



**NATIONAL
CONFERENCE
ON e-GOVERNANCE**
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Leveraging emerging Technologies Social, Mobility, Analytics & Cloud (SMAC)

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Mobility
Devices

Cloud

Social

Connected

Data
Explosion

Time

The world has changed and is changing...

Four megatrends – impacting today & tomorrow...

Mobility

- 51 M¹ Smartphone Users in urban India today.
- 400 M² Smartphone Users estimated in India by 2016.
- Tablets in India are expected to double this year to 6 M³.

Social


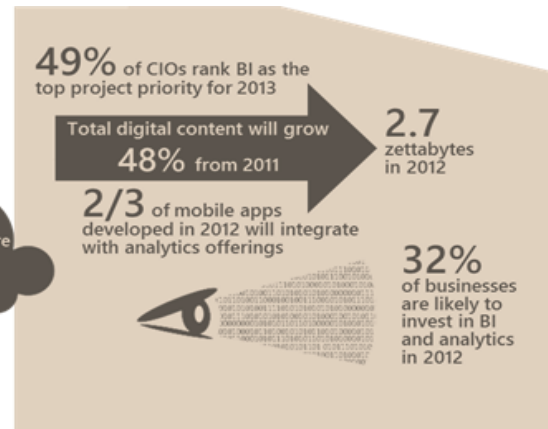
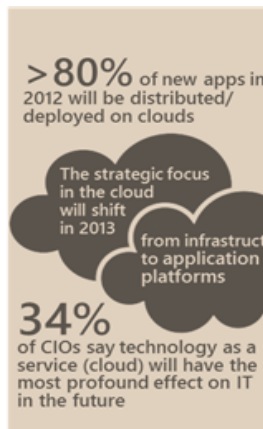
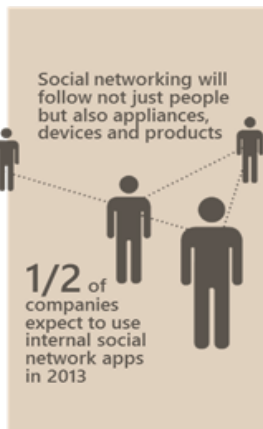
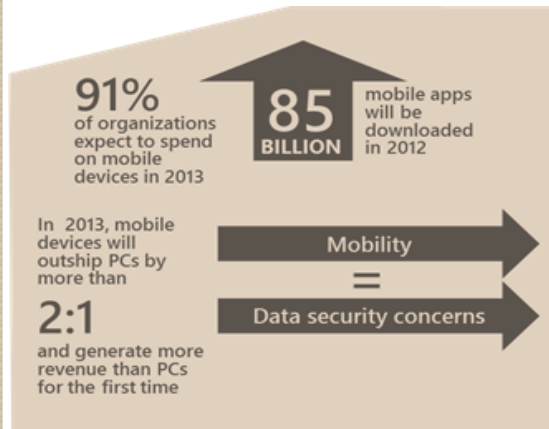
- India poised to overtake US as Facebook's No 1⁴ market.
- Facebook India's mobile user base swells to 62 M⁵

Cloud

- India now has nearly 74 million Internet users.
- Total Amount of digital information in the world is growing by 10X every 5 years.

Big data

The Cloud is the enabling force for all these trends

¹<http://timesofindia.indiatimes.com/business/india-business/Teens-drive-Indian-smartphone-sales-study-finds/articleshow/22406572.cms>

²http://articles.economicstimes.indiatimes.com/2013-11-25/news/44450079_1_mobile-apps-smartphone-users-62-9-million-units

³<http://in.reuters.com/article/2013/01/04/india-tablet-pc-computers-forecast-idINDEE90306S20130104>

⁴<http://www.firstpost.com/tech/india-poised-to-overtake-us-as-facebooks-no-1-market-1250059.html>

⁵http://articles.timesofindia.indiatimes.com/2013-08-14/social-media/41409040_1_facebook-india-platform-facebook-feature-phones



Mobility

Mobility in Government



Transform operations and infrastructure

Leveraging power of the cloud and reducing costs, governments aspire to increase efficiencies in a transformative way

Engage citizens and government employees

Personalizing services and apps and enabling two-way dialogue via social media will allow governments to engage citizens and employees in a more productive, meaningful way

Accelerate innovation and opportunity

Use modern day technology as a catalyst to accelerate economic development

**Every one,
a consumer**

**Every one,
a sensor**

**Anywhere,
Anytime**

**Real-Time
Data Flow**

Collaboration

Flexibility



Illustrative Use Cases

LoB applications on portable devices

Collaboration

m-Governance

Patient Monitoring & Wellness



Social

Social in Government

Rise of the social consumer

44% of consumers **complain** via social media



20% expect a **response** within one hour via social media



Always on -- Consumers use an average of **4** **devices** every day



Changes how we work

65% of companies are deploying at least one **social software** tool



90% companies using social technologies that report **business benefit** from them



Transparency

Citizen Engagement

Citizen Involvement

Grievance Management

Emergency Response

Moderated Self Help Groups

Capture Community Feedback and Interest



The screenshot shows a web browser displaying the "CP&L Community" page. The page has a navigation bar with "Local", "Regional", and "National" tabs. Below the navigation is a search bar and a "SHARE" button. The main content area is titled "CP&L Community" and includes a welcome message: "Welcome to the Community. We want to hear from you. Ask a question. Share your thoughts." There are several discussion threads, each with a title, a brief description, and a "new discussion" button. A callout box points to the "new discussion" button with the text "Ask questions and contribute to discussions". Another callout box points to the top of the discussion list with the text "See the most recent discussions". A third callout box points to the "What's happening" section with the text "Understand how large and active the community is". A fourth callout box points to the "Top contributors" section with the text "See Top Contributors".

Benefits

- Crowdsource to surface new ideas
- Encourage citizen feedback and engagement




Use new social tools to increase community participation


Create Community Sites for two-way interaction, including citizen feedback and suggestions on upcoming legislation or government proposals.

Citizens can use Community Sites to search for existing knowledge and talk to people who have interesting information to share.

Illustrative Use Cases

 **Delhi Traffic Police**
January 9

ROAD SAFETY WALK
12 - 1-2014



Like · Comment · Share 6

Manjit Tomar, Manoj Garg, Surender Kumar and 39 others like this.

Citizen Engagement

2 way interaction with citizens creating awareness and provide information on Govt initiatives.

Decision making

Referendum, law enforcement, public opinion, scheme monitoring etc.

 **Delhi Traffic Police**
January 8

The following vehicles/owners have been prosecuted by issuing notice on the basis of photographs on dated 07/01/2014

DL3CBR 0301 - 17974453

Like · Comment 1

Prince Sharma, Ravi Agrawal, Amit Jain and 22 others like this.

 **Mehtab Khan** KEEP IT UP.....
January 9 at 5:26am

Talent Management

Provide social platforms within government for employees to showcase their talents and expertise for use within govt and for citizen services..



Big Data & Analytics

Analytics in Government

Immersive insights,
wherever you are



Connecting with
the world's data



Any data,
any size,
anywhere



**Better outcomes
with available
resources**

**Changing
demographics**

**Data
explosion**

**IT to self-
service**

Illustrative Use Cases

Traffic flow optimization
Weather forecasting
IT infrastructure optimization
Natural resource exploration
Fraud detection
Social network monitoring
Web app optimization
Taxation Revenues



“Government in **Italy** follows people's lifestyle, travel and spending pattern so as to track those who could be evading taxes using Analytics”

Managed self-service BI

Deliver BI on your terms

“Physicians finally have an easy way of accessing data on the various devices and hospital recommendations on which device is best suited for a given patient and clinical scenario. This helps physicians maintain their focus where they want it to be—on giving their patients the best care possible.”

Dr. Richard Lemon, Orthopedic Surgeon

Meriter Hospital

The information I need is right in front of me on the SharePoint dashboard. Instead of trying to figure out what the problems are, my job has become trying to figure out the solutions.

Jennifer Sanders
Assistant Director of Nursing,
Texas Children’s Hospital

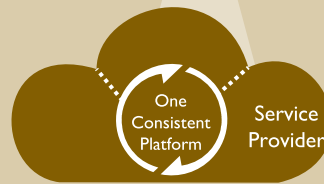


Cloud

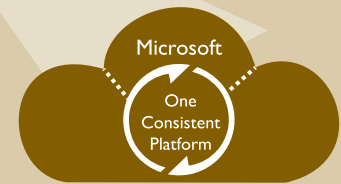
Cloud in Government



Private Cloud



Service Provider Cloud



Public Cloud



National Cloud – Hybrid Model

Improved Agility

Better Economics

Growing Expectations

The role of government

Government cloud framework

Government service registry

Government manages certification process , SLA and commercial requirements

Managed in data centers by Cloud Providers

Leverage economies of scale and innovation of cloud provider

Government sponsored cloud

Hosted in 'trusted partner' datacenter in country

Strong partnership between partner and government

Service registry through service provider

Leverage innovation of service provider while retaining some control

Government as service provider

Transform existing government departments into cloud providers

Hosted in government data centers

Highly secure environment

Necessity to continuously innovate and drive costs down

Health Cloud Scenarios



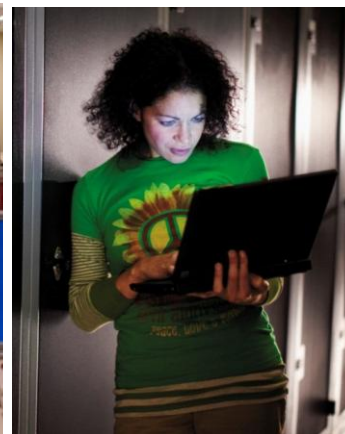
Enterprise Image
Archive



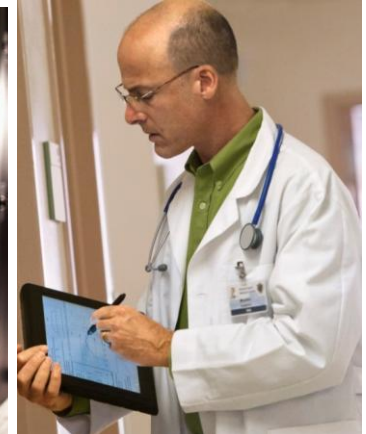
Compliant Storage &
Analytics



Disaster Recovery



Collaboration



Clinical Groupware
and EMR

Illustrative Use Cases

Websites

IaaS & Cloud Storage, PaaS

Payroll Processing

PaaS – processing time reduction, Scalability, Reduce IT infra

Project management

PaaS & Cloud Storage – Processing time reduced, common operating picture across

Government Services

IaaS, PaaS – IT infra consolidation, improved efficiency, better service levels, reduced administration costs.

Rapid Replication

SaaS – Reduce development costs. Quickly replicate LoB Applications across states, AppStore.



Real Impact for Better ~~Efficiency~~ **Productivity**.