

# Cloud Computing for E-Government

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Course: Clouds, Grid, and Cluster Systems

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# Cloud Computing

- **Cloud computing according to NIST:** a model for enabling convenient, on demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.”
- Public, private, hybrid cloud
- SaaS, PaaS, IaaS

# E-Government

- E-government : the use of ICT in order to improve efficiency and effectiveness, transparency and comparability of financial and information exchanges in the government domain
- Goals:
  - improve and increase providing governmental services
  - empower citizens through access to information and the government's ability to interact and collaborate
  - achieving greater transparency and accountability of government
  - Improvement of internal relationship between the government and the citizens' electronic delivery
- Current existing service: digitization of government records, online tax collection, receive community feedback, information dissemination, collection of data information, conducting elections management

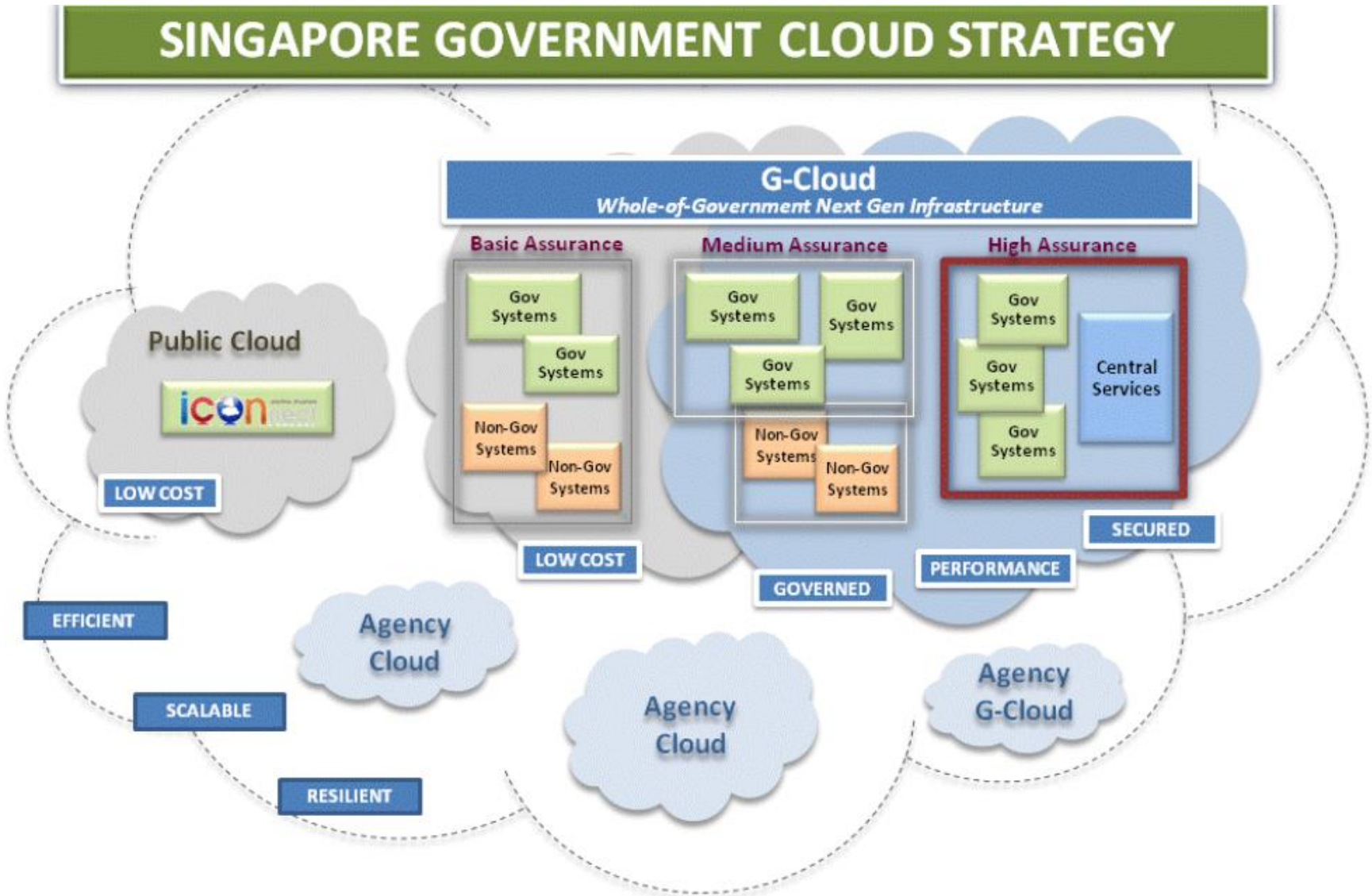
# Benefits of Using Cloud

- Cost Saving
- Data Scaling
- Auditing and Logging
- Performance and Scalability
- Reporting and Intelligence
- Systems Integration and Legacy Software

# Challenges

- Technical
  - Security, interoperability with existing software and hardware platforms
- Economical
  - Keeping cost low, creating reusable applications
- Social
  - Accessibility, usage, acceptance
  - E.q: In the 2012-13 financial year, UK county councils spent nearly £440m in total on IT services, including staffing costs, but just £385,000 of that through the government's "G-Cloud" framework.

# Case Study: Singapore G-Cloud



# References

- Tripathi, A.; Parihar, B., "E-Governance challenges and cloud benefits," *Computer Science and Automation Engineering (CSAE)*, *2011 IEEE International Conference on* , vol.1, no., pp.351,354, 10-12 June 2011
- Sajjad Hashemi, Khalil Monfaredi, Mohammad Masdari. Using Cloud Computing for E-Government: Challenges and Benefits
- Cloud Computing for Singapore Government.  
[https://www.ida.gov.sg/~media/Files/About%20Us/Newsroom/Speeches/2013/1505\\_CloudAsia2013/GCloudFactSheet.pdf](https://www.ida.gov.sg/~media/Files/About%20Us/Newsroom/Speeches/2013/1505_CloudAsia2013/GCloudFactSheet.pdf)
- Councils 'wasting millions' ignoring government IT cloud.  
<http://www.bbc.com/news/business-27618218>

**Thank you**