

# Project activities, results to be achieved, European context

## SUNFISH public event

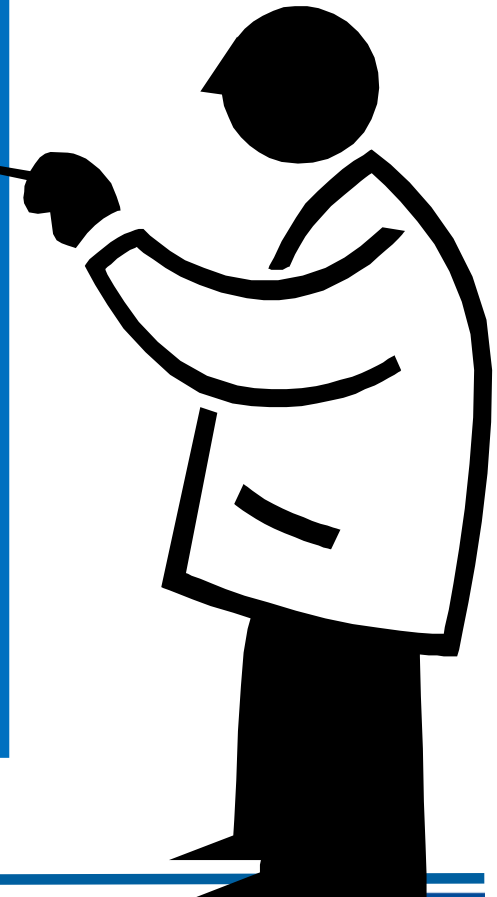
Rome, March 10<sup>th</sup>, 2015

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# Overview

- What EU political leaders say
- What SUNFISH addresses
- What to expect from SUNFISH
- How we support Europe



## Toomas H. Ilves on pan-European services

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- ... it is vital to determine European clouds that are subject to the laws of the European Union and are completely safe for users, because as of now, 95 per cent of cloud service used in the European Union belong to US companies
- Concern for protecting privacy should not make countries withdraw and create their own closed systems; on the contrary - it is important to strive for the creation of pan-European e-services and, of course, then use the secure European cloud.



*European Cloud Partnership Steering Board / Tallinn; 4 July 2013*



## Neelie Kroes on security

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Recent revelations about the scale of online spying have been astonishing. ...

The answer does not lie in constraining data within national borders. Hiking up the drawbridge and creating isolated national fortresses.

And the fact is, if you want to stop a burglar breaking through your front door, you don't need a good lawyer, you need a good lock.



*Cyber Summit / Bonn; 11 November 2013*



# Günther Oettinger

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- We need to gain digital sovereignty and not just be the importers of hardware and software. Those who just are importers of hardware and software have little influence on data protection and data security.

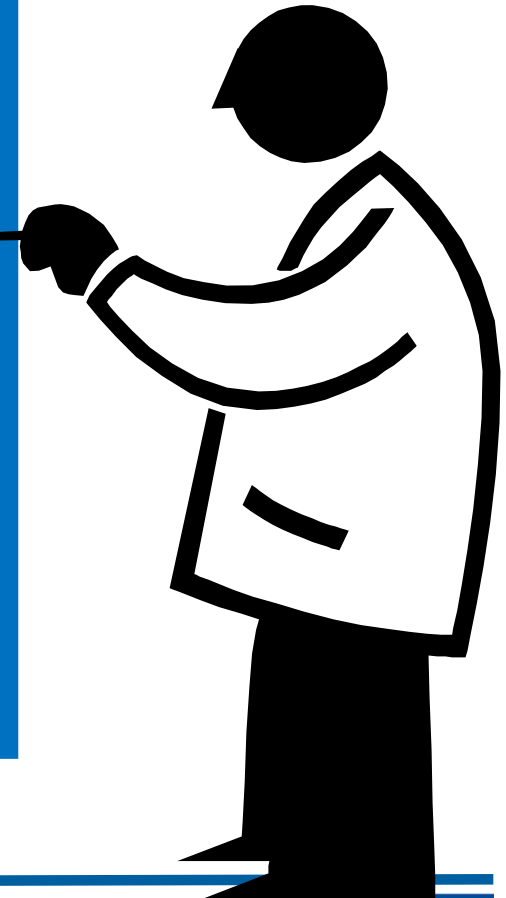


*KSÖ Security Congress / Vienna; 23 February 2015  
(translated from press quote in German)*



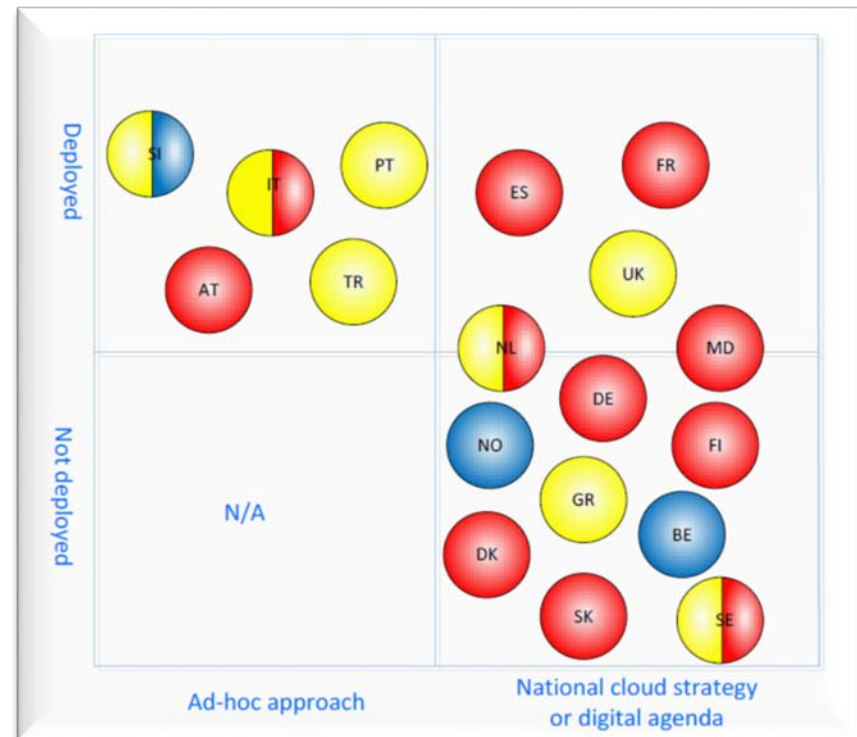
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# Where does SUNFISH start from

- Public administrations already use cloud
- Security, data protection, or official liability often lead to private/community clouds
  - Red/blue in the figure
- Private clouds, however have limited economy of scale / resource usage



*Good Practice Guide for securely deploying Governmental Clouds; ENISA 2013*

## Our SUNFISH Objectives

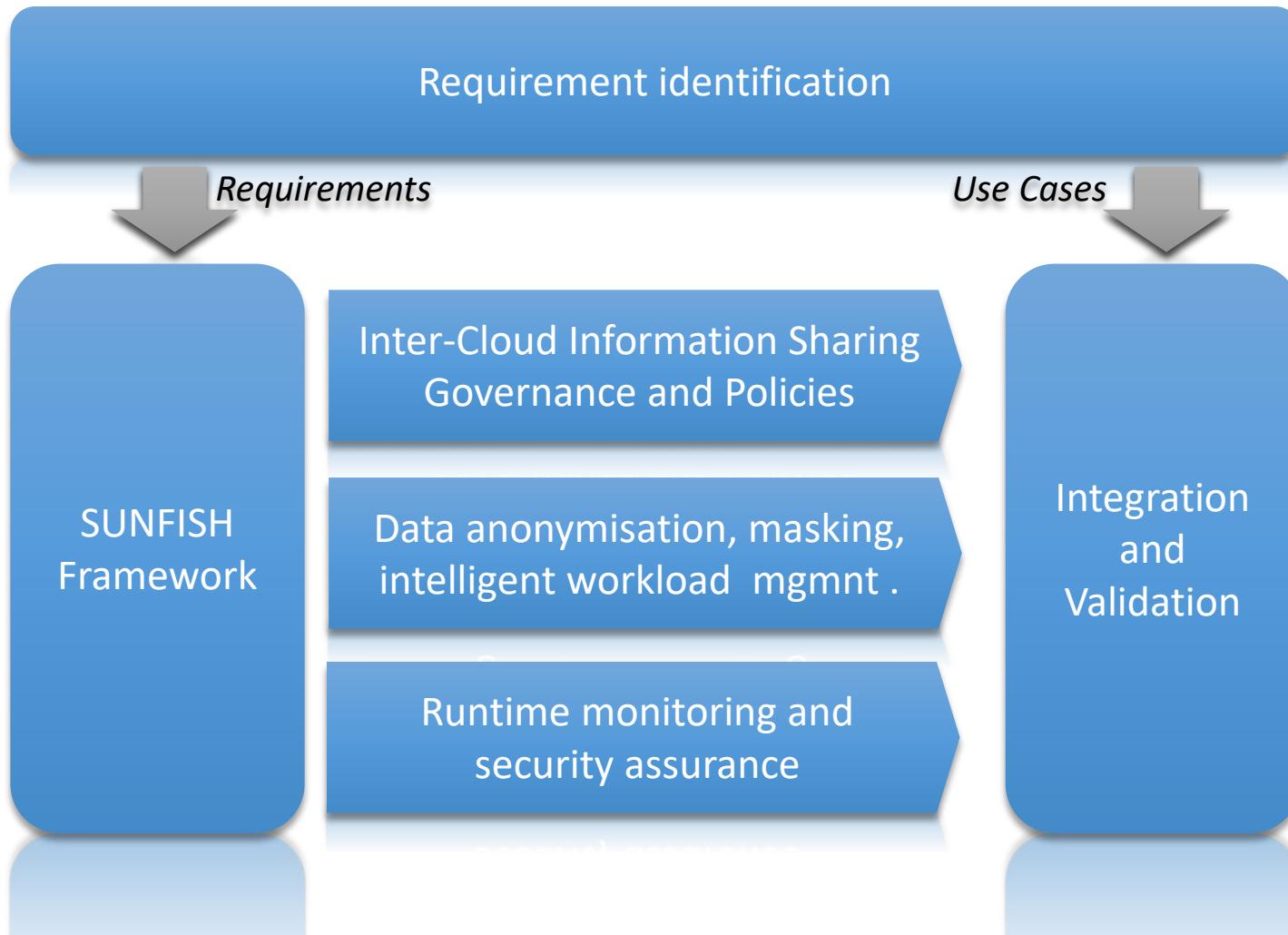
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- Allow public administrations to federate their private clouds
- Increase infrastructure efficiency
- Support data sharing in a secure and data protection friendly way



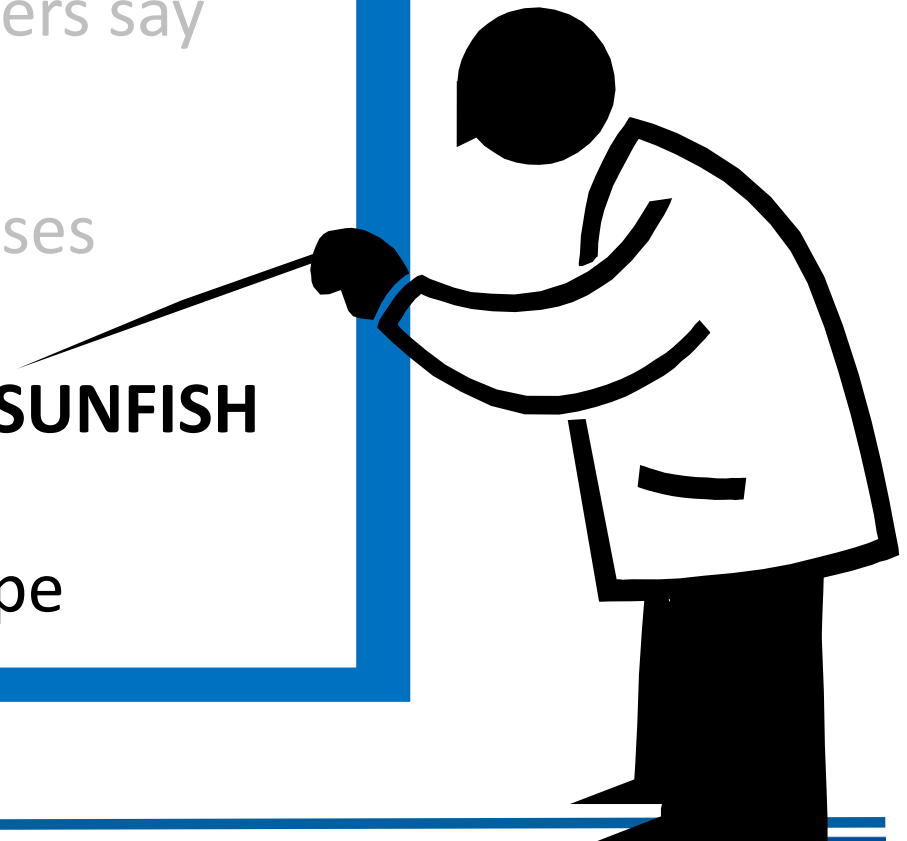


# Structure of Technical Work



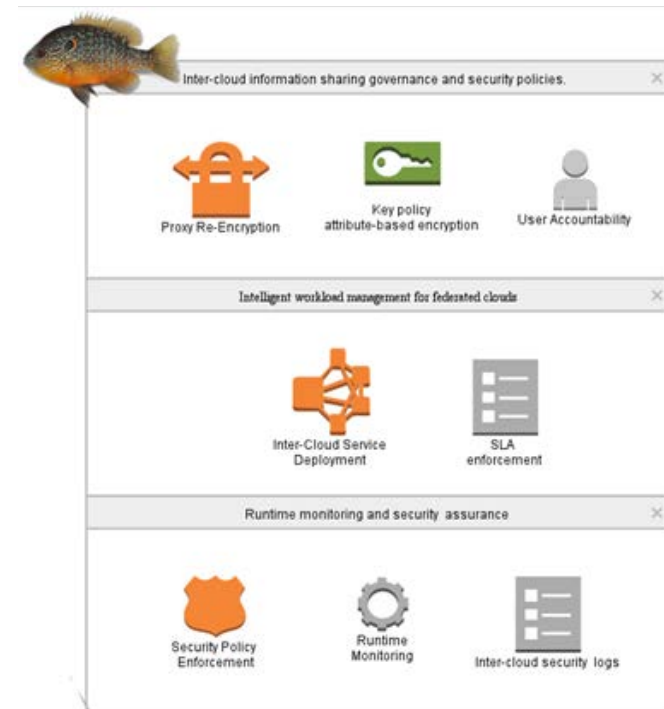
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# A framework ...

- SUNFISH will provide solutions on several levels



# Advanced crypto technologies



Proxy Re-Encryption

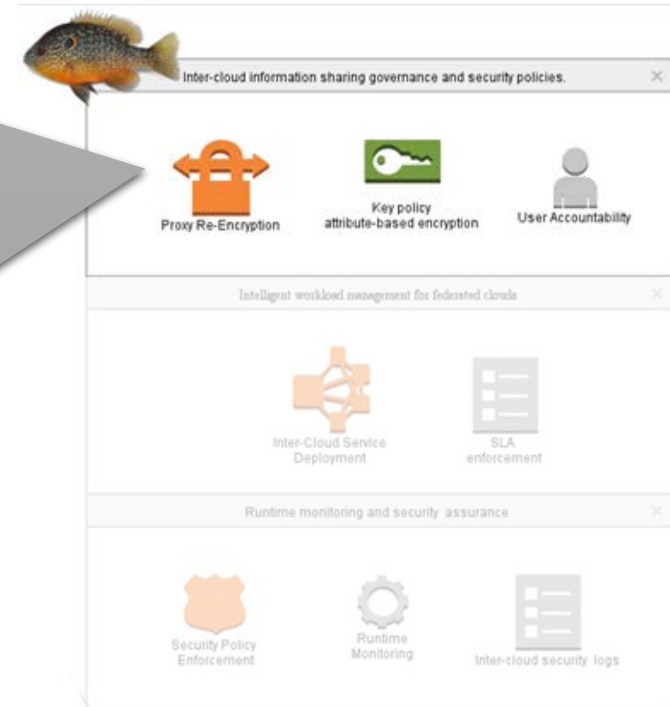


Key policy  
attribute-based encryption



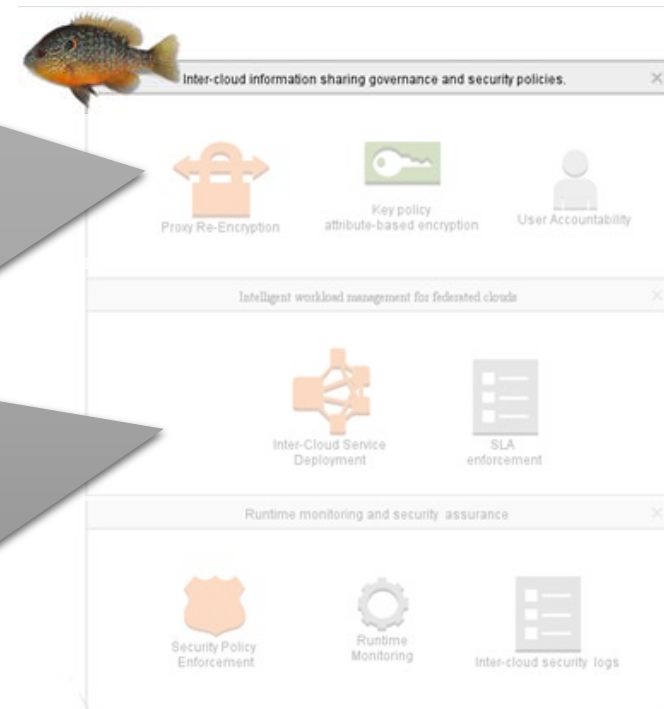
User Accountability

- Proxy Re-Encryption
- Key policy / attribute-based encryption



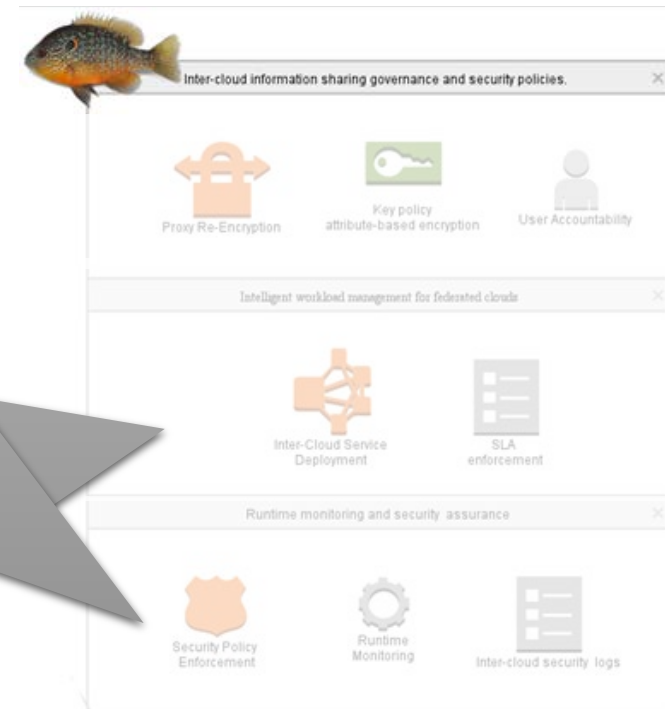
# Workload management

- Inter-Cloud Service Deployment
- SLA Enforcement



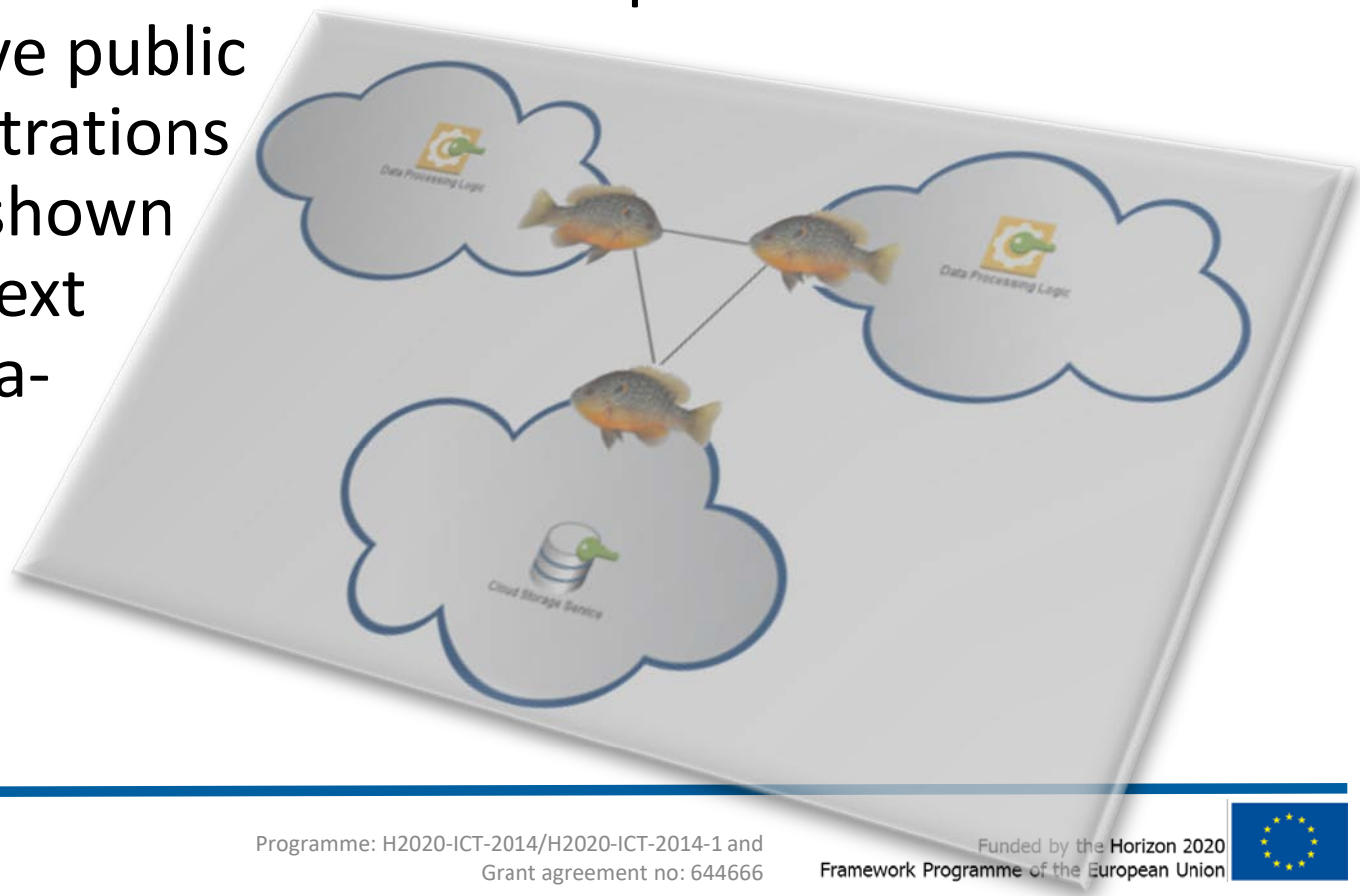
# Monitoring and Security Assurance

- Policy Enforcement
- Monitoring
- Inter-cloud logs



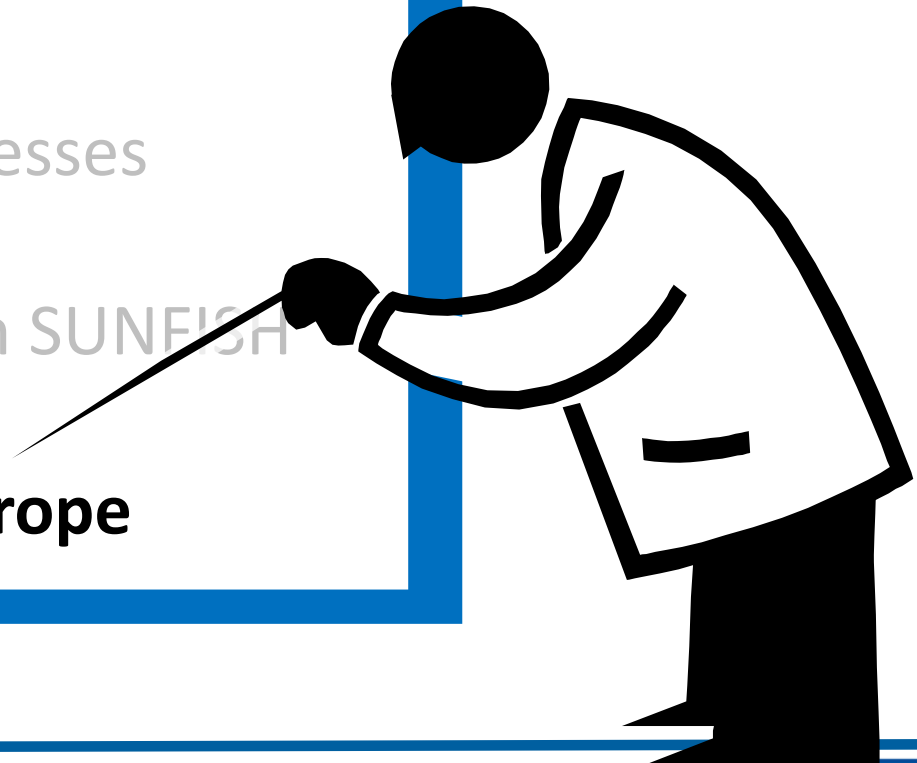
## Pilot in concrete use cases

- Test in real-life scenarios
- Use cases on how federated private clouds can serve public administrations will be shown in the next presentations



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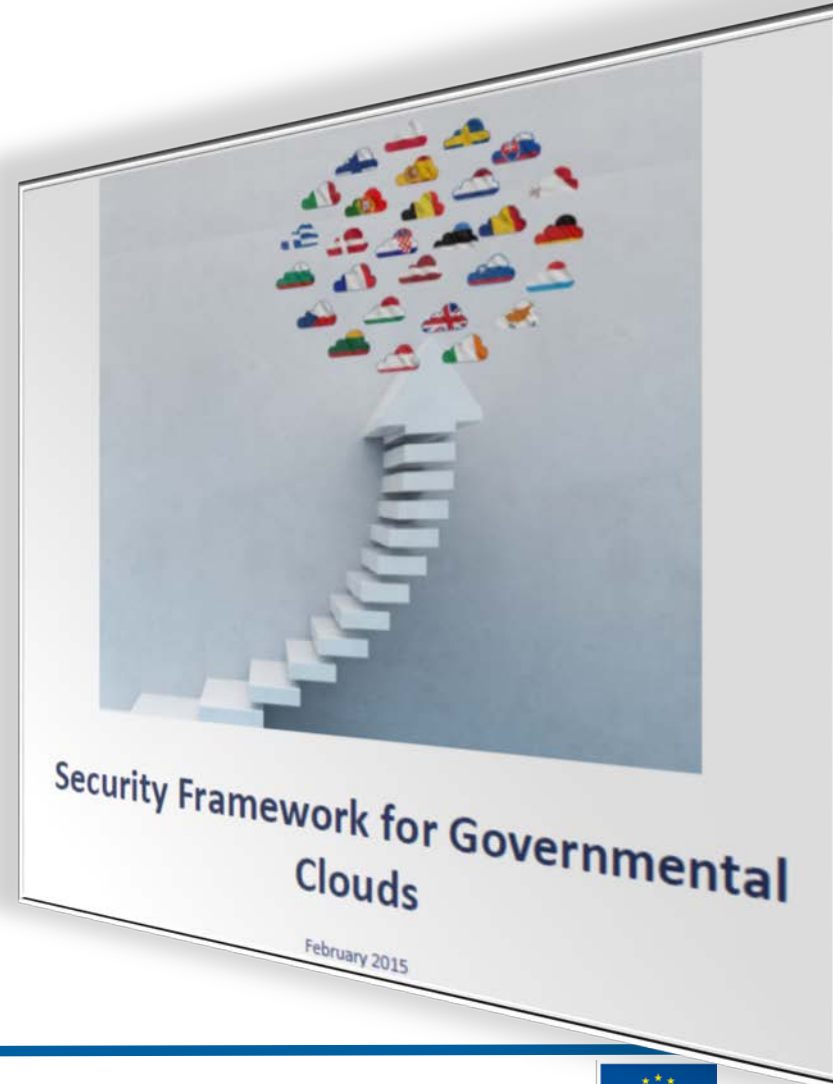
## Relation to ECP-SB (2014)

- **E.g. ECP-SB vision on eHealth**  
*“Privileged information can be protected by legal frameworks that stop cloud adoption or limit use cases. Significant benefits could be realised through trusted cloud solutions.”*
- **SUNFISH will provide such trusted Cloud solutions**



## Relation to ENISA GovCloud Security (2015)

- **ENISA recommendations**
  - ... *governments should prepare a strategy on Cloud computing that takes into account the implications for security;*
  - ... *further investigate the concept of a European Governmental Cloud as a supra national virtual space where a consistent and harmonized set of rules could be applied, both in terms of legislation and security policy ...”*
- **SUNFISH will contribute lessons learned from testing in concrete use cases**



## Relation to EU Council (2013)

- **Oct. 2013 Council Conclusions**  
*“[...] Cloud computing should improve access to data and simplify their sharing. [...] EU action should provide the right framework conditions for a single market for Big Data and Cloud computing, in particular by promoting high standards for secure, high-quality and reliable cloud services.”*
- **SUNFISH has secure sharing data of data and secure Cloud service as main objective**



Thank You  
for Your Attention

