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VaPaR in the CLOUD: Information Governance and Assurance

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VAPOUR in the CLOUD: IGA

- The Cloud
- Value
- Alignment
- Assurance
- Performance
- Risk

VAPOUR in the CLOUD: IGA

a pay-per-use model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort or service provider interaction

The NIST DEFINITON OF CLOUD COMPUTING Jan 2011 Mell and Grance
http://csrc.nist.gov/publications/drafts/800-145/Draft-SP-800-145_cloud-definition.pdf

VAPOUR in the CLOUD: IGA
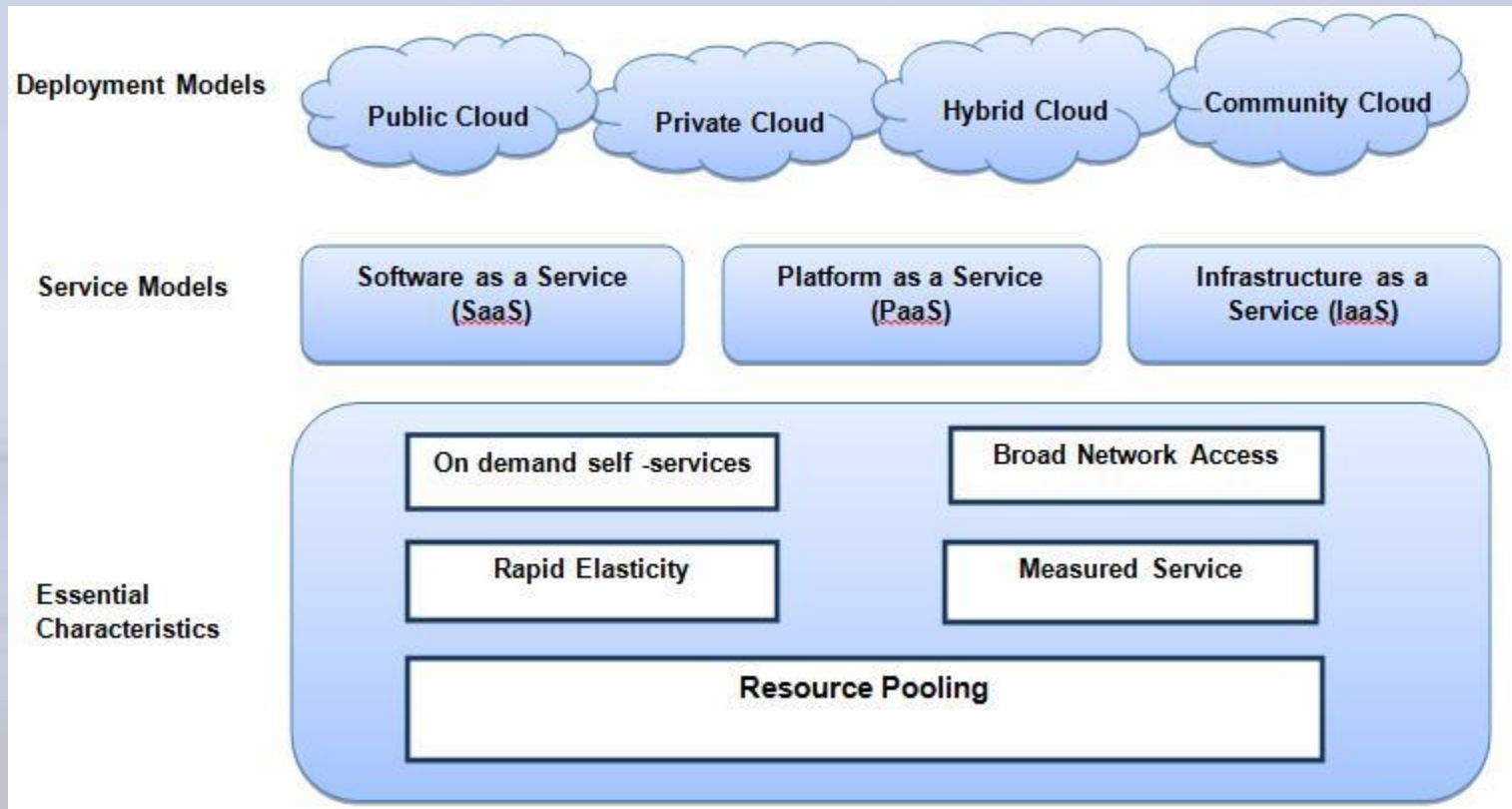
Adapted from NIST. (2009) *Presentation on Effectively and Securely Using the Cloud Computing Paradigm v26*. Online: http://csrc.nist.gov/groups/SNS/cloud-computing

VAPOUR in the CLOUD: IGA

PRO's

- Reduced ICT spending
- Higher flexibility and scalability
- Ease of use
- Improved reliability and security of scale
- Modernisation of business processes
- Business continuity/disaster recovery

CON's

- **cloud specific costs**
- **cost versus benefits**
- **interoperability?**
- **out with organisations' control and limited redress**
- **customisation?**
- **sufficient for legal and regulatory compliance?**

IEEE Security and Privacy Magazine KNB Nov/Dec 2011

VAPOUR in the CLOUD: IGA

IGA:

- Value
- Alignment
- Assurance
- Performance
- Risk

ISO 15489

- Authenticity
- Reliability
- Integrity
- Usability

ADMISSABILITY

- Authenticity
- Accurate
- Complete

IA

- Confidentiality
- Integrity
- Availability
- Authentication
- Non-repudiation

Information Governance and Assurance

VAPOUR in the CLOUD: IGA

Value: classification, appraisal, access, preservation

Alignment: legal, structure, system and business

Assurance: authenticity, availability, reliability, integrity, confidentiality

Performance: effective, efficient, sufficient and innovative

Risk: likelihood, severity, mitigation adequacy and impact

Knb 2011

VAPOUR in the CLOUD: IGA Aberystwyth Cloud research

- Investigate the management , operational and technical issues surrounding the storage of information in the cloud and provide an overview of Cloud Computing uses and challenges relating to common **records keeping practices**

- "Storing Information in the Cloud Unconference: Manchester, England
http://vimeo.com/12729777
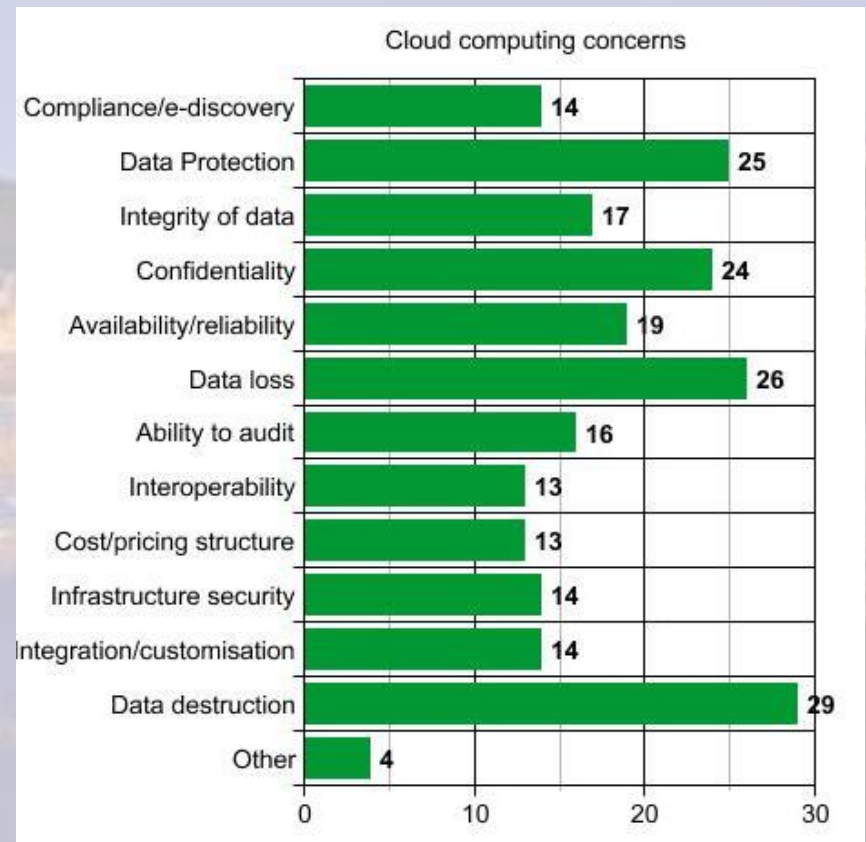
VAPOUR in the CLOUD: IGA Aberystywth Cloud research

Destruction of data

Loss of control over data

Data protection

Confidentiality

Availability of service

Integrity/security?

Cloud computing concerns

Concern	Value
Compliance/e-discovery	14
Data Protection	25
Integrity of data	17
Confidentiality	24
Availability/reliability	19
Data loss	26
Ability to audit	16
Interoperability	13
Cost/pricing structure	13
Infrastructure security	14
Integration/customisation	14
Data destruction	29
Other	4

VAPOUR in the CLOUD: IGA

Challenges/Implications

- Deleted data?

- Encrypted data?

- Location of data?

- Segregation of data?

- Nature of multi tenancy, multi jurisdictional virtual environments
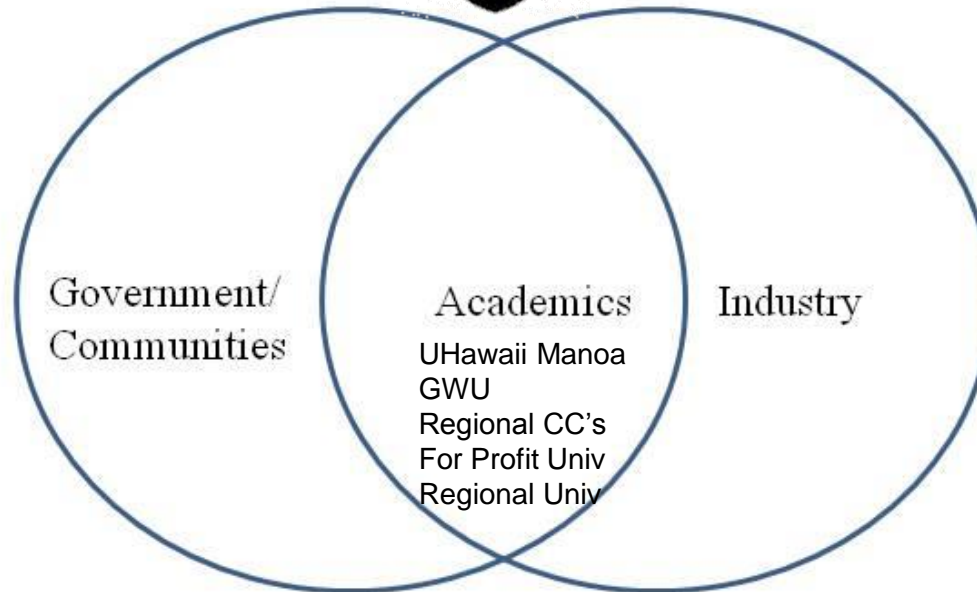
The CIAC

International

Aberystwyth, Wales
UBC, Vancouver
DGIST, S Korea

National

PNNL
NSA
DC3
GHRI-SHARP

Local

APL
PRIZM, City Light
Port of Seattle
Port of Tacoma

Government/ Communities

Academics

UHawaii Manoa
GWU
Regional CC's
For Profit Univ
Regional Univ

Industry

Public Companies

Microsoft
Amazon
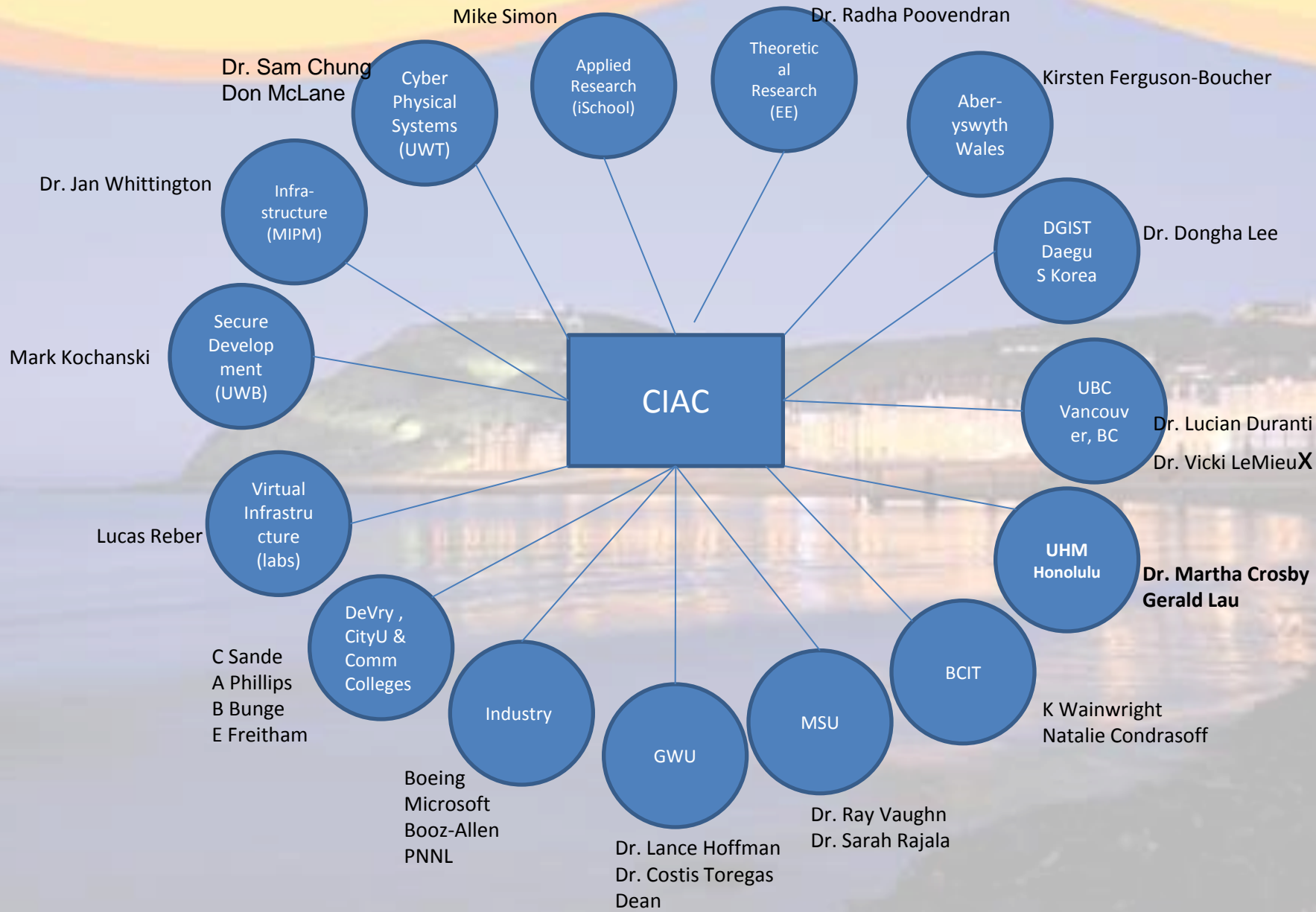Booz Allen
Boeing
TMobile

Private Companies

KPMG
DeLoitte
PW

Entrepreneurs

Creation Logic
2B3D
IO Active
Intellius
ZANTZZ

CIAC Network of Collaborators

References

- Extensive cloud computing and RM literature review https://docs.google.com/Doc?docid=0AUMD4SCCg7uaZGRxczNybndfMTZjODM4bXhmNw&hl=en

- Online resources have been bookmarked in Delicious and are available at http://www.delicious.com/nicoleschu/soacloud

- Toolkit available on the ARA website http://www.archives.org.uk/images/documents/Cloud_Computing_Toolkit.pdf

- Convery, Nicole and Kirsten Ferguson-Boucher, Storing Information in the Cloud – A Research Project. *Journal of the Society of Archivists in process for*