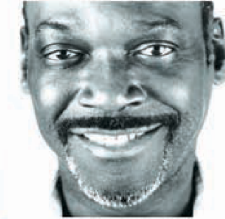
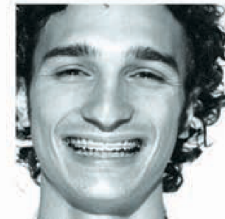


AGENCY FOR THE PUBLIC
SERVICES REFORM



CLOUD COMPUTING
THE PORTUGUESE EXPERIENCE



AGENCY FOR
THE PUBLIC
SERVICES REFORM
PRESIDENCY OF THE COUNCIL OF MINISTERS

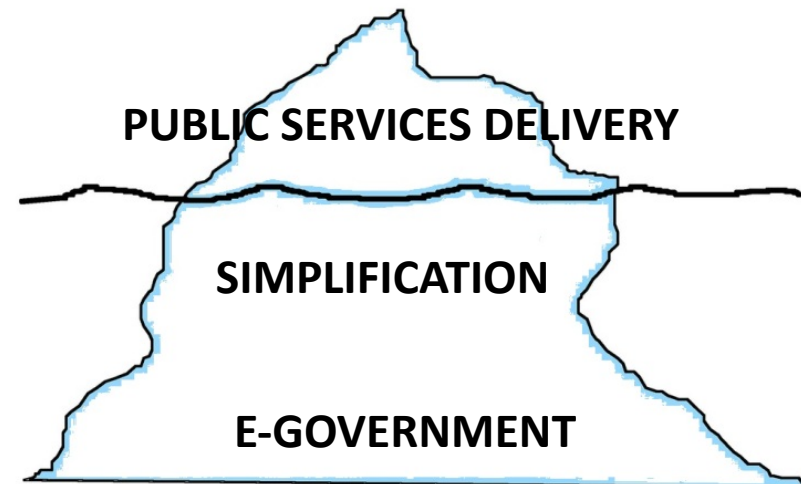
PAULO NEVES
PRESIDENT OF THE BOARD





AGENCY FOR
THE PUBLIC
SERVICES REFORM
PRESIDENCY OF THE COUNCIL OF MINISTERS

UNDER THE PRESIDENCY OF THE COUNCIL OF MINISTERS, AMA IS THE PUBLIC BODY RESPONSIBLE FOR THE NATIONAL PUBLIC SERVICES DELIVERY STRATEGY, FOR ADMINISTRATIVE SIMPLIFICATION AND FOR E-GOVERNMENT IN PORTUGAL.



THE **FINANCIAL AND ECONOMIC CRISIS** IS A PERMANENT PART OF THE EQUATION THAT EVERY ORGANIZATION HAS TO DO NOWADAYS.

NAMELY IN **PORTUGAL...** NAMELY IN THE **PUBLIC SECTOR...**





CUT! CUT! CUT!!!

THAT'S ONE OF THE OPTIONS



BUT THE **BEST OPTION** IS, OBVIOUSLY, TO LEARN WITH THE CRISIS AND EMBRACE SOME STRUCTURAL REFORMS.



“THE CRISIS AS AN OPPORTUNITY”

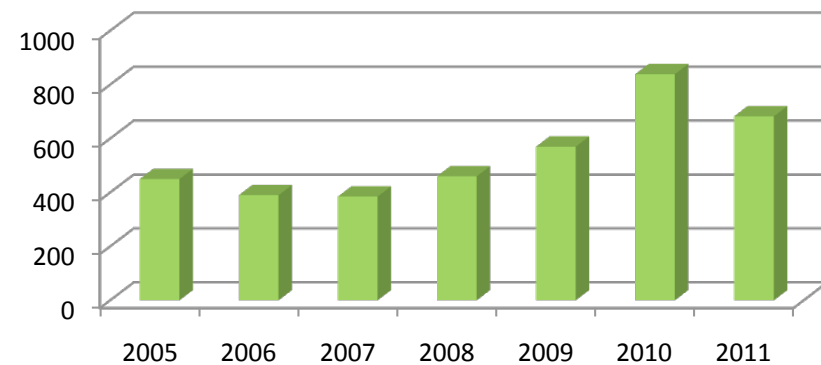


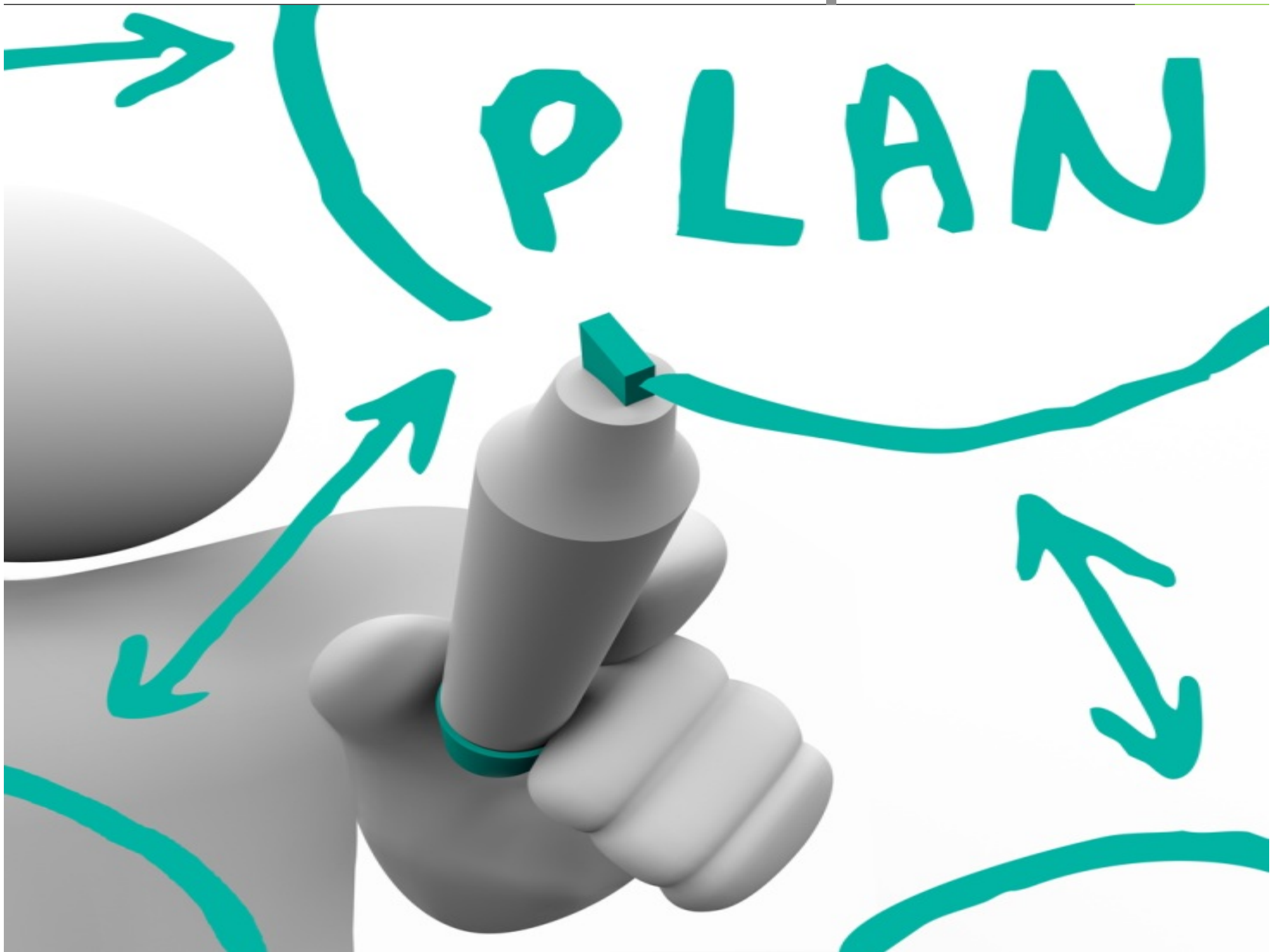
PREVIOUSLY...

PUBLIC ORGANIZATIONS MAY WITHOUT RESTRICTIONS:

- ACQUIRE ITS OWN INFORMATION SYSTEMS
- CONTRACT AUTONOMOUSLY ITS OWN COMMUNICATIONS
- CREATE THE IT DEPARTMENTS “AS NEEDED”

**PUBLIC ADMINISTRATION ICT BUDGET
(M EUROS)**





Portuguese eGov Action Plan

**CENTRALIZATION OF IT FUNCTION IN EACH
MINISTRY**

*ESTABLISH A REFERENCE
INFORMATION SYSTEMS'*

**ARCHITECTURE
RATIONALIZATION OF DATA CENTERS**

CREATE THE STATE'S SOFTWARE CATALOGUE

MANDATORY USE OF INTEROPERABILITY
SERVICES

**CLOUD COMPUTING IN PUBLIC
ADMINISTRATION**

*IMPLEMENT AN OPEN ADMINISTRATION
PROGRAM*

BINDING ICT PROJECTS AND
EXPENDITURE

MANDATORY ELECTRONIC SERVICES ON SINGLE
CONTACT POINTS

PROMOTE THE USE OF OPEN SOFTWARE

25 CROSS-CUTTING MEASURES OF RATIONALIZATION AND CHANGE MANAGEMENT
IN THE PUBLIC SECTOR.

AFTER IMPLEMENTATION, THE ESTIMATED **SAVINGS** ARE HUGE



CLOUD COMPUTING IN THE EGOV STRATEGY



MEASURE 18

CREATE CLOUD COMPUTING GUIDELINES FOR THE PUBLIC SECTOR, INCLUDING BROKER MECHANISMS BETWEEN EXISTING CLOUD INFRASTRUCTURE AND THE MARKET

MEASURE 8

DEFINE AND IMPLEMENT A PROGRAM TO REDUCE THE NUMBER OF DATA CENTERS FROM CENTRAL GOVERNMENT

MY FIRST OFFICIAL EXPERIENCE WITH CLOUD COMPUTING?





Alert



**DO YOU
FEEL
LUCKY....
PUNK?**



**WELL....
DO YA?**



**CAN I
HAVE YOUR
ATTENTION
PLEASE!**

CLOUD IS A BUZZWORD



CLOUD AS A POSSIBLE ALTERNATIVE IN A
DATACENTERS RATIONALIZATION STRATEGY





THE PROBLEM

- EACH PUBLIC BODY NORMALLY HAS A TECHNICAL ROOM OR A DATACENTER FOR ITS OWN USE. SINERGIES ARE LOST.



CLOUD COMPUTING AS PART OF THE SOLUTION



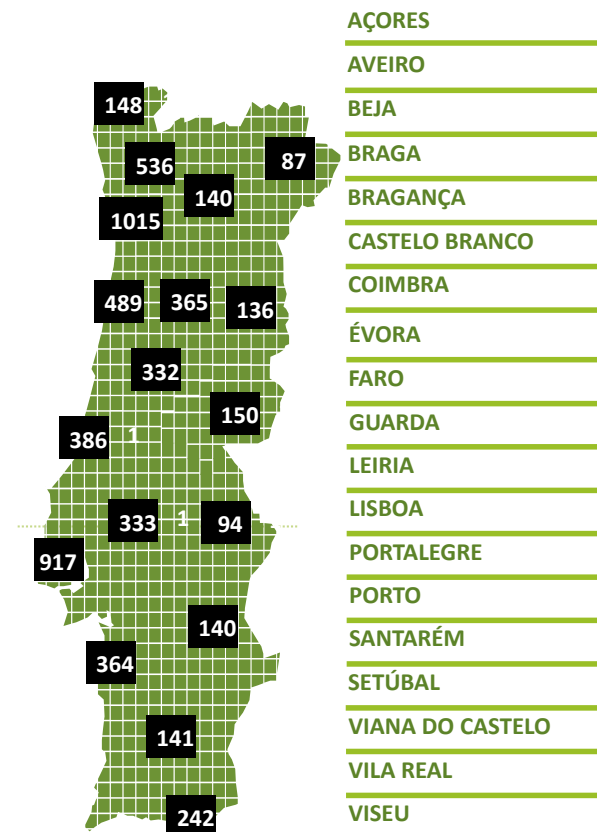
A **MAJOR SURVEY** WAS DEVELOPED, INVOLVING MOST OF THE MINISTERIES, TO IDENTIFY THE NUMBER OF **TECHNICAL ROOMS** AND **DATACENTERS** IN THE PORTUGUESE CENTRAL PUBLIC ADMINISTRATION.

THE RESULTS ARE “**IMPRESSIVE**” ...

TECHNICAL ROOMS ⁽¹⁾

Nº Technical Rooms /Big Datacenters		Total area (m ²)	PUE Médio
Tr	6050	13093	2,6
BDC	15		

GEOGRAPHICAL DISTRIBUTION

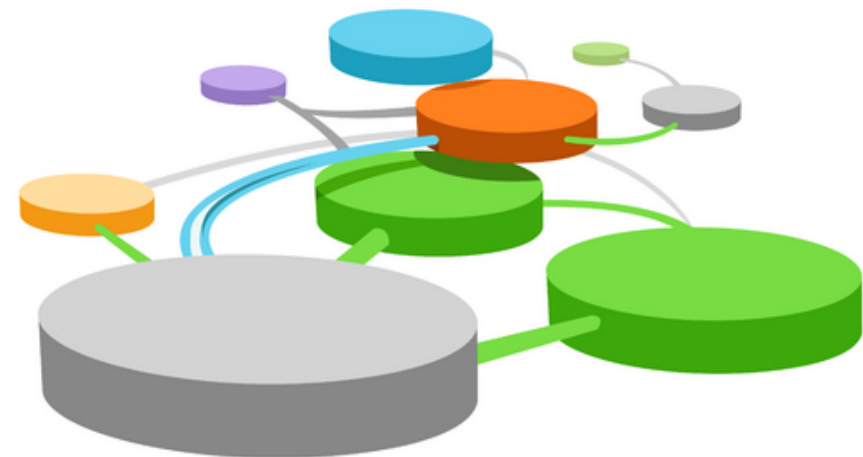


⁽¹⁾ Excluding Technical Rooms used within external services of server hosting / housing.



SCENARIOS - GAINS TO BE ACHIEVED

- SOFTWARE AS A SERVICE
- SERVER VIRTUALIZATION
- CONSOLIDATION OF DATA STORAGE
- DECREASED ENERGY CONSUMPTION
- REDUCING FOOTPRINT
- DECREASE IN DATA COMMUNICATION LINKS
- REDUCTION OF HUMAN RESOURCES FOR MANAGEMENT AND MONITORING THE INFRASTRUCTURE



THE PORTUGUESE CLOUD MATRIX

VARIABLES:

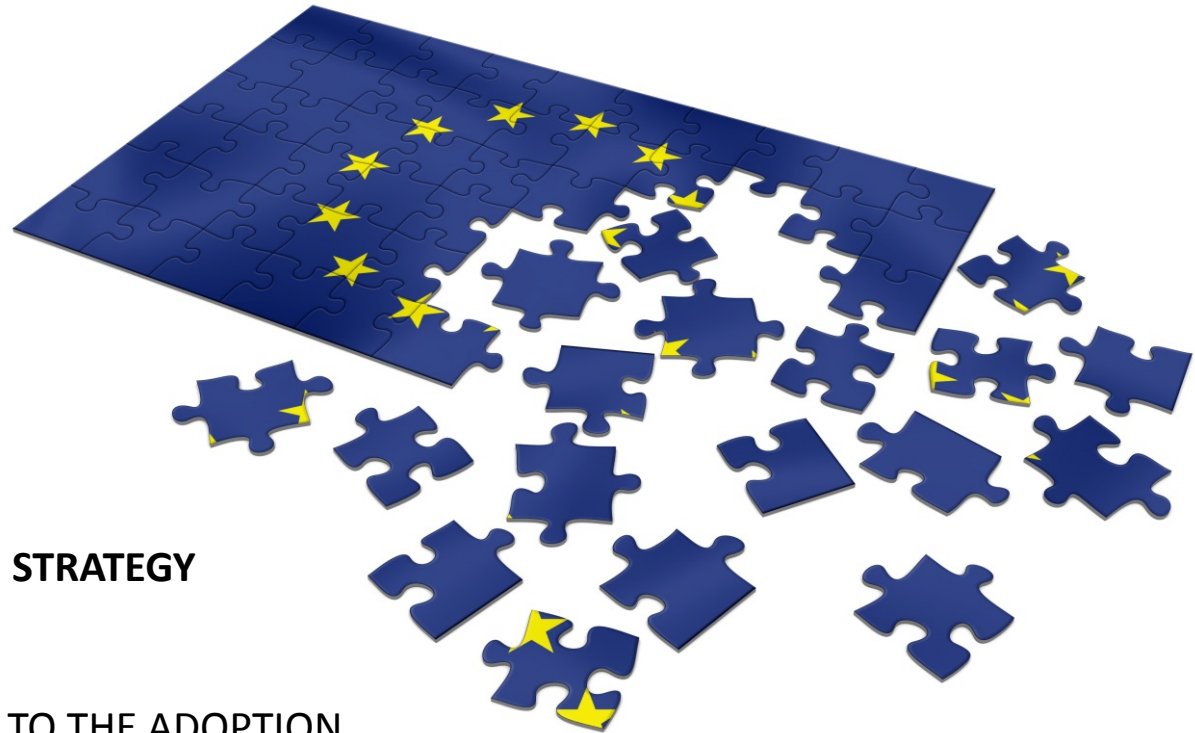
1. CLASSIFICATION OF INFORMATION SECURITY
2. FUNCTIONALITY IS A "COMMODITY" (eg EMAIL, fileshare, EID, ...)
3. WIDESPREAD USE OF THE FUNCTIONALITY IN THE PUBLIC ADMINISTRATION UNIVERSE (e.g. IAP,, GeRFiP, ..)
4. TECHNICAL ISSUES (e.g. VIRTUAL APPLICATIONS, ...)

Eixos / Cenários	Cenário 0 - Datacenter nas instalações do organismo	Cenário 1 - Datacenter da AP partilhado por vários organismos com requisitos similares (e.g., sistema militar)	Cenário 2 - Housing de equipamentos da AP	Cenário 3 - IaaS dedicado	Cenário 3 - IaaS partilhado	Cenário 3 - SaaS dedicado	Cenário 3 - SaaS partilhado
Funcionalidade(s) é uma Commodity							
Email	NA	NA	NA	NA	A	A	P
Intranet	NA	NA	ND	ND	ND	A	P
Portais	NA	NA	ND	A	A	A	P
ciDM	ND	ND	ND	A	A	A	P
Outros	ND	ND	ND	A	A	A	P
Funcionalidade(s) é de uso generalizado na AP							
Autenticação Eletrónica	NA	NA	NA	NA	NA	A	P
Gestão Financeira	NA	NA	ND	ND	ND	A	P
Gestão de Recursos Humanos	NA	NA	ND	ND	ND	A	P
Integração de Sistemas	ND	ND	ND	A	A	A	P
Outros	ND	ND	ND	A	A	A	P
Tratamento de Informação							
Matérias Classificadas com o grau Confidencial	A	P	ND	ND*	NA	ND*	NA
Dados Pessoais	A	A	A	P	A	P	A
Outros Dados Sensíveis	A	A	A	P	A	P	A
Não classificado	NA	NA	ND	A	A	A	P
(*) Desde que garantida a territorialidade nacional							
SLA para aprovisionamento de mais servidores / serviço							
< 2 horas	NA	NA	NA	NA	A	A	P
< 12 horas	NA	NA	NA	NA	A	A	P
< 24 horas	NA	NA	NA	NA	A	A	P
< 2 dias	NA	NA	NA	NA	A	A	P
< 1 semana	NA	NA	NA	A	A	A	P
< 1 mês	NA	NA	NA	A	A	A	P
>= 1 mês	A	A	A	A	A	A	P
Caraterísticas Técnicas							
A operar em Máquina Virtual	NA	NA	NA	ND	A	A	P
Passível de operar em Máquina Virtual sem desenvolvimentos de software	NA	NA	NA	ND	A	A	P
Passível de operar em Máquina Virtual (futuramente) com desenvolvimento de software	NA	NA	ND	A	A	A	A
Não Passível de operar em Máquina Virtual (atual ou futuramente)	NA	ND	A	NA	NA	NA	NA



THE EUROPEAN EXPERIENCE AND THE PORTUGUESE INVOLVEMENT





EUROPEAN CLOUD COMPUTING STRATEGY LAUNCHED IN SEPTEMBER 2012

- OVERCOMING THE BARRIERS TO THE ADOPTION OF CLOUD SERVICES
- UNIFORMITY OF STANDARDS
- CONTRACTUAL TERMS AND SAFE AND FAIR CONDITIONS
- EUROPEAN CLOUD PARTNERSHIP
 - STEERING COMMITTEE
 - CLOUD4EUROPE - PRE-COMMERCIAL PROCUREMENT

CLOUD 4 EUROPE (C4E)

EUROPEAN CONSORTIUM



GOAL

JOINT PRE-COMMERCIAL PROCUREMENT PROCESS FOR PILOTING THE ACQUISITION OF CLOUD SERVICES FOR THE DEVELOPMENT OF EUROPEAN STANDARDS BY THE END OF 2015

PARTNERS

PUBLIC AUTHORITIES, RESEARCH INSTITUTES AND UNIVERSITIES. A TOTAL OF 11 COUNTRIES (AUSTRIA, BELGIUM, ESTONIA, FINLAND, HOLLAND, ITALY, **PORTUGAL**, UNITED KINGDOM AND TURKEY)



EUROPE – LATIN AMERICA CLOUD COMPUTING CONFERENCE/WORKSHOP

LISBON, OCTOBER 2014

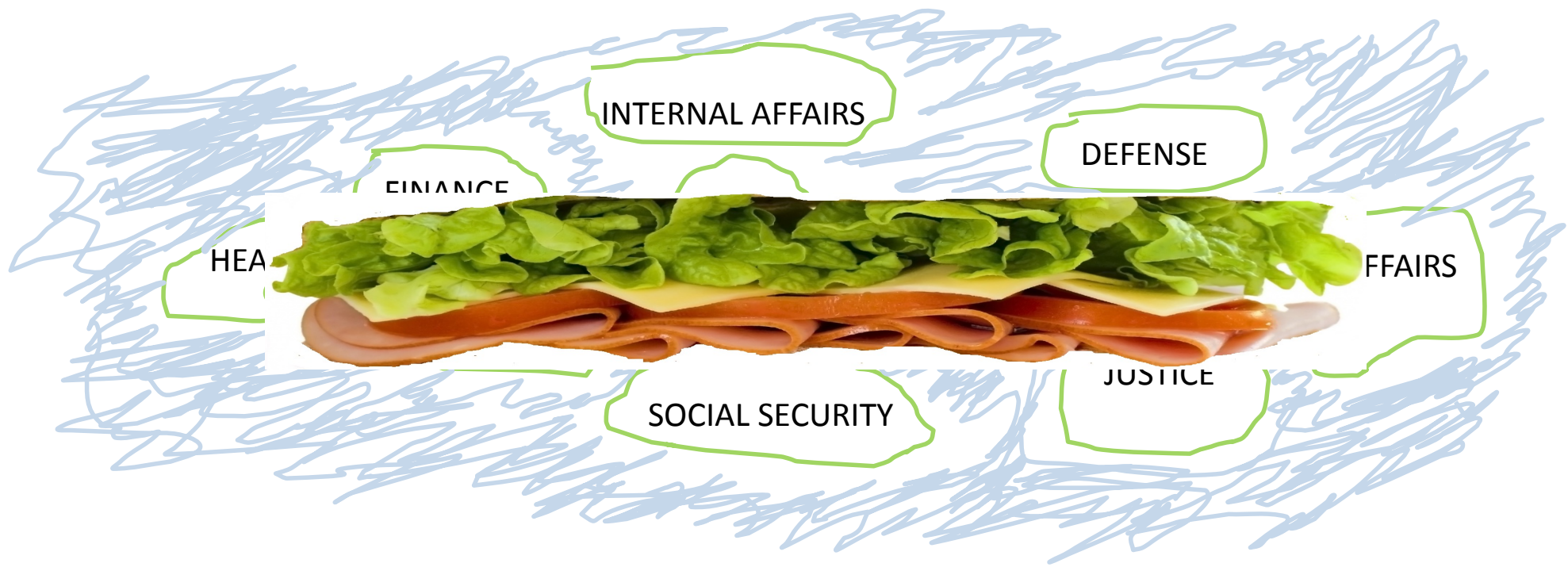
TWO FINAL NOTES





CLOUD IS NOT THE SOLUTION FOR ALL OF OUR PROBLEMS.

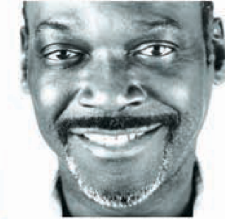
WITHOUT FUNDAMENTALISMS, AND WITH A SMART APPROACH, WE CAN BOOST THE USE OF CLOUD SERVICES



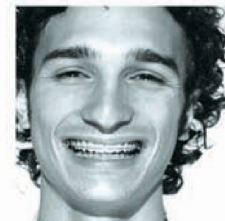
Sandwich Effect

Bottom-Up & Top Down Approach

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:: THANK YOU! ::



ama

AGENCY FOR
THE PUBLIC
SERVICES REFORM
PRESIDENCY OF THE COUNCIL OF MINISTERS

PAULO NEVES
PAULO.NEVES@AMA.PT

