

Nature of Knowledge Work

- Increasingly less routine, more analytical and need to be more collaborative
- Highly unstructured, unpredictable, disruptive yet often come with a sense of urgency
- Transitions from a product-dominant to a service-dominant logic
- Requires a different set of metrics for performance measurement
- Not only requires data and information but also knowledge and experience of the individual
- Group/Collaborative task execution, decision making and problem solving
- A huge amount of data and information to deal with
- Often more than one way to solve a problem, collaboration,
 Reflection and a learning environment are crucial MRC (本文文文学)

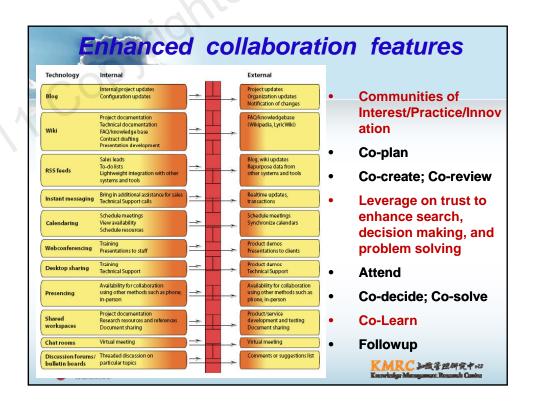
Support for performing Knowledge Work

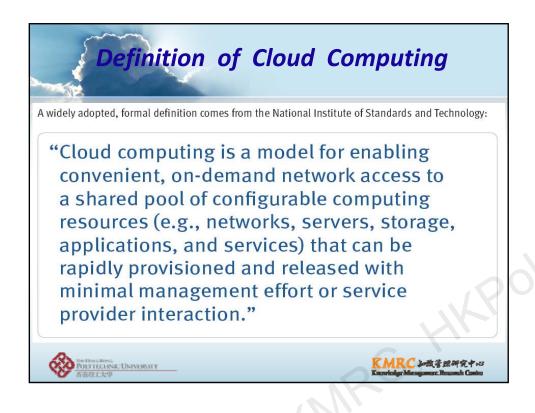
- Automate routine tasks as much as possible
- Tools to coordinate ad hoc tasks among workers
- Tools to identify and connect with subject matter champions; codify and share tacit knowledge
- Tools to discover, aggregate, analyze and visualize document/information/discussion summary, trends, work tasks etc.
- Leverage on input and preferences from trusted peers
- Knowledge Repository for keeping core assets
- Powerful Search mechanisms (proactive, multi-modal, multiple search modes, visualisation,...)
- Create a Personal and Organizational Learning Environment
- Personalization (role type, multi-generational workforce, mobile workers, content, tools, networks etc.)

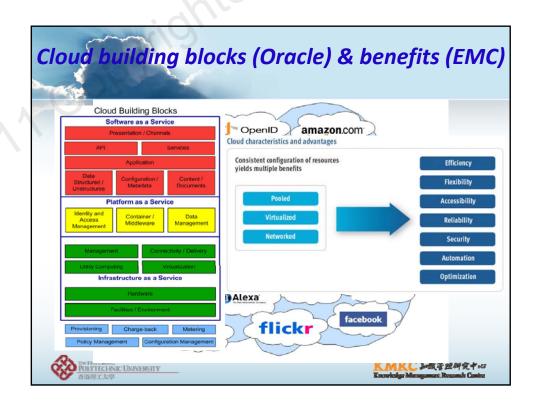


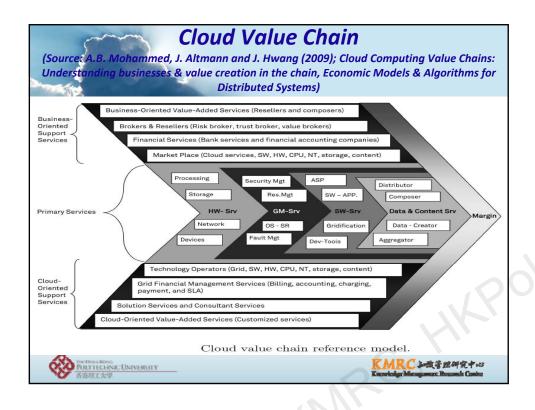


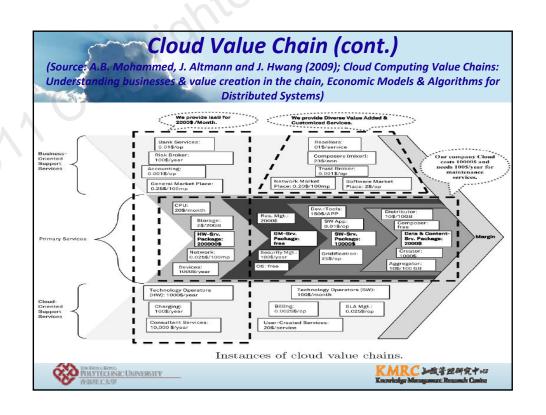
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Aggregators Folksonomy Wikis
Blogs Participation Six Degrees Usability widgets
Recommendation Social SoftwareFOAF
Sharing Collaboration Perpetual Beta Simplicity AJAX
Audio IM Video Web 2. OPesign
Convergence Web 2. OPesign
Convergence Web Standards VC Trust Affiliation
OpenAPIs RSS Semantic Web Standards Economy
OpenID Remixability REST StandardizationThe Long Tail
DataDriven Accessibility
Modularity SOAP Microformats Syndication
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Commonly addressed operational & research issues

- Security / Privacy, Data location, compliance, identity management
- Data migration & integration
- Interfacing legacy systems
- Service Level guarantee & legal ambiguity
- Customisation of vendor-specific tools & applications
- Portability of applications across clouds (especially PaaS & SaaS)
- Performance measurement
- Discovery, de-duplication and selection of services & data
- Data Analytics
- Paradigmatic change to OPEX model, work style and workplace
- Cloud exit strategy







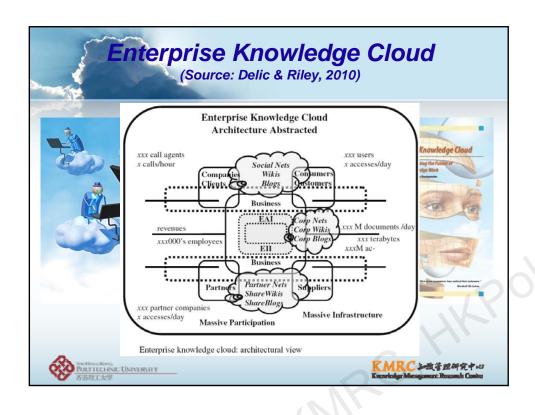


Immediate & Secondary benefits

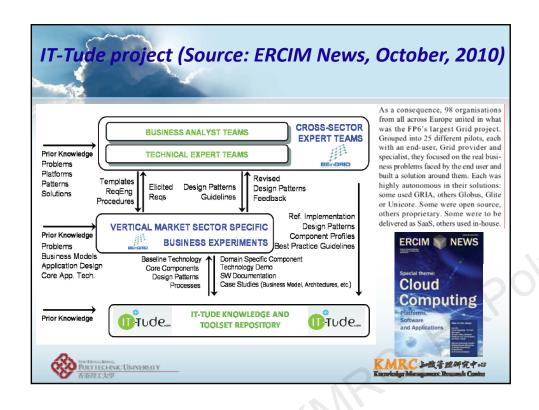
- Upgrade management
- Spams and virus threats
- Value-add functions provide by a S-aa-S &/or P-a-a-S providers
- Integrated data management
- Enterprise Knowledge Cloud



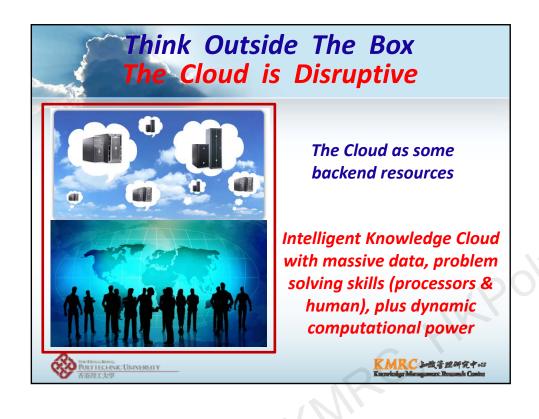
















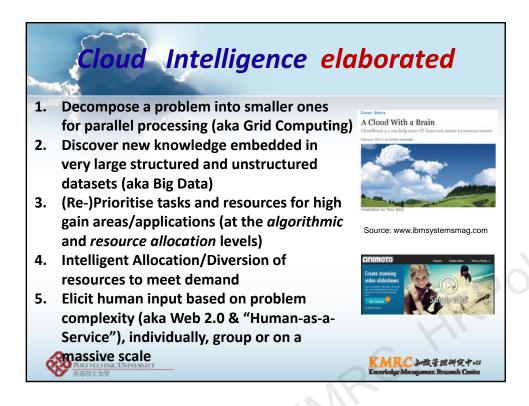
Cloud logic defined

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)



KMRC Jor教を選研究中#3 Knowledge Managament, Reasonale Cambra

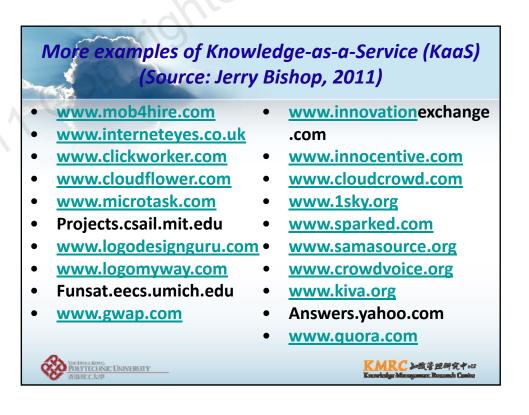


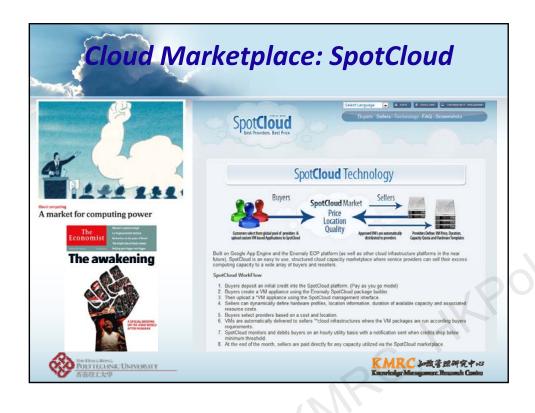


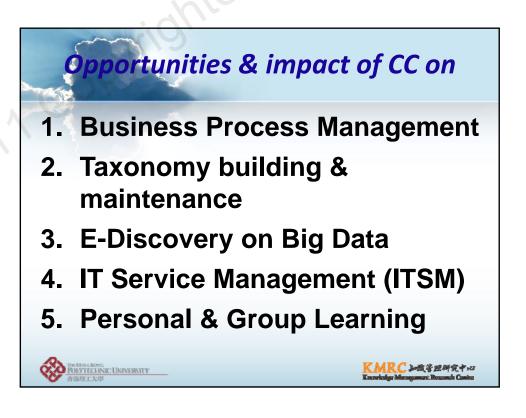


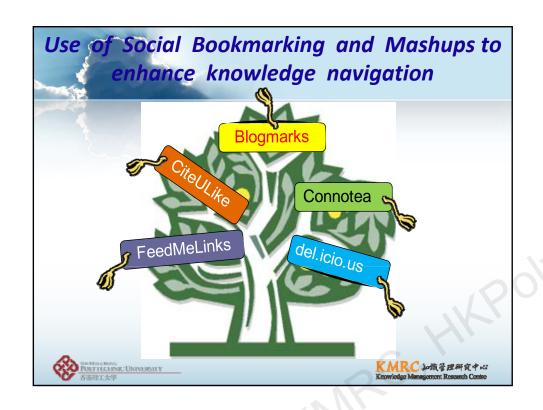


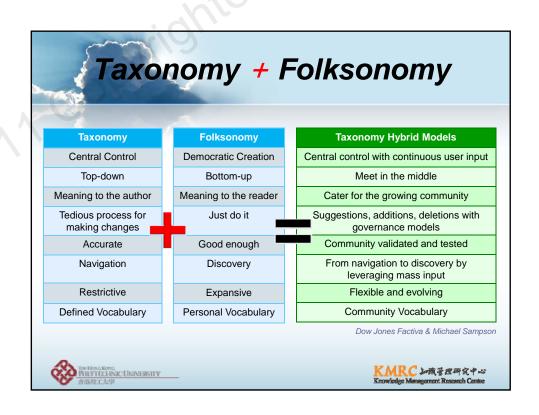


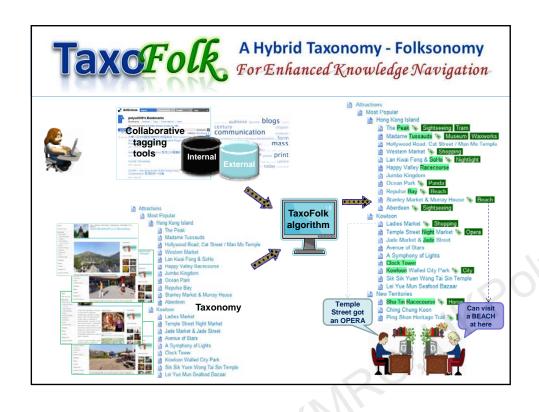


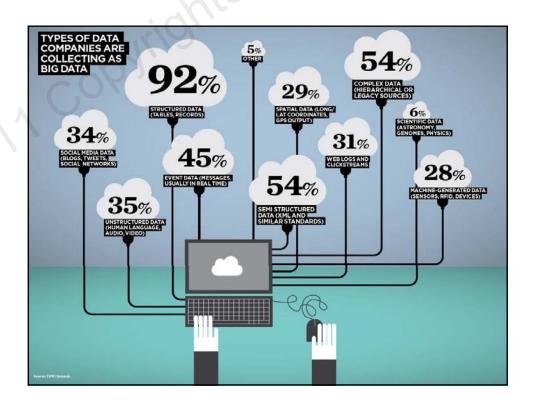


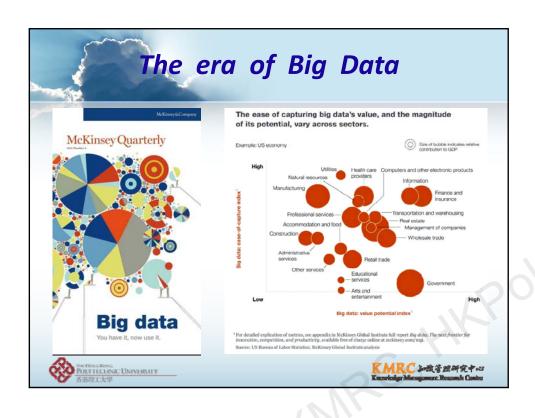














SMART TRAFFIC CLOUD ROAD TESTED

Singapore is trialing a traffic management system that could improve the monitoring of the citystate's roads by using geolocation data captured from drivers' smart phones.

GPS sensors in drivers' smart phones can determine the location, direction of travel and speed of vehicles, and the data, captured in real-time, is hosted on a cloud platform that the Land Transport Authority can use to monitor – and predict – traffic conditions.

"It would be very costly to deploy sensors all over the city. We only have sensors on highways and major roads, so why not make use of GPS sensors in drivers' mobile handsets?" said Dr Lim Hock Beng, Programme Director, Intelligent Systems Centre, Nanyang Technological University, who leads the research team behind the initiative.

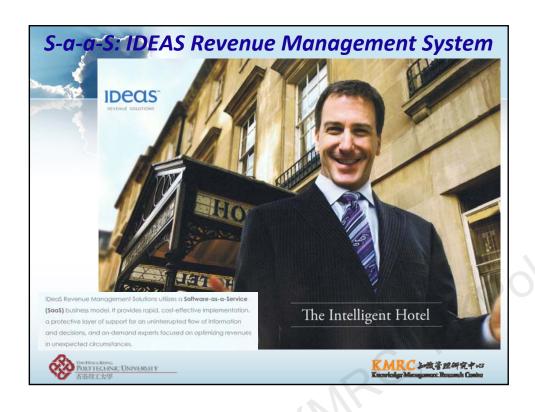
The smart traffic cloud platform, a joint effort by LTA, NTU, the Infocomm Development Authority and SingTel, will be available for government and private sector service providers to use the data to develop location-based services.

Singapore has been working in collaboration with the University of Berkley, which is testing the same concept in the San Francisco Bay area.













Hu Jintao, President of China, stated at the country's top academic conference in June, 2010, "The rapid development of Internet, cloud computing, Internet of things, knowledge services and intelligent services offers a powerful tool and a favorable environment for service innovations."



Source: CCID Consulting, 23 Dec 2010



