Ede, NVB
Jaarcongres

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Cloud computing voor bibliotheken

Annette Dortmund

Product Manager

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Agenda

- Changing Perceptions of Cloud Computing
- Cloud Computing for Libraries
- Beyond a mere Cloud Concept
  for Library Management Services

Cloud Computing – a major trend

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Cloud Computing – What is it?

A style of computing in which scalable and elastic IT-enabled capabilities are delivered as a service to external customers using Internet technologies.

-Gartner Group

Simple: Web-based applications with shared data and services.

Cloud Computing - examples

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KPMG

Infrastructure	Platform	Applications	Services
amazon web services™ Amazon S3 Simple Storage Service	Google facebook	Salesforce Google mail NETSUITE ONE SYSTEM. NO LIMITS.	ADP mint

Why cloud computing is different

"Unlike most innovations that started in the enterprise and went to the consumer, this innovation started with consumers and is now coming to the enterprise."

-Geoffrey Moore
"Core Content and the Cloud"
http://www.youtube.com/watch?v=0swJCYLH2Ck

Why Cloud Computing for enterprises?

Subscribe to high quality services for as long as needed

Save costs on IT infrastructure & management

Improve service quality (performance, availability, …)

Improve visibility and accessibility of the service

Focus on core business, grow, innovate

Collaborate, Aggregate & Share
  Data & Services

…

Challenges connected with Cloud Computing

Data security & privacy, data ownership & exit options

Scalability, Reliability and Performance of the Service

Interoperability with external Services

Compliance with legal standards (national, EU & international), lack of appropriate standards

...

http://blog.marinetelecom.net/2009/10/

Why cloud computing is different

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"If you think that you know better than 'the cloud', you don't."

-Geoffrey Moore
"Core Content and the Cloud"
http://www.youtube.com/watch?v=0swJCYLH2C

German Government & Cloud Computing

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IT strategy cloud computing (Sept 2010)

Trusted Cloud

- **Remove technical, structural, organisational and legal barriers**
  - **data integrity and security**
  - **service availability**
  - **service interoperability**
  - **legal issues / contract templates**
- **Increase public acceptance of cloud based solutions**
- **Leverage economic potential, especially for the public sector and smaller and medium-sized businesses**

German Government & Cloud Computing

Framework Paper on Information Security, issued by the *Bundesamt für Sicherheit in der Informationtechnik* (BSI) / Federal Office for Information Security (Sept 2010) for review by Jan 2011

Minimum security requirements for cloud solution service providers, including :

- **ID and rights management, Emergency management, Interoperability, Data protection and compliance, Cloud certification**

BSI Paper Cloud Computing: http://bit.ly/cywMMH, summary in en: http://bit.ly/cUNjSD

Libraries and Cloud Computing

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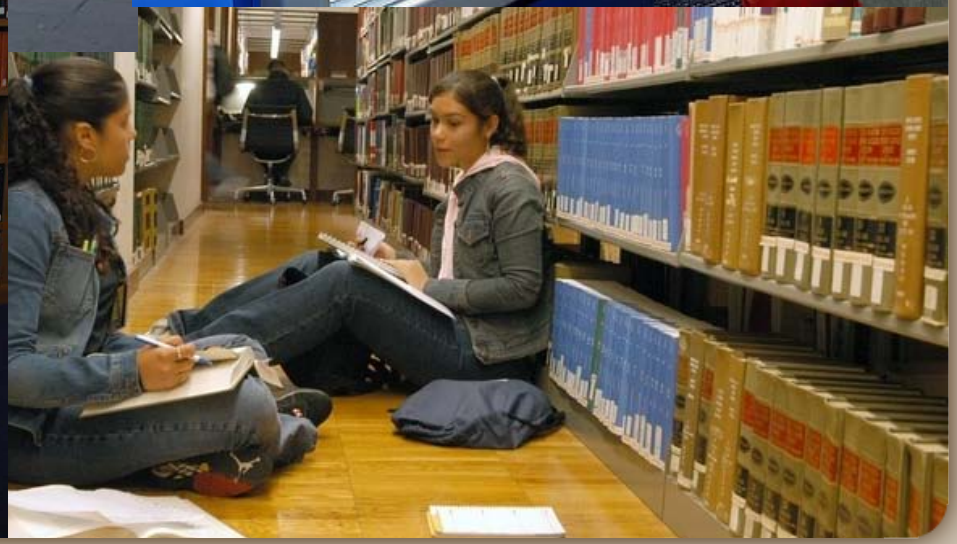
Changing demand



Changing collections

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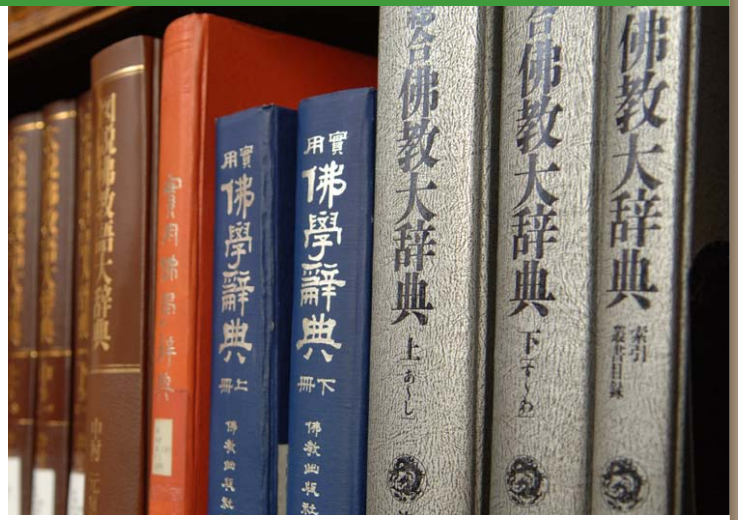

Libraries and Cloud Computing

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- Libraries are doing more than ever
- Libraries are changing rapidly
- Cost & time requirements are exploding
- Cloud computing has helped other industries
- Libraries have been building “cloud” services for 40 years (cataloging, resource sharing, online reference…)
- Cloud based library services could bring the power of library cooperation to core library services
- Libraries will be freed to focus on innovation

Why Cloud Computing for ~~enterprises~~ libraries?

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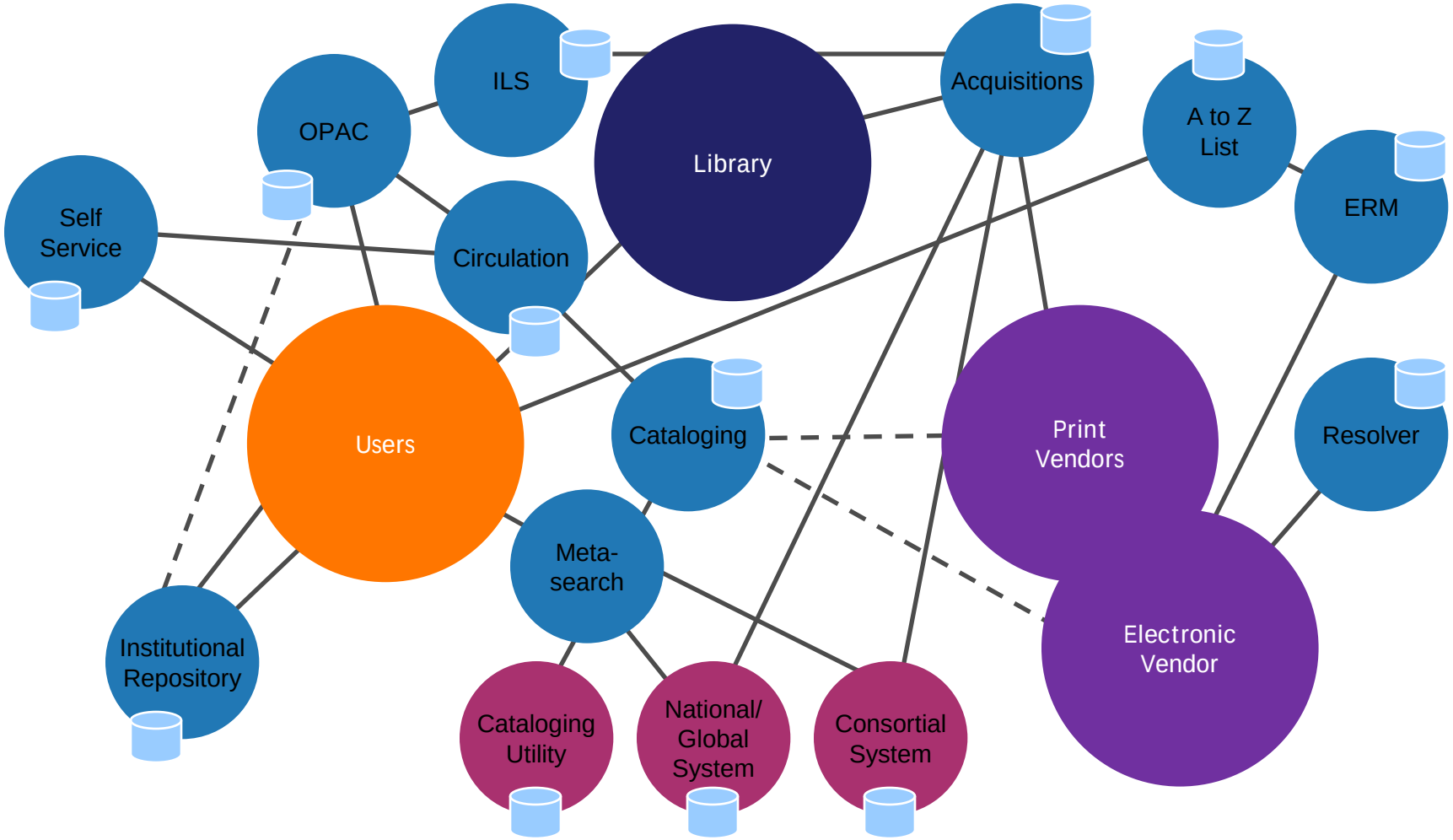
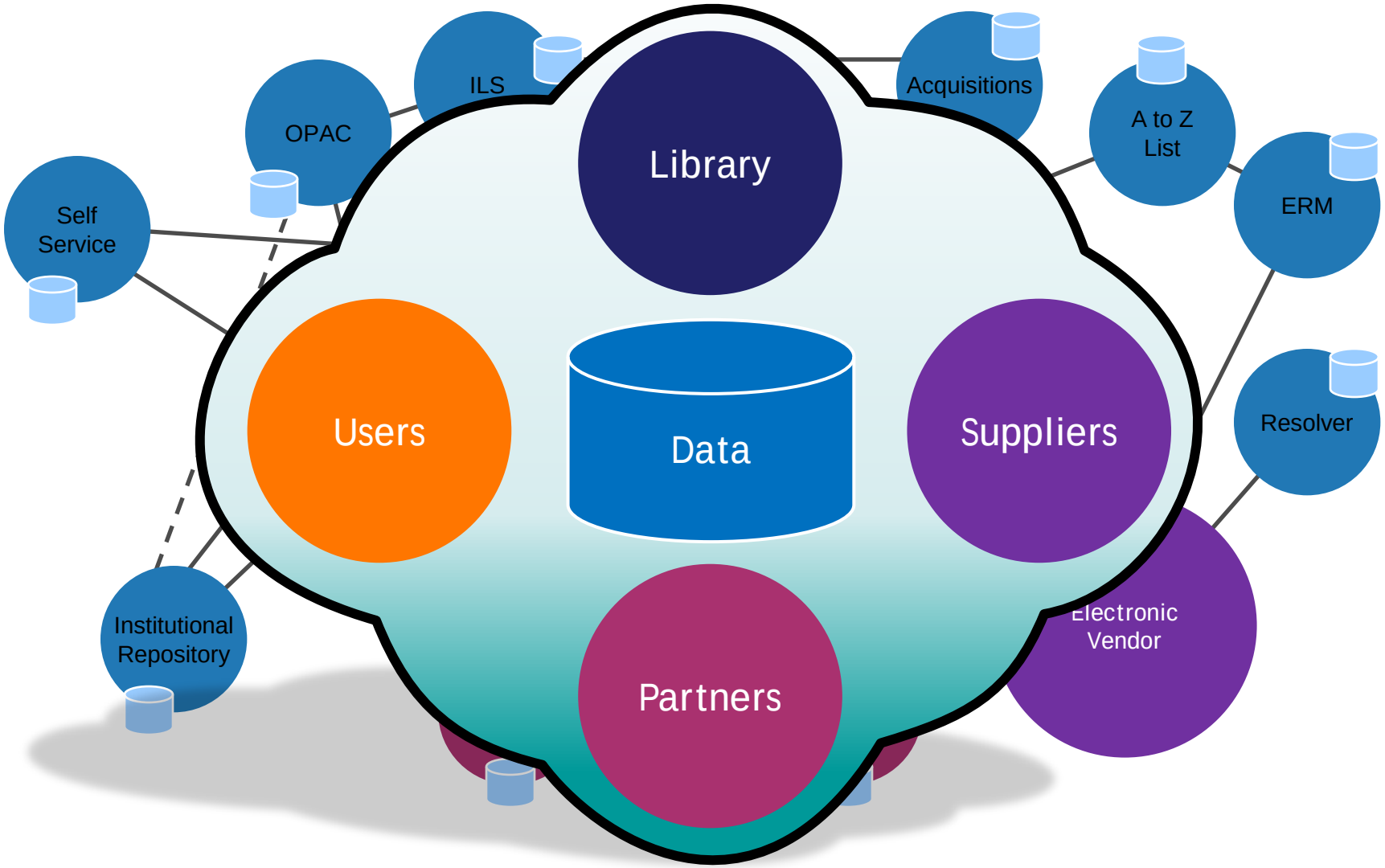
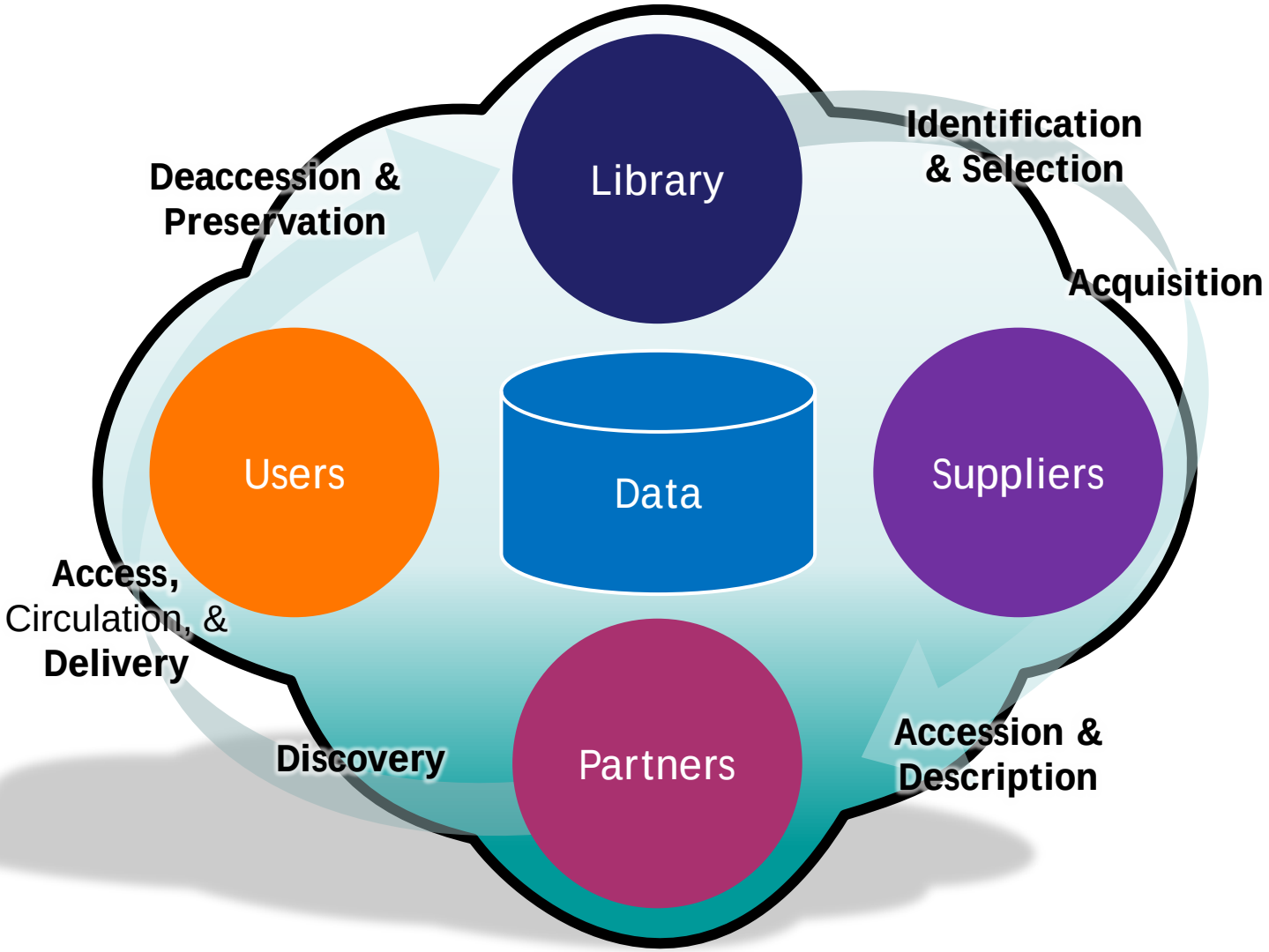
Today's library infrastructure



What if…


ILS
OPAC
Acquisitions
A to Z List
ERM
Self Service
Library
Users
Data
Suppliers
Resolver
Institutional Repository
Partners
Electronic Vendor

Resulting Workflows



Key principles of a cooperative platform

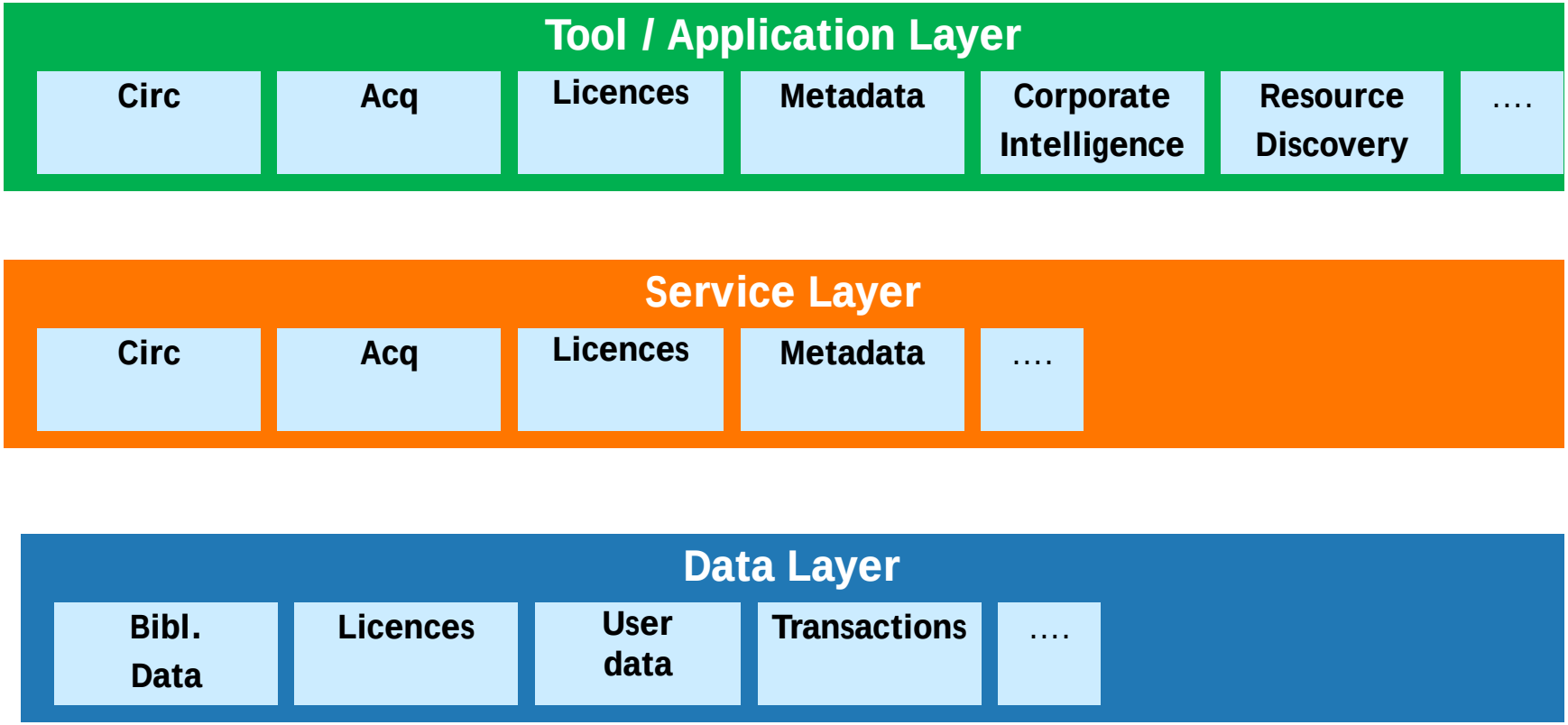
Collaboration: Share data and services with other libraries & partners in a controlled way

Data richness: Offer data pools and integrated workflows for all purchased, licensed and digital content

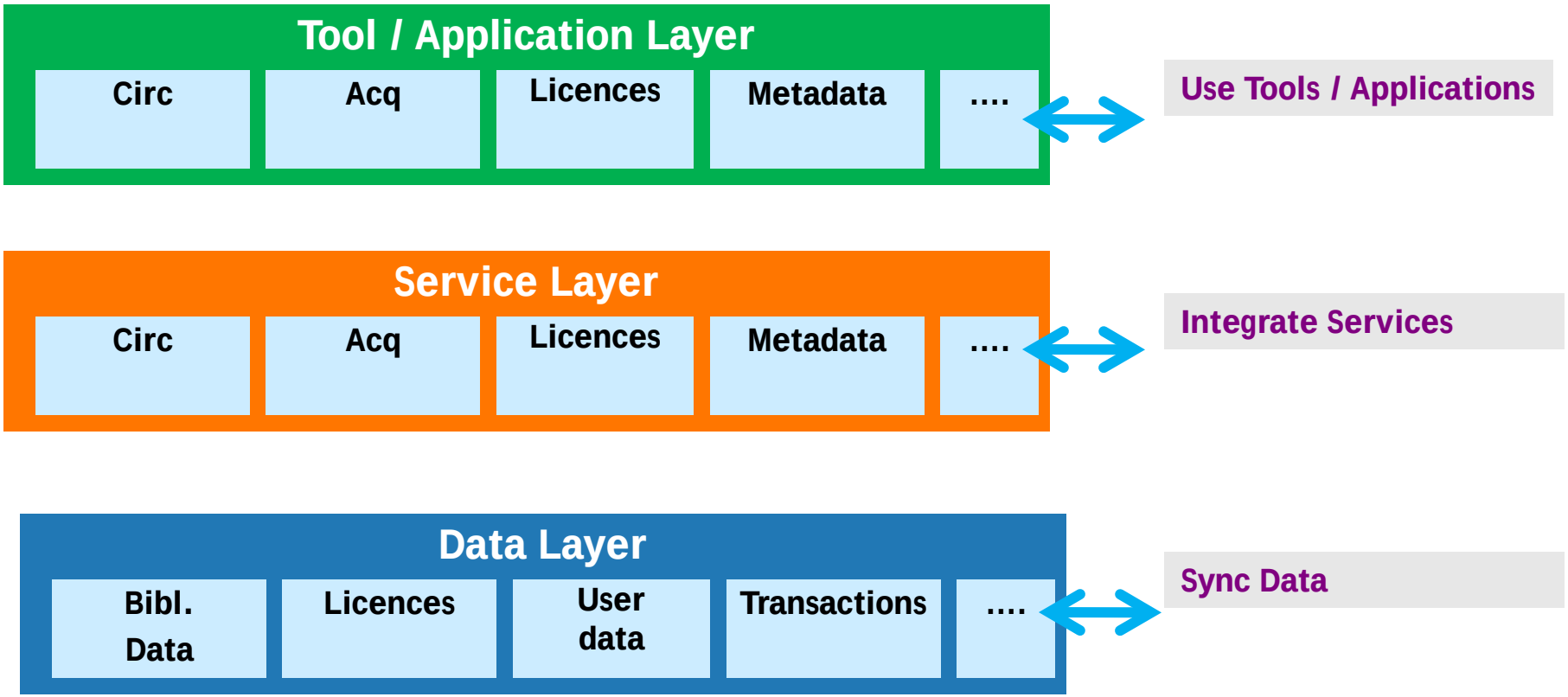
Openness: Support interoperability between cloud based solutions, with library-developed or 3rd party applications / services through APIs, incl. exit options

Extensibility: Platform can be extended by applications, provided by supplier, libraries or partners

Architecture



Towards a Service Platform



A Service Platform

With such an architecture – a platform concept -, libraries can develop their own custom applications for library management activities.

In addition, they can expose and share those applications as Web services on the platform for other libraries to use.

They can innovate collectively.

The cloud concept leads to a platform and apps concept for library management services and to collective innovation.

OCLC Web-scale Management Services

- Time Schedule for OCLCs Web-Scale Management Services
  - US is in early adopter phase since July 2010
  - BIBSYS agreed to be the first large European early adopter
  - Roll-Out into other European markets starting from mid 2012 / 2013 (current time schedule)
  - Stepwise introduction of services

A Sea Change

“For 25 years of library automation, we’ve had a choice of *brand*, and now we have a choice of *kind*.”

-Marshall Breeding

A sea change (2)

"…companies distinguish themselves through defining different futures for their library customers."

— **Marshall Breeding**
SCELC Colloquium
11 May 2010

Thank You!

Questions?

annette.dortmund@oclc.org

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