



3rd CloudWATCH Concertation Meeting
Turning cloud research into innovative
software & services

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3rd Concertation meeting
25 March 2015, Brussels, Belgium

Concertation #1 & #2

EU Interoperable cloud services & solutions – March 2014

- ◆ Snapshot of use of standards
- ◆ Go to market & business models
- ◆ Clustering , cross- project collaboration
- ◆ Shared exploitation focused workshops and activities
- ◆ Re-use data & Statistics from projects to decrease isolation and collaborate with CIP projects

Shaping Europe’s future for software, services and cloud – Sept 2014

- ◆ Real examples
 - ◆ clustering, convergence & collaboration
 - ◆ Re-use of existing software and tools
- ◆ Recommendations for LEIT 2016-2017 work program
 - ◆ Cloud computing
 - ◆ Software engineering
 - ◆ Open Source research
- ◆ Open Source best vehicle for re-use, sharing result, technology transfer and high quality software
- ◆ Focus on disruptive technology
- ◆ Need for structured approach to turning partially successful prototypes into success stories.



Concertation meeting in numbers



Meeting overview

- ◆ **09:00 – 09:40** -Towards a transparent and trusted cloud in Europe
- ◆ **09:40 - 10:40 – Research & Innovation Outputs – Offers for trusted and secure services – Pitches from selected Call 8 projects**
- ◆ **10:40 - 11:00 - Break**
- ◆ **11:00 – 11:50 – 1-Minute Madness – H2020 Call 1 Service Offers**
- ◆ **11:50 – 12:20 – The Rocky Road to the Market – Tips and recommendations on how best to take results to market**
- ◆ **12:20 – 12:30 – Closing remarks & Call for action**
- ◆ **14:30 -15:00 Close of meeting**

Making CloudWATCH more service oriented

Needs

- ◆ Greater trust in cloud services
- ◆ More options for interoperability & portability
- ◆ Monitoring, management & transparency
- ◆ Integration, open APIs, open source
- ◆ Business cases and proof

Output

- ✓ Recommendations for a more transparent cloud:
 - ✓ Legal tips on data protection
 - ✓ Recommendations for security & privacy certifications
 - ✓ Use cases & best practices
- ✓ Testing cloud standards & interoperability
- ✓ Cloud standard profiles based on real user stories & analysis of 52 R&I initiatives
- ✓ Market facing portfolio of cloud services from EU R&I

Improved CloudWATCHHUB.eu

- ❖ Success stories from business & gvmt
 - ❖ Cloud trends for SMEs
 - ❖ Certification guidelines & directory
 - ❖ Legal guide for SMEs
 - ❖ Interoperability
 - ❖ Standards adoption & testing
 - ❖ Regular webinars – Service management, Cloud monitoring, Cloud federation, Open data, Certification, SLAs
 - ❖ Dedicated section for Gvmt & PAs
 - ❖ Portfolio of R&I Service offers
- ### Online tools
- ❖ European CloudScout
 - ❖ Me&MyCloud – Coming soon



The logo for CloudWatch, featuring a stylized blue diamond shape composed of smaller diamonds, positioned above the text 'CloudWatch'.

CloudWatch

Clustering to provide relevant Cloud standards profiles and enable sharing best practice

Brussels, Belgium

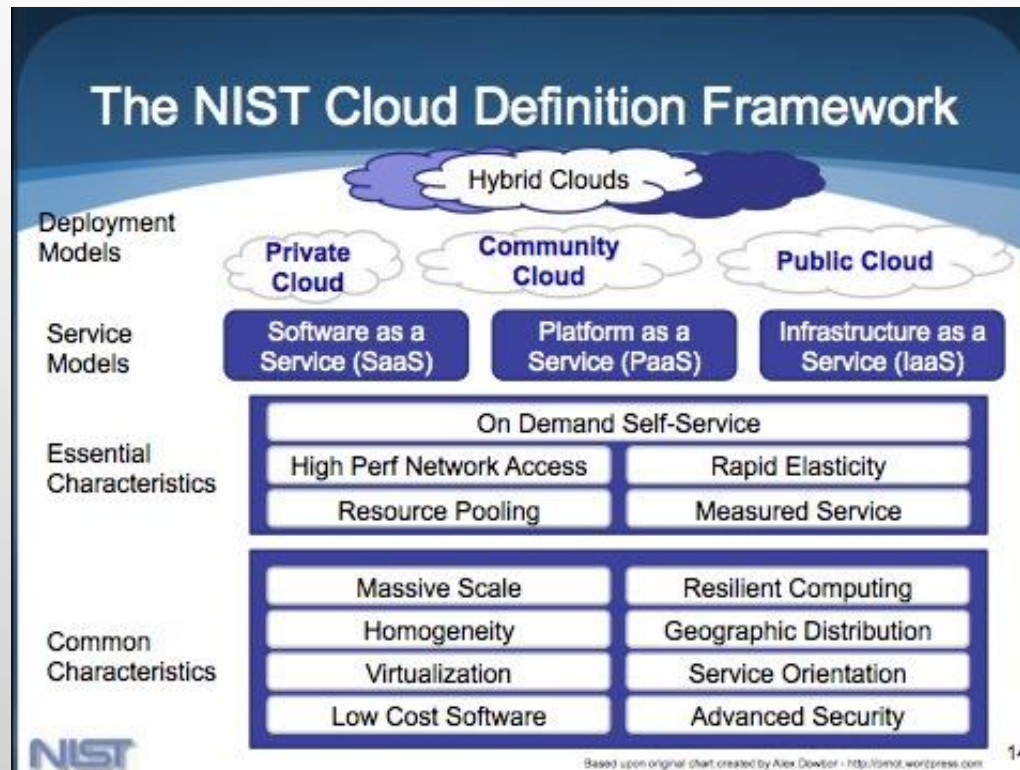
25th March 2015

- ◆ How do we bring together in a meaningful way the diverse projects of Call 8, Call 10, and beyond?
- ◆ From this clustering it must be possible to build technical standards profiles of relevance for them



Quantitative Project Analysis

- ◆ Re-cluster for functions rather than sectors to show different groupings to support multiple different standards and best practice profiles
- ◆ Score each project or activity as to the importance each NIST Characteristic



Academic Sector

WeNMR	Utilising cloud computing resources for community training and hosting services for delivery of complex applications
OpenModeller	Providing a broker system to manage the deployment of applications as virtual machines onto multiple infrastructure services
Catania Science Gateway Framework	Enabling researchers from multiple communities access to easy to build science gateways and for work deployed from them to connect to cloud resources.
BNCweb	Using cloud computing resources to provide community specific analysis capability
Embassy Cloud	Utilising a cloud environment to enable access to EBIs stored data sets in a bring your own algorithm methodology

Enterprise Sector

ARTIST	End-to-end assisted migration solution for non-cloud software
U-QASAR	Universal Quality Assurance & Control Services for Internet Applications
CloudWave	Agile Service Engineering for the Future Internet
CloudCatalyst	Supports the creation of value-added cloud solutions
PANACEA	Proactive autonomic management of cloud resources

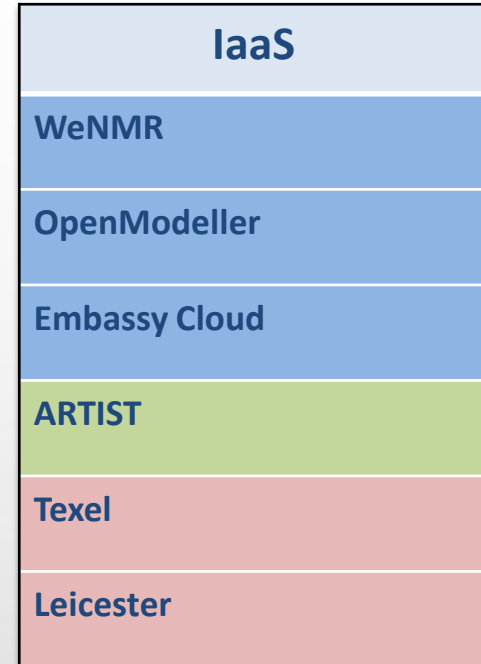
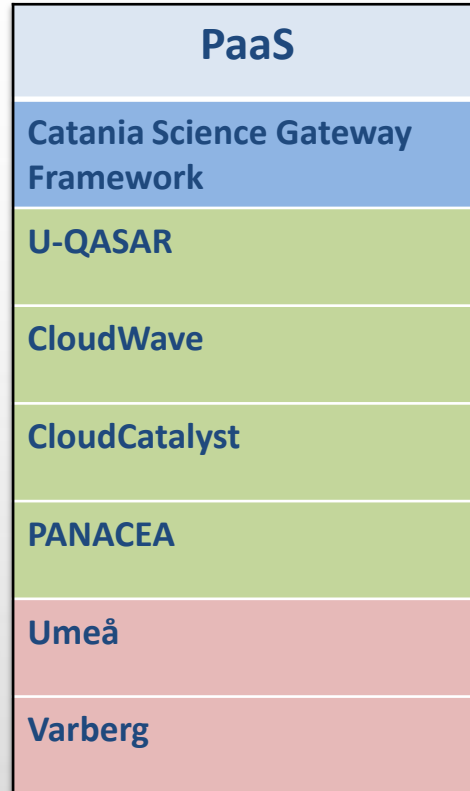
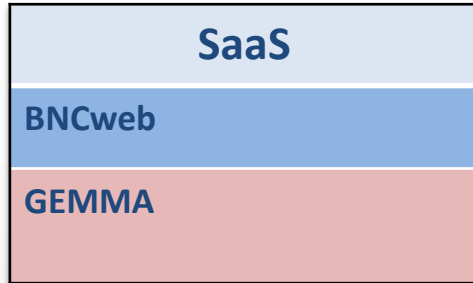
Public Sector

Texel	Smart energy services to support Texel's energy neutrality 2020 goals
Umeå	Municipality builds decision-making portal, improves social services for residents
GEMMA	Emergency services command and control utilising IaaS systems based on Openstack
Varberg	Municipal agency improves service to residents with intranet management system utilising SaaS products on a common PaaS.
Leicester	Utilising both IaaS and SaaS solutions to optimise council efficiency.

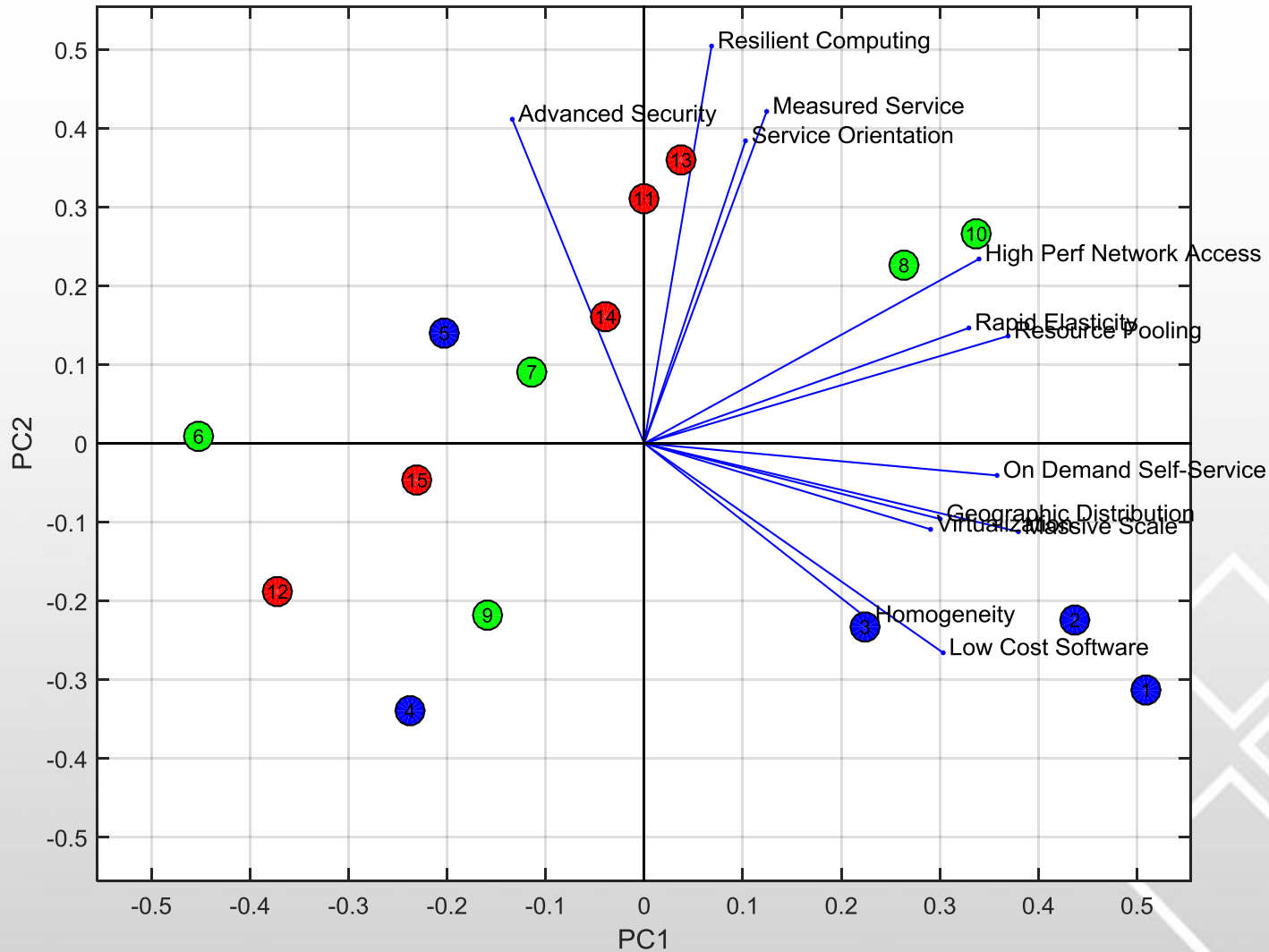
Quantitative Project Analysis

		On Demand Self-Service	High Perf Network Access	Resource Pooling	Rapid Elasticity	Measured Service	Massive Scale	Homogeneity	Virtualization	Low Cost Software	Resilient Computing	Geographic Distribution	Service Orientation	Advanced Security		SaaS	PaaS	IaaS
Academic	1 WeNMR	9	8	8	9	5	7	9	8	7	3	9	6	3		0	0	1
	2 OpenModeller	9	7	8	7	3	7	8	8	9	4	7	8	5		0	0	1
	3 Catania Science Gateway	8	6	6	7	5	6	6	8	7	5	6	5	5		0	1	0
	4 BNCweb	7	4	4	3	2	4	5	3	5	2	1	7	2		1	0	0
	5 Embassy Cloud	7	7	2	1	6	3	6	8	3	8	1	7	9		0	0	1
Enterprise	6 ARTIST	1	1	1	6	6	3	3	4	2	5	6	7	7		0	0	1
	7 U-QASAR	5	7	6	7	7	2	2	5	4	4	4	7	6		0	1	0
	8 CloudWave	8	8	8	8	9	4	3	7	8	7	3	9	5		0	1	0
	9 CloudCatalyst	6	6	6	4	1	1	1	6	8	4	4	6	5		0	1	0
	10 PANACEA	8	9	8	8	6	6	5	7	5	8	7	9	8		0	1	0
Public	11 Texel	5	8	7	7	8	4	4	4	4	8	3	8	7		0	0	1
	12 Umea	5	3	3	2	2	2	4	6	4	3	3	7	7		0	1	0
	13 GEMMA	8	7	8	8	7	3	3	4	3	8	5	8	9		1	0	0
	14 Varberg	8	7	8	5	4	3	4	5	3	6	3	8	8		0	1	0
	15 Leicester	6	6	5	5	3	2	7	3	4	5	2	6	8		0	0	1

Service Models

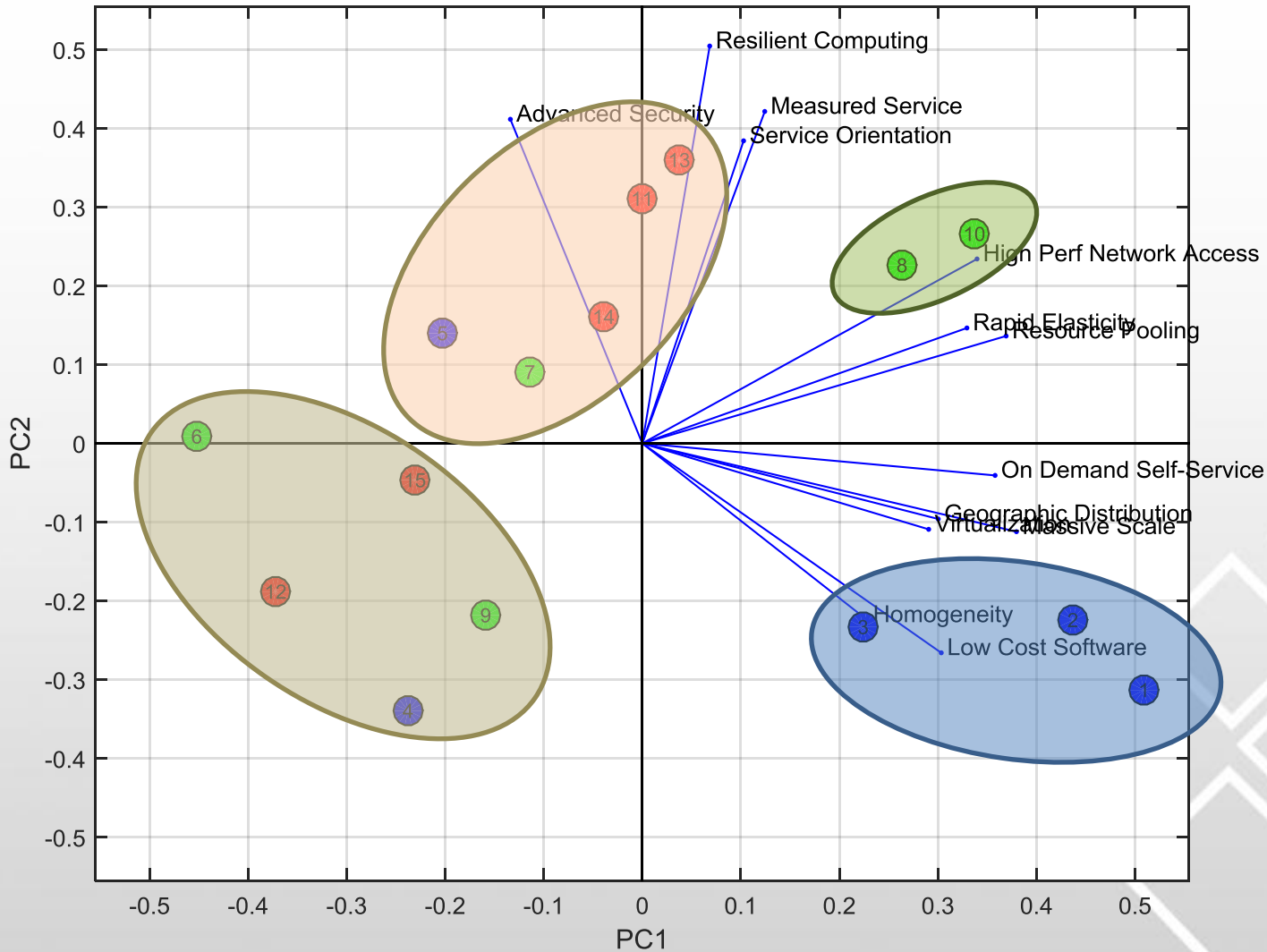


Functional Clustering



1	WeNMR
2	OpenModeller
3	Catania Science Gateway
4	BNCweb
5	Embassy Cloud
6	ARTIST
7	U-QASAR
8	CloudWave
9	CloudCatalyst
10	PANACEA
11	Texel
12	Umea
13	GEMMA
14	Varberg
15	Leicester

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Using Clustering

- ◆ Each cluster represents a group of projects or activities with similar functional characteristics
- ◆ Ongoing process Per Cluster
 - ◆ Dissect already collected usecases for interoperability requirements
 - ◆ Derive set of exclusive non-overlapping user stories to describe base technical and policy functionality
 - ◆ Provide single canonical set of user stories as input to standards activities [OGF, IEEE,
- ◆ Therefore project clustering is done on a technical rather than empirical basis

A tool to allow self placement in the cloud landscape

- ◆ Expand from the small selection of projects to all Call 8 & Call 10 projects
- ◆ Develop and deploy self assessment tool for project positioning within the cloud landscape
- ◆ Generate a community between the projects in clusters



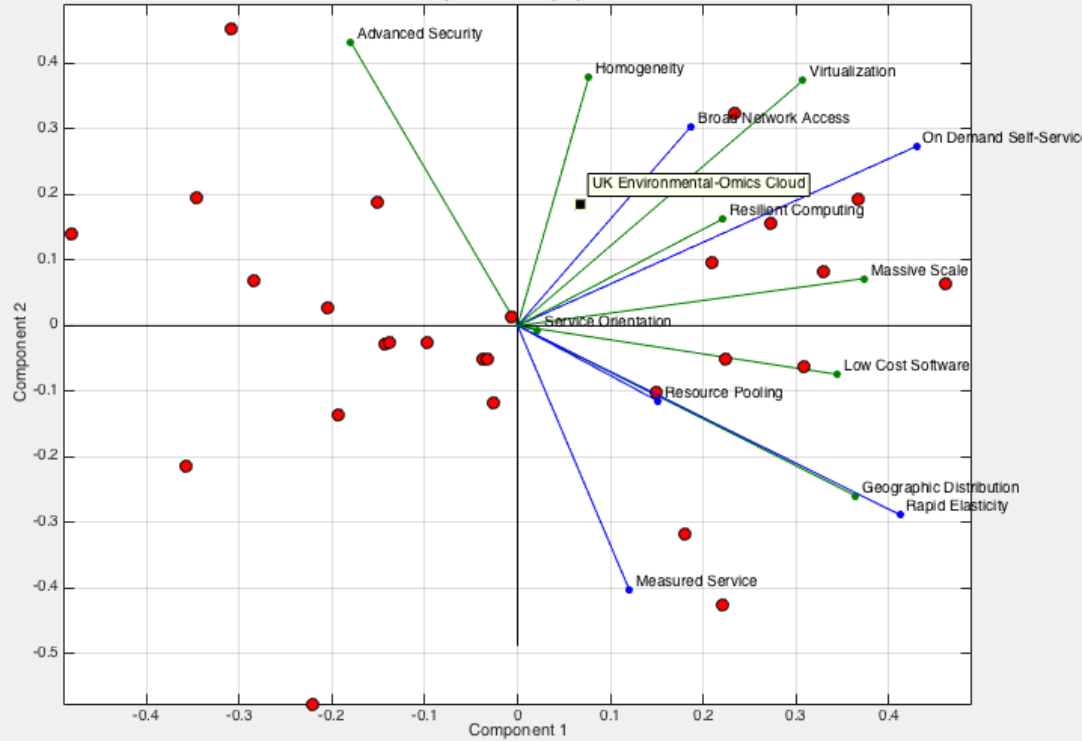
Project (Enter a project name or select a data point from the figure)

UK Environmental-Omics Cloud

NIST Criteria Values

- (1) On Demand Self-Service
- (2) Broad Network Access
- (3) Resource Pooling
- (4) Rapid Elasticity
- (5) Measured Service
- (6) Massive Scale
- (7) Homogeneity
- (8) Virtualization
- (9) Low Cost Software
- (10) Resilient Computing
- (11) Geographic Distribution
- (12) Service Orientation
- (13) Advanced Security

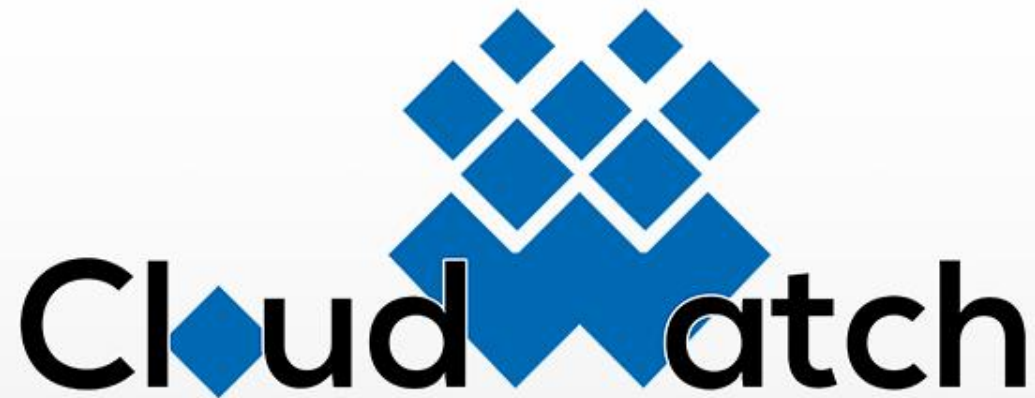
Map of 28 cloud projects





We Need You!

- ◆ Initial analysis done through our own interpretation of projects
- ◆ Meet with us today and provide your own input to this analysis



Thank-you

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@CnectCloud

@netfuturesEU | #netfutures15