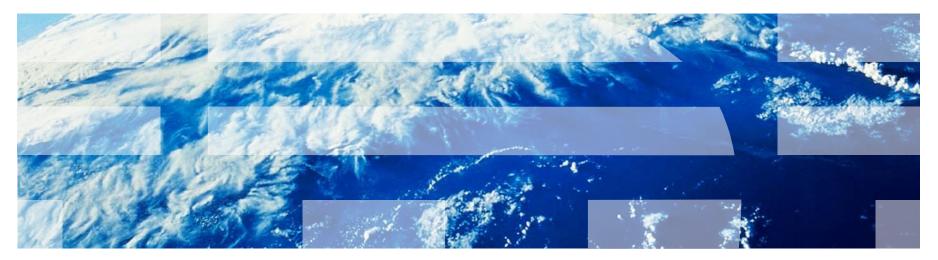


Smarter Cloud for Smarter Government

David L. Cohn Director, Business Informatics IBM Research

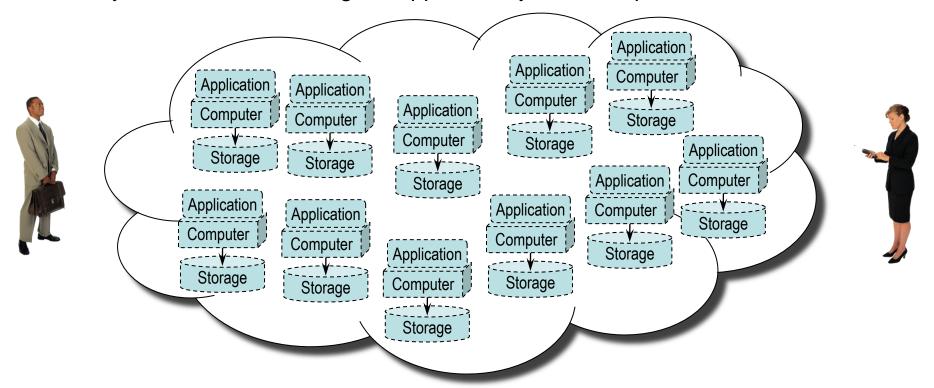




Cloud Computing

IT delivery leveraging economies of scale for efficiency & ease of use

- Classic computing locates hardware & data on clients' sites
- Cloud creates off-site virtual images of both for improved efficiency
 - Many standard virtual images support many clients & provide scale

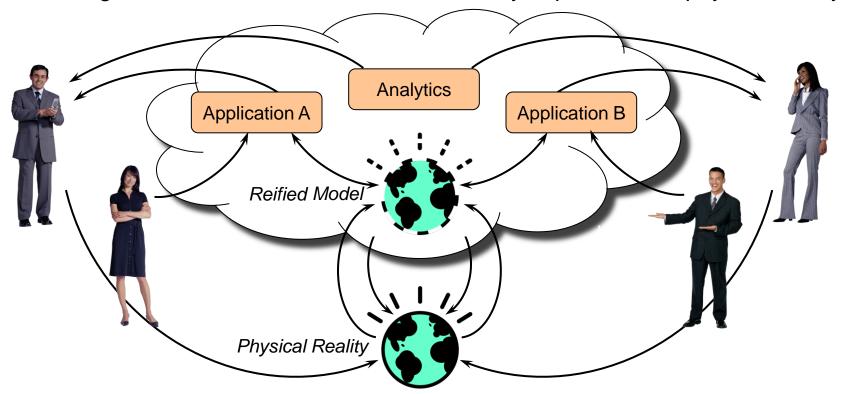




Smarter Cloud

Going beyond cloud's efficiency & Smarter Planet's effectiveness

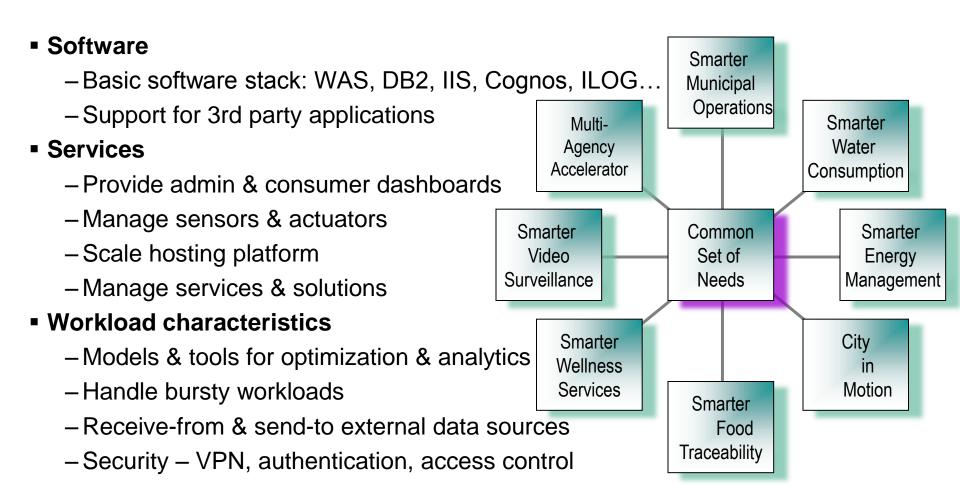
- Smarter Planet physical reality that is *Instrumented*, *Interconnected* & *Intelligent*
- Smarter Cloud uses information model to be Inclusive, Insightful & Impactful
 - Providing a *reified model* that substitutes for key aspects of the physical reality





Smarter Cities Cloud Platform

Smarter Government needs provide basis for IBM's Smarter Cloud platform

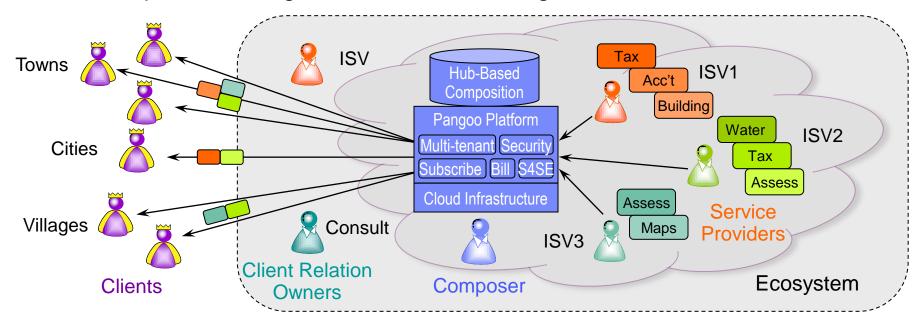




Pangoo

Demonstrating Smarter Cloud platform & ecosystem for SMB clients

- Ecosystem includes Composer, Clients, Providers & Client Relation Owners
 - Smarter Cloud allows integration of independent services
 - -Local governments using Pangoo to encourage software development
 - -Telcos, post office & governments considering CRO roles





Smarter Sustainable Dubuque

IBM & Dubuque, Iowa motivating citizens through Smarter Cloud insight

Partnership

- IBM Smarter Cloud service
- City of Dubuque incentives to conserve
- Dubuque 2.0 community engagement
- Volunteers conservation

Initial projects

- Water
- Energy
- City-in-Motion

Water conservation experiment

- Volunteer interaction & competitions
- -City & businesses help w/ costs
- Assess use of information, insight, incentives







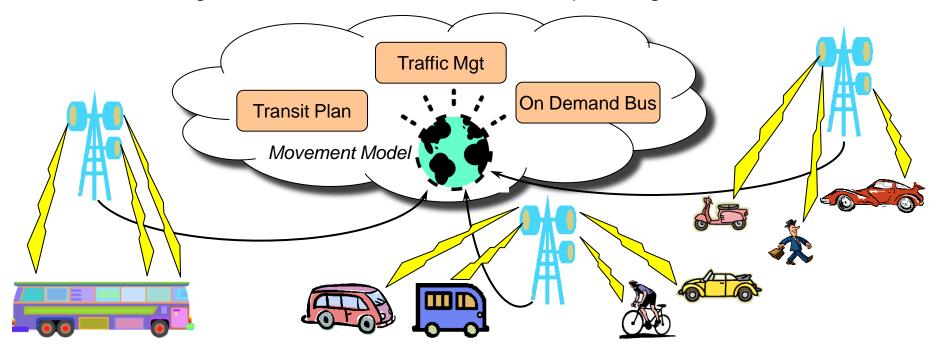




City-in-Motion

Real-time citywide people movement data creates reified movement model

- Transit systems do not serve today's city needs
 - Need to improve planning, incent behavior change, respond on demand
- Cell phone movements reveal how & where people go
 - Basis for long-term, short-term & instantaneous planning & simulation

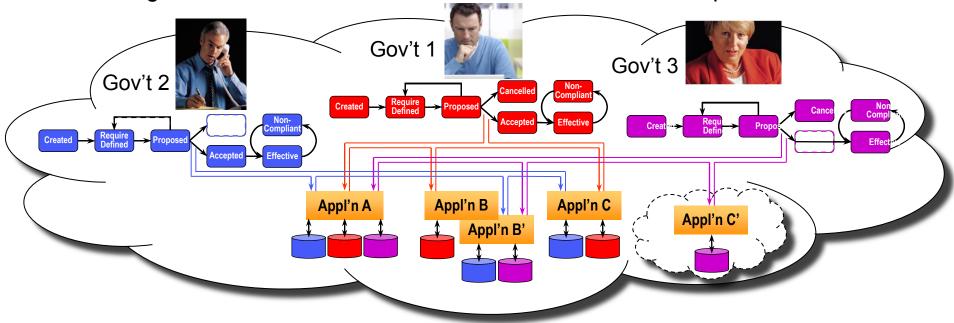




Solution Templates

Smarter Cloud client-specific solutions can be built from standard elements

- Smarter Cloud solutions will span "siloed" organizations & applications
 - Templates will define common structured useful to many clients
 - Standard elements for efficiency; *variations* for client-specific needs
- Delivery of social services provides early example
 - -Local governments each deliver services, but each has unique rules





Smarter Cloud for Smarter Government Perhaps the next "IT revolution" will be led by Smarter Government

- Transparency through insight provided by reified model
 - Management can more easily monitor what is happening
 - Workers will have clearer view of jobs know more than they need to know
 - Citizens will understand and better support government
- Collaboration service sharing between government agencies
 - Similar solutions for similar problems at lower cost
 - Ability to identify & encourage best practices
- Business Model ecosystem will create new roles
 - Support for government operations becomes a global business
 - First-mover opportunities
- Other industries government can become a leader of change
 - Difficult problems encourage new approaches and success sharing
 - Underlying technology & business model will work in all industries