



National Cyber Security Centre  
Ministry of Security and Justice

# Cloud computing security in the Dutch Government

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## Agenda

- Introduction
- History / Process
- Relation with other ICT-projects
- Conclusion



## Introduction: John van Huijgevoort

- Senior Security Advisor for the National Cyber Security Centre
  - The NCSC cooperates in enhancing the defensibility of the Dutch society in the digital domain.
    - The national government
    - The vital sectors
- Board member Netherlands Chapter of the CSA: research and development
  - Areas of interest:
    - Continuity in the cloud
    - Risk of Data Storage in the cloud
    - Identity from the cloud



## Early 2011 - political motion

- Question:
  - Investigate the applicability of Cloud Computing for public administrations and explore a national strategy
- Result:
  - Cloud computing and cloud first strategy for the entire Dutch government
    - In line with countries like Japan, the United Kingdom and the United States
    - Opportunities for government cloud
      - pros and cons.
    - Security and dependency risks



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## Dutch Cloud Computing en Cloud First Strategy

- After consultation with:
  - ICT industry
  - Scientific world
  - European Union
    - European Network and information Security Agency (ENISA)
- based on a number of targeted studies:
  - RAND Europe (2010)
    - Cloud Computing in the public sector: rapid international stocktaking
  - KPMG (2010)
    - Cloud computing for the Dutch government



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## RAND Europe (2010) 1/3

- Provides a snapshot of different national strategies regarding the domains of interest and drivers for deployment of cloud computing across a number of countries.
- Conducted:
  - Official government documents,
  - country profile data from:
    - Organisation for Economic Co-operation and Development (OECD)
      - public administration and organizational governance
    - Economist Intelligence Unit (EIU)
      - Digital Readiness ranking
  - National policy papers.





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## RAND Europe (2010) 2/3

- There remains a number of potential tractable issues going forward regarding the public sector deployment of cloud computing.



Give me my data back  
DataPortability



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## RAND Europe (2010) 3/3

- What strategy should the Netherlands adopt?
  - The Netherlands appears to be well placed to take advantages of some of the likely benefits offered by developing a public sector cloud computing orientated strategy for the:
    - delivery of e-government services;
    - achievement of back office efficiencies; and finally
    - the promotion of cloud computing as a public utility as a way to stimulate jobs and growth.

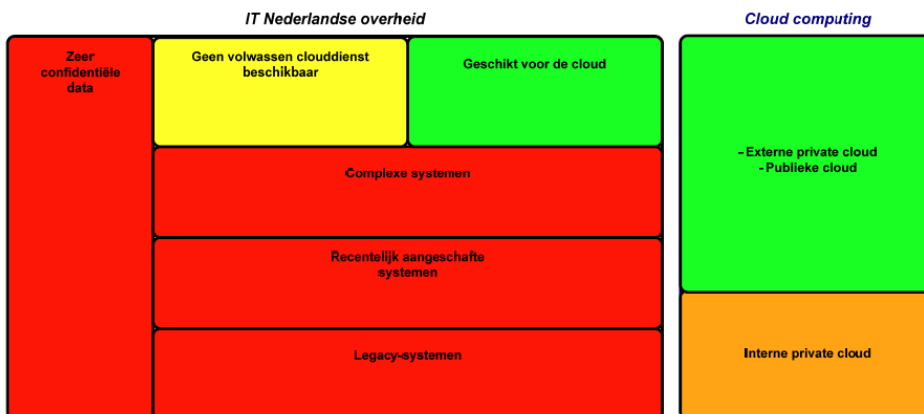


## KPMG (2010)

- Performed risk analysis
- Pros and cons of relevant cloud offerings
- Conclusion:
  - Cloud computing is suitable or ready for a subset of IT within the Dutch government.



## Conclusion





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## Conclusion of the minister of the Interior and Kingdom Relations

"The exploration of the past months have proven that there are **opportunities for the deployment of cloud computing** within the Dutch government. At the same time I must say that the **arguments against applying open cloud computing at this time outweigh the overall benefits**. These arguments have to do with the **immaturity of the market** and the **demands placed on information security.**"



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## Relation with other ICT-projects

- Datacenter consolidation push



## Conclusion:

- Private cloud instead public cloud
- The developed services and applications will be deployed within its own secure network and maintained (managed) by its own government-wide organization.
- First of all will cloud computing methods applied to existing services and those services will be placed in the private cloud.
  - Data storage and
  - Server / infrastructure capacity.
  - E-mail, workplace environment, collaboration functionality and connectivity to information management.
- Essential topics are information security and the legal framework.
  - Stringent requirement is that the data stay in the Netherlands,
  - Safety for all the customers/clients is adequate and
  - Security for the selected applications can be regulated to an acceptable level.



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# Thank You

**Tack**  
Sweden

**Dank u**  
Belgium

**Jag tackar**  
Finland

**Danke**  
Germany

**Gracias**  
Spain

**Obrigado**  
Portugal

**Dziekuje**  
Poland

**Dankschen**  
Austria

**Grazie**  
Italy

**Thanks**  
United States

**Takk**  
Norway

**Toda**  
Israel

**Thank You**  
United Kingdom

**Dakujem**  
Slovakia

**Engraziel**  
Switzerland

**Bedankt**  
Netherlands

**Tak**  
Denmark

**Спасибо**  
Russia

**Arigato**  
Japan

**Merci**  
France

**Tesekkür ederim**  
Turkey

