

security and privacy developments and strategies

CIO der Bundesregierung
Prof. Dr. Reinhard Posch

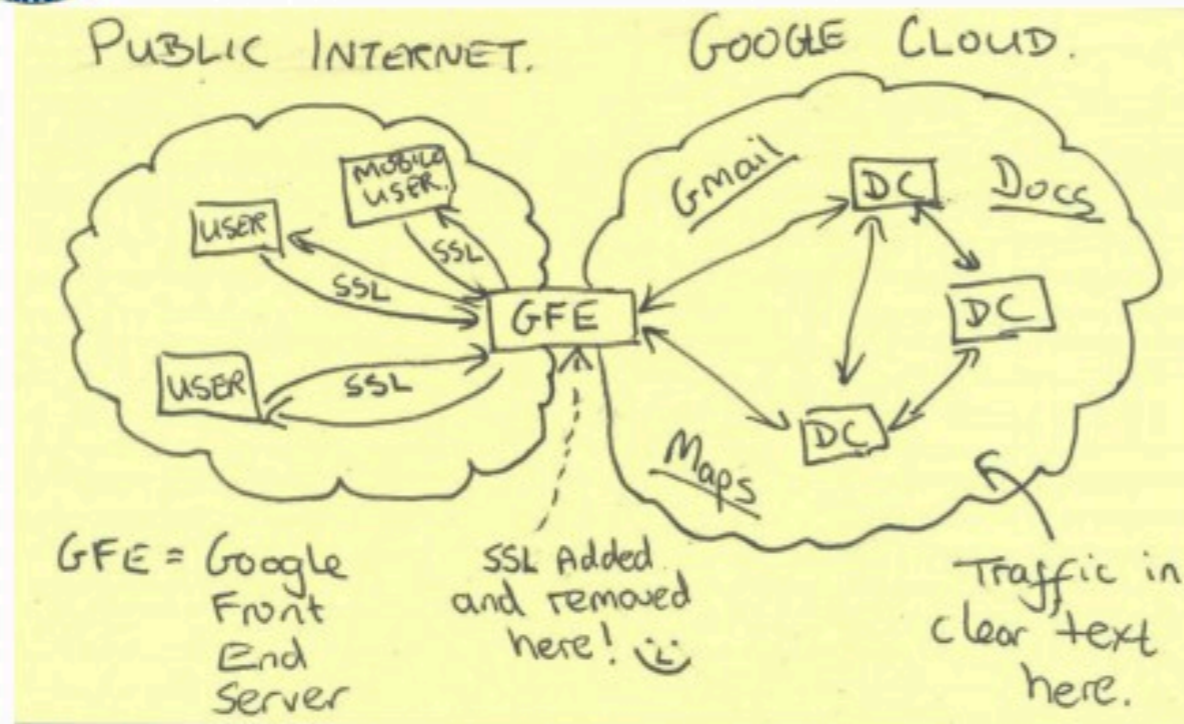


DATA PROTECTION – CLOUD MOBILE DEVICES

TOP SECRET//SI//NOFORN



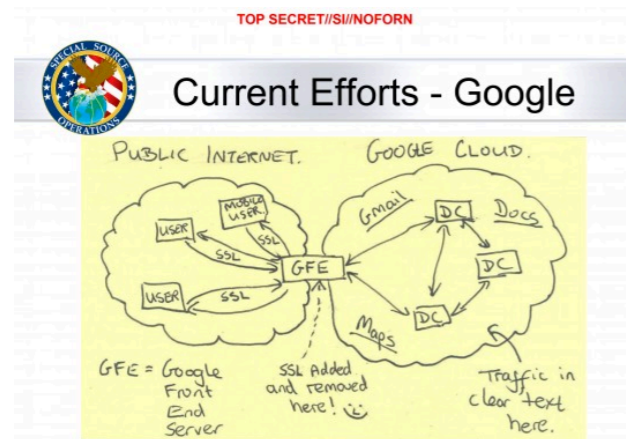
Current Efforts - Google



THE RIGHT TO BE FORGOTTEN ?
DATA PROTECTION BY DESIGN ?

WHAT DOES THIS MEAN IN REALITY??

DATA PROTECTION – CLOUD MOBILE DEVICES



The biggest concern, NSA officials say, is that foreign individuals or groups targeted for surveillance may now switch to more secure communication methods.

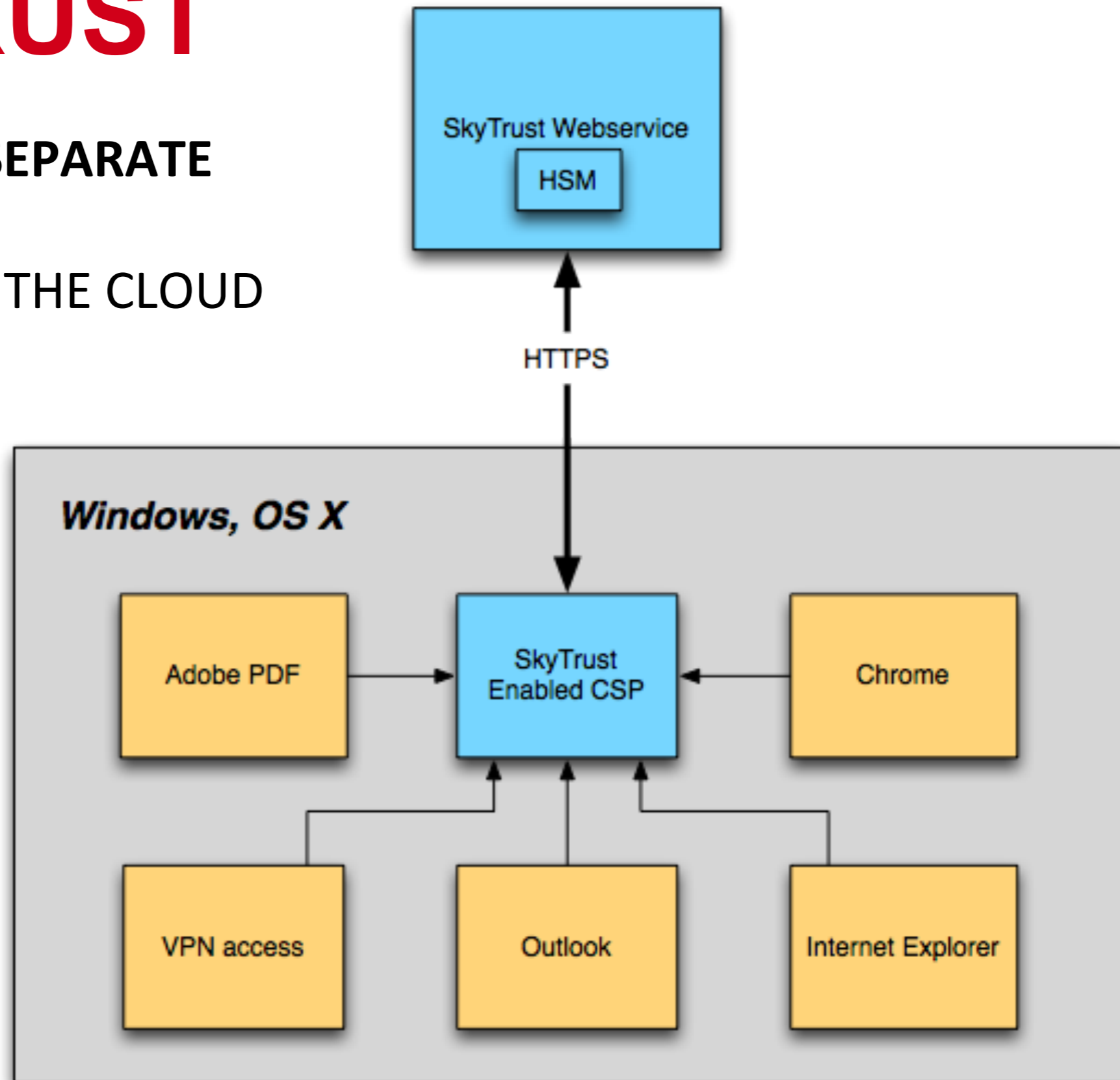
THERE IS MEED FOR NEW APPROACHES

- ENABLING TRUST
- SUPPORTING MOBILITY
- SUSTAINING USABILITY

SKYTRUST

CLOUD = NEED TO SEPARATE

- SECURITY
- PROCESSING IN THE CLOUD



Document collaboration – the challenge to come

 Office 365



 Live Documents
Office for the Internet Generation



**THERE HAS BEEN A SUBSTANTIAL
CHANGE OVER THE LAST YEARS**

CONTINUITY?

LOCK IN?

STANDARDS?

IMPACT ON OTHER SYSTEMS?

ALTERNATIVES?



Microsoft 'must release' data held on Dublin server

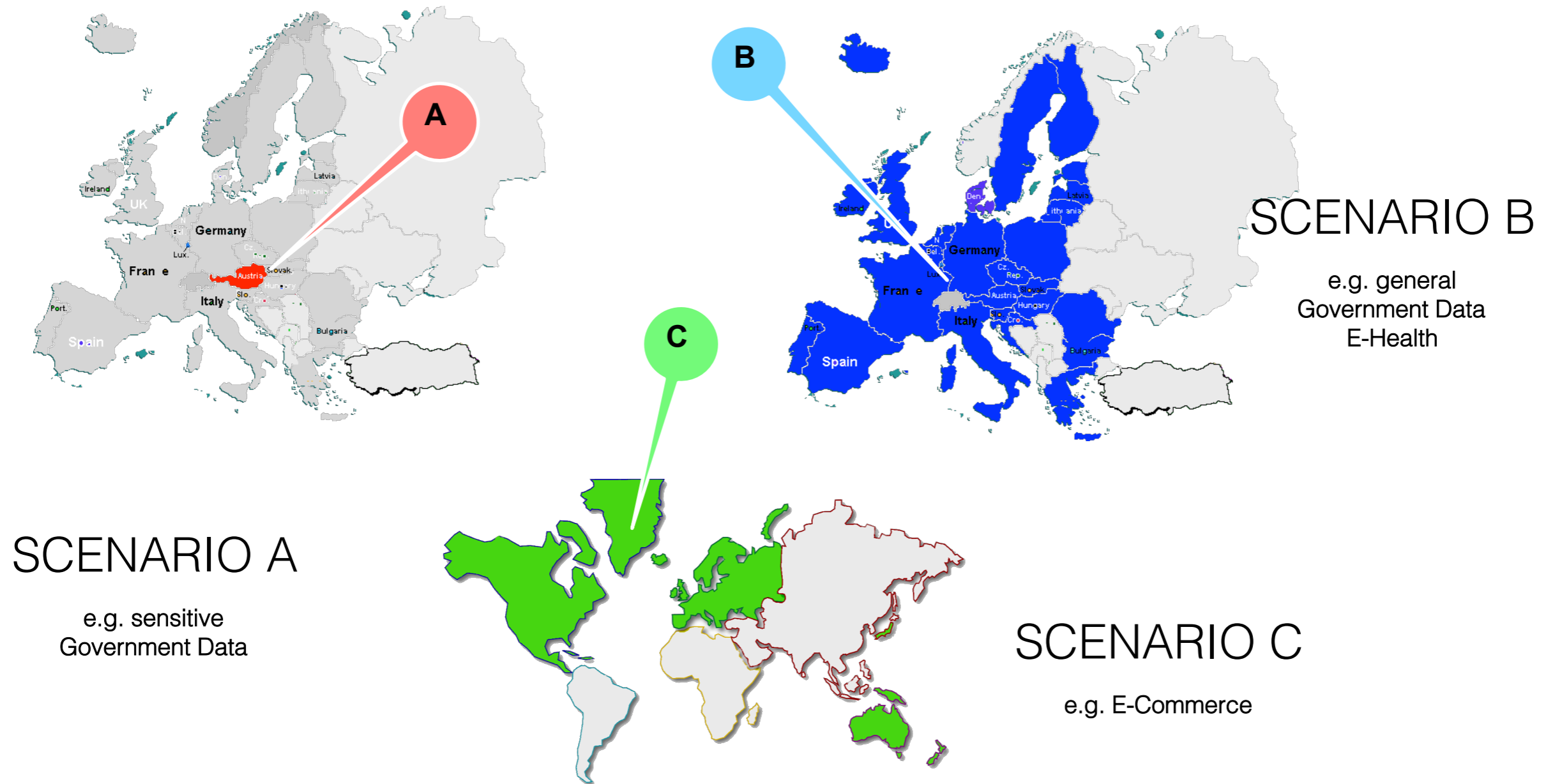
BBC NEWS
TECHNOLOGY

29 April 2014 Last updated at 09:18 GMT



Internet companies will have to hand over users' data even if it is held abroad, a judge has ruled

Jurisdiction awareness



**PROVIDERS LIABLE TO DELIVER CORRECT INFORMATION
AS WHERE COMMUNICATION LEFT TRACES**

ECP und C4E

A European CLOUD FIRST strategy could ensure that government requirements are agreed met and that procurement criteria are defined

Such strategy only can be fully effective, if European instruments follow „CLOUD FIRST“: ESF, ERF, CEF, .. and others should bind funding to Cloud First in a way that procurement will happen with all criteria and parameters or even better.

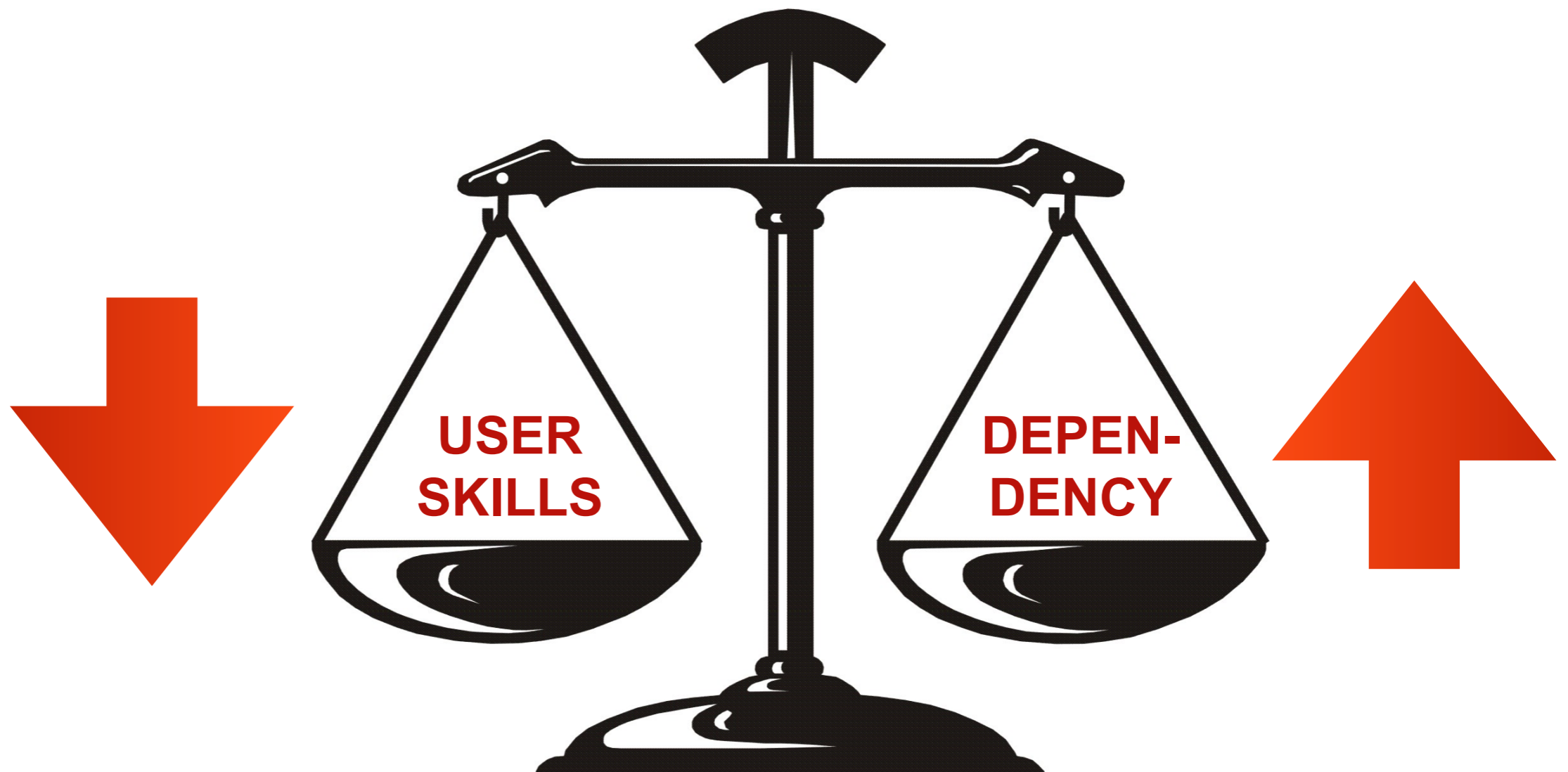
To ensure sustainability, clear criteria and policy also needs to be referenced in Council and the tasks of the maintenance of Cloud First Criteria needs to get institutionalized.

CLOUD PUSH FOR PUBLIC AND PRIVATE

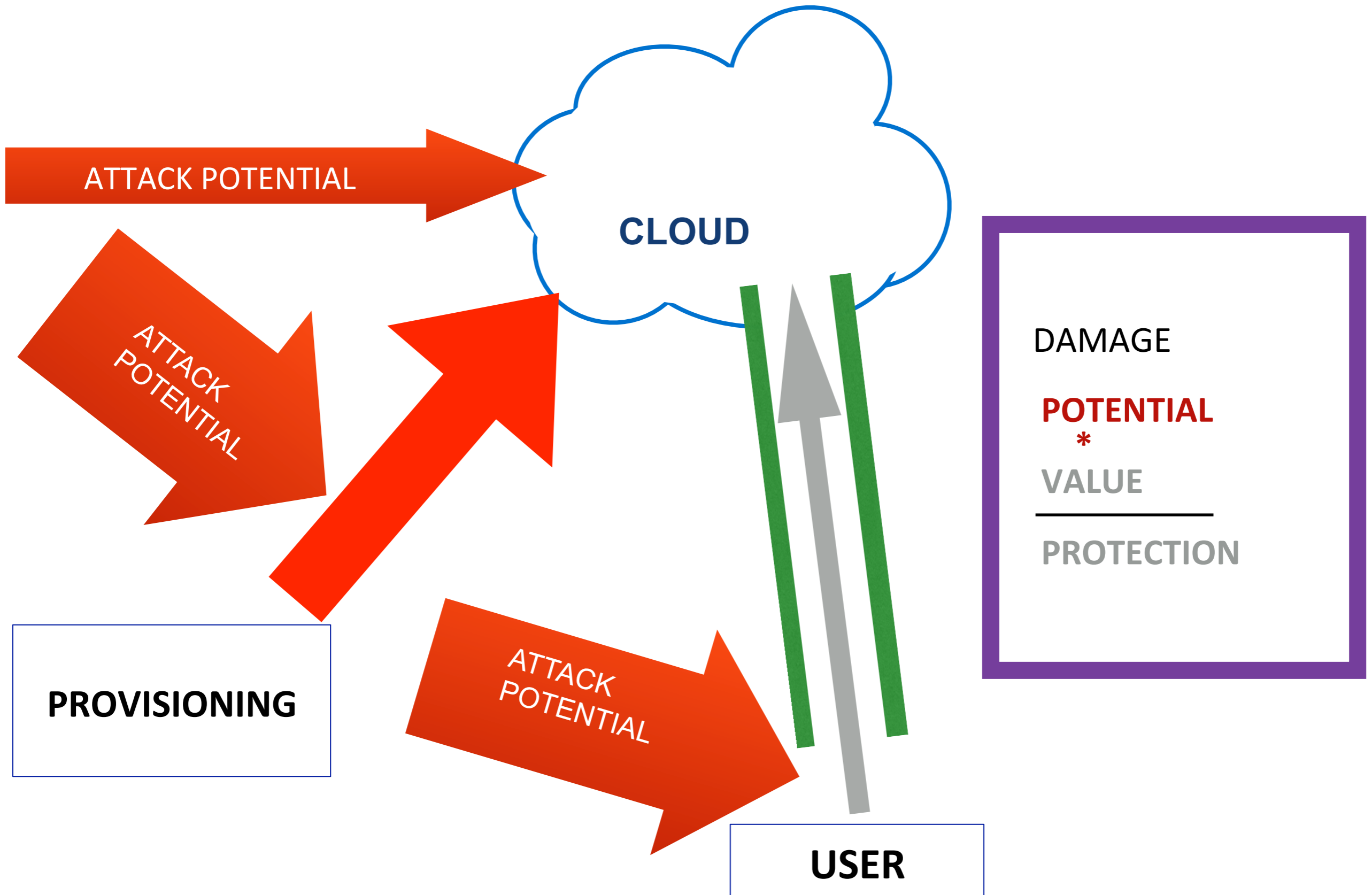


Ken Ducatel, Head of Unit Software & Services. Cloud
EUROPEAN COMMISSION
DG CONNECT

CLOUD COMPUTING THE SUPERMARKET OF IT




CLOUD AND RISK

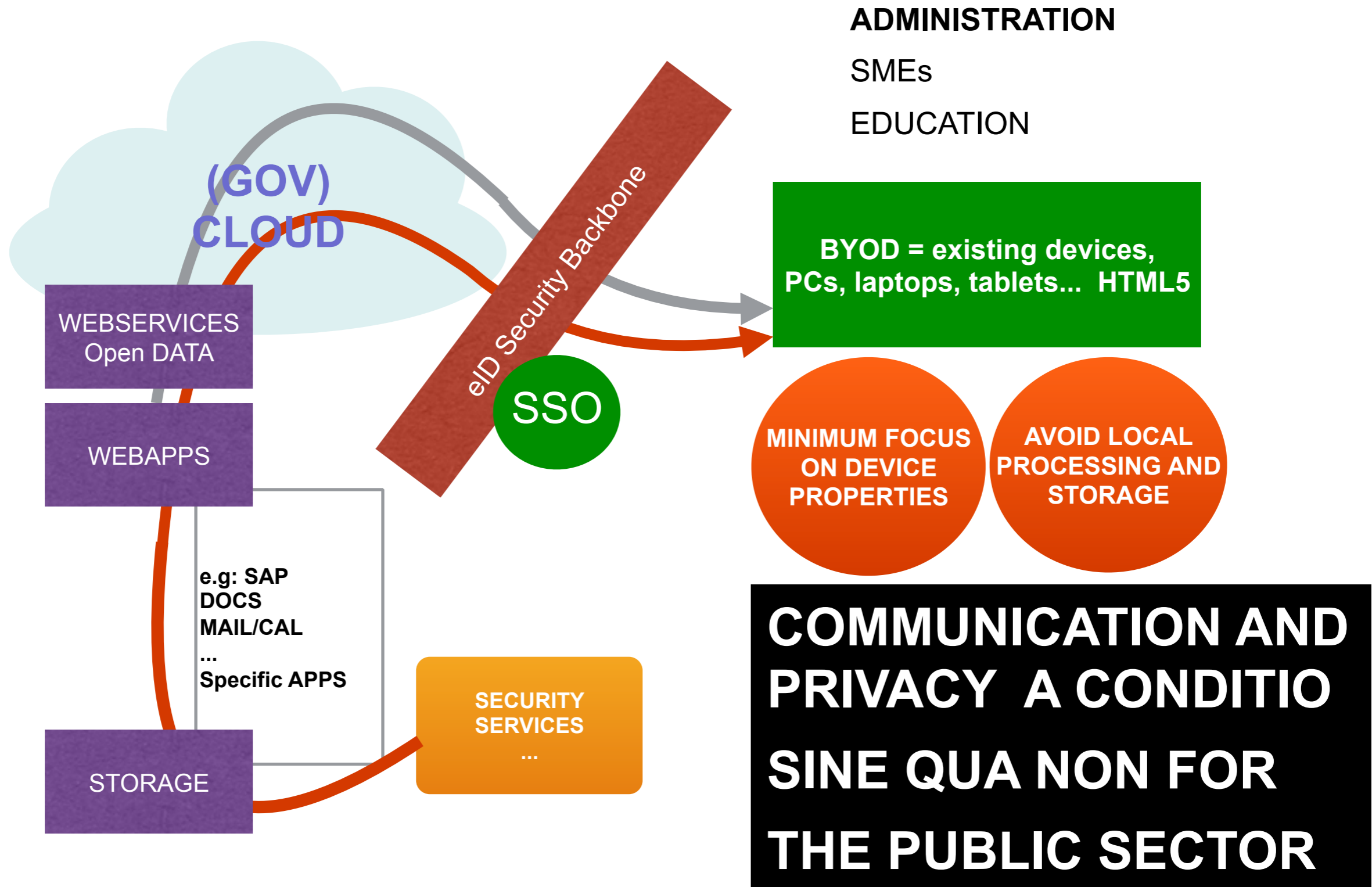


CLOUD PUSH FOR PUBLIC AND PRIVATE

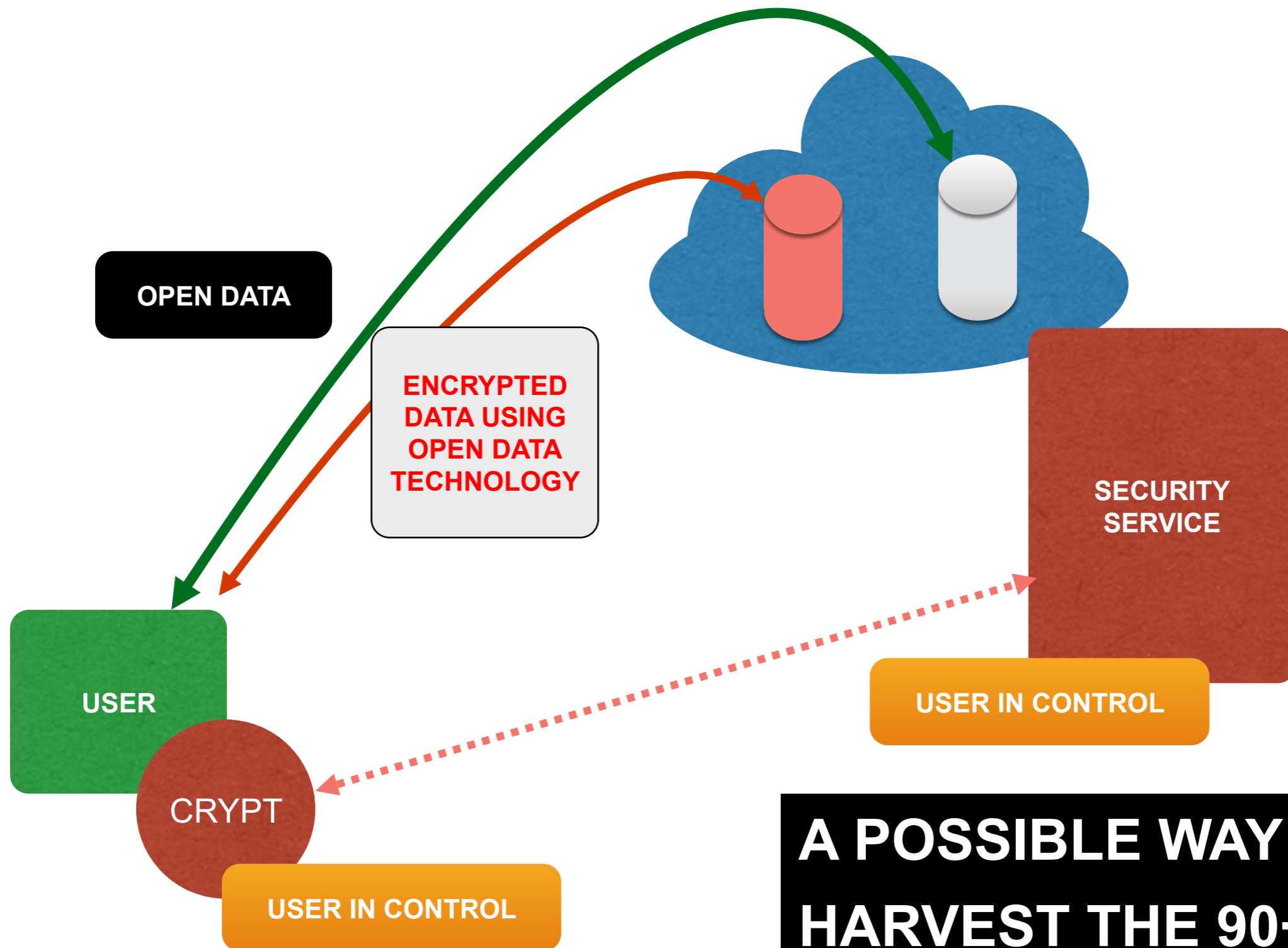
technology for CLOUD

- 
- 1 Data location
 - 2 Cloud and eID
 - 3 Cloud and encryption
 - 4 Formal correctness

CLOUD ■ COMMUNICATION AND TRUST



CLOUD DATA PROTECTION – SPLIT STORE



A POSSIBLE WAY TO HARVEST THE 90+%

CRYPTO and the CLOUD

KEEPING
USABILITY AND
CONVENIENCE

OBSERVING
NATIONAL
INTERESTS

MANAGING
THE
COMPLEXITY

RESEARCH TO
CLOSE THE
OPEN ISSUES



CRYPTO
UNDER
NATIONAL
CONTROL

KEEPING
CONTROL
OF COST AND
EFFICIENCY

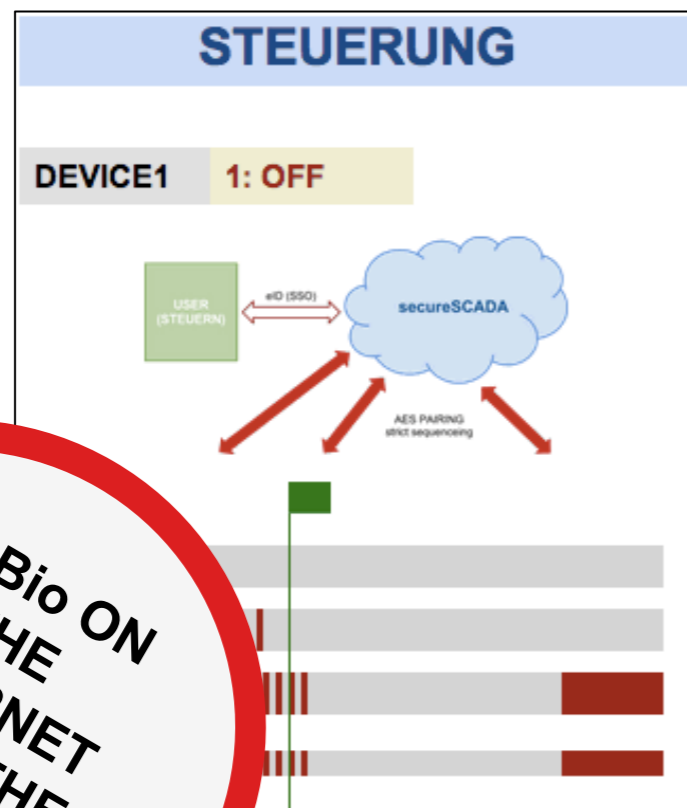
**DATA PROTECTION AND SECURITY
MIGHT ALLOW EUROPE TO
APPROACH COMPETITIVENESS IN
CLOUD COMPUTING.**

eIDaS

- **REGULATION replacing the Signature DIRECTIVE**
- **including but going beyond signature**
 - **eID**
 - **Server Authentication**
 - **Delivery**
 - **..**
- **Recognition but no single technology**
 - **still to prove efficient in day to day communication**
- **High need to bring in private sector**

CRITIS → A JOINT EFFORT IS URGENTLY NEEDED

> 70 % of technical internet devices are not secured (DE)



SMART METERING

GOOGLE CAR

HOME AUTOMATION

AMBIENT ASSISTED LIVING

SMART MEDICATION

.....

50 Bio ON
THE
INTERNET
OVER THE
NEXT YEARS



WELCOME IN THE CHANGING ICT

THANK YOU FOR LISTENING

REINHARD.POSCH@A-SIT.AT

