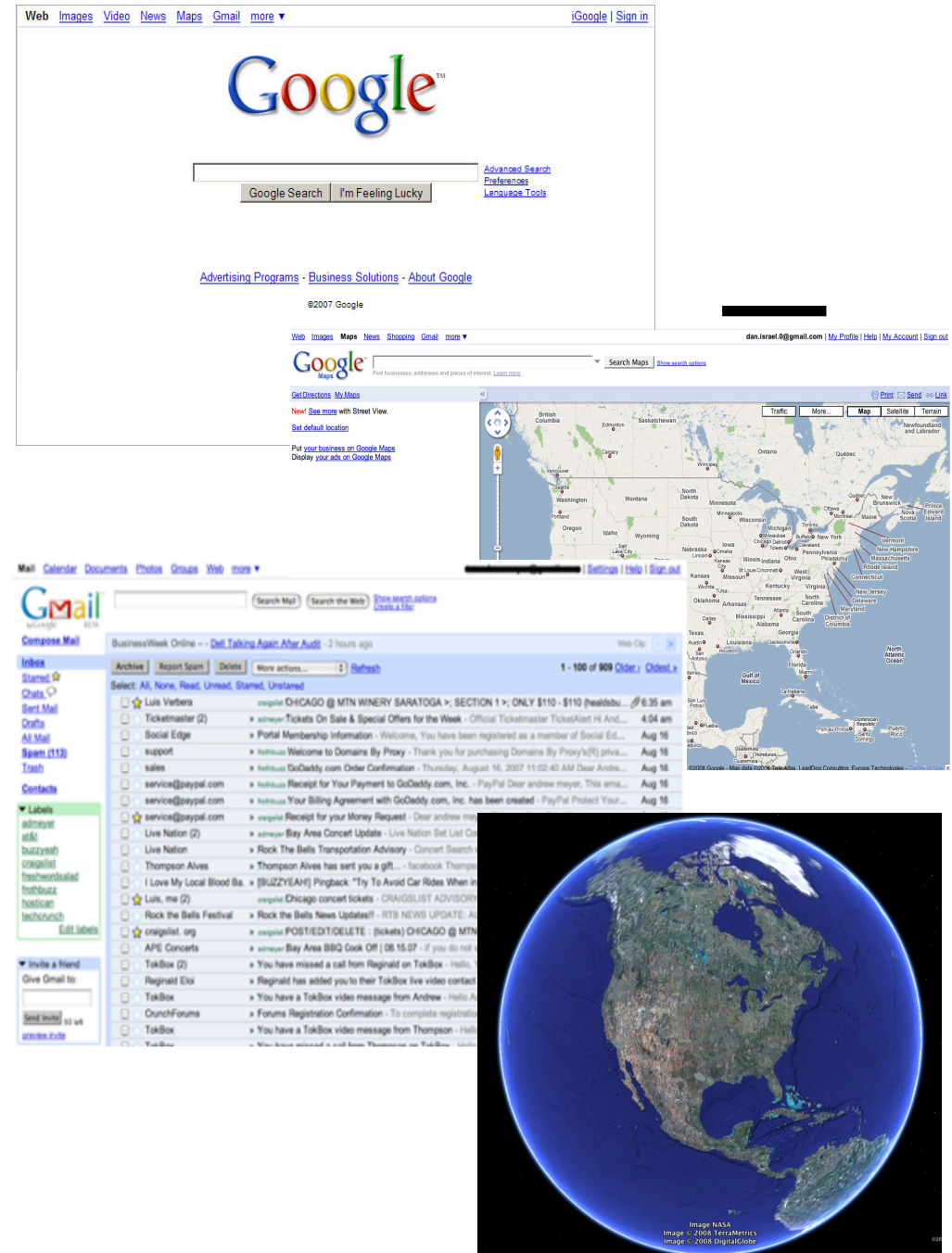# Google™

Future of e-Government

Google Products

- Hundreds of millions of searches each <u>day</u>
  - The world's largest search index
  - Every 4 hours we index and add or refresh as much data as is in the entire US Library of Congress.

- 13 hours of video uploaded to YouTube each <u>minute</u>

- #1 mapping site in the world

- Tens of millions of users rely on Google for email service, spam filtering, and anti-virus

- Over 400 million downloads of Google Earth

Google: The Company

- More than 20,000 employees

- Billions of dollars invested in R&D annually

- The world's 4th largest manufacturer of servers

- Dozens of datacenters

Google Enterprise

Develop innovative user-centric technology for businesses

Backed by Google's core research and development
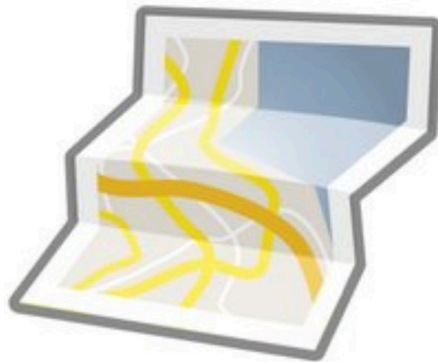
One of Google's core businesses

20,000+ active search customers

3,000+ business sign up for Google Apps daily

Search

Maps & Earth

Postini

Apps

*Current Issues Facing Government IT

Demand for Increased Transparency

Open Up Government to its Citizens:
Use cutting-edge technologies to create a new level of transparency, accountability, and participation for America's citizens.

- Change.gov

"What will you do to establish transparency and safeguards against waste with the rest of the Wall Street bailout money?"
Diane, New Jersy

"Will you lift the ban on Stem Cell research in your first 100 days in office?"
James_M, Nashville, TN

"What will you do to promote science and mathematics education to Elementary and Middle School students?"
JasonWyatt, Raleigh, NC

NEWSROOM: BLOG

Inside the Transition: Health Care

Thursday, December 4, 2008 02:36pm EST / Posted by Dave Rochelson

Since we opened up our discussion on health care a week ago, thousands of people have shared their stories, experiences, and ideas -- best of all, people have responded to one another, taking the conversation in new and interesting directions.

It's exactly the kind of participation we were hoping for, and that we're counting on. It's what the Transition is all about.

The interest in the subject is clearly intense, so we sat in on a meeting of the Transition's Health Policy Team to introduce you to some of the team's members and give you a feel for how they make decisions.

Senator Tom Daschle, the leader of the Health Policy Team, sat down to tell us how he plans to tackle health care and his future plans for opening up the process further.
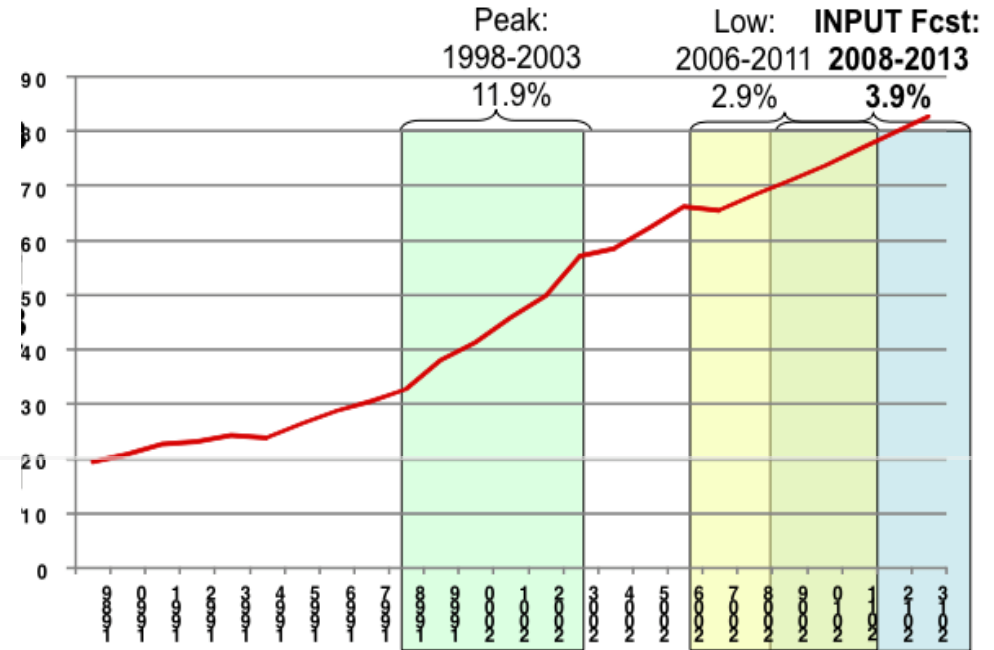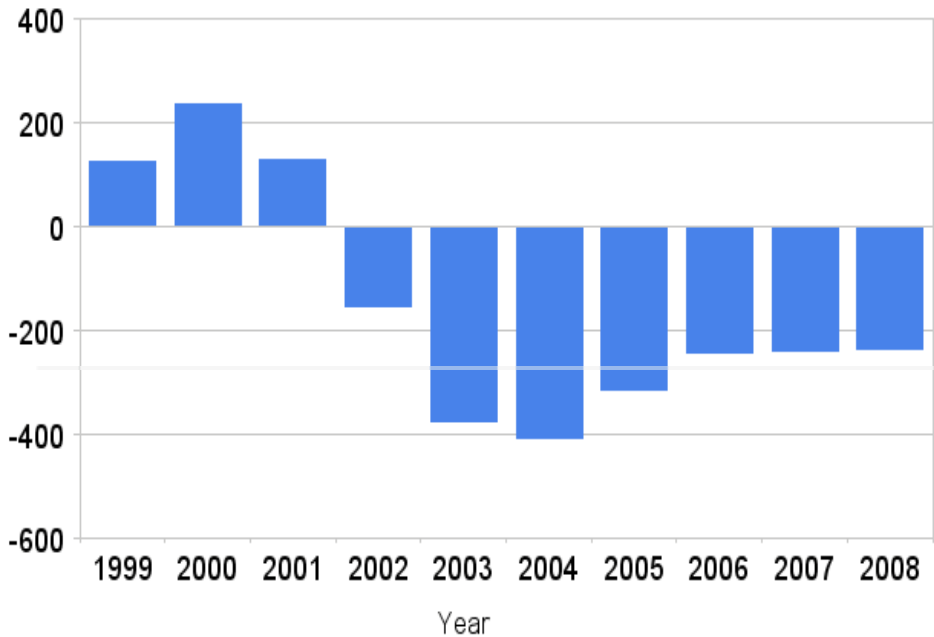
Watch the video below.

Budget Deficits; IT Spending Slowing

Federal Budget 1999 - 2008

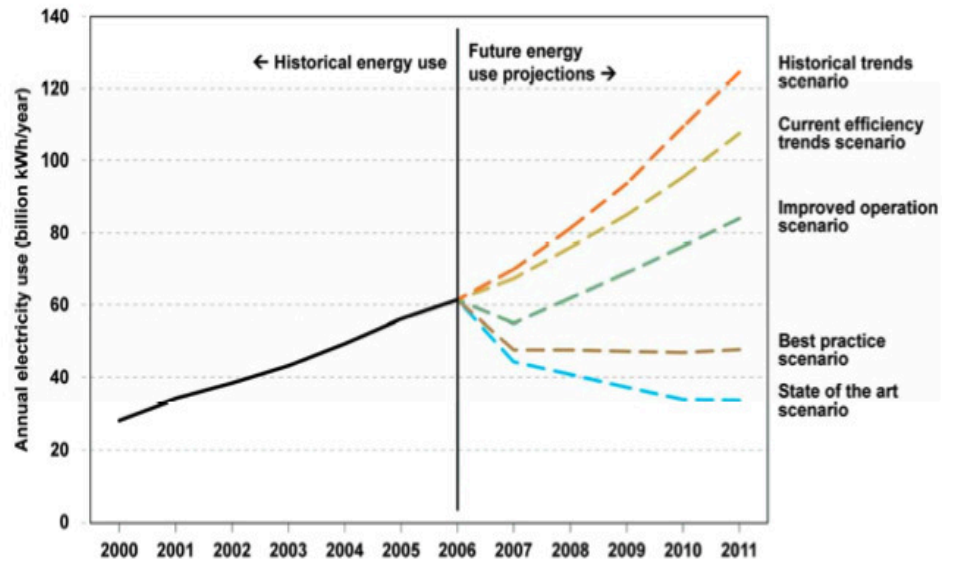Peak: 1998-2003 11.9% Low: 2006-2011 2.9% INPUT Fcst: 2008-2013 3.9%

"Agencies have spent billions of dollars on developing systems and processes that are not cost effective, fail to deliver expected results, and do not provide the best solutions to agencies' needs."

- GAO, 2009 Transition website

Reduce Energy Consumption

- Presidential Executive Order, Jan. 2007: "The head of each agency shall: (a) improve energy efficiency and reduce greenhouse gas emissions of the agency, through reduction of energy intensity by (i) 3 percent annually through the end of fiscal year 2015."

- HR 5646, Dec. 2006 - "it is in the United States' best interest for purchasers of computer servers to give high priority to energy efficiency."
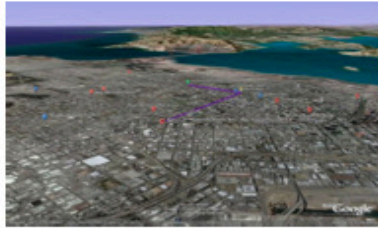

Energy Usage by Data Centers
(Source: EPA)

"Federal servers and data centers alone account for...a total electricity cost of about $450M annually."
- EPA report to Congress, Aug. 2007

Employees Have Powerful Technology at Home

The Future End User

Today's "Cyber Teenager" – Tomorrow's City Employee/Constituent

Workstation
P4 3.2ghz
Broadband

Cell/Camera
Phone Web/IM

Network Playstation 2
Multiplayer Tactical
Trainer

Alienware
Wireless Laptop
Massively Multiplayer Gaming/
Immersive Virtual
Environments
Voice over IP

Video Conferencing
WebCam

Federated Search
Personalized News

Reputation
Management (EBay)

Collaboration
(Netmeeting)

Wireless PDA
Email

TIVO PVR
80 Hrs
DirectTV Sat
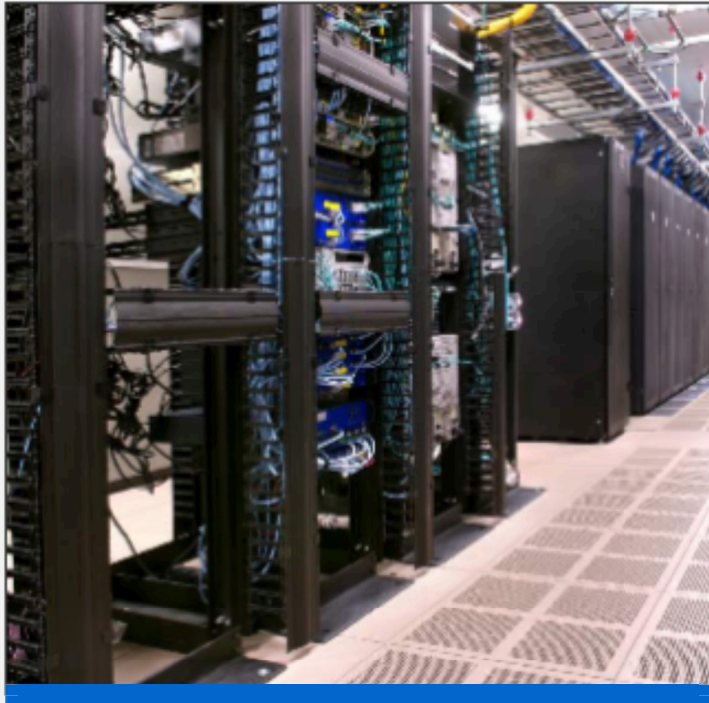
MP3 Player
Portable Digital
Library

The Big Switch

- "Today, a similar revolution is under way. Hooked up to the Internet's global computing grid, massive information-processing plants have begun pumping data and software code into our homes and businesses. This time, it's computing that's turning into a utility.

- Cheap utility supplied computing will ultimately change society as profoundly as cheap electricity did."
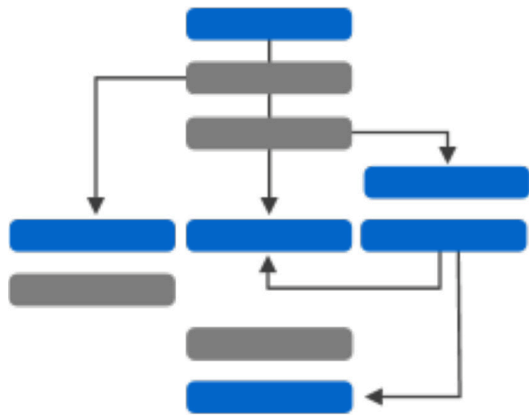
Google

Where's the Best Place For My Data?

Company Servers

In the Cloud

Why is Security So Tough?

Data Problem: Users want to access their data anytime, from anywhere

60%

of corporate data resides unprotected on PC desktops and laptops
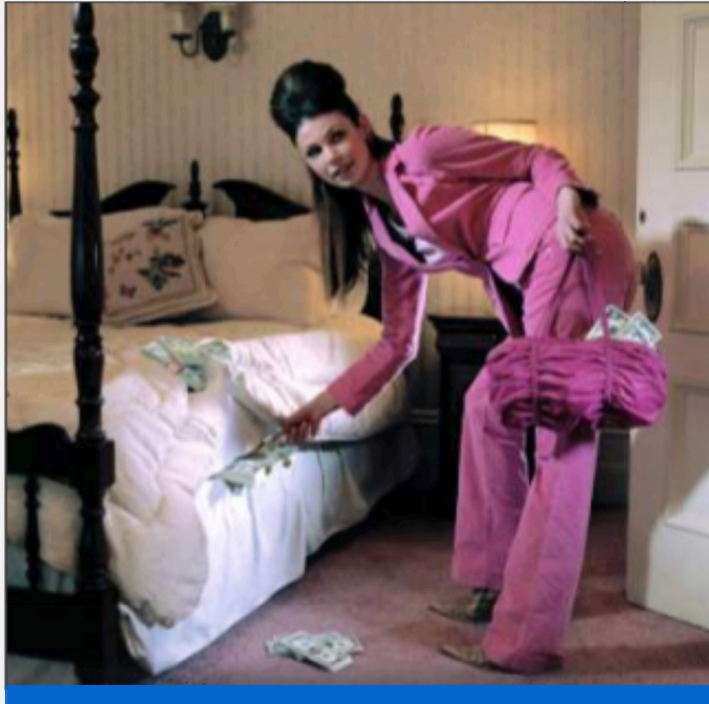
1-out-of-10

laptop computers will be stolen within 12 months of purchase

66%

of USB thumb drive owners report losing them, over 60% with private corporate data on them

Starting the Revolution

Then

Now

Cost Advantages of SaaS only Increase

Stanford 1999

Council Bluffs 2009

Storage
Capacity

2002   2003   2004   2005   2006   2007   2008   2009   2010   2011   2012
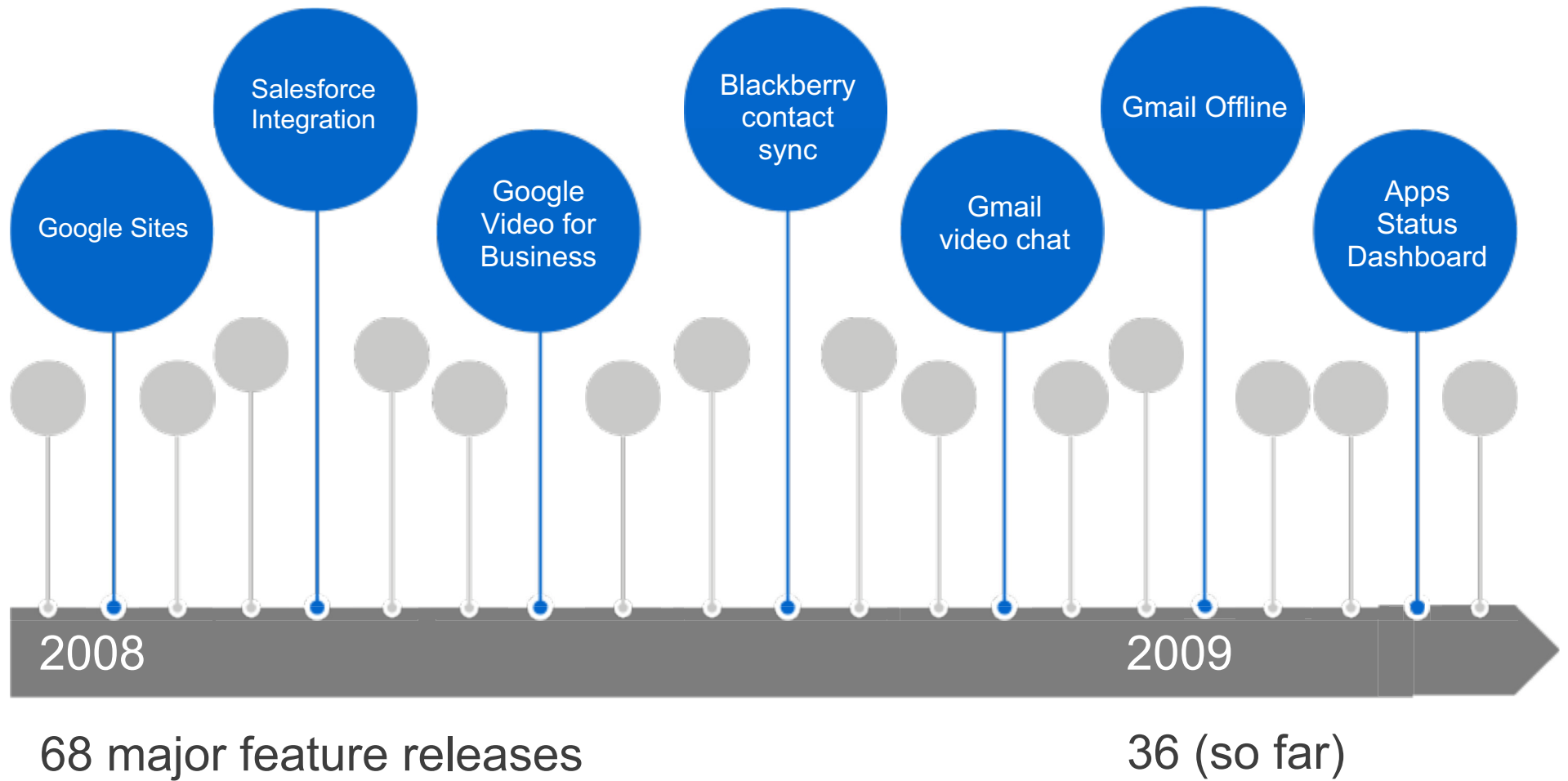
Messaging and collaboration are better in the cloud

1. Less than 1/3 the cost of on-premise messaging systems

2. No hardware or software to maintain

3. More reliable and secure

4. Better user experience

By 2012, **20% of enterprise e-mail seats** will use a software as a service (SaaS) or "cloud" model for e-mail services (Gartner, May 2009)

Google

Continuous Innovation in the Cloud

Salesforce Integration

Google Sites

Google Video for Business

Blackberry contact sync

Gmail video chat

Gmail Offline

Apps Status Dashboard

2008

2009

68 major feature releases

36 (so far)

Why run horizontal applications like email yourself?

We'll take care of email so you can focus on projects that add value to your business

Google

Selected State Customers

DC Government and the Cloud

"Why should I spend millions on enterprise apps when I can do it at one-tenth cost and ten times the speed? It's a win-win for me."

Vivek Kundra – Chief Technology Officer,
District of Columbia

How DC uses the Cloud

- A new approach to [sharing information on large procurements](#)

- [Filling Job Vacancies](#) the Web 2.0 way

- [CapStat](#): Mapping the City's Data and making it easy for citizens to access and understand

- [New Intranet page](#) with enhanced search capabilities across multiple government data repositories

Google For Government

Information Sharing

Google Enterprise

More Informed/ Engaged Citizens

Search Management Framework

Infrastructure Consolidation

Increased Employee Productivity

Mapping/Geo

Reduced Cost and IT Complexity

Security

Messaging & Collaboration

80% of IT Dollars are "Dead Money"

Reduced Security and Compliance Risk

postini

Security and Compliance Communications

Google Apps

Messaging	Collaboration	Security	Compliance

Google Apps Platform

Give employees powerful messaging and collaboration tools
without the usual IT hassle and cost