

accenture

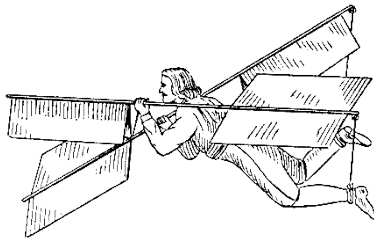


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## Power Shift

8 trends that will reshape the technology landscape

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Chief Scientist, Accenture



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# A lot happened in the last 12 months

**Market Caps (01/08)**

Apple	\$176B
IBM	\$147B
Intel	\$146B

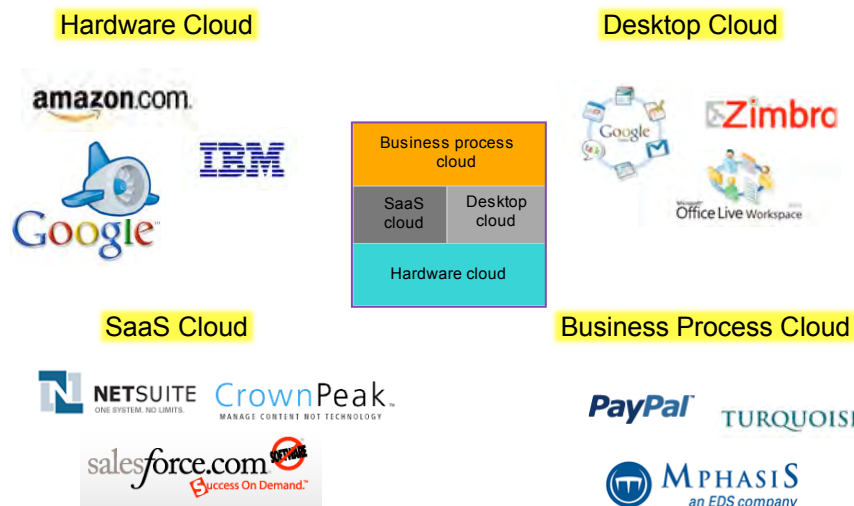
# Power Shift ... from Technology to People

## 8 critical trends

1. Cloud computing & SaaS
2. Systems – Regular & Lite
3. Enterprise intelligence at scale
4. Continuous access
5. Social computing
6. User-generated content
7. Industrialization of SW development
8. Green computing






## 1. Cloud Computing



## Cloud Computing - Issues



- Data Location  SaaS Dominated Clouds  
DB as a Service
- Privacy & Security  Gated-community clouds
- Performance  Ecosystem Clouds

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## 2. Systems – Regular & Lite



- | <u>Regular</u>                             | <u>Lite</u>                                                 |
|--------------------------------------------|-------------------------------------------------------------|
| • Back-end apps                            | • End-user apps                                             |
| • SOA as the integration paradigm          | • Mashups as the integration paradigm                       |
| • Small number of apps, maintained by CIOs | • Large number of User (or User-group) created – shadow IT? |

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## Lite Systems – Enablers



- REST is a lighter protocol for inter-operability & data extraction
  - Easier to use, 6 to 10 times faster
  - Supported by Yahoo, eBay, Amazon, del.ici.ous, Facebook, Salesforce, J2EE 5.0, Oracle and many open source software
- Mashups are a way of combining data from multiple sources
  - Originated as a way of aggregating RSS feeds
  - Today: 2500+ Mashups, MDE environments (Yahoo Pipes, Microsoft Popfly), Enterprise Mashups (JackBe, IBM, Duet)
- Widgets and Gadgets are light-weight desktop UIs that continually update some data
  - Yahoo, Google, Microsoft, Apple and others
  - 1000s of widgets exist

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## Widgets



Steve Jobs  
CEO, Apple

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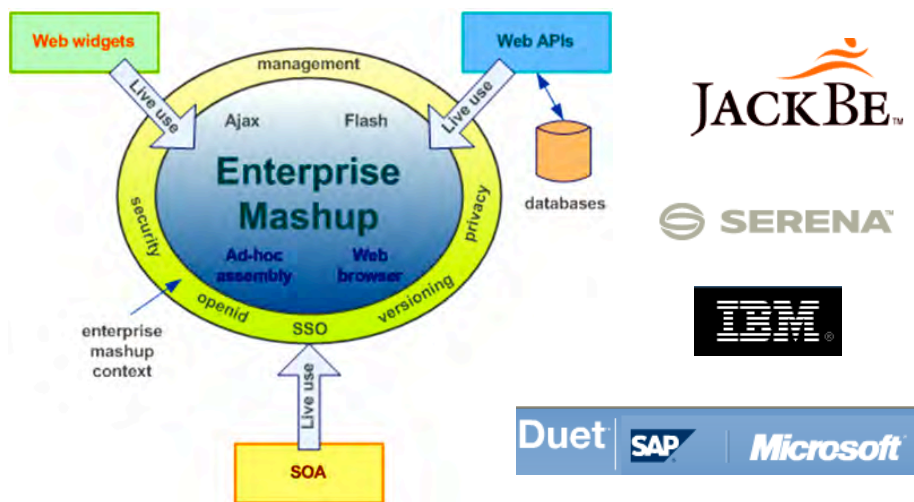
## Lite Systems



Eric Schmidt  
CEO, Google

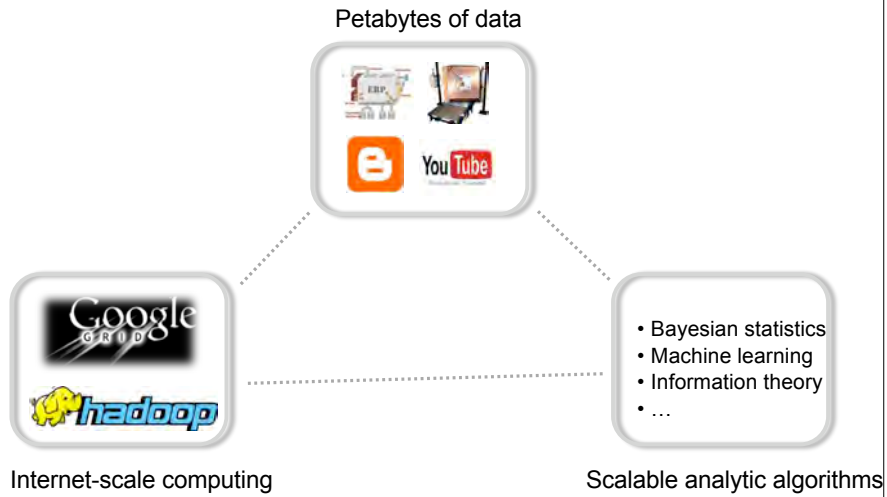
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## Enterprise Mashups are maturing...

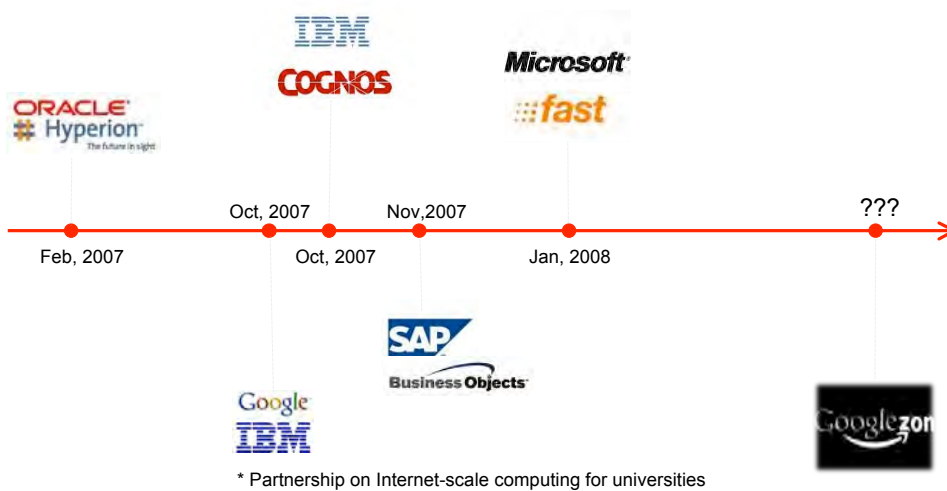


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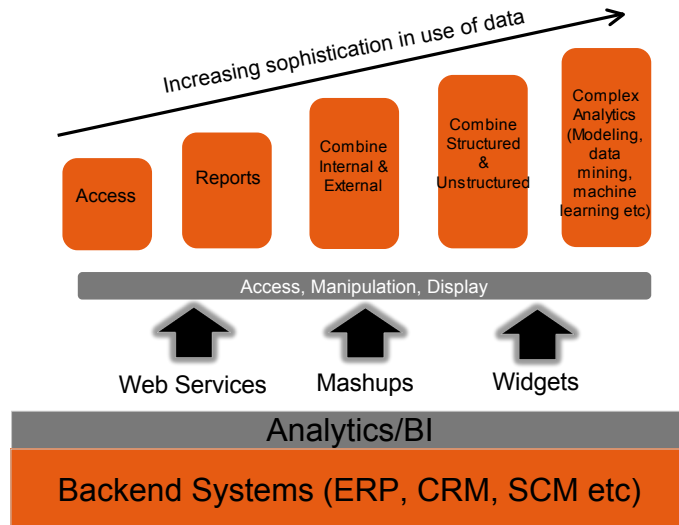
### 3. Enterprise intelligence at scale



### What's new?



## Enterprise Intelligence at scale - rampant use of data



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## 4. Continuous access to people and information

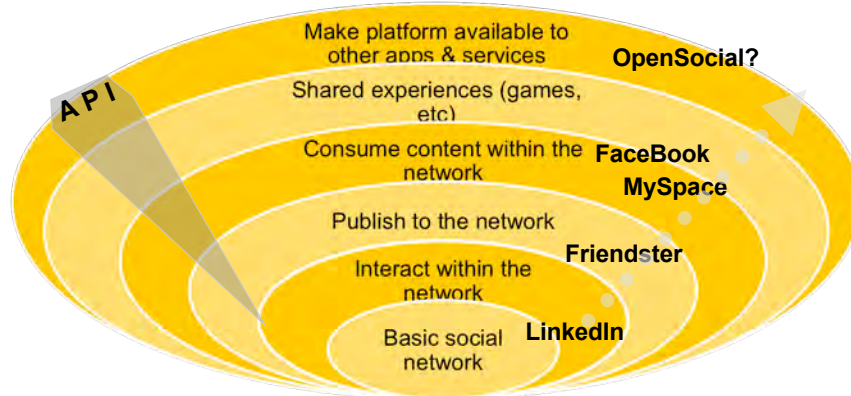


- Mobile devices become “first class” IT objects
- Location-based services
- No concept of an enterprise desktop?

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## 5. Social Computing - Amplify the power of people & communities



- Three major SNS directions
  - Platformization , inter-operability, identity management

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## Her Majesty's Revenue through Facebook?

The screenshot shows the Facebook sign-up interface. On the left is the login section with fields for Email and Password, a 'Remember me' checkbox, and a 'Login' button. The main area contains a sign-up form with the following fields:

- Full Name: [text input]
- I am: [dropdown menu with options: in college/graduate school, at a company, in high school, none of the above]
- I am: Select Sex: [dropdown menu]
- Date of Birth: Month: [dropdown], Day: [dropdown], Year: [dropdown]

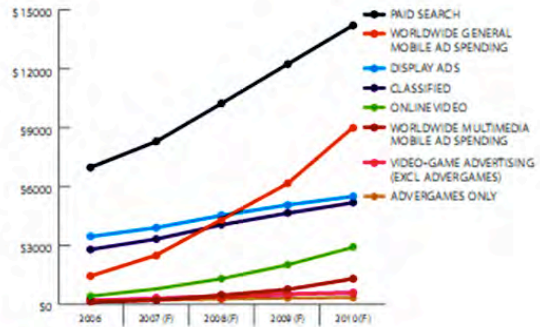
A red oval highlights an advertisement for HM Revenue & Customs, titled "Sign up and use Tax Refund Calculator on Facebook". The ad text reads: "Join Facebook to connect with your friends and use the Tax Refund Calculator application. Fill out the form below to get started (all fields are required to sign up)." The HM Revenue & Customs logo is also visible.

## 6. User-generated content



- New forms of CRM
- New forms of expression & entertainment
- Revenue erosion of traditional media companies

### GROWTH IN DIGITAL ADVERTISING US\$ Million



Source: eMarketer

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## ... but also new types of tax advice

**2007 Limited Liability Company Return of Income 568**

For calendar year 2007 or fiscal year beginning month: day year and ending month: day year

1 Total income from Limited Liability Company income Worksheet. See instructions.

2 Limited Liability Company fee. See instructions.

3 2007 annual Limited Liability Company fee. See instructions.

4 Nonexempt nonresident members' fee liability from Schedule T (568-1).

5 Total fee and fee. Add line 2, line 3, and line 4.

6 Amount paid with form PFD-2007 and 2007 form PFD-2002.

7 Dispayment from prior year allowed as a credit.

8 Nonresident Withholding Credit. See instructions.

Whole dollars only

## New types of expression?



## New genres of entertainment ...



## 7. Industrialization of software development



### Converging trends will ease integration:

- Predictive Metrics
- Model-driven development
- Service-oriented architecture
- Agile development & Forever Beta



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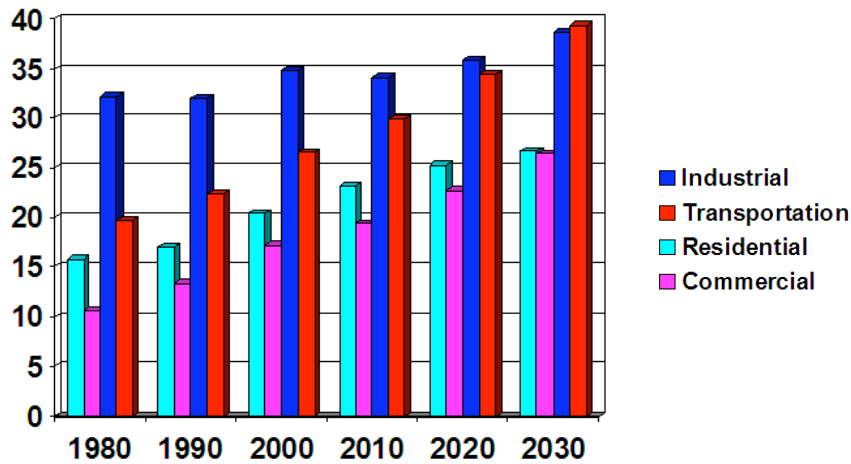
## 8. Green computing



- Global warming
- Energy prices
- Consumer pressure
- Compliance
- Valuation

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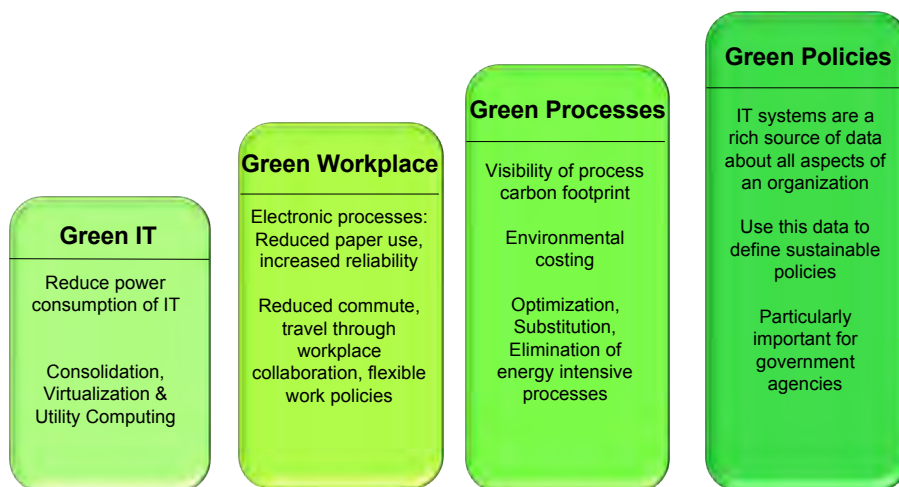
## Green computing – aimed at reducing energy across major energy sinks



Source: Energy Information Administration, Annual Energy Outlook 2007

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## Carbon vs. Silicon: Replace energy-intensive processes with information-based processes



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Did you know?

