Cloud Computing

a productivity opportunity - a policy challenge

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Emerging Technology Trends

- Screens Everywhere
- Natural UI
- Pervasive Computing Platform
Our Vision

Create seamless experiences that combine the magic of software with the power of the Internet across a world of devices.
Cloud Computing

Software as a service
Platform as a service
Infrastructure as a service
Governments are challenged to deliver

The Cloud Opportunity

Continuous Cost Reduction

From Capex to Opex

More Efficient and “Greener” ICT Infrastructure

Datacenter efficiency

Increased Citizen Interaction

Time to Market
Government Cloud opportunities

- Transparancy
- Scaling
- Time to market
- Examples
  - Recovery.gov
  - Miami311
  - Eyeonearth
  - lgcsb
Hosted on Windows Azure and using SQL Azure for related data storage, Eye On Earth receives data sent by the EEA from all over Europe, as well as a computational air model developed by the DLR and processed using a Linux cluster.

EEA SQL Azure collects air and water data from all over Europe.

WCF Web Services

CSV

GeoRSS

DLR Linux Cluster generates air model data.

Air Station Data

Water Station Data

Entity Framework

Application Services Tier

Worker Roles

Station Measurements Air Model Data

Web Roles

(SMS Aggregator)

Data flows from Region to National to EEA.
Government Cloud Challenges

- Regulatory, political, and risk considerations
  - Connectivity
  - Data protection, privacy, and security
  - Data sovereignty: national versus international
  - Liability, protections, and expectations of operators / cloud providers

**Hackers Said to Breach Gmail Accounts in China**
...Google e-mail accounts of at least two foreign journalists in Beijing have been compromised...
- NYT, 1/18/10

**Google on Trial Over Video**
...official could face up to three years in jail, after prosecutors in Italy arrested him...
- Guardian 2/3/09
Thank You

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