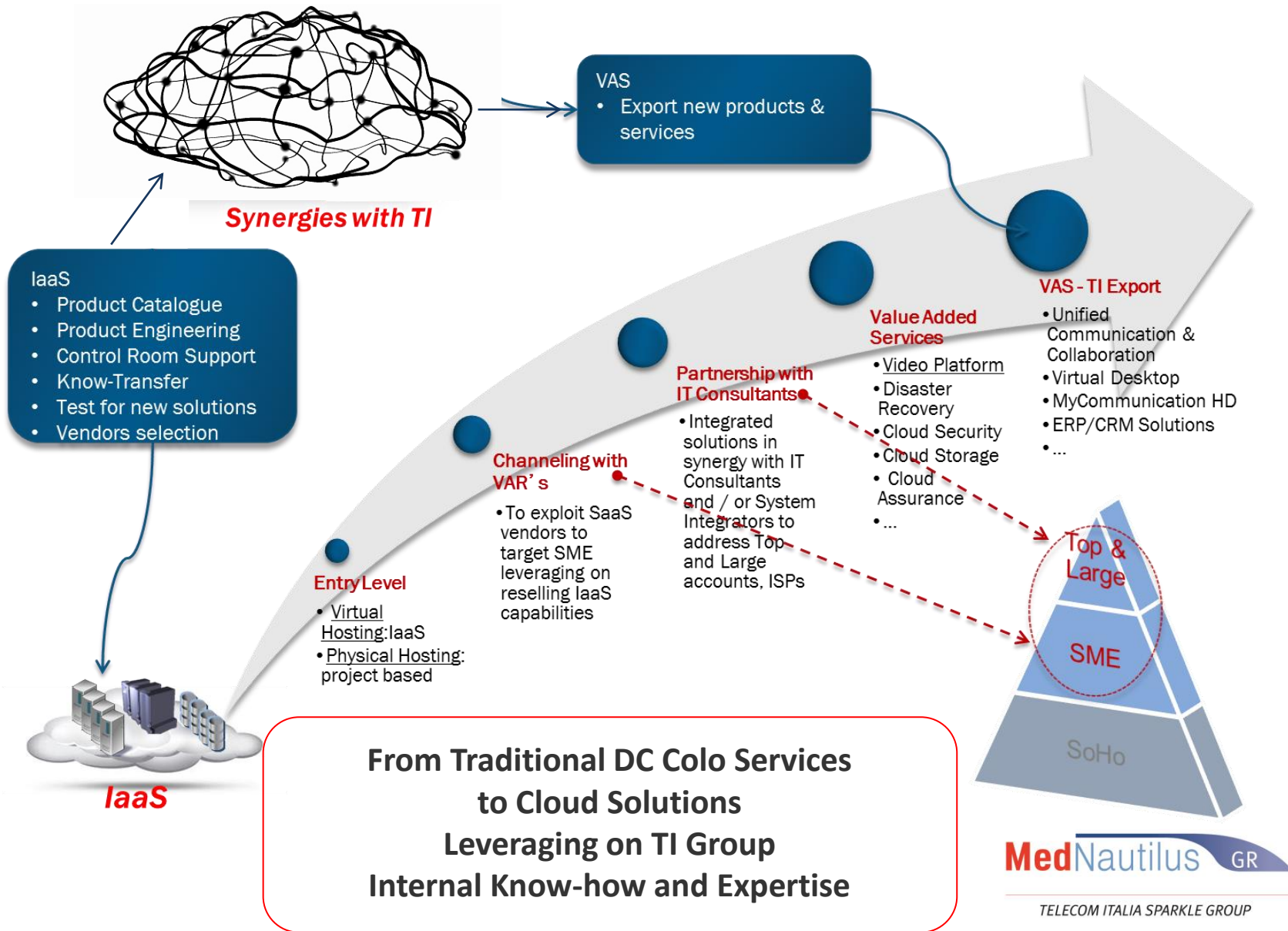
TI Nuvola Italiana: Cloud for Everyone



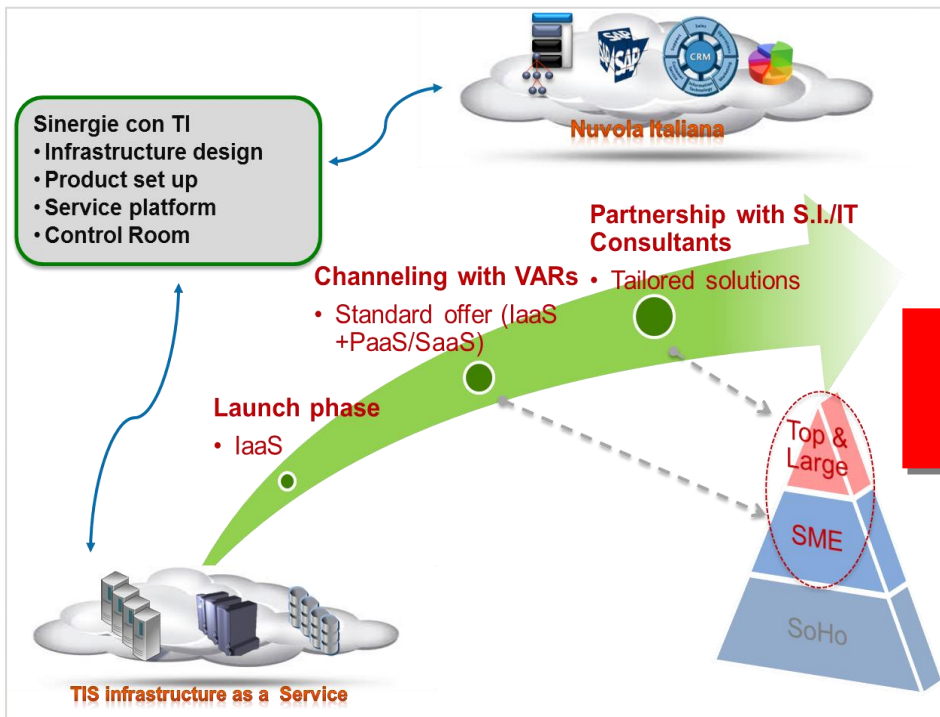
TI Nuvola Italiana: A True Success Story in Europe



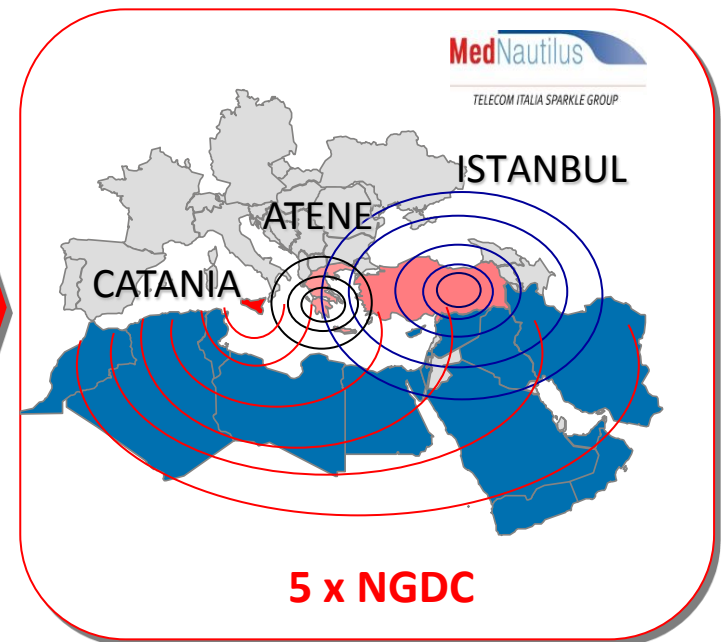
Med Nautilus Cloud Solutions: Exporting Nuvola IT



Med Nautilus Cloud Developments in Mediterranean Eastern and South Europe

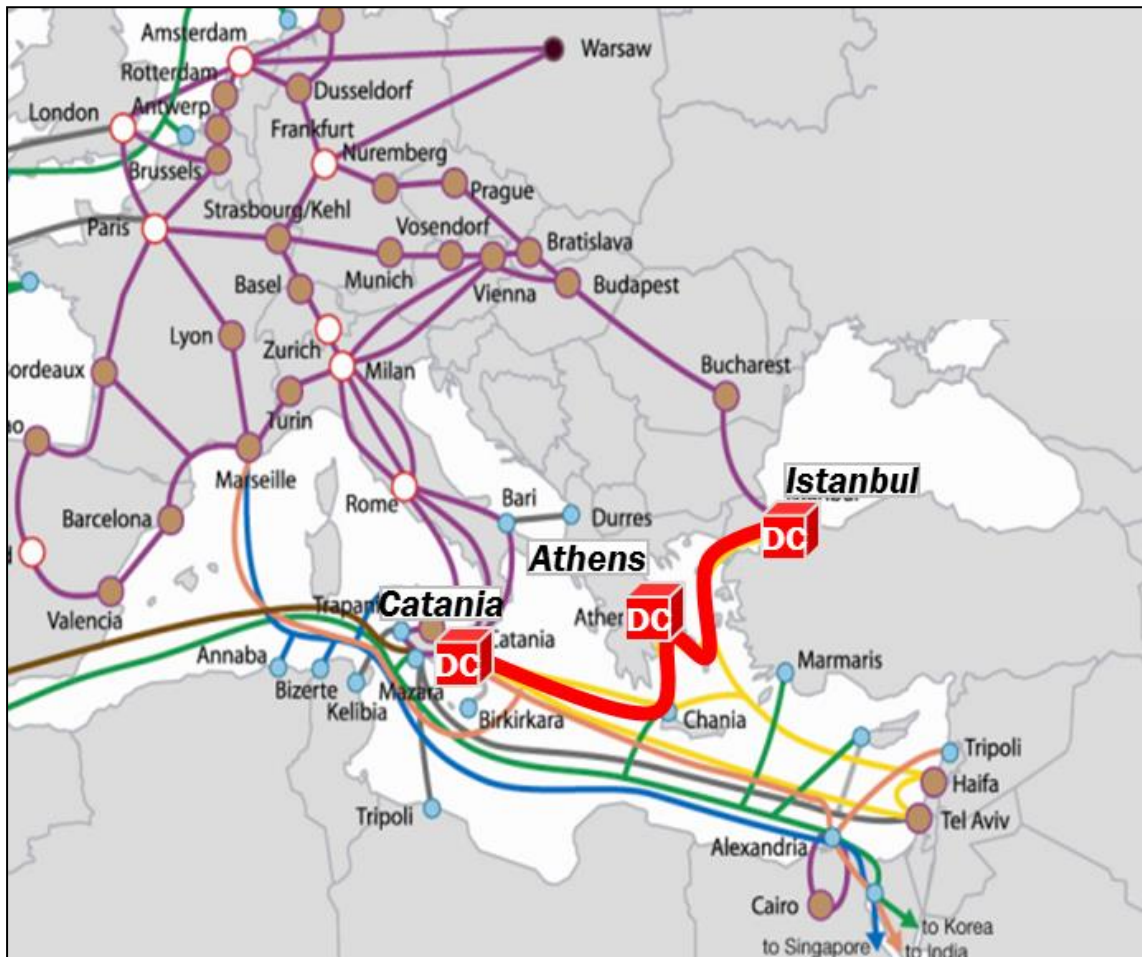


Starting point:
focus on the Mediterranean basin



Exporting «Nuvola Italiana»...
to the Mediterranean Basin and to the Balkans

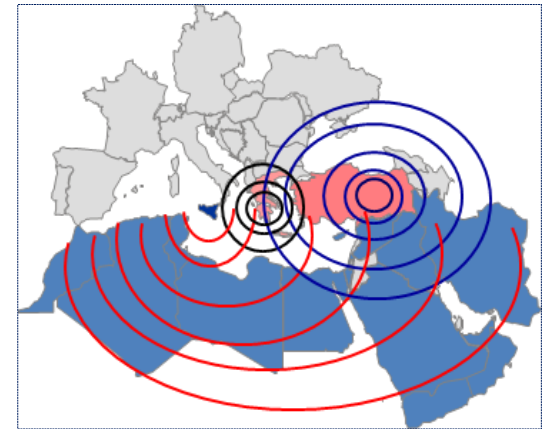
Med Nautilus Group: Cloud sitting Inside the TIS Global Network



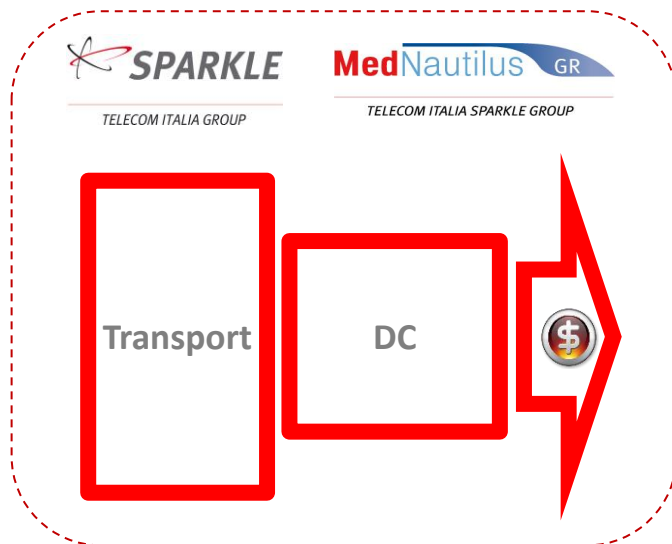
- **Unique Mediterranean, Middle East and Balkans Connectivity for Local Telcos, Mobile Operators, ISP, Content Providers and Enterprises/Corporate Customers**
- **Mediterranean (Balkans) Cloud Networking x Domestic and Int'l Disaster Recovery purposes**

Med Nautilus Cloud Business Model Evolution

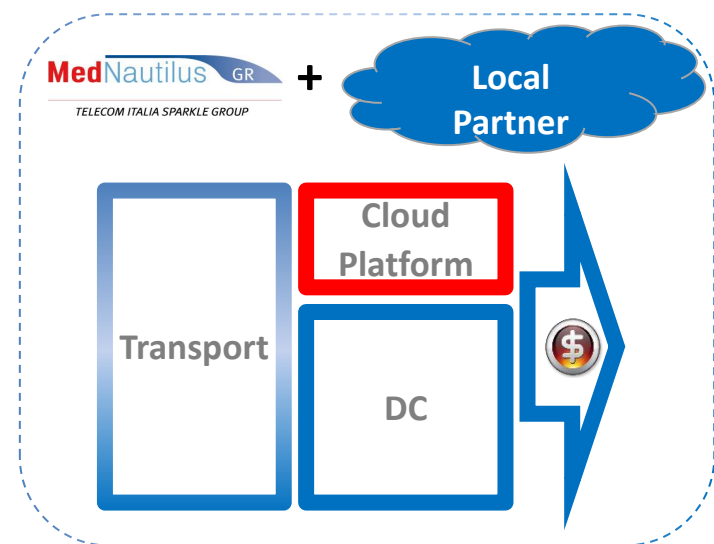
TIS/MN Group is now looking for local partners in order to enlarge service offering in its existing POPs and to expand its own operations in Greece and in the Balkans region



Business Model Evolution



From a «make option» ...



... to a «cooperative» approach

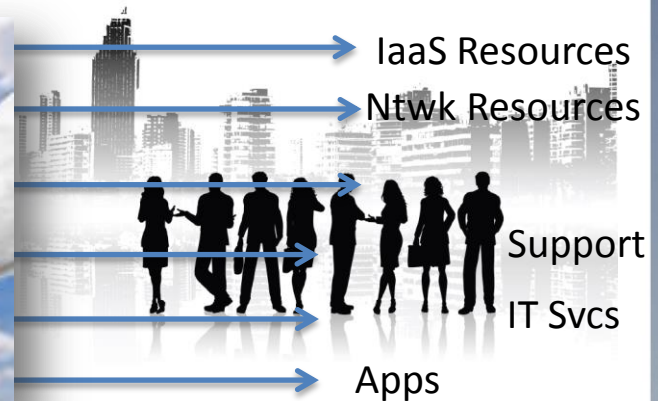
Med Nautilus Greece Partnership Program



Joint Customer Solutions for SMBs

Telcos, Integrators, ISV, IT VARs

SMBs



MED Nautilus Greece: Data Center Facilities

**Unsurpassed IP
Market
Leadership**

**50% Market Share
Global IP
in Greece**



Koropi, Attika

**Metamorfosi, Attika
Next Generation DC**

Chania, Crete Island



**8000
Sq.mt.**



Unsurpassed DC Market Leadership:

**40% Market Share
Colocation Business in Greece**

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CLOUD Infrastructure

BEST IN CLASS TECHNOLOGIES & VENDORS

HYPERVISOR

vmware®

IT & NETWORKING



STORAGE



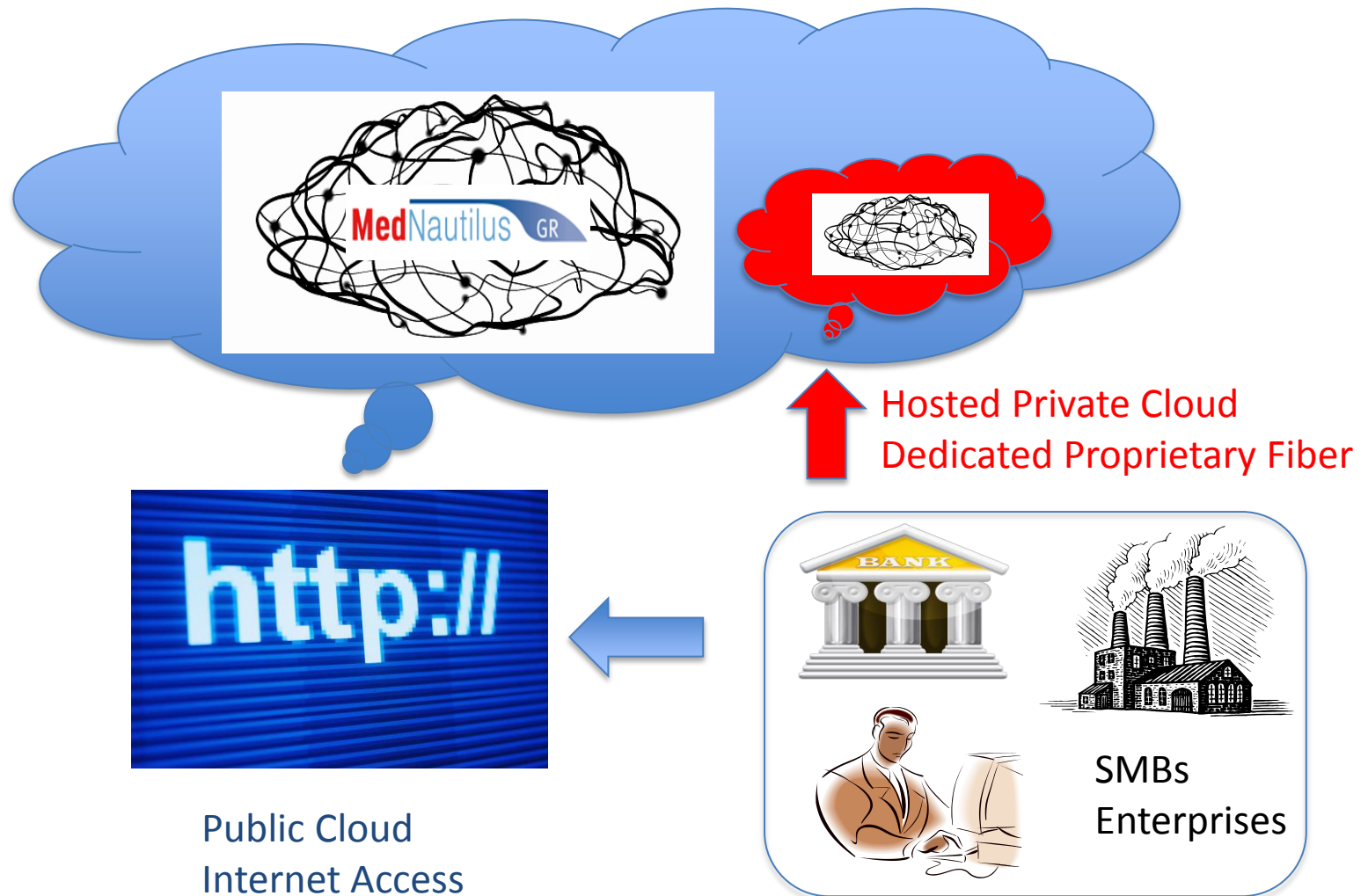
BACK UP



SECURITY



MNG Virtual Private Hosted and Public Cloud Offering



Med Nautilus Cloud Distinctive Values



- Local Data Storage in Greece (Hosted Private Cloud in Athens as well)
- State of Art Security (Local Data)
- Cloud Inside Domestic and International Network
 - ❑ MNG → 1st Alternative Global IP Provider in Greece
 - ❑ Greece on-net over TIS Global Backbone in the Med Basin through dual MN Submarine Cable and alternative Balkans route
- Network of Data Centers in the Med Basin for Global Disaster Recovery
- «Nuvola Italiana» Global Program
- Tier-1 Cloud Infrastructure at the benefit of SMBs

Last Food for Thoughts...

Windows XP end of support means big decisions for IT

1 of 6



- 3 year IRR to move from XP to W8
- Approx. 700€ to stay with XP machines (5 x W7 Maintenance)
- 60% of XP users expected to stay

Will the end of XP drive a New Cloud Momentum ?

Let's Cloud with us !



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The Greek Cloud with the Network Inside



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