

Aberystwyth University

VaPaR in the CLOUD: Information Governance and Assurance

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A nighttime photograph of Aberystwyth, Wales, showing the town's lights reflecting on the water of the harbor. The sky is dark blue, and the town's buildings are illuminated with warm yellow lights. A large hill is visible in the background, also lit up.

VaPaR in the CLOUD: Information Governance and Assurance

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Aberystwyth University

The Future of Information Governance

London March 2012

VAPOUR in the CLOUD: IGA

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

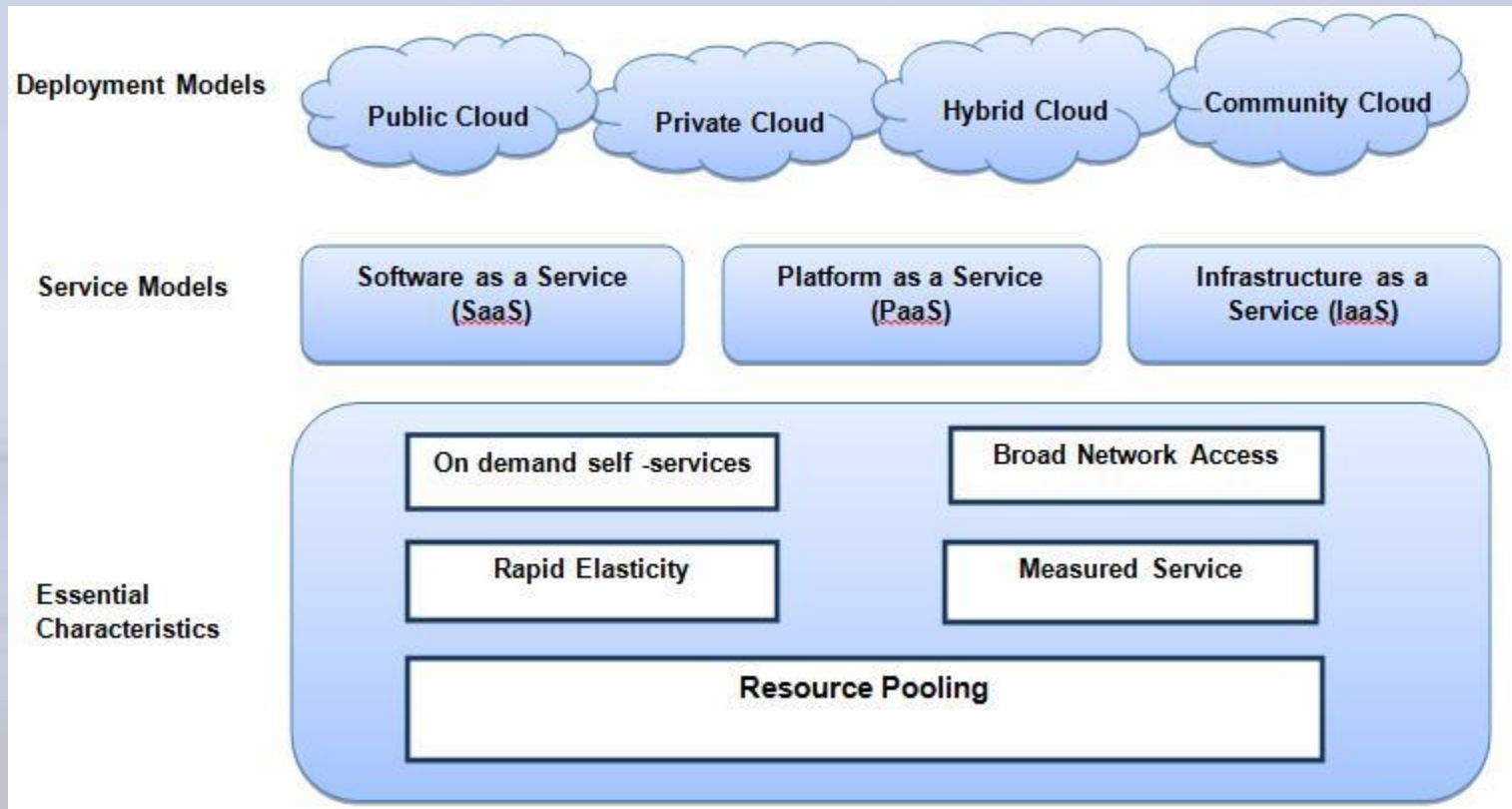
VAPOUR in the CLOUD: IGA

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 DEFINITION 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?**

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

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

Aberystwyth Cloud research

Destruction of data

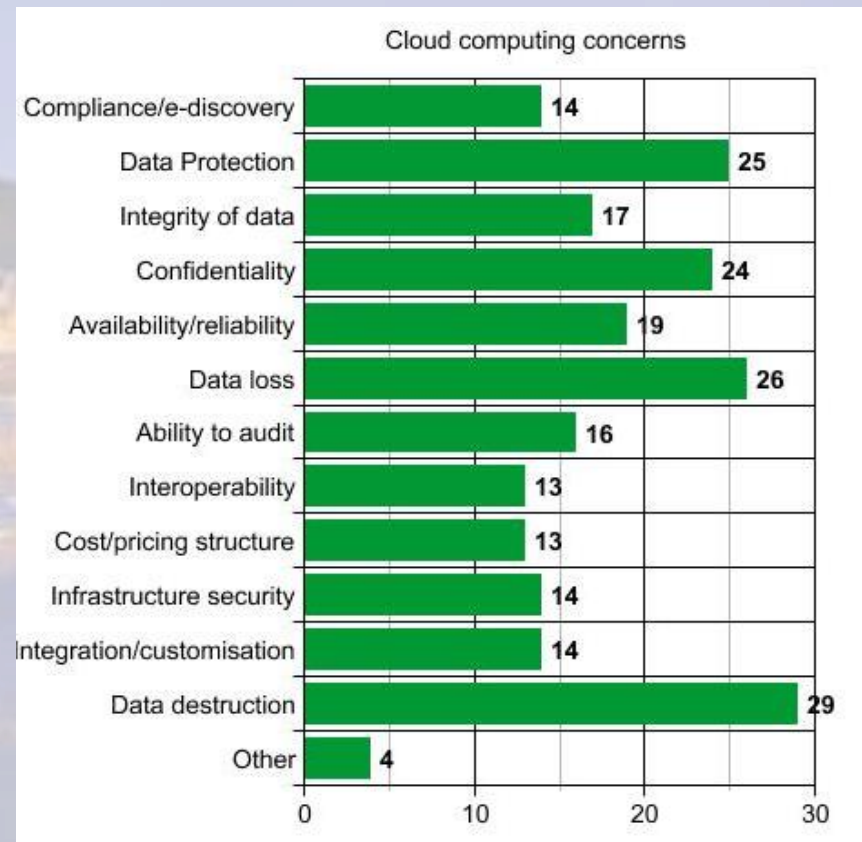
Loss of control over data

Data protection

Confidentiality

Availability of service

Integrity/security?



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

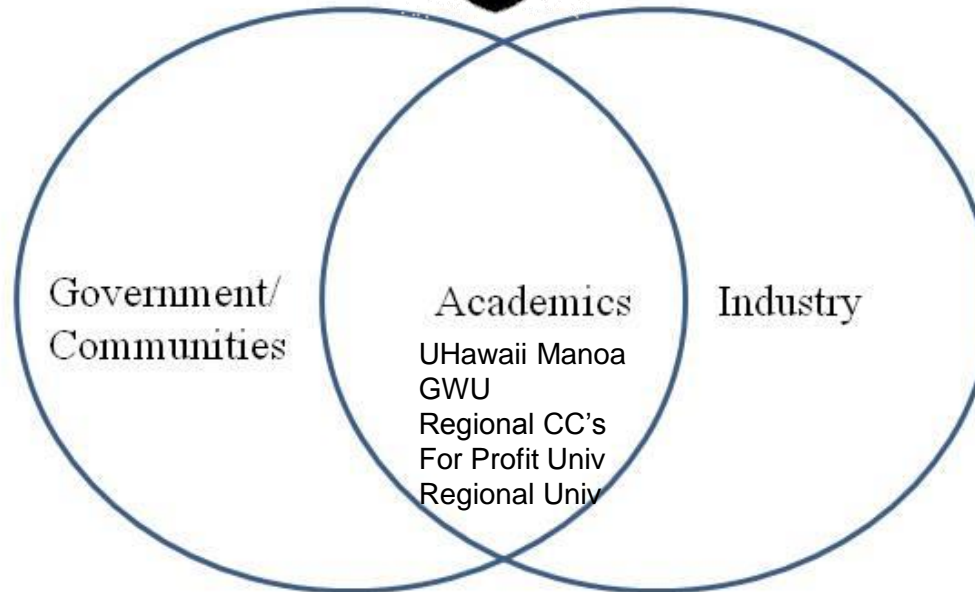
Aberystwyth, Wales
UBC, Vancouver
DGIST, S Korea

National

PNNL
NSA
DC3
GHRI-SHARP

Local

APL
PRIZM, City Light
Port of Seattle
Port of Tacoma



Public Companies

Microsoft
Amazon
Booz Allen
Boeing
TMobile

Private Companies

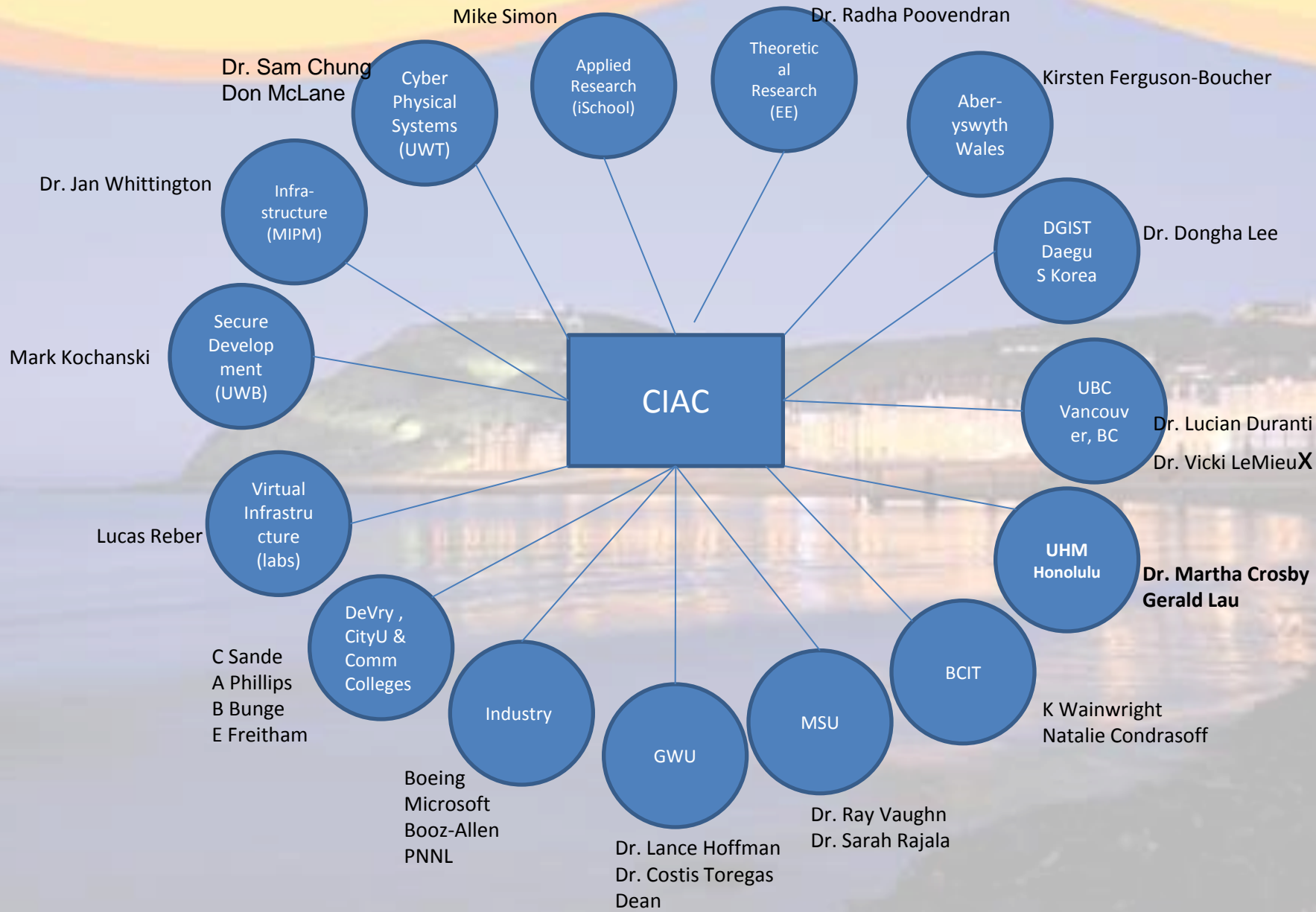
KPMG
DeLoitte
PW

Entrepreneurs

Creation Logic
2B3D
IO Active
Intellius
ZANTZZ



CIAC Network of Collaborators



References

- Extensive cloud computing and RM literature review
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