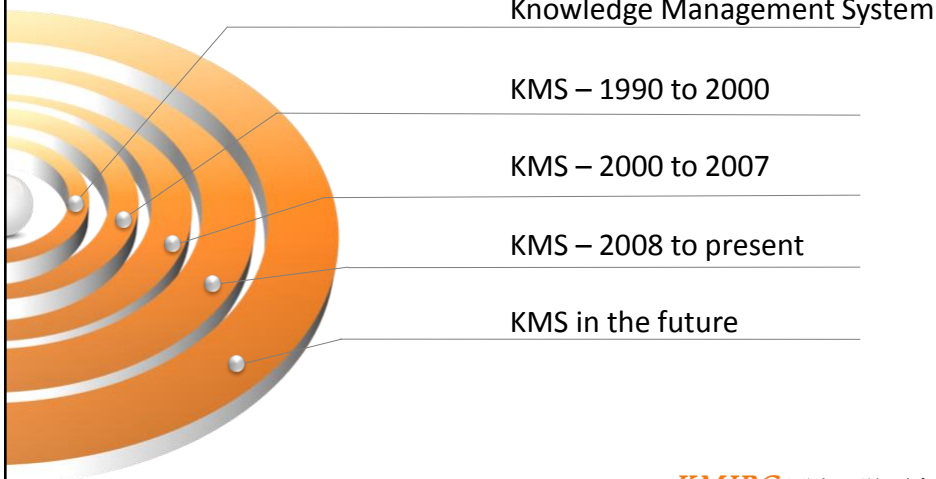


# *From Enterprise Search Engine to Cloud-based Knowledge Services - Tracking a decade's evolution of KM and Innovation tools*



Professor Eric Tsui  
Associate Director  
Knowledge Management & Innovation Research Centre  
The Hong Kong Polytechnic University

## **Presentation Agenda**



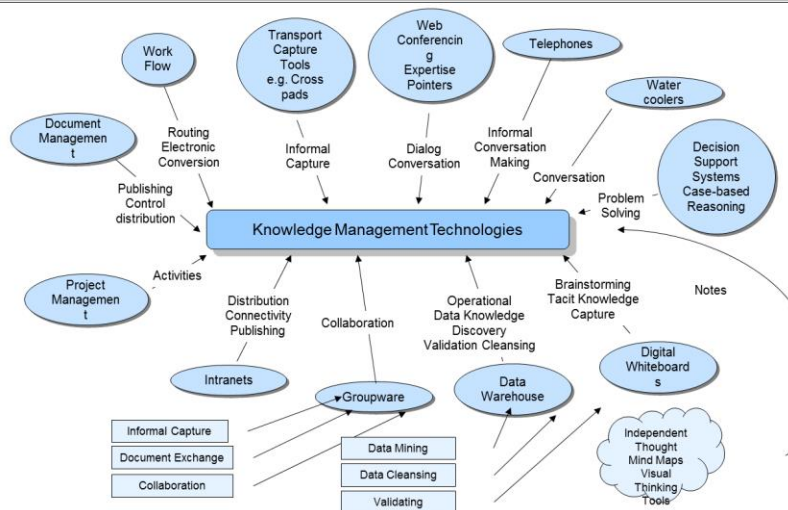
# Knowledge Management System



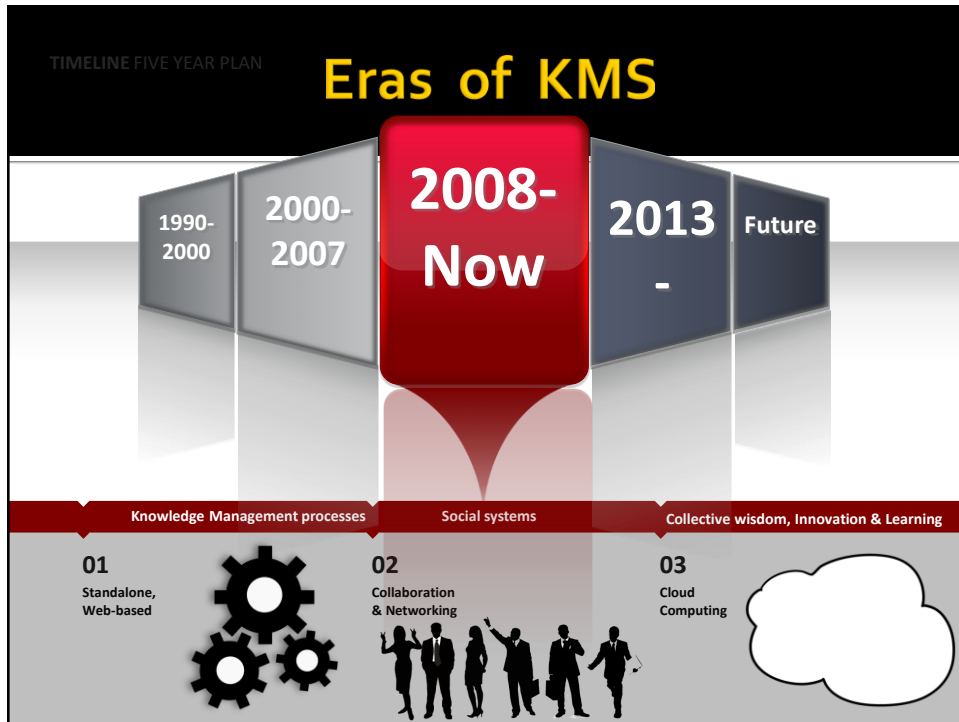
1. Not necessary a technical system
2. Multiple KMS exist in an organisation
3. Not all are integrated



## Various kinds of KMS in an organisation (Source: Tiwana, 2002)



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## European KM Framework

(Source: Heisig & Iske, 2003)

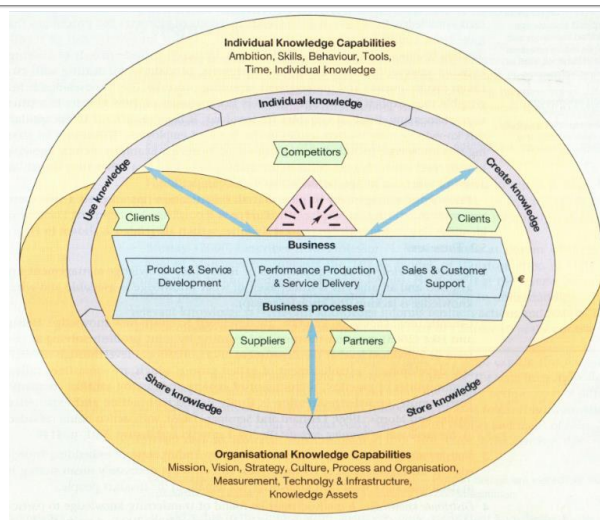
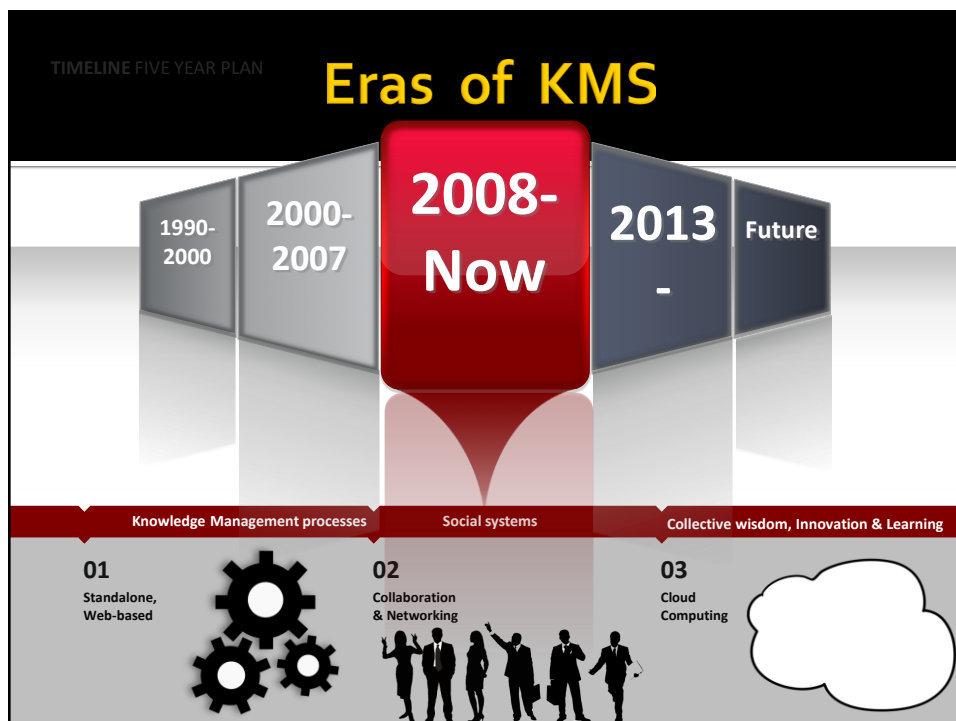
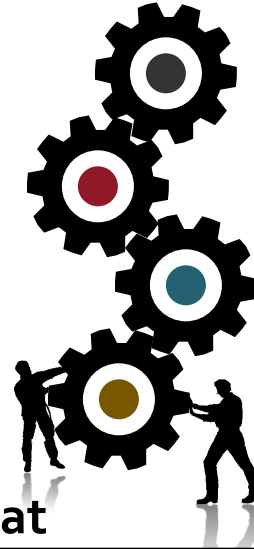


Figure 5.2 The European Knowledge Management Framework  
Source: Heisig and Iske (2003)

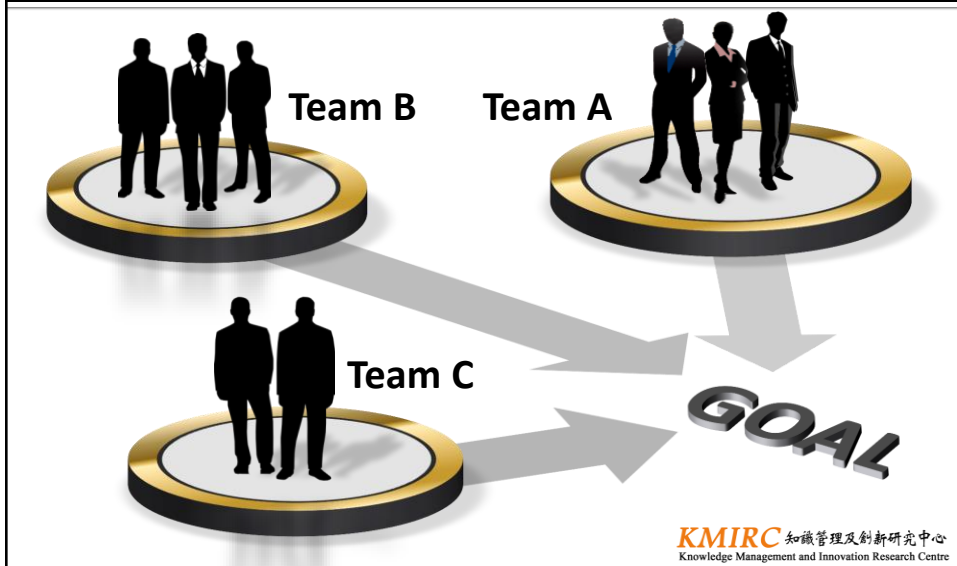


## Characteristics of KMS 1900-2000

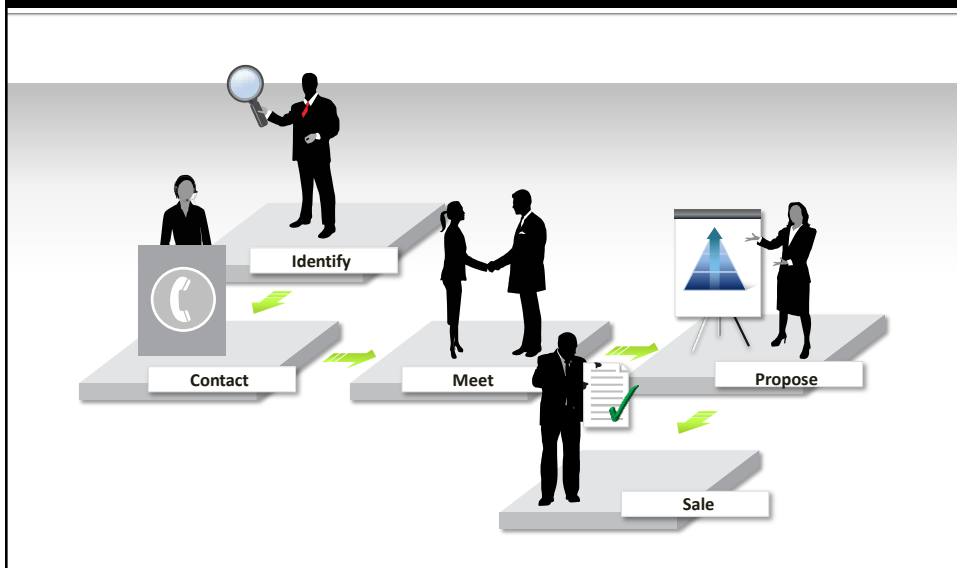
- KM Process-based
- Standalone
- Individual user sessions
- Connect people with information
- Some are web-based
- Lack of integration
- Proprietary database/format



# Collaboration



## A typical process from Business Development to Sales







## Some local installations of Enterprise Knowledge Portals



## Typical KMS 2000-2007

- Web-based collaboration system
- Web/Video conferencing system
- Electronic Document Management System
- Content Management System
- Instant Messaging System
- Project/High Performance Workspaces
- Enterprise Portals
- Scenario authoring & simulation system
- Learning Management System

## Lessons Learnt over 100+ KM projects

### *Knowledge Management developments in Hong Kong: Lessons learnt from over 100 projects*

**Prof. Eric Tsui**

Associate Director, Knowledge Management Research Centre  
The Hong Kong Polytechnic University  
&

Vice President, Hong Kong Knowledge Management Society

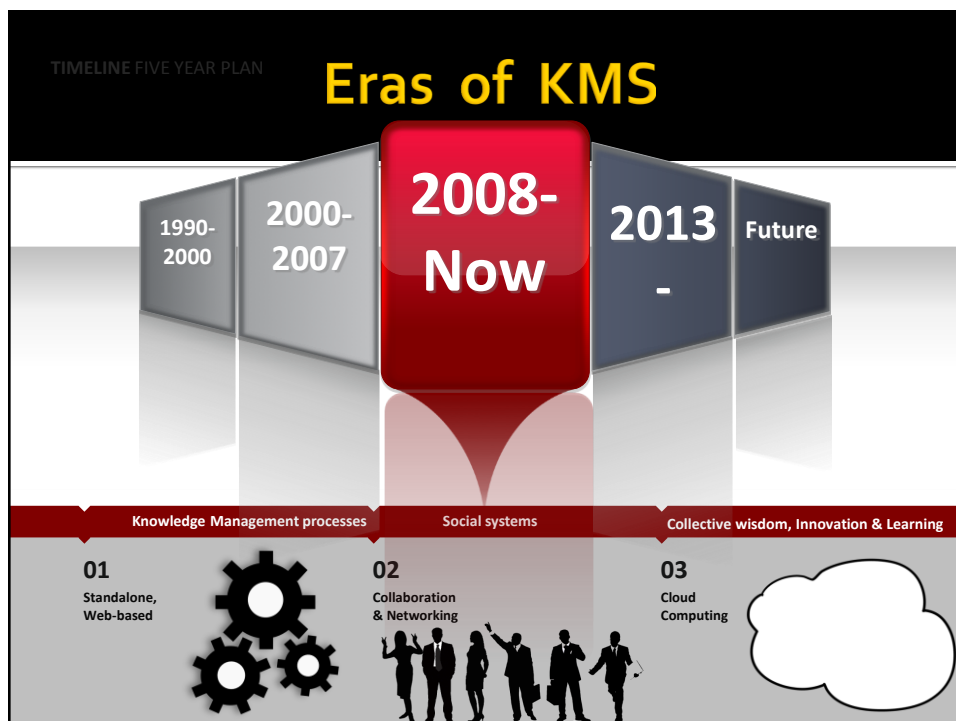


Replay seminar at  
[http://kmrc.ise.polyu.edu.hk/events\\_past.php](http://kmrc.ise.polyu.edu.hk/events_past.php)



## Some observations on the deployment & user adoption of KM technologies in HK

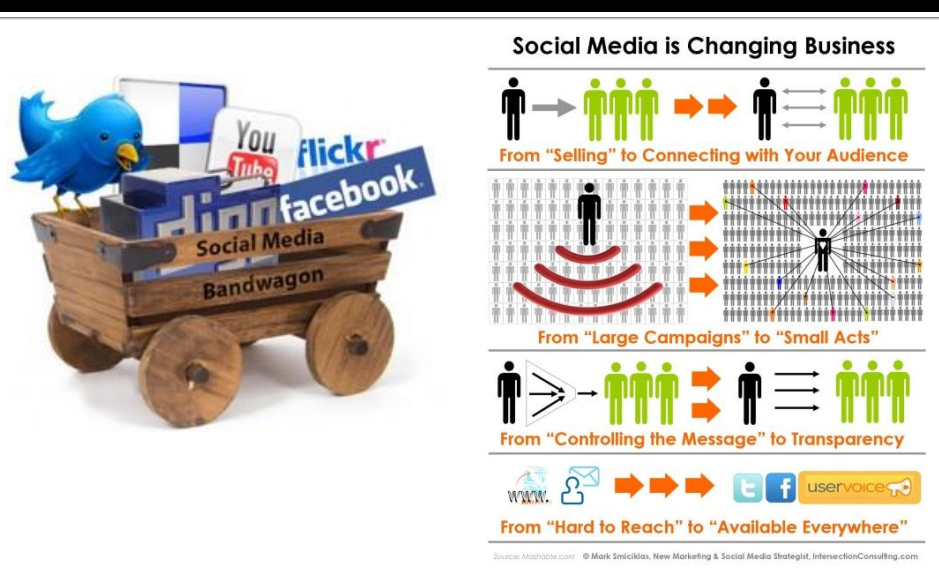
- (Affected by) the Business, IT divide – insufficient end-users, Subject Matter Experts input
- *Technologies ahead of the KM Strategy; under-leverage on soft KM tools/techniques*
- KM systems often treated as only static repositories; many interpret KM systems as E-mail systems and EDMS
- *Over emphasis on the containers than the identification of critical knowledge assets/flow and people connections*
- KM often executed as a project rather than a *journey*
- *Lack of enterprise/departmental-wide focus on taxonomy; under-leverage of meta-data and controlled vocabularies*
- Inadequate user training/awareness on search engines
- Time lag between requirements elicitation and procurement
- *Content Management not treated as a lifecycle process*
- Commitment on some out-dated technologies
- *Lack of a holistic view to KMS; multiple functions exist*



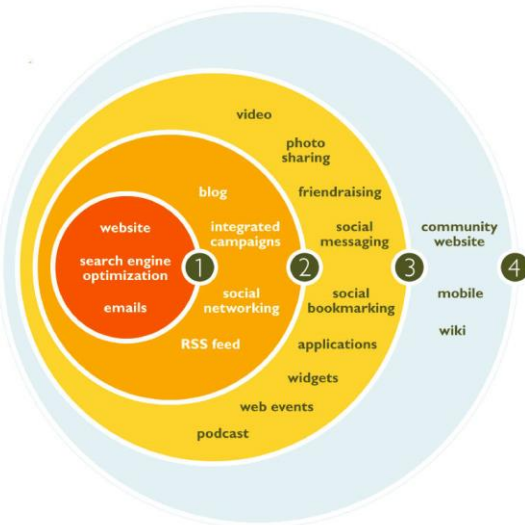
## Typical KMS 2008-now

- Web 2.0 / Enterprise 2.0 tools
  - Blogging / Microblogging
  - Wiki
  - RSS
  - Social Networking
- Enterprise Portals (extended with above)
- Learning Management System (extended with above)
- Mobile devices & mobile applications

## How businesses are using Social Media?



## Using social media to enhance communications (Source: Farra Trompeter, Bigduck)

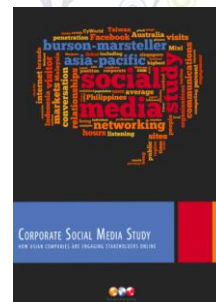


## Cathay Pacific's use of social media

### Cathay Pacific - Media & Influencer Relations



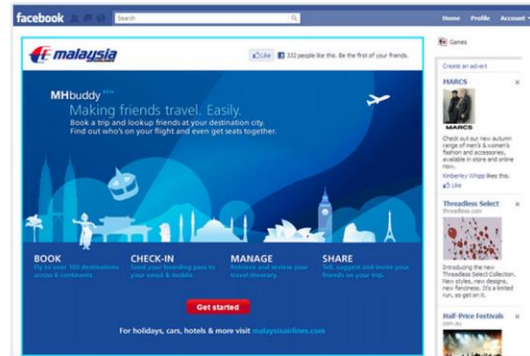
Cathay Pacific use a mix of social media channels, including a corporate blog (pictured), to tell the Cathay corporate story, as well as to announce product news and promotions, and answer customer questions. Cathay also encourage users to share their Cathay experiences with other customers using videos and photos.



## Online booking & checkin using FB

### Malaysia Airlines lets you book on Facebook

By Irene Mickael | March 2, 2011 | 1



(Screenshot by CBSi)

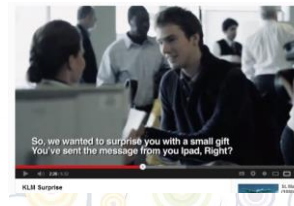
Malaysia Airlines takes social media to an all-new high, by allowing people to book their flights and check-in with the airline through Facebook.

MHbuddy on Malaysia Airlines' Facebook page lets you book, check-in, manage and share your flights via the social network. The Facebook page also lets users know if one of their friends are travelling on the same flight or going to the same destination.

## KLM's personalised gifts for travellers (Source: Chess Media Group, 2011)

KLM Airlines recently experimented with an interesting campaign taking advantage of this. The airline decided to use this multitude of available social data to surprise their passengers waiting at Airport Amsterdam Schiphol with personalized gifts. KLM monitored the social web for passengers that checked-in through Four Square or Twitter. They then searched their social profiles for information such as their favorite activity and interests to obtain gift ideas.

Then they set out to locate the passenger, either at their departure gate or again through information shared through social networks. Through online conversations about its brand, and based on data that passengers shared, KLM found the passengers and surprised and delighted them with the personalized gifts.





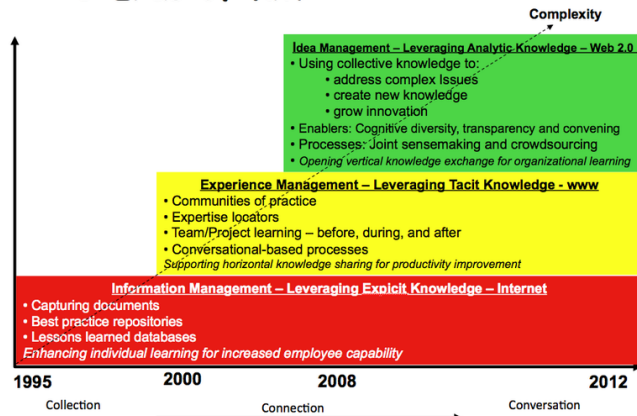


# Nancy M. Dixon's 3 eras of KM

(Replay Webinar at <http://goo.gl/zU7aG>)



## 3 Eras of KM



© Common Knowledge Associates 2010

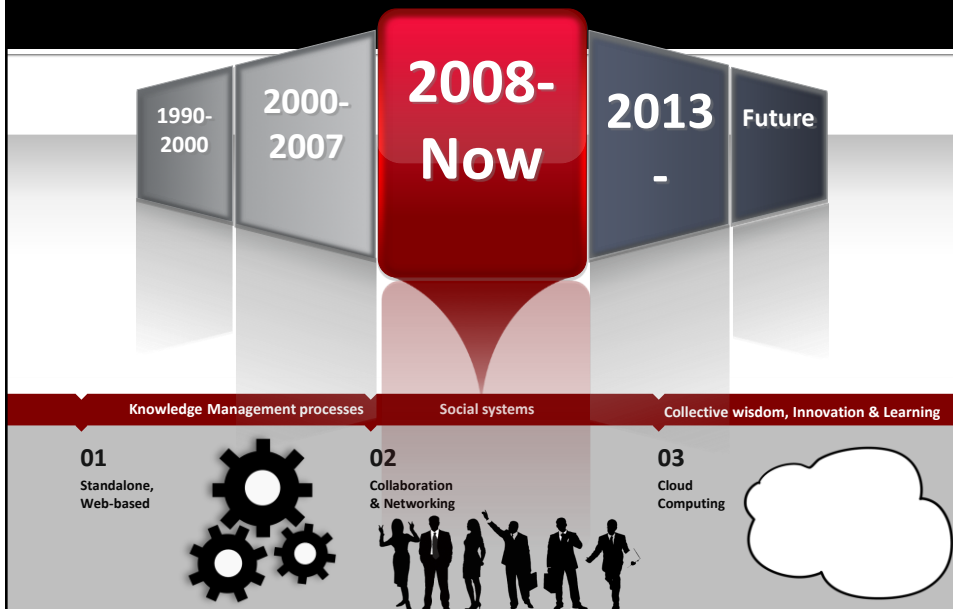


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TIMELINE FIVE YEAR PLAN

## Eras of KMS

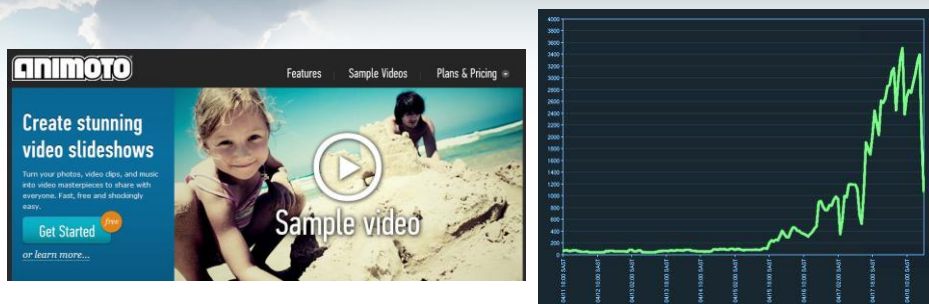


## Definition of Cloud Computing

A widely adopted, formal definition comes from the National Institute of Standards and Technology:

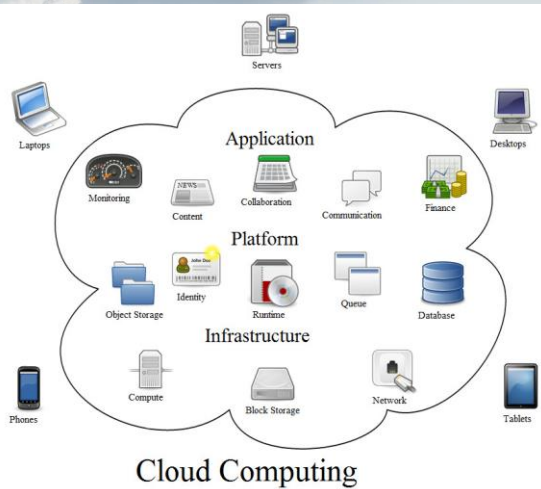
“Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.”

## Animoto's use of an elastic cloud



**The company's average 5,000 users a day spiked to 750,000 in three days. At one point, 25,000 people used Animoto in one hour.**

# The Adolescent Cloud



Cloud Computing

## EnterpriseINNOVATION

MANAGEMENT TECHNOLOGY VERTICALS CRM

### Data to drive cloud maturity

By Dylan Bushell-Embling | 2013-01-30



As cloud technologies edge towards maturity and adoption rates pick up steam, 2013 is shaping up to be a landmark year for the cloud, according to Ovum.

The research firm has published a series of reports predicting that cloud maturity will take strong strides in 2013, and that data will be the new oil that drives the market.

Fellow analysts Gartner meanwhile expect that cloud computing will have a substantial impact on the IT security sector, and are confident that 40% of IT security spend will be for cloud security by 2015.

### Cloud computing reaching adolescence

Over the next 12 to 18 months, cloud service providers and cloud vendors achieve the key IT challenge of simultaneously reducing costs while improving innovation, two goals that were previously irreconcilable.

This year will also see the emergence of a true cloud computing ecosystem, Ovum predicts. Public clouds are already increasingly serving as "ecosystem hubs" for both cloud service providers and consumers.

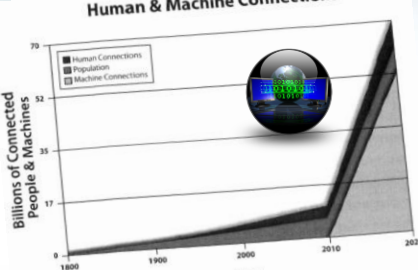
# The Knowledge Cloud



## 70 billions connections & 1/3 of consumer digital content in the cloud by 2020 & 2016 respectively

**In July 2012, there were 955m users in Facebook**

### Human & Machine Connections



**EXPECTED GROWTH OVER THE NEXT 10 YEARS**

<b>10x</b>	<b>50x</b>	<b>1.5x</b>
The number of real and virtual servers worldwide	The number of bytes managed by enterprise data centers	The number of IT professionals in the world

Source: IDC

**Gartner: One-third consumer digital content to store in cloud by 2016**  
By Asia Cloud Forum editors 25-Jun-2012

Cloud storage of consumer content in 2011 accounted for just seven percent. By 2016, this will grow to 36%, according to Gartner's latest research findings.

Thanks to the consumerization of IT, more consumers desire to share and access content on multiple devices like camera-equipped smartphones and tablets. As storage increasingly becomes part of the personal cloud, Gartner advises online storage and sync companies to strategically rethink about their future approach.

**In 2012, about 2.5 exabytes are created every day and is expected to double every 40 months. An exabyte is 10,000 times of a petabyte (approx 20 million filing cabinets)**

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## Human-machine cooperative problem solving

### 3. Connected Machines Drive New Insights

The "Internet of things" has arrived and it will continue to grow to meet specific industry requirements. According to a Gartner report, "In 2011, over 15 billion things on the Web with 50 billion+ intermittent connections will grow by 2020 to over 30 billion connected things, with over 200 billion with intermittent connections."

Machine-to-machine (M2M) connections now cover much more than smart energy delivery and smart cars. For example, elaborate networks of sensors with direct machine-to-machine connections now underpin connected health care and the first consumer-ready wave of automotive telematics.

The ability to collect, store and analyze overwhelming volumes of data will define which enterprises extract the best insights and make the most agile decisions, to their competitive advantage. As a result, all enterprises – both business and government – will need to work with vendors having strong and global ecosystems.



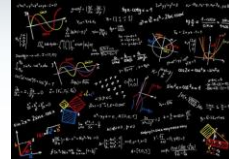


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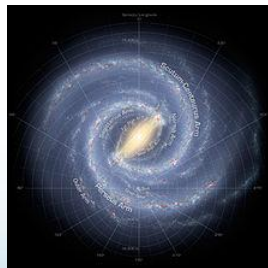


## Harnessing Wisdom of the Crowd

- **Polymath**
  - Online discussions about mathematical problems
- **GenBank**
  - World's online repository of genetic data
- **GalaxyZoo**
  - 200,000 online volunteers to help astronomers classify galaxy images



## Any spiral? Which direction?







## Amazon Mechanical Turk

### Human Intelligence Tasks

**amazonmechanicalturk**  
Artificial Artificial Intelligence

Already have an account?  
Sign in as a [Worker](#) | [Requester](#)

[Your Account](#) | [HITS](#) | [Qualifications](#)  
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**Mechanical Turk is a marketplace for work.**  
We give businesses and developers access to an on-demand, scalable workforce.  
Workers select from thousands of tasks and work whenever it's convenient.  
**74,997 HITS available.** [View them now.](#)

### Make Money by working on HITS

HITS - Human Intelligence Tasks - are individual tasks that you work on. [Find HITS now.](#)

**As a Mechanical Turk Worker you:**

- Can work from home
- Choose your own work hours
- Get paid for doing good work

**Find an interesting task** → **Work** → **Earn money**



[Find HITS Now](#)

[or learn more about being a Worker](#)

### Get Results from Mechanical Turk Workers

Ask workers to complete HITS - Human Intelligence Tasks - and get results using Mechanical Turk. [Register Now](#)

**As a Mechanical Turk Requester you:**

- Have access to a global, on-demand, 24 x 7 workforce
- Get thousands of HITS completed in minutes
- Pay only when you're satisfied with the results

**Fund your account** → **Load your tasks** → **Get results**



[Get Started](#)

**amazonmechanical turk** Artificial Intelligence Your Account HITS Qualifications **179,953 HITS** available now Sign In

All HITS | HITS Available To You | HITS Assigned To You

Find **HITS** containing **compare** that pay at least \$ **0.00** ☐ for which you are required to have a Master Qualification ☐ require Master Qualification

**HITS containing 'compare'**  
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<b>DE_Classification_Expert</b> <a href="#">View a HIT in this group</a>			
<b>Requester:</b> <a href="#">retaildata EU</a>	<b>HIT Expiration Date:</b> Jul 13, 2012 (3 days 1 hour)	<b>Reward:</b> \$0.01	
	<b>Time Allotted:</b> 60 minutes	<b>HITS Available:</b> 1323	
<b>Find product equivalents</b> <a href="#">View a HIT in this group</a>			
<b>Requester:</b> <a href="#">Nerissa Hartford</a>	<b>HIT Expiration Date:</b> Jul 16, 2012 (6 days 11 hours)	<b>Reward:</b> \$0.02	
	<b>Time Allotted:</b> 60 minutes	<b>HITS Available:</b> 912	
<b>GB_Classification_Expert</b> <a href="#">View a HIT in this group</a>			
<b>Requester:</b> <a href="#">retaildata EU</a>	<b>HIT Expiration Date:</b> Jul 13, 2012 (3 days 1 hour)	<b>Reward:</b> \$0.01	
	<b>Time Allotted:</b> 60 minutes	<b>HITS Available:</b> 682	
<b>FR_Classification_Expert</b> <a href="#">View a HIT in this group</a>			
<b>Requester:</b> <a href="#">retaildata EU</a>	<b>HIT Expiration Date:</b> Jul 13, 2012 (3 days 1 hour)	<b>Reward:</b> \$0.01	
	<b>Time Allotted:</b> 60 minutes	<b>HITS Available:</b> 576	
<b>Inspect People Records--Internal</b> <a href="#">View a HIT in this group</a>			
<b>Requester:</b> <a href="#">Intellius Data Systems</a>	<b>HIT Expiration Date:</b> Jul 20, 2012 (1 week 3 days)	<b>Reward:</b> \$0.00	
	<b>Time Allotted:</b> 60 minutes	<b>HITS Available:</b> 15	
<b>Is this person a musician?</b> <a href="#">View a HIT in this group</a>			
<b>Requester:</b> <a href="#">FN_Design</a>	<b>HIT Expiration Date:</b> Jul 16, 2012 (6 days 11 hours)	<b>Reward:</b> \$0.05	
	<b>Time Allotted:</b> 5 minutes	<b>HITS Available:</b> 2	

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1 judgments/sec current velocity | 516,563,209 total judgments

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Solve your unique problems with our platform.

Our partnership with CrowdFlower gives us a way to quickly structure the data we need, when we need it, with scalability and accuracy that we can rely on. —EpidemicIQ

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# Human Cloud – Knowledge Centre

## www.Quora.com



Write · Home <sup>1</sup> Eric 


**Cloud Computing:** [Edit](#)  
**How many connections (machine to machine, machine to human, human to human) connections in the cloud?** [Edit](#)  
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## www.Kaggle.com

**The 20 Most Innovative Startups In Tech**

Kaggle is a network of 17,000 PhD-level people that help each other solve impossible problems

Company: Kaggle  
 Founders: Anthony Goldbloom  
 Location: San Francisco, CA  
 Funding: \$11 million Series A from Index Ventures, Khosla Ventures, SV Angel, and others

**Why it's innovative:** NASA, Deloitte, and The University of Michigan have all turned to Kaggle's pool of 17,000 PhD-level scientists to solve complex problems and create winning models.

It uses the collective knowledge of some of the world's smartest people to make vast improvements in the world, from AIDs research to mapping dark matter in outer space.



Problem → Data → Model → Knowledge & Tools → Ready-to-Predict

Image: Kaggle

**We're making data science a sport.**

**Participate in competitions**  
 Kaggle is an arena where you can match your data science skills against a global cadre of experts in statistics, mathematics, and machine learning. Whether you're a world-class algorithm wizard competing for prize money or a novice looking to learn from the best, here's your chance to jump in and get out, for fun, before, or both.

[Join as a participant](#)  
(Read continuing?)

**Create a competition**  
 Kaggle is a platform for data prediction competitions that allows organizations to post their data and have it analyzed by the world's best data scientists. In exchange for a prize, winning competitors provide the algorithms that best solve the problem. Most data problems can be turned as a competition.


[Learn more about hosting](#)

**Featured Competitions**

 <b>Heritage Health Prize</b> Identify patients who return admitted to a hospital within the next year, using historical claims data. • Ends 8 months • 1500 teams • \$1 million	 <b>ASAP</b> Automated Student Assessment Program Place Five - Most Recent Testing	 <b>The Hewlett Foundation: Short Answer Scoring</b> Develop a scoring algorithm for student written short answer responses. • Ends 30 days • 2 teams • \$40,000
--	--	--

**Host a competition for...**

 Analytics	 Data exploration
 Recruitment	 Education



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## Characteristics of Cloudsourcing

### ***A completely new business model !!!***

- Harness micro-expertise from individuals rapidly, ad hoc & routinely
- Expertise ranges from novices to specialists
- Match expertise with problems & with scale
- Perform checks to filter out invalid responses
- Tools & processes provided to track progress
- Remunerate by hour, by task, by competition as well as by non-financial rewards

***More problems are being solved  
(by "designed/situated serendipity")***

***Low latency, low risk & massive contributions***



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## ***Netflix taps into Open Innovation via offering a contest***

**InformationWeek**  
THE BUSINESS VALUE OF TECHNOLOGY

### Netflix's Cloud Contest: More Companies Should Follow Suit

The economics of open innovation are too compelling to ignore.

By Joe Weinman, [InformationWeek](#)

March 27, 2013

URL: <http://www.informationweek.com/global-cio/interviews/netflixs-cloud-contest-more-companies-sh/240151747>

Netflix recently announced the [\\$100,000 Netflix Cloud Prize](#), dedicated to advancing cloud computing in 10 categories. (Disclosure: I am one of the prize judges.) Another *InformationWeek* article argued that Netflix is "[ruining cloud computing](#)" by focusing its innovation in a way the author, Joe Masters Emison, is concerned could "derail real IaaS competition." In my view, Netflix is free to select whichever partners they choose, and as far as the Netflix Cloud Prize is concerned, more companies should be looking to mimic its approach: leveraging the economics of contests, enhancing their own services and sharing core technology advances with everyone.



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# Human Cloud – www.innocentive.com

[https://www.youtube.com/watch?v=7eaV1-mKxbk&feature=youtube\\_gdata\\_player](https://www.youtube.com/watch?v=7eaV1-mKxbk&feature=youtube_gdata_player)

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  - Build your open innovation strategy
- Join Our Community of Problem Solvers**
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## Four types of Human Cloud platforms (Source: Sloan Management Review, Winter 2013)

PLATFORM MODEL	DESCRIPTION	EXAMPLES	TYPICAL USE CASES	KEY BENEFIT	AVERAGE NUMBER OF SUPPLIERS ON THREE LARGEST PLATFORMS
<b>Facilitator</b>	Connects suppliers and buyers directly through a bidding process	Freelancer, Elance, oDesk, Coffee & Power	Any service	Access to a large pool of suppliers and tools to facilitate the engagement	3,700,000
<b>Arbitrator</b>	Engages multiple suppliers through competitions	crowdSPRING, 99designs, MediaPiston, InnoCentive, Witmart	Logo design, graphic design, idea generation	Ability to choose from among multiple completed projects	80,000
<b>Aggregator</b>	Aggregates hundreds or thousands of microtasks performed by multiple suppliers	MechanicalTurk, MobileVorks, CrowdFlower, CloudFactory	Transcription, content generation, categorization, Internet search	Ability to have large quantities of standardized work completed quickly	400,000
<b>Governor</b>	Provides project governance and certifies supplier quality	TopCoder, Trada, uTest, 10EQS	Software development, sales and marketing, software testing	Assurance of qualified coordination and management of complex projects	50,000

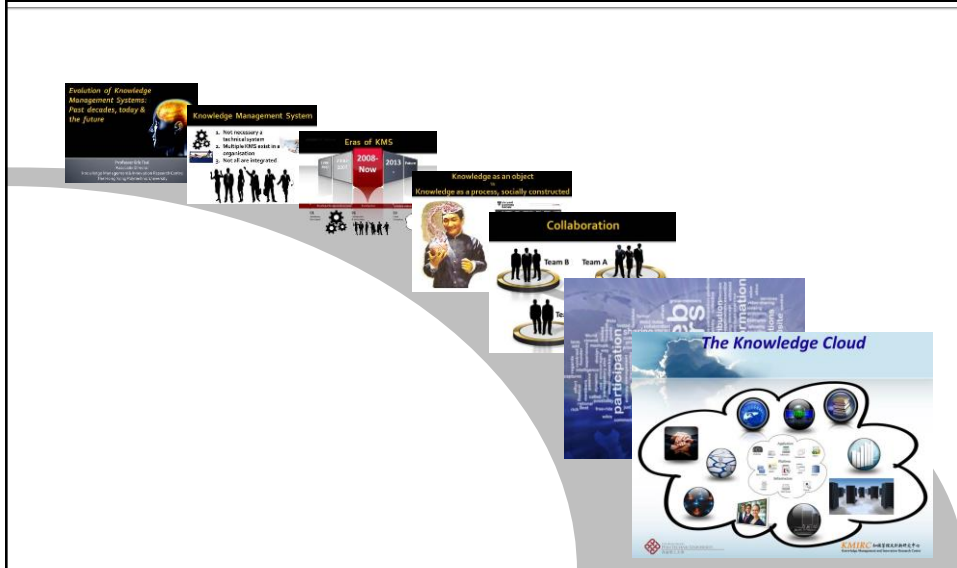

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# KMS' journey into the future

## TEMPLATES

Pre-designed presentations with 22 slides



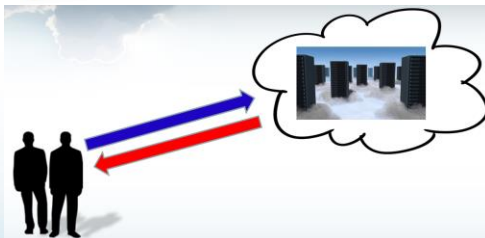
## Human-machine cooperative problem solving

### 3. Connected Machines Drive New Insights

The "Internet of things" has arrived and it will continue to grow to meet specific industry requirements. According to a Gartner report, "In 2011, over 15 billion things on the Web with 50 billion+ intermittent connections will grow by 2020 to over 30 billion connected things, with over 200 billion with intermittent connections."

Machine-to-machine (M2M) connections now cover much more than smart energy delivery and smart cars. For example, elaborate networks of sensors with direct machine-to-machine connections now underpin connected health care and the first consumer-ready wave of automotive telematics.

The ability to collect, store and analyze overwhelming volumes of data will define which enterprises extract the best insights and make the most agile decisions, to their competitive advantage. As a result, all enterprises – both business and government – will need to work with vendors having strong and global ecosystems.



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## Cloud logic *defined*

***The term "cloud logic" refers to logical inference systems that reside at remote servers rather than on client machines. Remote inference systems can distribute logical inference tasks over many cores at remote sites or distribute inference tasks across widely distributed machines and collect the results together to complete a client's query.***

(Source: John Fisher,

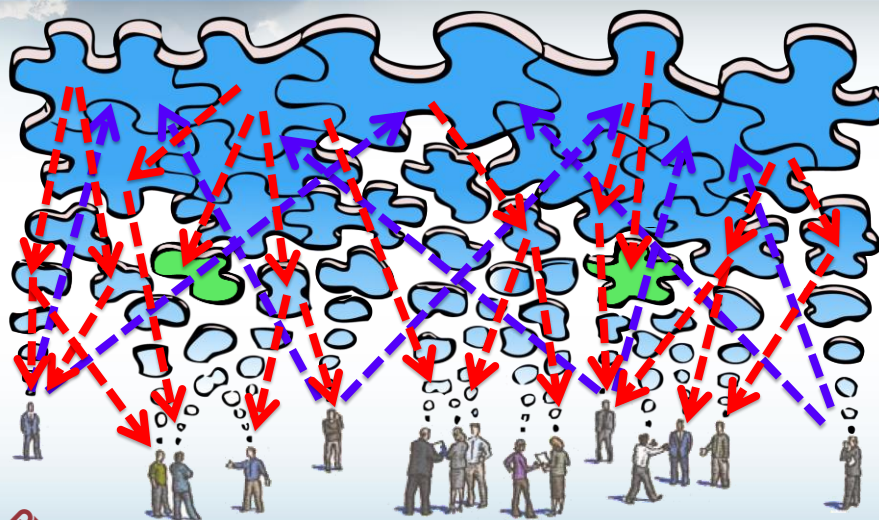
<http://www.csupomona.edu/~jrfisher/cs515/cloudlogic.html>)



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## Cloud Intelligence in action



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# Human-Machine co-operative problem solving

**Would you like to design & operate computers  
to perform knowledge work?**



**Artificial intelligence: Job killer or your next boss? | ZDNet »**

As software automates an increasing number of tasks, is it time to reassess traditional workplace roles and create an office that suits both man and machine?

**Would you like to be instructed by computers to  
carry out routine/transactional work?**