TATA CONSULTANCY SERVICES Experience certainty.

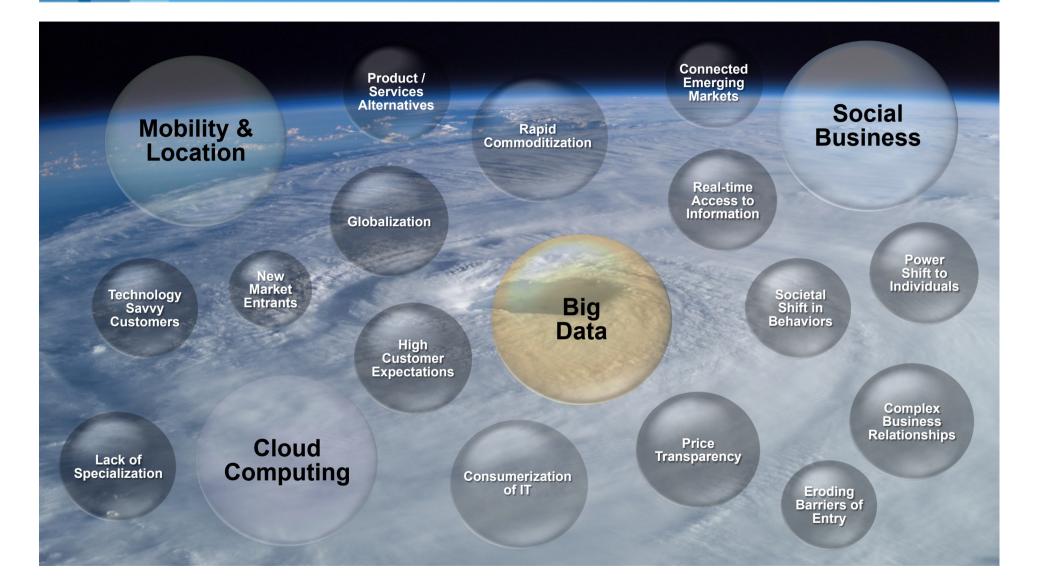


> New Opportunities for HPC – Cloud, Analytics, Big Data

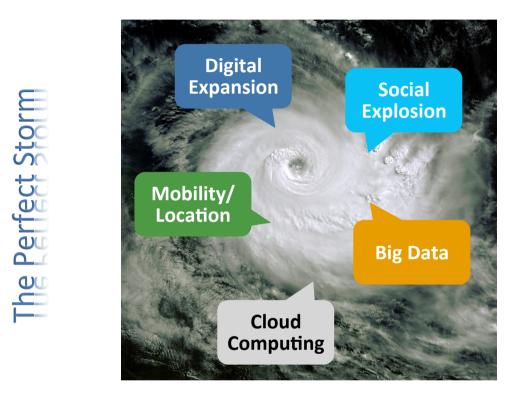
K Ananth Krishnan Chief Technology Officer Tata Consultancy Services Address to Ter@tec, June 27, 2012

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## An Era of Business and Technology Disruption...



## ... Creates Opportunities for Holistic Digital Strategies



### Analytics enables the "Adaptive Enterprise"



#### **Big Data**

#### **Social Channels**

- Blogs, Wikis, Forums
- Social networking
- Groups
- User profiles
- Ratings, reviews, etc.
- Polls, chat, podcasting
- Audio, video, photos
- Events & calendar
- Private messaging+

#### **Instrumented Channels**

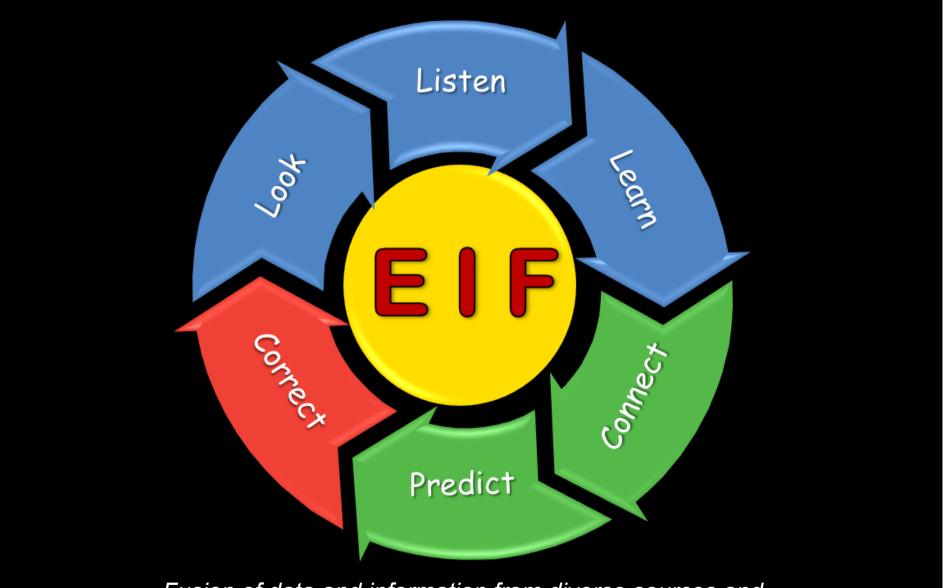
- Smart grid
- Home appliances
- Cars
- Sensors
- Monitors
- Supply chain devices
- Other mobile devices

#### **Mobile Channels**

- Mobile Applications Tablet
- Mobile Applications Smartphone

#### **Other Channels**

- Video / Audio
- DIVERSE and un-harmonized internal and external data



Fusion of data and information from diverse sources and different formats/details to achieve situational awareness and improved predictability

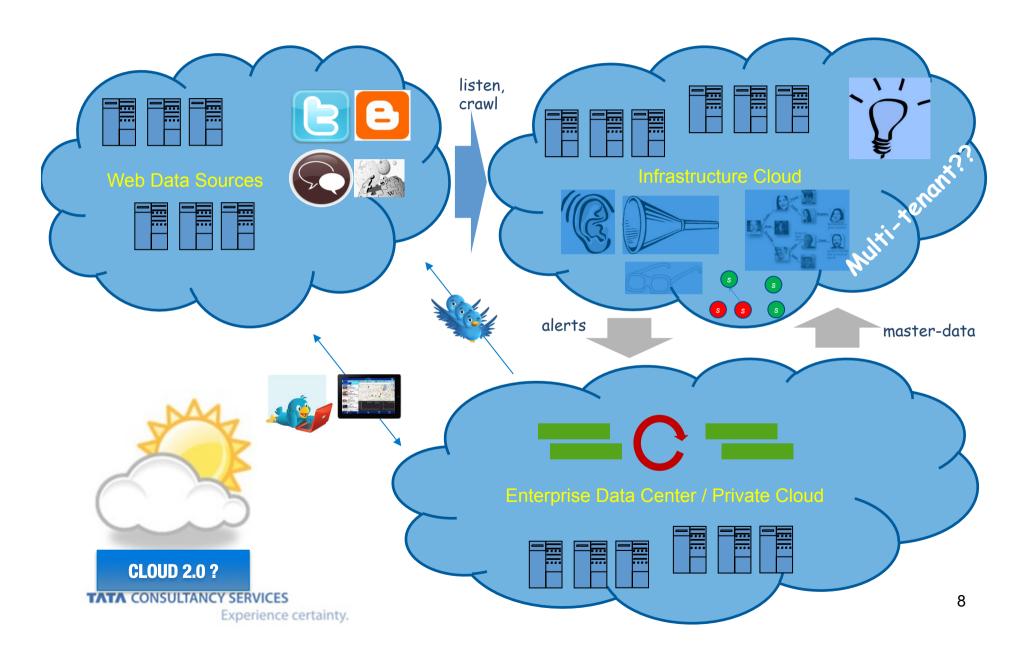
# **Information Fusion Components**



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## Visualization – any time, any where is a key User need

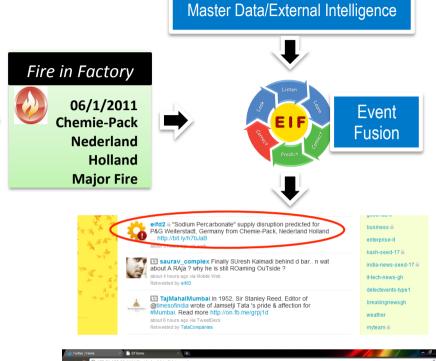
### Back to Web-Scale: Cloud Analytics?



### Events Impacting Operational Efficiency Event Fusion Example (Supply Chains)



- 1. Capture of events of interest from social and news media
- 2. Conversion of multiple external events into single internal event
- 3. Fusion of the event with internal information or intelligence
- 4. Impact analysis through transactional systems





### **Social Business Solutions**

# A suite of "Cloud" based platforms, solutions and services that

Drive superior customer experience and engagement		Create value for customers while generating new revenues			Reduce fixed and variable costs		
Insight Solutions	Customer Intimacy Solutions		Collaborative Solutions			Enterprise Integration	
Analysis of social mentions, conversations, sentiment and feedback	extend brar and deepe	tions to virally ad awareness on customer gement	Platform for knowledge sharing, innovation, customer service, sales enablement, etc.		CRM, WCM and Multichannel Integration Enterprise Data		
Social Analytics							

## Fusion of External (Social, News) and Internal (Business) Information

## Exploiting AI Techniques for Listening, Focusing, and Fusing Information

Leveraging Big Data Platforms & Cloud, and Visualization on Mobiles and Tablets

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