

신기술발표2

클라우드 기반 차세대 도서관 통합관리 서비스

홍준표(엑스리브리스(주) 대표이사)

제56차 국공립대학 도서관·정보학 학술세미나



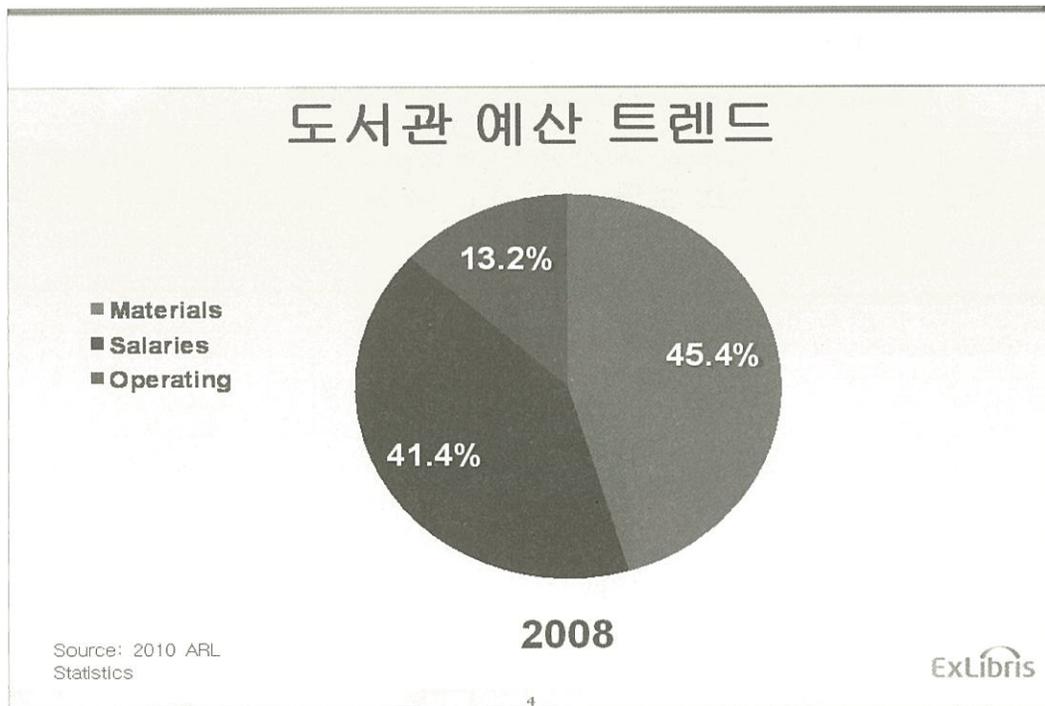
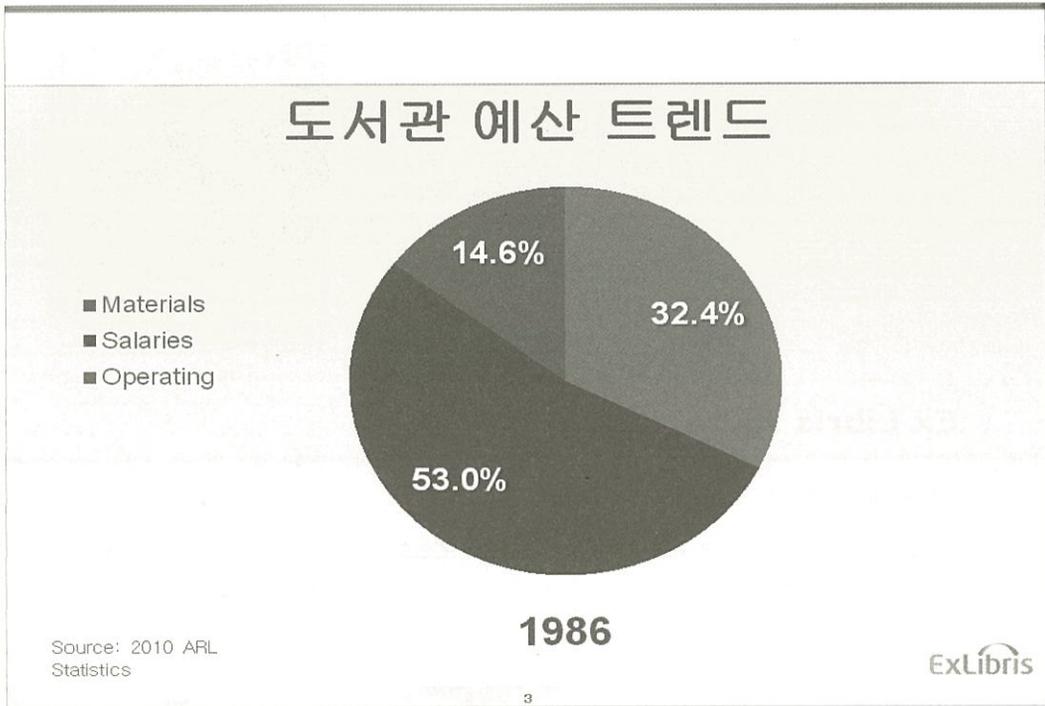
Ex Libris Alma

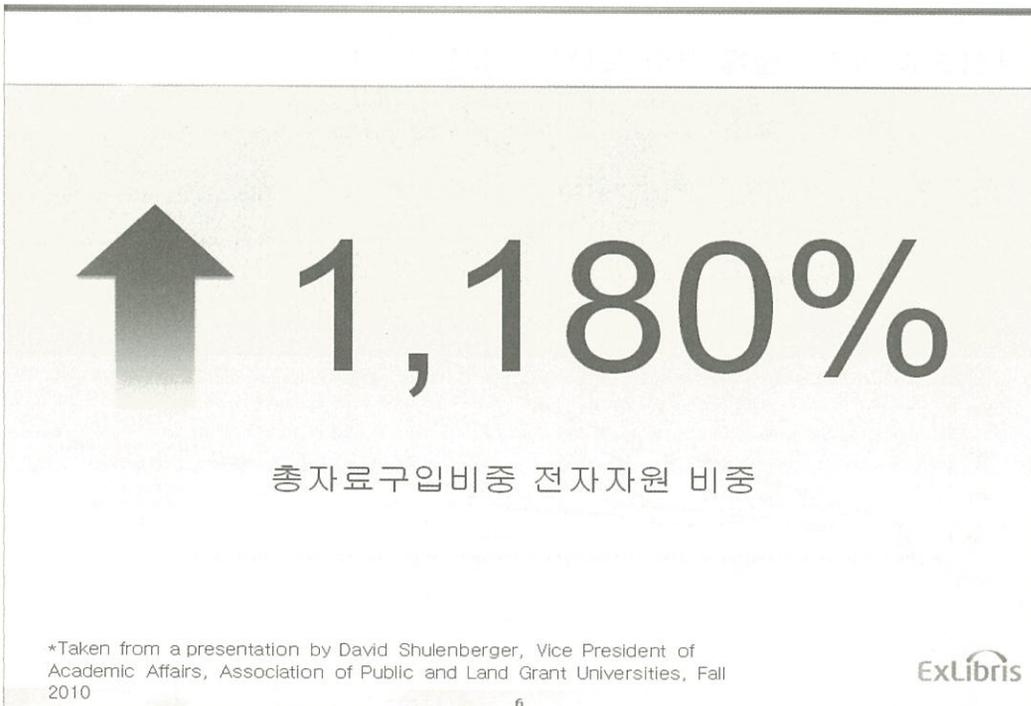
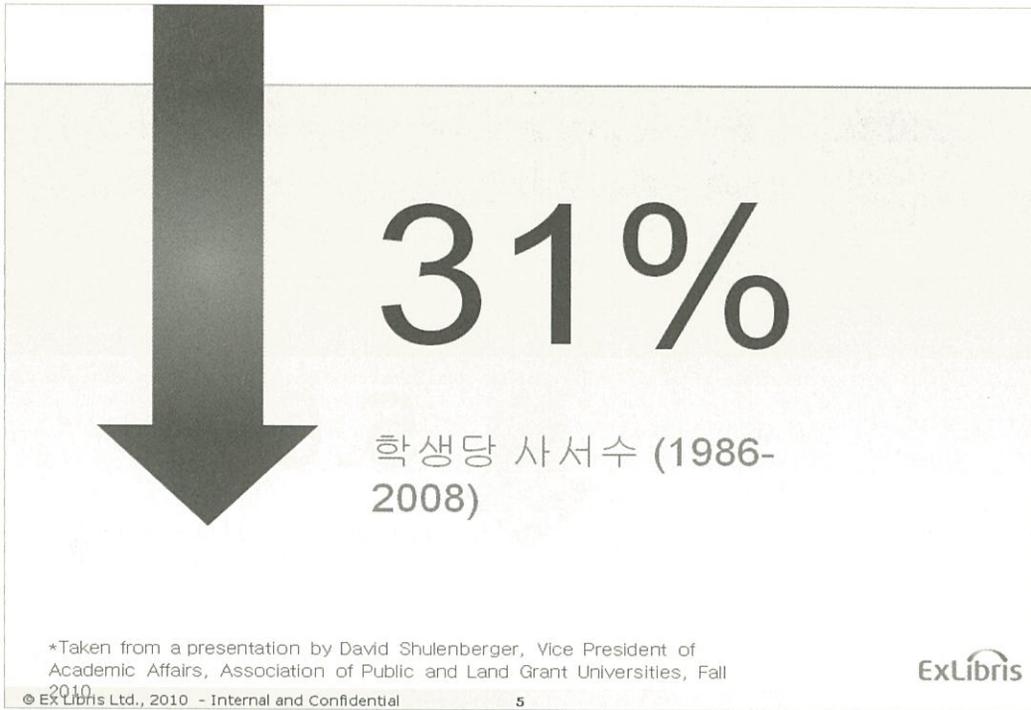
차세대 도서관 통합 관리 서비스
= Web-scale management services

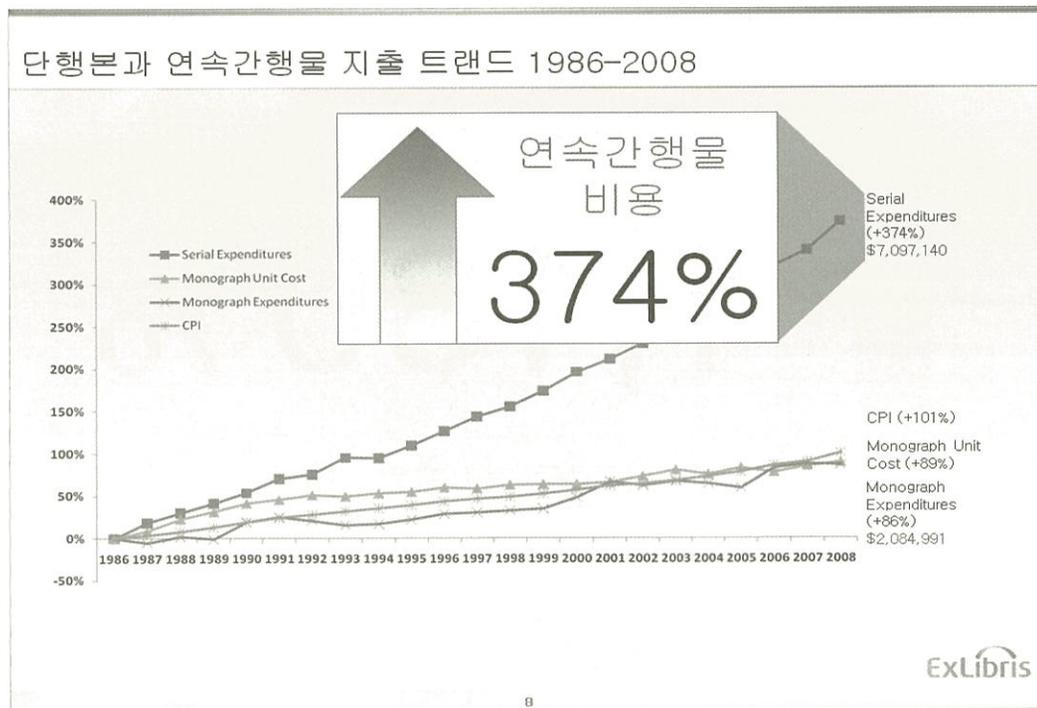
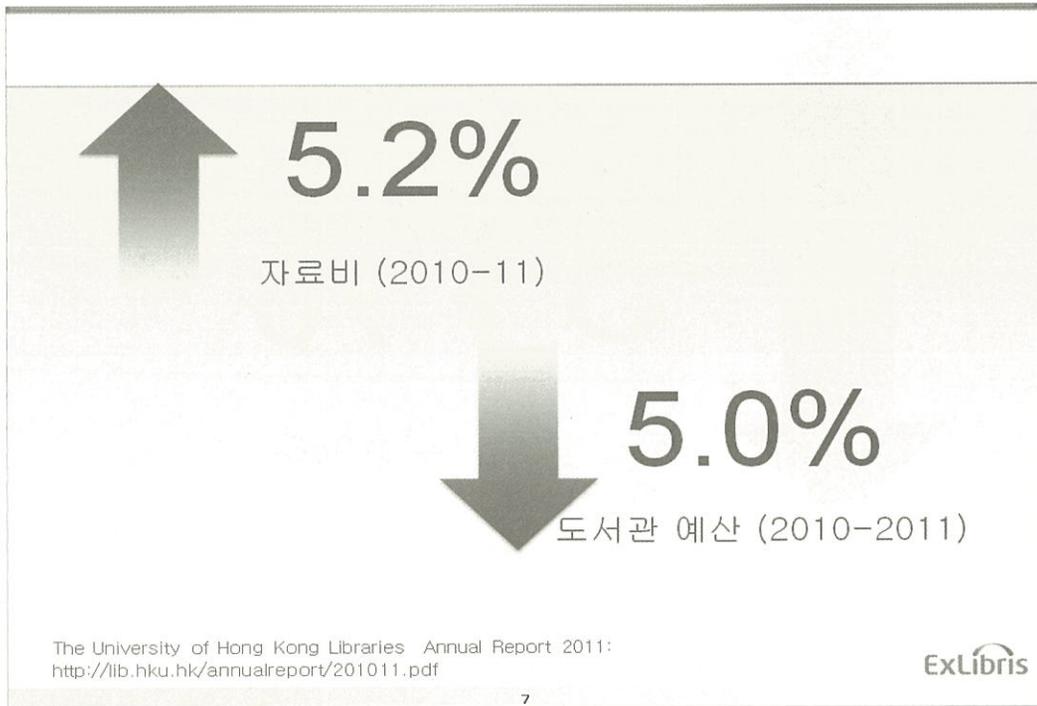


발표 내용

- 도서관 환경 트렌드
- Alma 소개









Boston College

58%

5년간 한번도
대출되지 않은 자료

38%

10년간 한번도
대출되지 않은
자료

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↓ 43%

대학전체 예산에서 도서관이
차지하는 비율 (3.7% → 2.1%)

*Taken from a presentation by David Shulenberger, Vice President of
Academic Affairs, Association of Public and Land Grant Universities, Fall
2010

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변화의 바람

Ownership → Access

Selection → Fulfillment

Just-in-case → Just-in-time

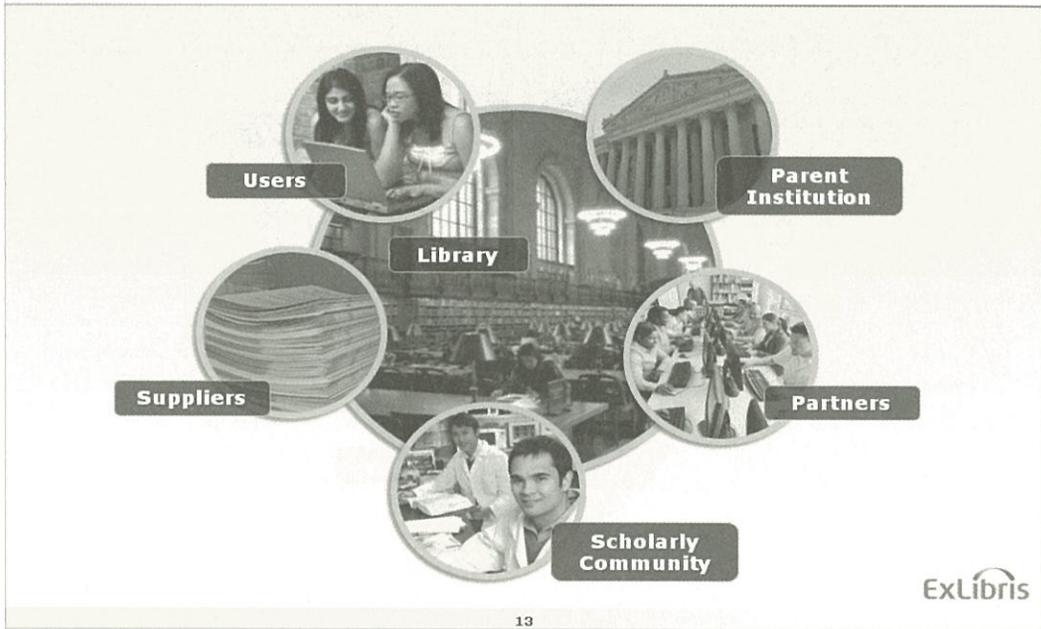
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The bridge to knowledge

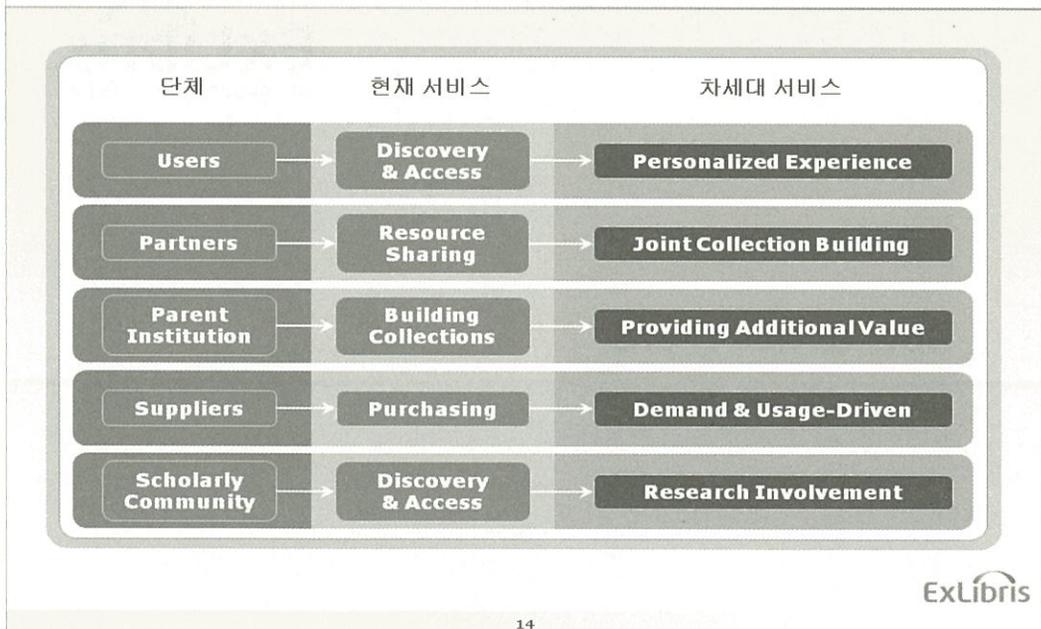
The Goal

차세대 도서관 서비스

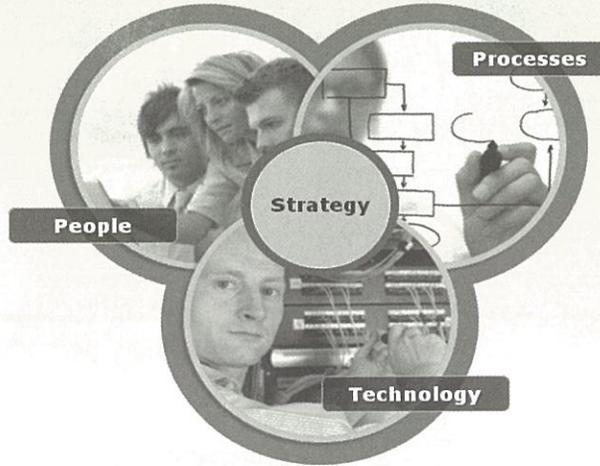
도서관과 관련된 단체



차세대 도서관 서비스의 방향



차세대 도서관 서비스를 위해서는 패러다임의 변화가 필요



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How to Get There

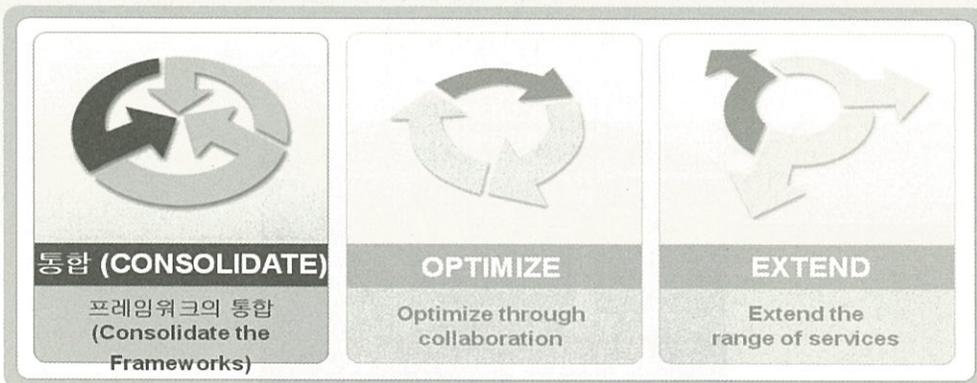
전략과 솔루션

전략 - 통합 자원 관리 (Unified Resource Management)



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전략 - 통합 자원 관리 (Unified Resource Management)

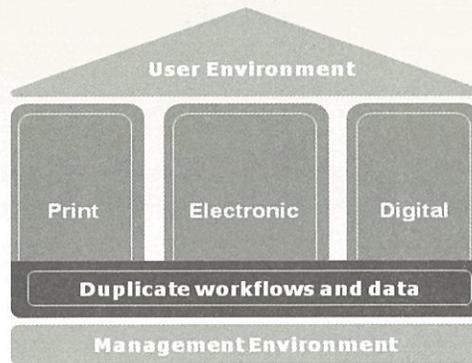


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프레임워크의 통합



포맷 기반의 수직적 시스템에서 서비스 기반의
수평적 워크플로로 전환



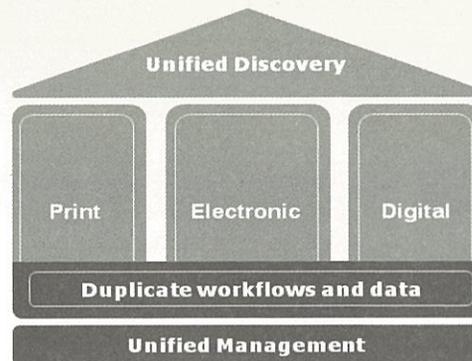
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프레임워크의 통합



포맷 기반의 수직적 시스템에서 서비스 기반의
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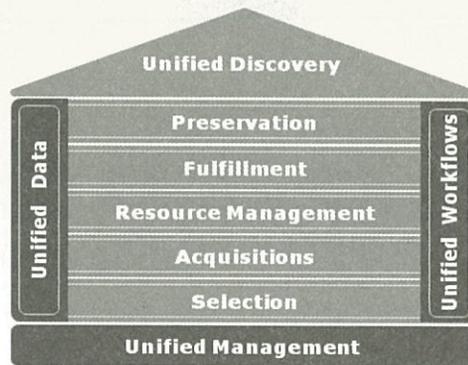
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프레임워크의 통합



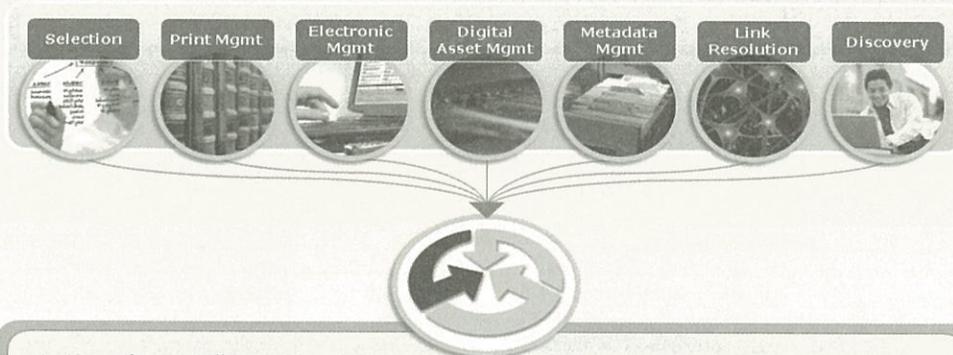
포맷 기반의 수직적 시스템에서 서비스 기반의
수평적 워크플로로 전환



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프레임워크의 통합 사례



- User-driven collection development
- Cross-format selection
- Combined acquisition and activation
- Multi-format metadata management
- Digitization on demand
- Usage-driven evaluation & renewal
- Overlap analysis – P, E, & D
- Unified fulfillment – P, E, & D
- Legal deposit of digital materials

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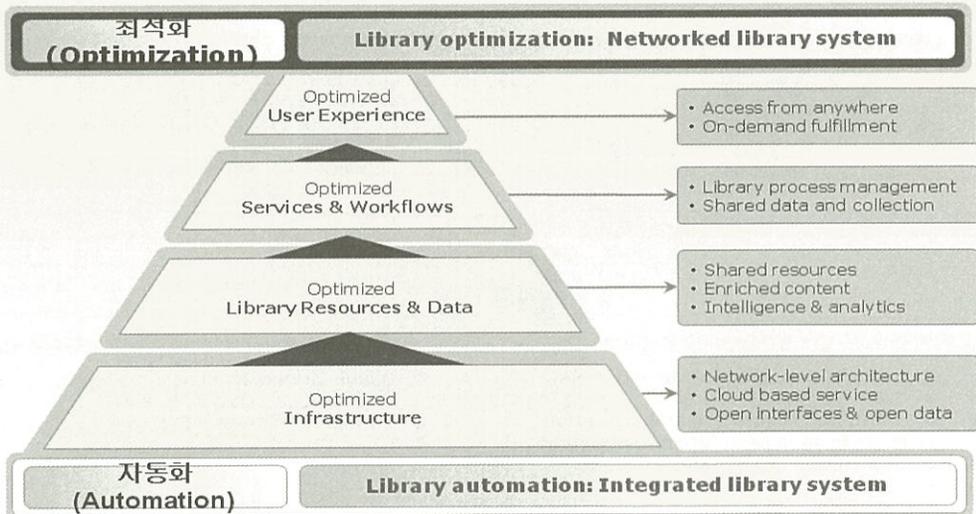
전략 - 통합 자원 관리 (Unified Resource Management)



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전략 - 협업을 통한 최적화 (Optimization)



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최적화된 인프라 - 네트워크가 도서관 서비스를 변혁



기술적 측면

- Multi tenancy
- Improved security
- Improved sharing
- Automatic upgrades
- Highly Elastic performance
- Minimal local effort (browser)



비즈니스 측면

- Lower TCO
- No initial investment
- Subscription cost model
- Accelerates time to value
- Frees technical staff to create new services

Alma의 기본 서비스 모델은
클라우드 기반

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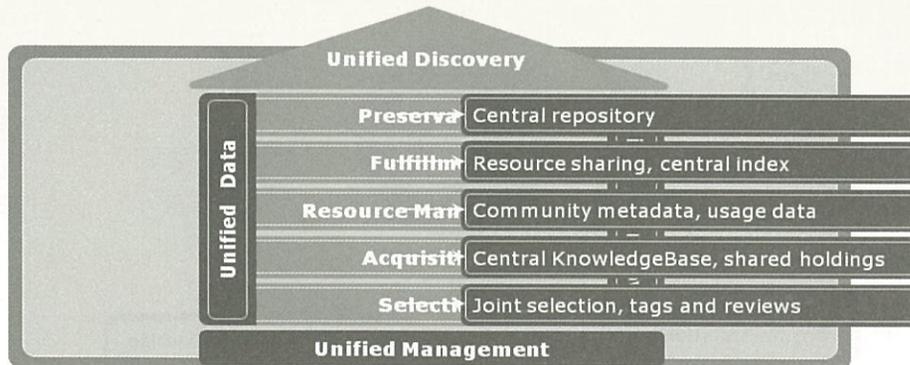
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협업을 위한 인프라



협업은 대학의 모든 전략 개발, 특별히 서비스 기능 레벨의 기본이 되어야 한다. **(Collaboration should undergird all strategic developments of the university, especially at the service function level.)**

-No Brief Candle



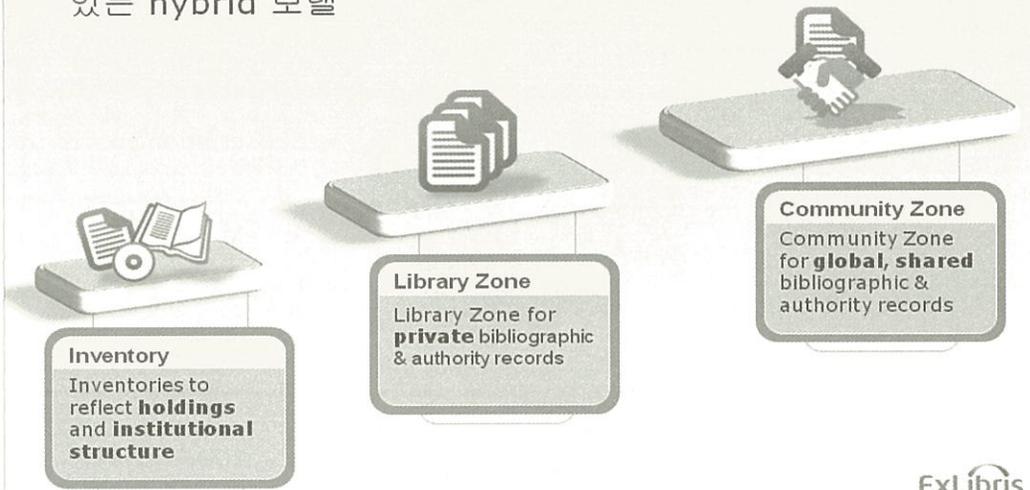
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협업을 통한 메타데이터 관리

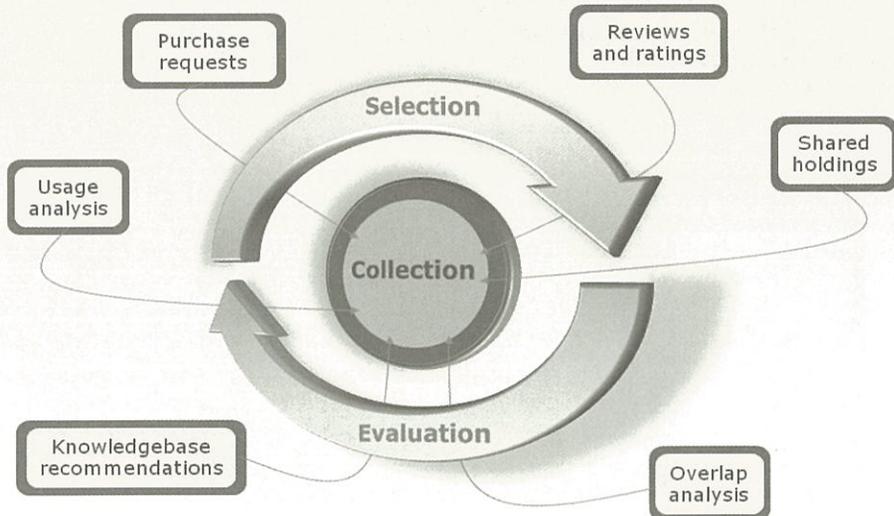


글로벌 공유와 로컬의 요구를 모두 충족시킬 수 있는 hybrid 모델



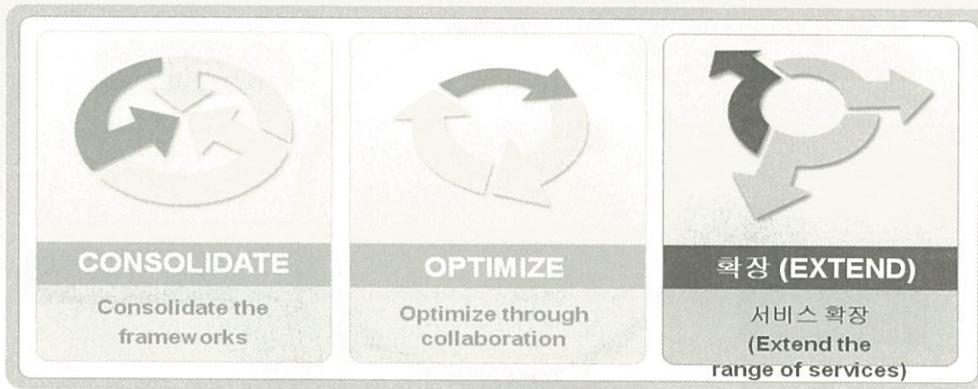
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스마트한 장서 개발 (Collection Development Intelligence)



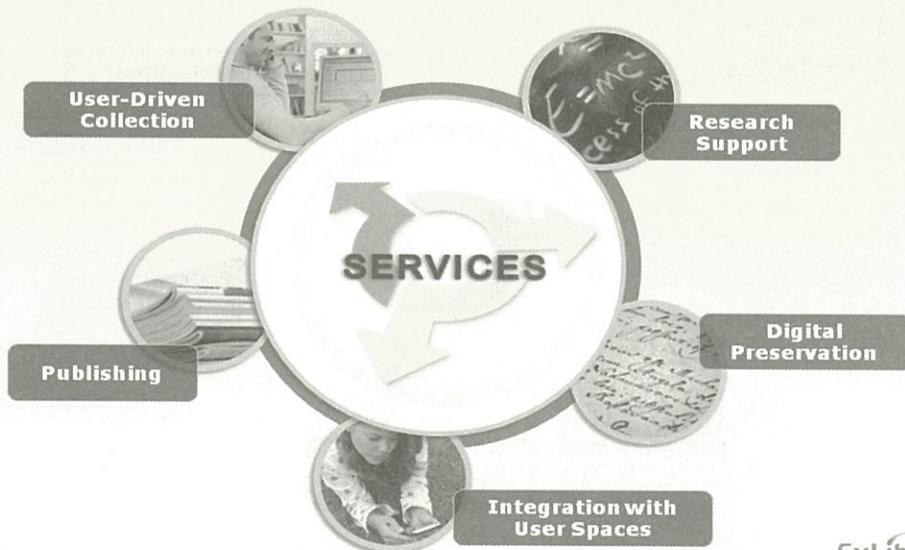
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전략 - 통합 자원 관리 (Unified Resource Management)

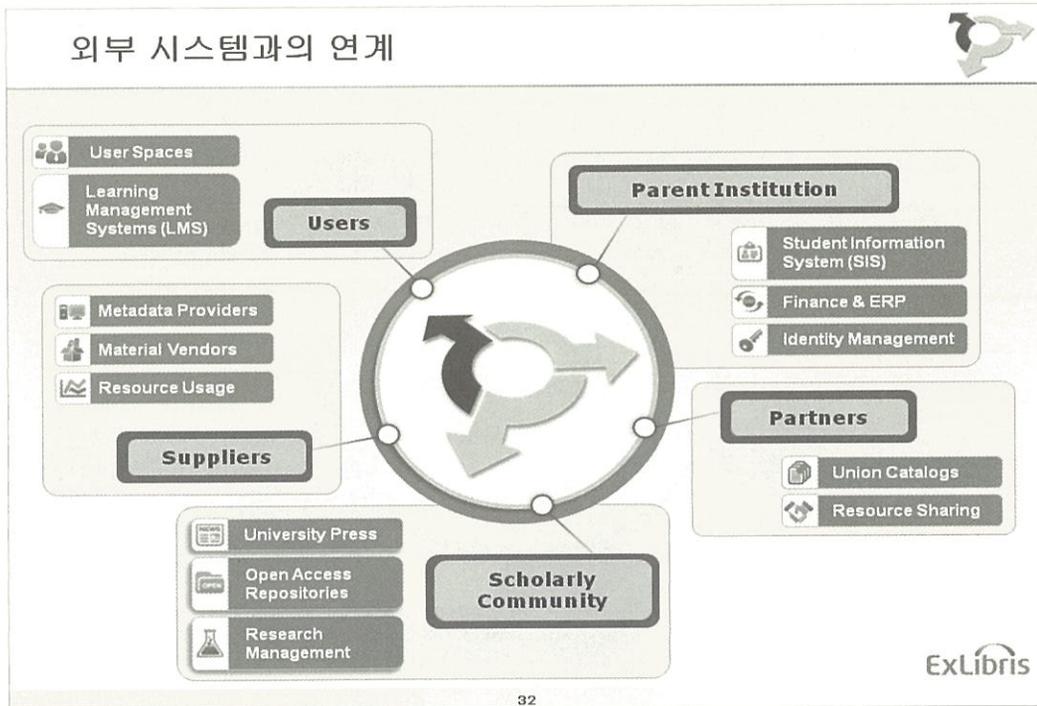


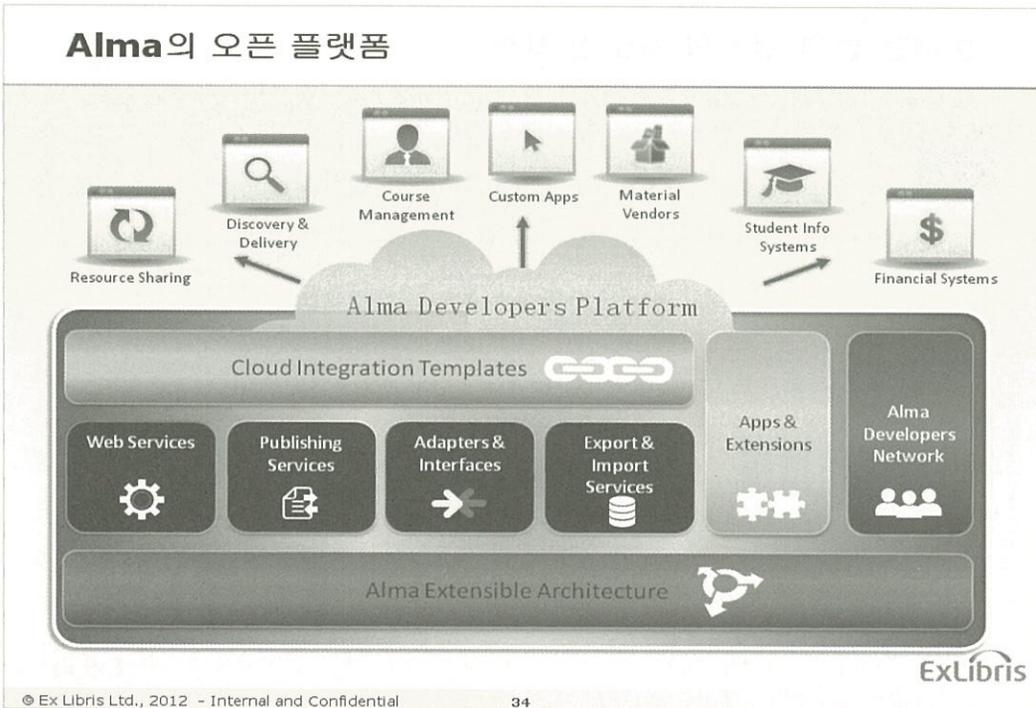
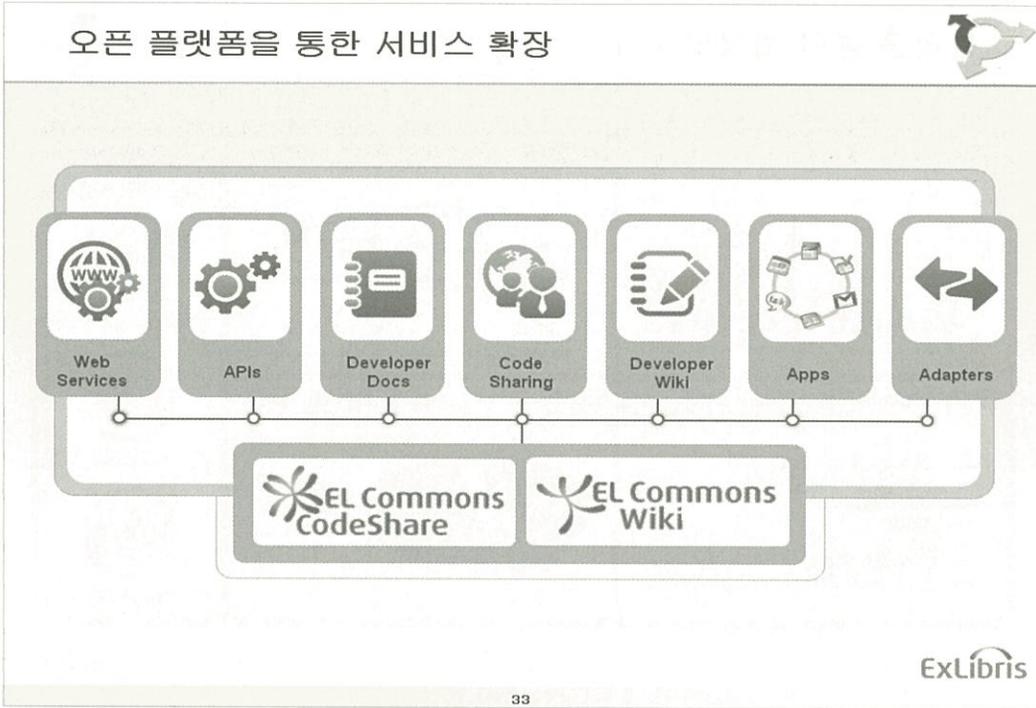
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도서관 서비스 확장

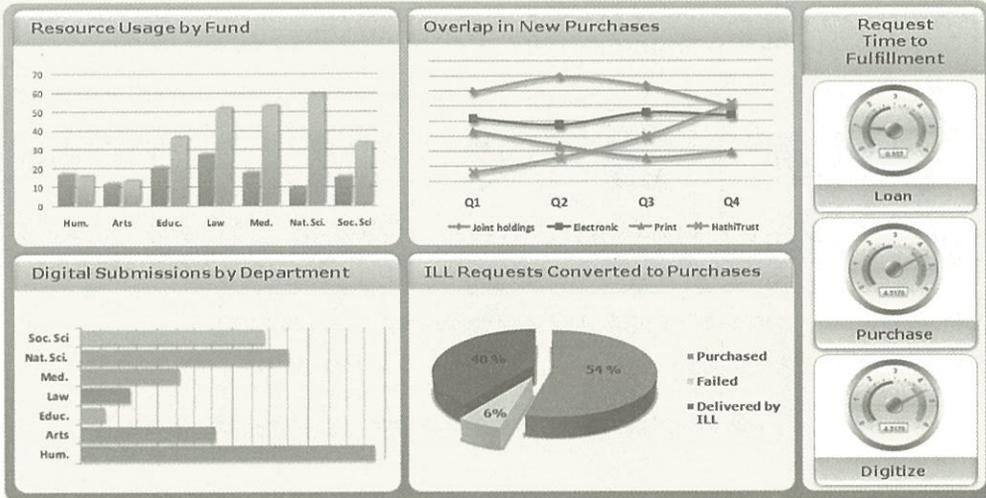


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분석을 통한 최적의 서비스 확장



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분석을 통한 최적의 서비스 확장



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PPV or PDA Model?
 향후 이용률 증감 전망은?
 타 도서관과 비교한 우리기관의 위치는?

Month	Institutions Like Me	Other Institutions
Jan	15,000	10,000
Feb	25,000	12,000
March	30,000	13,000
Apr	35,000	14,000
May	45,000	15,000
Jun	30,000	15,000
Jul	25,000	12,000
Aug	28,000	13,000
Sep	30,000	14,000
Oct	32,000	15,000
Nov	31,000	14,000
Dec	30,000	13,000

- Automatic triggers of business processes
- Predictive modeling and simulation
- What-if decision support
- Analysis and monitoring of operational performance
- Extraction and reporting of transaction level data

■ Institutions Like Me
 ■ Other Institutions

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전략 - 통합 자원 관리 (Unified Resource Management)

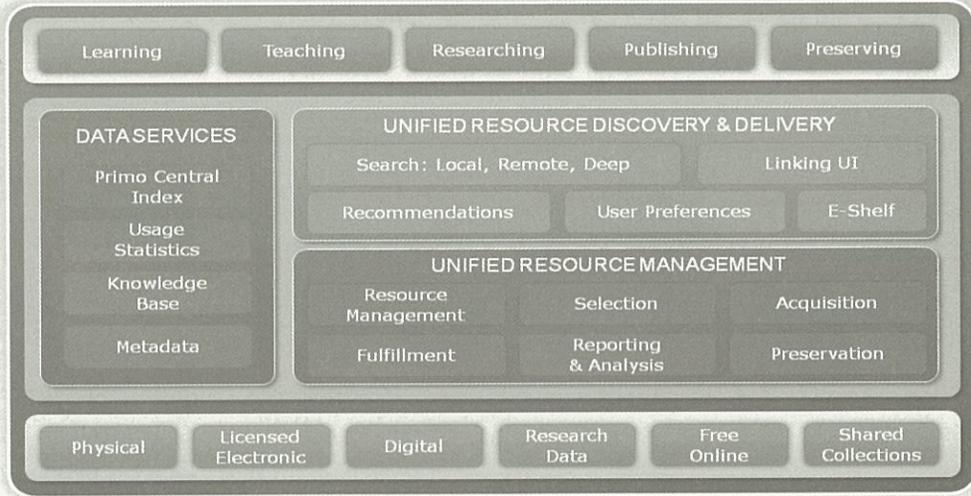
CONSOLIDATE
 Consolidate the frameworks

OPTIMIZE
 Optimize through collaboration

EXTEND
 Extend the range of services

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차세대 도서관 서비스 개념도



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엑스리브리스 Alma

Ex Libris Alma는 자료 유형에 관계없이 통합 관리를 가능하게 해 주고, 협업을 통한 효율성을 극대화함으로써 도서관이 새로운 부가가치 서비스를 제공할 수 있게 도와줍니다



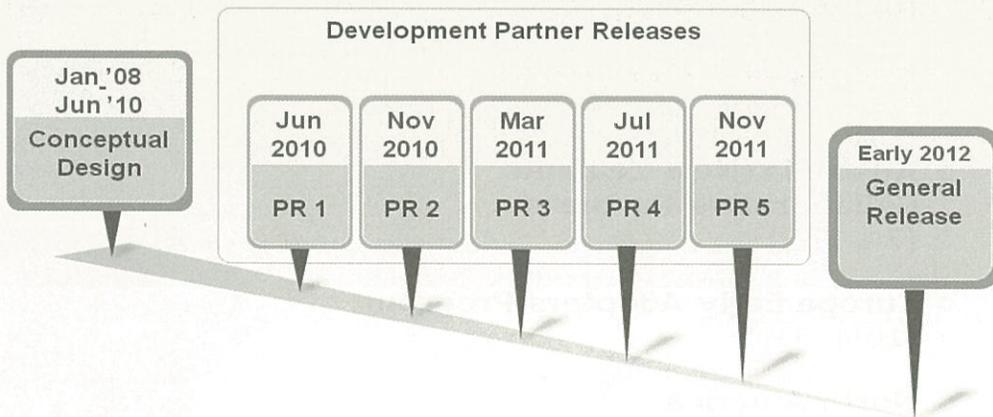
40

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Alma 개발 현황

Alma 개발 현황



매월 Alma 기능 업그레이드



The image displays three overlapping screenshots of the ExLibris Alma login interface, each highlighting a monthly release. Each screenshot includes the ExLibris Alma logo, a 'User Name' field, a 'Password' field, and a 'Login' button. Technical requirements for screen resolution and color depth are listed at the bottom of each page. The release announcements are:

- Alma May release:** Includes a decorative graphic of flowers and a bird.
- Alma June release:** Includes a decorative graphic of a bird and flowers. The announcement text states: "Alma Spring Addition is due on April 23 between 02:00-06:00 EDT during which the system might be down for a short time. To learn more, visit: <http://documentation.alma.com>".
- Alma July release:** Includes a decorative graphic of butterflies and a bird. The announcement text states: "Alma Spring Addition is due on April 23 between 02:00-06:00 EDT during which the system might be down for a short time. To learn more, visit: <http://documentation.alma.com>".

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전세계 파트너들과 함께 개발

- 
- **Development Partners**
(미국과 유럽의 4개 기관)
 - **Worldwide focus groups**
(60여개 기관)
 - **Australia/New Zealand Collaborative Partners**
(7개 기관)
 - **Europe Early Adopters Program**
(10여 기관)
 - **North America Early Adopters Program**
(10여 기관)
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개발 파트너

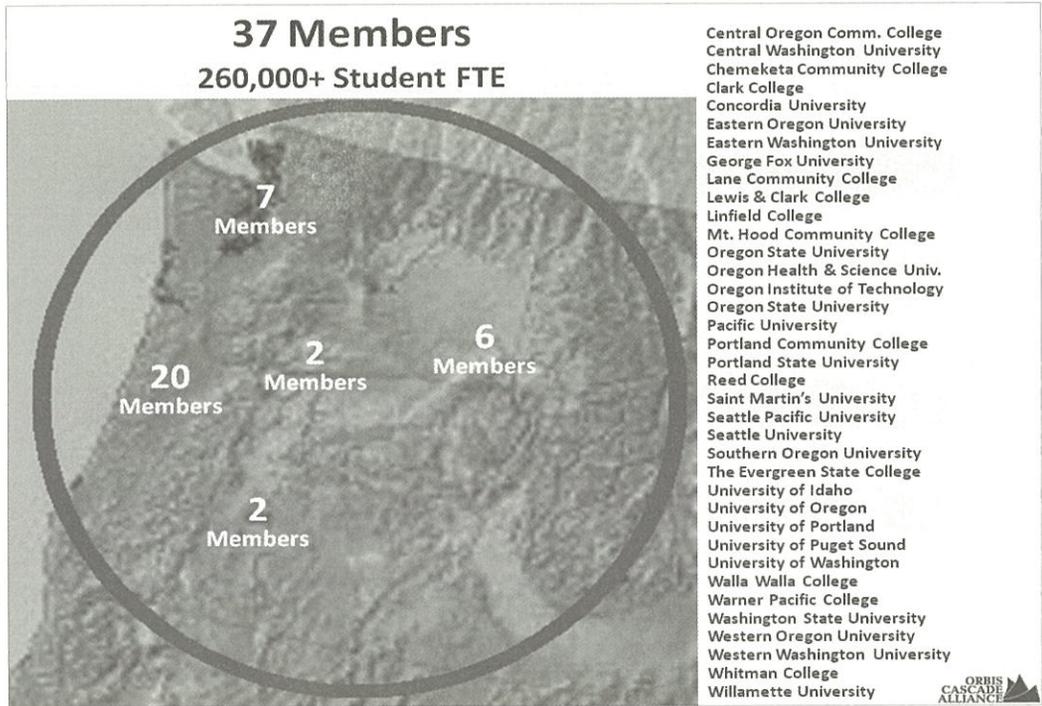
 <p>BOSTON COLLEGE</p>	Background	Key Areas of Collaboration
	<ul style="list-style-type: none"> ○ Boston, MA, USA ○ ~7M items ○ Current systems: Aleph, Verde, DigiTool, SFX, MetaLib, Primo 	<ul style="list-style-type: none"> ○ Course reading workflows ○ Reporting and analysis tools ○ Digital collection management
 <p>KATHOLIEKE UNIVERSITEIT LEUVEN</p>	Background	Key Areas of Collaboration
	<ul style="list-style-type: none"> ○ Leuven, Belgium ○ ~4M items (11 institutions) ○ Current systems: Aleph, Verde, DigiTool, SFX, MetaLib, Primo 	<ul style="list-style-type: none"> ○ Inter-institutional relationship management ○ Metadata mgmt. policies ○ Consortial service provision



개발 파트너

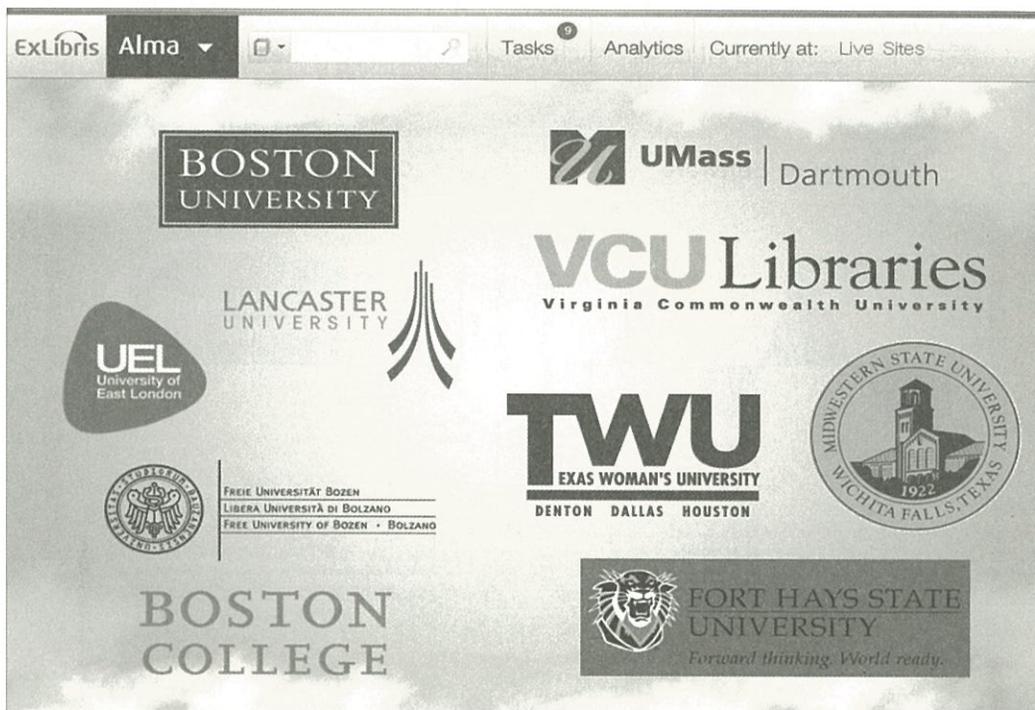
 <p>PRINCETON UNIVERSITY</p>	Background	Key Areas of Collaboration
	<ul style="list-style-type: none"> ○ Princeton, NJ, USA ○ ~14M items ○ Current Systems: Voyager, Meridian, SFX, Meta Lib 	<ul style="list-style-type: none"> ○ Cataloging workflows ○ Workflow streamlining ○ Institutional systems integration
 <p>PURDUE UNIVERSITY</p>	Background	Key Areas of Collaboration
	<ul style="list-style-type: none"> ○ West Lafayette, IN, USA ○ ~6.5M items ○ Current systems: Voyager, SFX, MetaLib 	<ul style="list-style-type: none"> ○ Descriptive metadata for digital content ○ E-Research workflows & systems interoperability





아시아 최초의 **Early Adopt Program Partner**
(서울대학교)

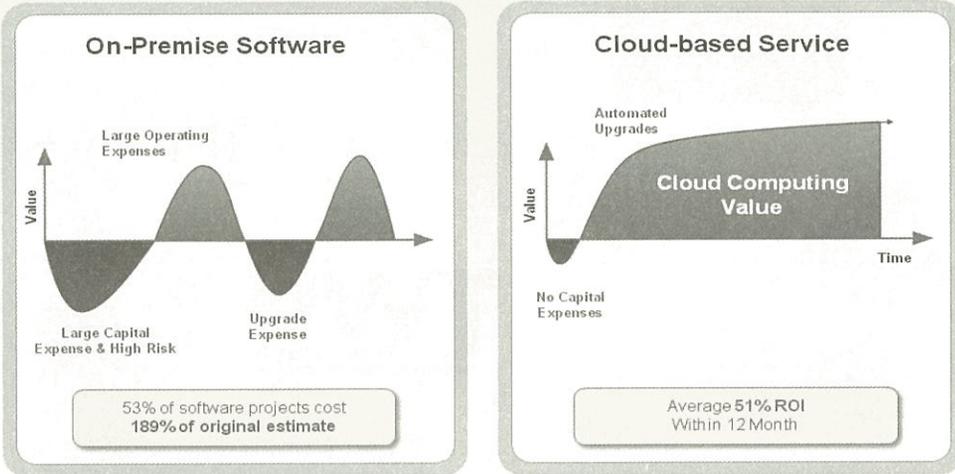




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차세대 시스템으로 왜 **Alma**를 선택해야 하는가?

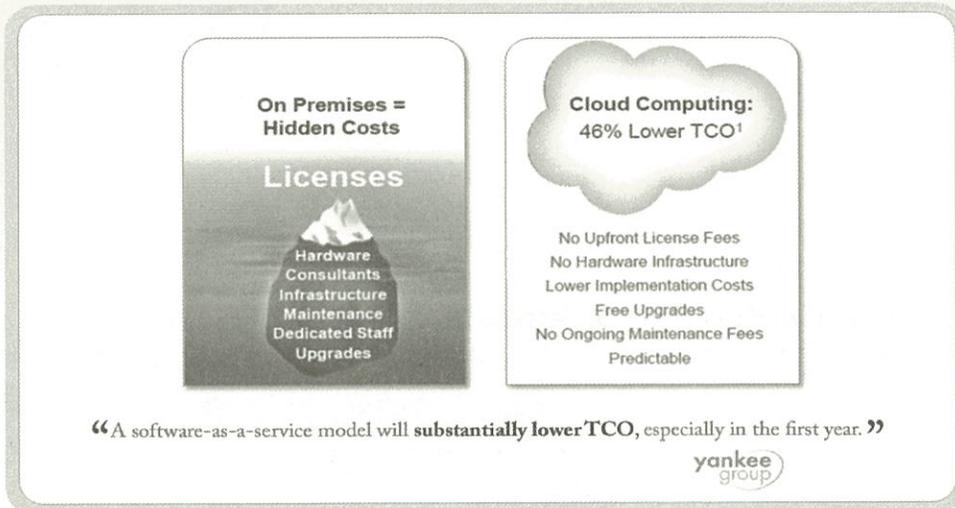
클라우드는 최단시간에 서비스 가치를 구현하게 함



¹ Standish Group, Chaos Report 2006
² Third-Party CustomerSat Research on 3,500 Salesforce.com customers, December 2008



클라우드는 총소유비용 (TCO) 절감을 가능하게 함



¹Source: Yankee Group: Hosted vs. Premise based Sales Solutions: TCO and Trade Offs



아시아 국가의 클라우드 준비 현황

The Cloud Readiness Index

	Data Privacy	International Connectivity	Data Sovereignty	Broadband Quality	Government online services and ICT Privatization	Power Grid and Green Policy	Intellectual Property Protection	Business Sophistication	Data Center Risk	Freedom of Information Access	Cloud Readiness Index	Rank	Change since 2011
Japan	9.0	10.0	5.6	7.6	7.9	7.8	7.6	8.4	6.0	8.9	78.8	1	▲
Korea	9.0	8.0	6.2	9.0	9.1	7.1	5.9	6.9	7.4	7.7	76.3	2	▲
Hong Kong	7.5	7.4	7.6	7.6	8.4	5.7	7.9	7.1	8.0	8.7	75.9	3	▲
Singapore	4.5	9.2	8.1	6.3	9.5	5.7	8.7	7.3	6.4	7.1	72.8	4	▲
Taiwan	7.0	7.5	5.9	6.1	8.8	7.1	7.1	7.5	6.5	8.9	72.4	5	▲
New Zealand	9.0	1.3	8.1	5.4	7.8	8.3	8.3	6.6	7.1	8.9	70.8	6	▲
Australia	7.5	2.7	7.3	6.0	8.2	7.5	7.6	6.7	5.6	8.6	67.7	7	▲
Malaysia	7.5	4.6	5.6	3.7	8.2	6.2	7.0	7.1	6.2	6.9	63.0	8	▲
India	6.0	8.4	4.7	2.4	6.3	3.3	5.0	6.1	3.1	7.6	52.7	9	▲
China	4.0	5.0	3.5	3.5	6.6	4.5	5.7	6.2	5.1	7.1	51.2	10	▲
Indonesia	6.0	4.8	2.1	2.2	5.7	4.9	5.1	6.0	3.1	7.2	47.1	11	▲
Philippines	2.5	4.6	4.3	2.3	5.5	3.8	4.0	5.9	3.6	7.5	46.0	12	▲
Thailand	3.0	2.8	1.5	5.9	5.5	4.8	4.4	6.0	3.6	7.4	44.9	13	▲
Vietnam	5.0	3.2	3.9	2.2	5.9	3.8	3.6	5.3	5.4	6.6	44.9	13	▲

Asia Cloud Computing Association report, 2012

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Alma는 최적화된 도서관 서비스 제공



- ▶ 도서관 서비스 확장
- ▶ 도서관 가치 극대화
- ▶ 이용자 experience 향상

- ▶ 자원 활용의 최적화
- ▶ 협업을 통한 업무량 감소
- ▶ 간소화된 워크플로우를 통한 생산성 향상



- ▶ 통합으로 인한 시스템 가치 향상
- ▶ 총소유비용 감소
- ▶ 단순 서버 운영이 아니라, 정보를 활용한 부가가치 창출 기여

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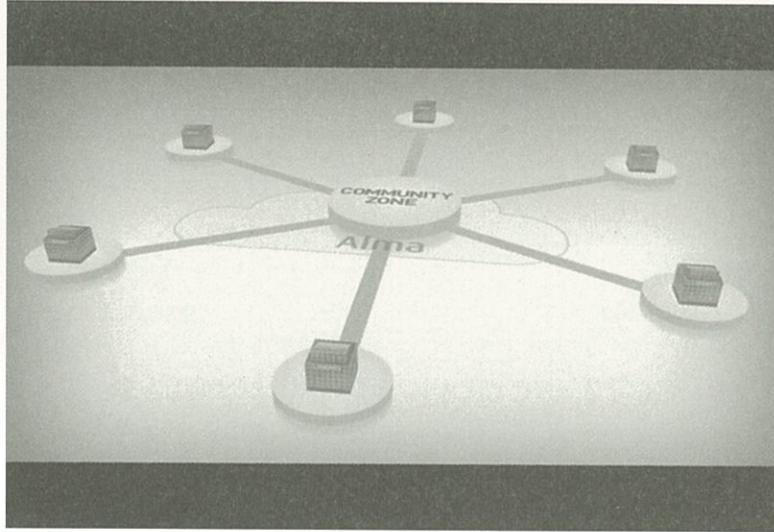
총소유비용 (TCO) 감소 및 ROI 극대화

Reduce IT	Minimize Admin	Decrease Complexity & Silos	>30%	>10%	>10%
100%	>50%	>40%	Increase Productivity	Optimize Collection Usage	Extend Services
Cloud service	Ease of use and integration	Unified Resource Management	Optimized workflows & sharable data	User-driven collection development	Collaborative & Open platform

Alma의 특징점

통합 시스템 (Unified by Design) Single solution (not collection of services)	오픈 데이터 정책 (Open Data Policy) Customer ownership and open reuse	다양한 워크플로우 (Rich Workflows) Reflecting best-of-breed practices
파워풀한 분석 툴 (Analytics-Driven) Data-driven decision making	로컬과 글로벌 데이터 (Shared and Unique Data) Hybrid model - local and community zone	업무 중심 (Task-Oriented) User-centric - pull (search) & push (notification)
다양한 포맷 지원 (Multi-Format Support) Multi-format metadata & inventory management	디스커버리 스탠다드 지원 (Discovery Neutrality) Freedom and open standards	컨소시엄 기능 지원 (Flexible Consortia) Efficient management

Alma 비디오



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감사합니다

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