folio

future of libraries is open

Shanghai

Dec 12, 2019

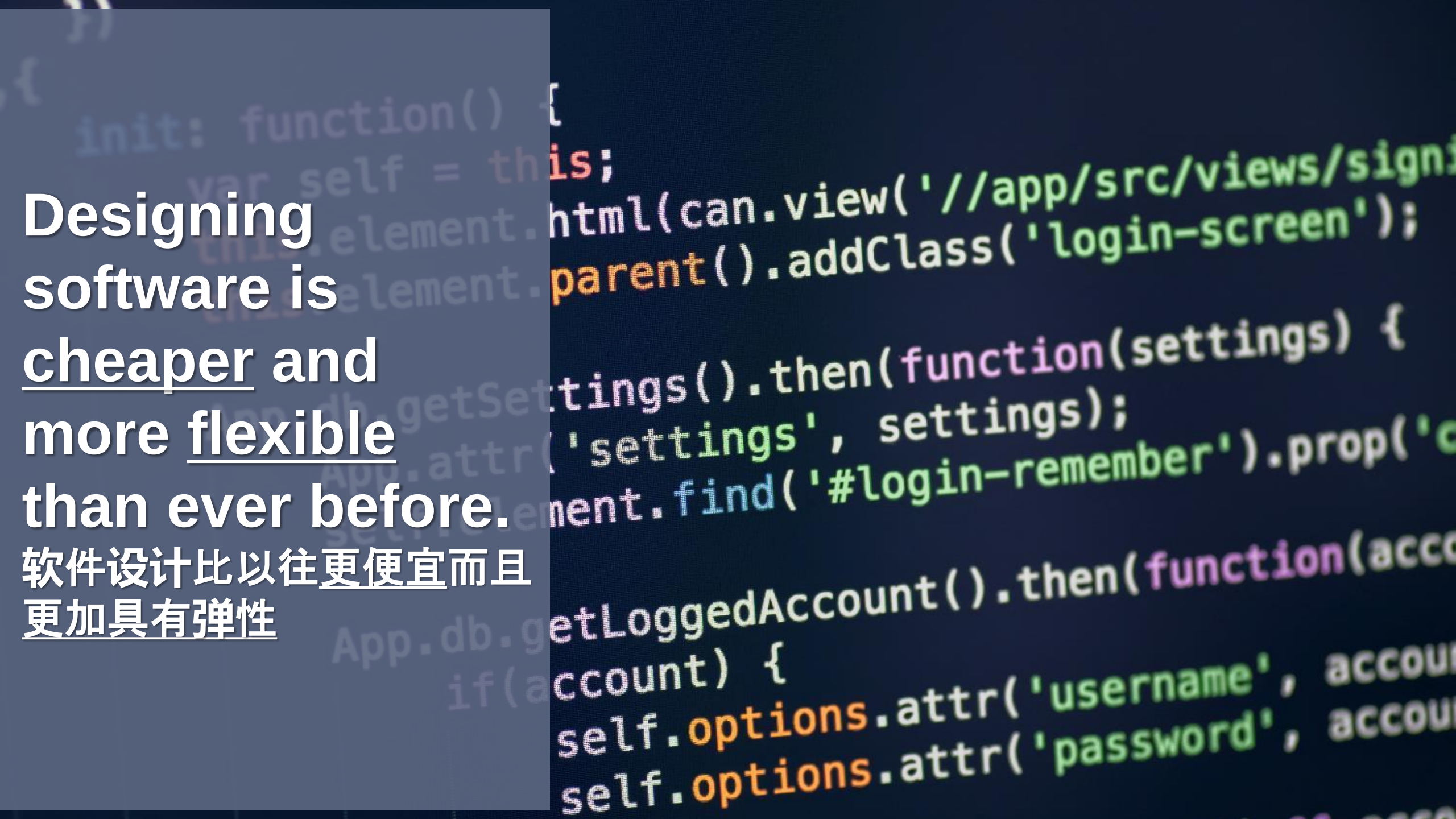
FOLIO Tech Innovations

FOLIO创新技术初探

Qi Zhou 周奇
高级系统工程师
EBSCO Information Services

Library technology stacks are more diverse than ever before.

图书馆科技比以往更加多样化


Designing software is cheaper and more flexible than ever before.
软件设计比以往更便宜而且更加具有弹性
{
is;
html(can.view('//app/src/views/signi
parent().addClass('login-screen');
ttings().then(function(settings) {
'settings', settings);
ment.find('#login-remember').prop('c
etLoggedAccount().then(function(acco
ccount) {
self.options.attr('username', accou
self.options.attr('password', accou

However, libraries have less choices than ever before.

但是，图书馆的选择却比以往更少

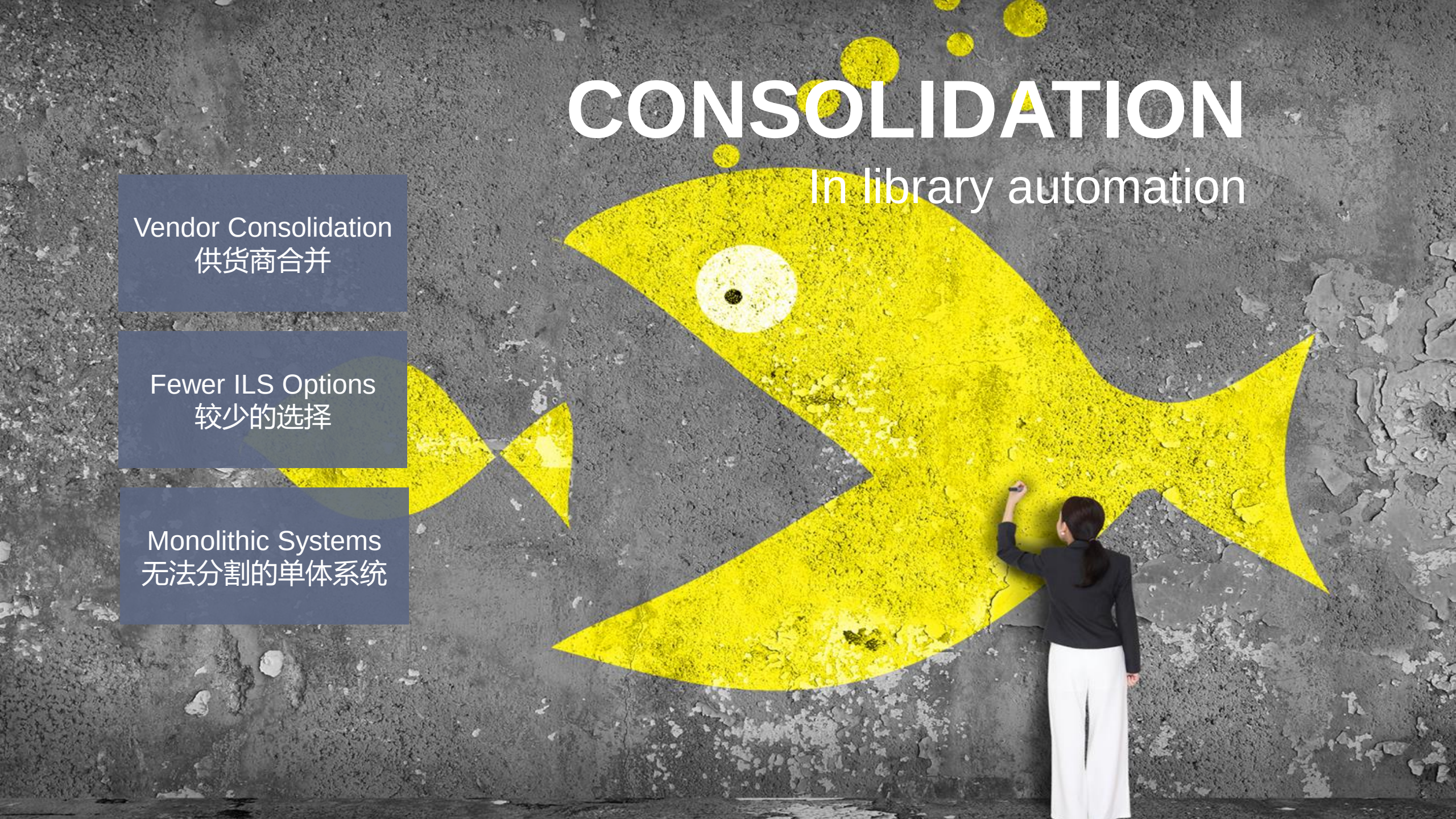
CONSOLIDATION

In library automation

Vendor Consolidation
供货商合并

Fewer ILS Options
较少的选择

Monolithic Systems
无法分割的单体系统



ExLibris
a ProQuest Company

A Message from EBSCO to the Library Community

Ex Libris Sig

Librarianship | December 09,

Further consolidation in the ILS space
this point forward will shape the futur

For EBSCO, our position has never wav
continue to work to ensure that our va
interoperate with any other open syst
recent acquisition news, our desire to

EBSCO is dedicated to the principles a
open system philosophies, microservi
sharing ideas and developing modern
leverage the FOLIO platform to develo
on creating a new and open approach

To clear up any confusion that may ex
strong sense of pride in what FOLIO re
and thank all of the libraries and vend

Share

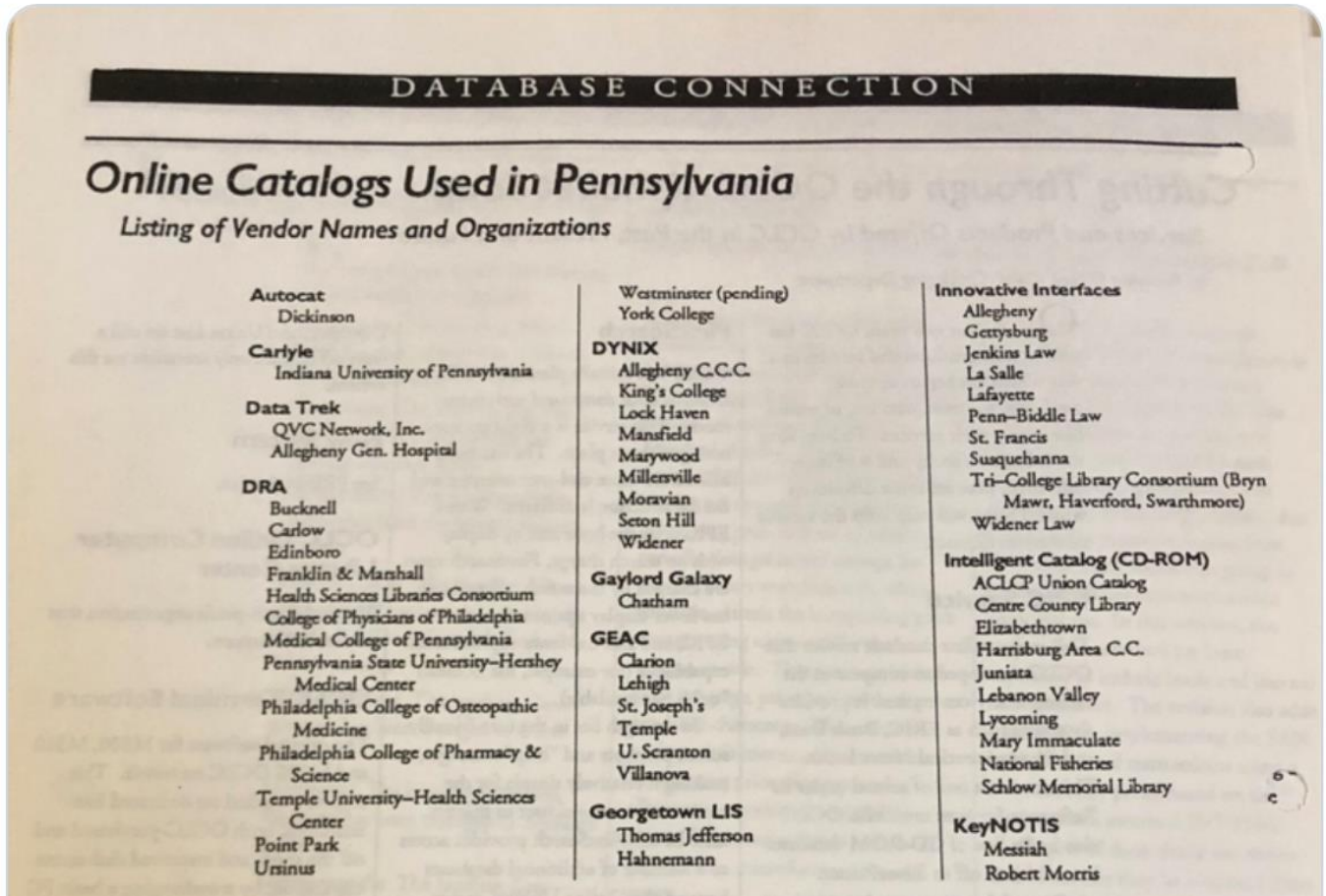
Chicago, Il

Customers
expertise, g

Chicago, Illi
ProQuest co
to acquire In
public, academic, and
Ex Libris. The Innovati
continue to be suppor

Ruth Bright-Needle @platypus@glammr.us
@ruthbrarian

In light of iii being eaten by ExLibris, let's look at the number of catalog vendors/systems used in Pennsylvania in 1992



DATABASE CONNECTION

Online Catalogs Used in Pennsylvania

Listing of Vendor Names and Organizations

Autocat
Dickinson

Carlyle
Indiana University of Pennsylvania

Data Trek
QVC Network, Inc.
Allegheny Gen. Hospital

DRA
Bucknell
Carlow
Edinboro
Franklin & Marshall
Health Sciences Libraries Consortium
College of Physicians of Philadelphia
Medical College of Pennsylvania
Pennsylvania State University–Hershey Medical Center
Philadelphia College of Osteopathic Medicine
Philadelphia College of Pharmacy & Science
Temple University–Health Sciences Center
Point Park
Ursinus
Westminster (pending)
York College

DYNIX
Allegheny C.C.C.
King's College
Lock Haven
Mansfield
Marywood
Millersville
Moravian
Seton Hill
Widener

Gaylord Galaxy
Chatham

GEAC
Clarion
Lehigh
St. Joseph's
Temple
U. Scranton
Villanova

Georgetown LIS
Thomas Jefferson
Hahnemann

Innovative Interfaces
Allegheny
Gettysburg
Jenkins Law
La Salle
Lafayette
Penn–Biddle Law
St. Francis
Susquehanna
Tri–College Library Consortium (Bryn Mawr, Haverford, Swarthmore)
Widener Law

Intelligent Catalog (CD-ROM)
ACLCP Union Catalog
Centre County Library
Elizabethtown
Harrisburg Area C.C.
Juniata
Lebanon Valley
Lycoming
Mary Immaculate
National Fisheries
Schlow Memorial Library

KeyNOTIS
Messiah
Robert Morris

folio

FOLIO Announcement

June 24, 2016

Introducing FOLIO — A new collaboration bringing libraries, service providers and developers together ***to speed innovation*** *and* ***redefine the future of library automation***

一种新的协作方式，将图书馆，服务提供商和开发人员聚集在一起加快创新并重新定义图书馆自动化系统的未来。

folio

future of libraries is open

[图 书 馆 的 开 放 未 来]

利用**开源技术**以及**协同社群**为基础的方式来促进、创新和重塑图书馆服务，迎接图书馆的开放未来

不被商家捆绑	不受传统技术限制	充满活力的生态系统
OPEN INNOVATION	MICROSERVICES ARCHITECTURE	VIBRANT ECOSYSTEM

- FOLIO是一个**开源社区**，旨在开发一个开源的图书馆服务平台
- 图书馆、技术人员、服务商以及厂商**共同合作**
- 重新定义图书馆自动化，将图书馆**扩展**到新领域
- 基于**微服务**的模块化、可定制、支持协作的应用架构，具有完全的开放性，灵活的可扩展性

总价值340亿美元 IBM终于成功收购了Red Hat

2018-10-30 00:18　出处：PConline原创　作者：Wesley

t所

开

来

微软公布75亿美元收购GitHub：包含13亿现金支付

2018-11-12 14:50　出处：其他　作者：PConline

【PConline资讯】早在6月份，微软就宣称要收购编码托管创业公司GitHub的事情闹得沸沸扬扬，如今终于落下帷幕。

据外媒报道，微软公司近日宣布正式完成对GitHub的收购，交易金额达到75亿美元，其中包含13亿美元的现金支付GitHub股权奖励和托管赔偿，该交易已于10月25日结束。

此次收购GitHub也是微软迄今最大的收购交易之一，仅次于LinkedIn、Skype和诺基亚手机部门。在收购GitHub之前，微软就开始努力吸引开发者社区，向他们证明微软是诚心诚意注重技术开发。比如它在GitHub开源了全部NET框架、推出了丰富的系统层面的Windows功能，将丰富的Unix壳资源带到了GitHub平台，从而让开发工作变得更加容易、成为GitHub平台上开源代码的最大贡献者等等，如此费劲心力的诚意收购，可

folio

The Initial Partners

FOLIO Library Community

CHALMERS
UNIVERSITY OF TECHNOLOGY

Duke
UNIVERSITY

NC STATE
UNIVERSITY

THE UNIVERSITY OF
ALABAMA

UWI

UNIVERSITÄT LEIPZIG

Cornell University

UMASS
AMHERST

hbz

ibict

SOAS
University of London

AUBURN

GBV | VZG

UNAM

Universidad Nacional
Autónoma de México

University
of Glasgow

CHARLES
UNIVERSITY
IN PRAGUE

Jisc

LEHIGH
UNIVERSITY

FIVE COLLEGE
CONSORTIUM

THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

SHANGHAI JIAO TONG UNIVERSITY

SHANGHAI LIBRARY

SAPIENZA
UNIVERSITÀ DI ROMA

Fenway
Libraries
Online
flo.org

China Academic Library and
Information System (CALIS)

CALIS

Universität Bremen

folio

中国 SIG

Pages
Blog

SPACE SHORTCUTS
相关论文及资料

PAGE TREE
- FOLIO Day相关报道及资料
- FOLIO的十万个为什么
- FOLIO相关活动和会议
- FOLIO相关视频资料
- 上海图书馆LSP Wiki
- 上海市图书馆行业协会FOLIO技术及应用联盟
- 相关论文及资料
- 社区会议纪要
- 社区会议通知

Space tools

Dashboard

中国 SIG Home

Created by Peter Murray, last modified by cjzhang on Jul 08, 2019

欢迎来到中国SIG。本SIG由上海图书馆负责更新和维护。

SLACK上的中国SIG频道：https://folio-project.slack.com/

DISCUSS上的中国SIG讨论区：https://discuss.folio.org/c/local/China

欢迎各位感兴趣的朋友加入一起交流和讨论。

Today

December 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

关于我们

这里是探讨和交流FOLIO项目在中国实施的一个沟通平台。

欢迎对FOLIO感兴趣的同行和朋友们关注我们。

EMAIL：
cjzhang@libnet.sh.cn

Telephone：021-54565210

上海圖書館 SHANGHAI LIBRARY

Join this project Localize your project

FOLIO

LANGUAGES	TEAM	COMPLETED	KEYS	STRINGS	WORDS TOTAL
17	37	51%	4760	42041	127744

98.7% **Arabic**
12742 WORDS TOTAL
159 WORDS TO DO

99.9% **English**
12616 WORDS TOTAL
BASE

1% **French**
9 WORDS TOTAL
12615 WORDS TO DO

89.4%

Chinese Simplified

25417 WORDS TOTAL
1336 WORDS TO DO

0% **French (France)**
0 WORDS TOTAL
12616 WORDS TO DO

19.5% **German**
2295 WORDS TOTAL
10151 WORDS TO DO

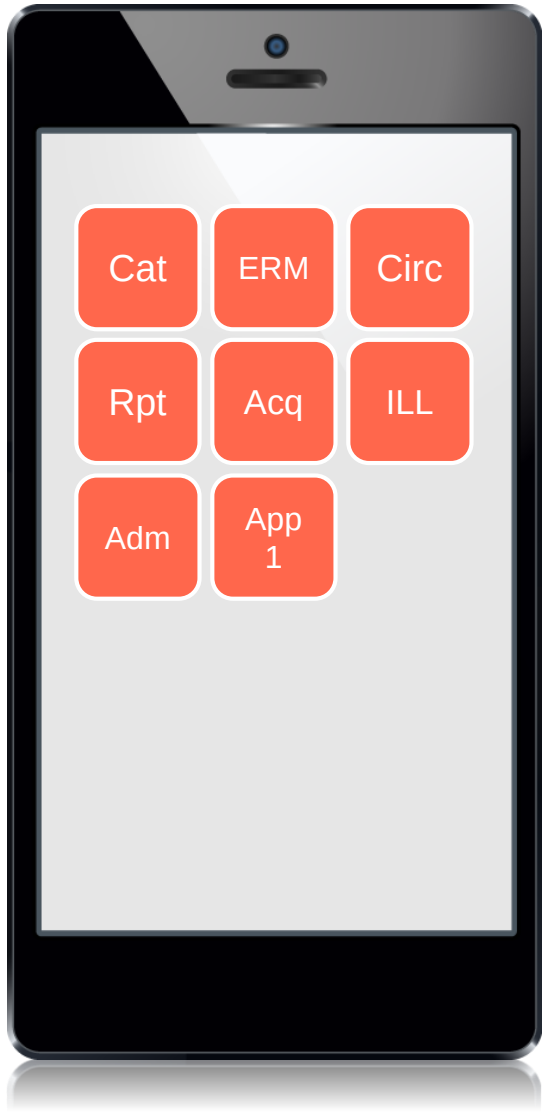
1% **Danish**
8 WORDS TOTAL
12606 WORDS TO DO

95.1% **English (United States)**
11996 WORDS TOTAL
615 WORDS TO DO

50.7% **Hungarian**
6172 WORDS TOTAL
6216 WORDS TO DO

http://openlibraryfoundation.org/about/wolfcon/upcoming/

FOLIO Platform
FOLIO平台



模块化的应用程序

建立在开放、可扩充的平台上

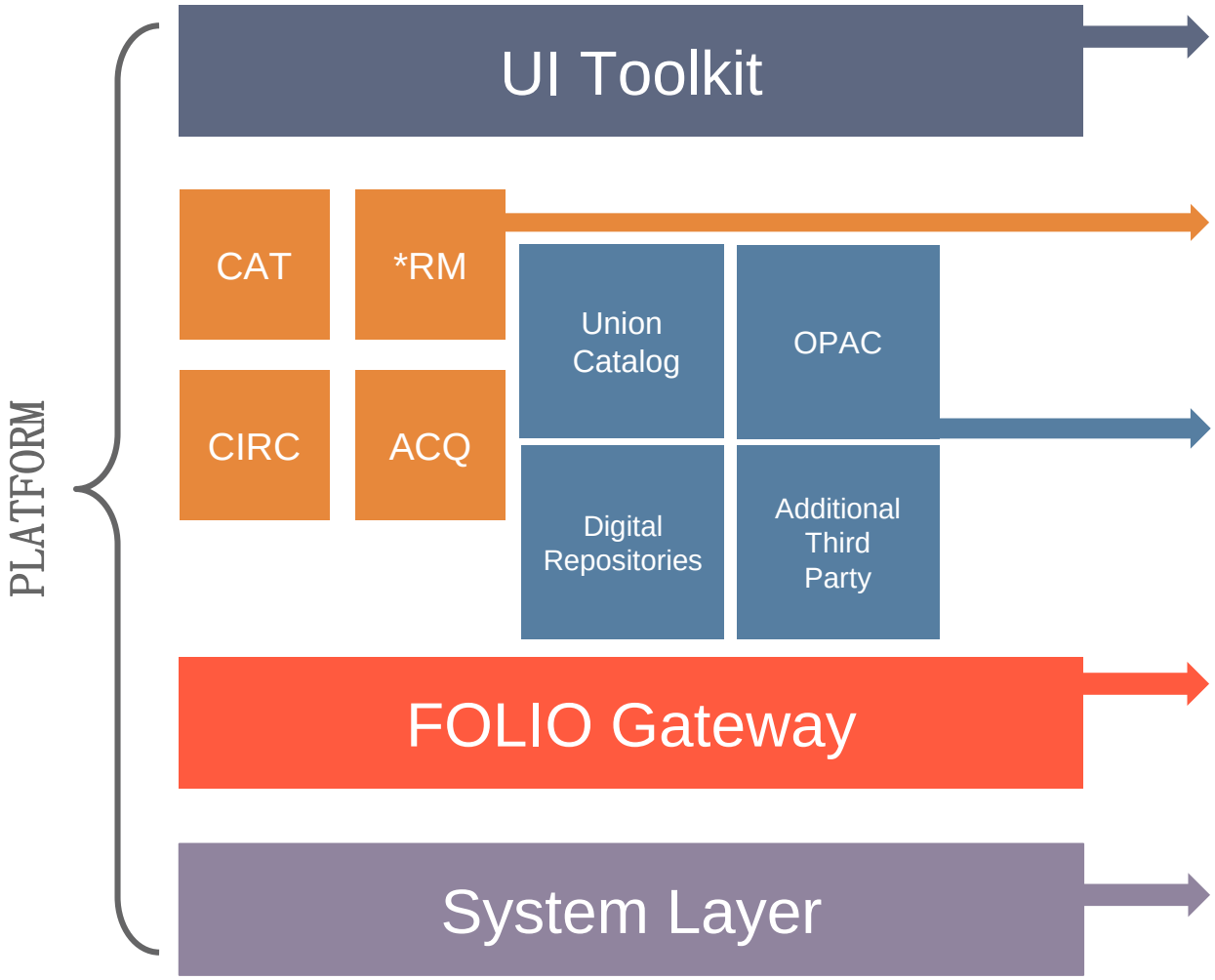
Circ 2 | Rpt 2 | Acq 2

“Radical Modularity”
App marketplace
Customized solutions by library
Microservices architecture

Modular Apps

built on an open, extensible platform

FOLIO Architecture FOLIO构架



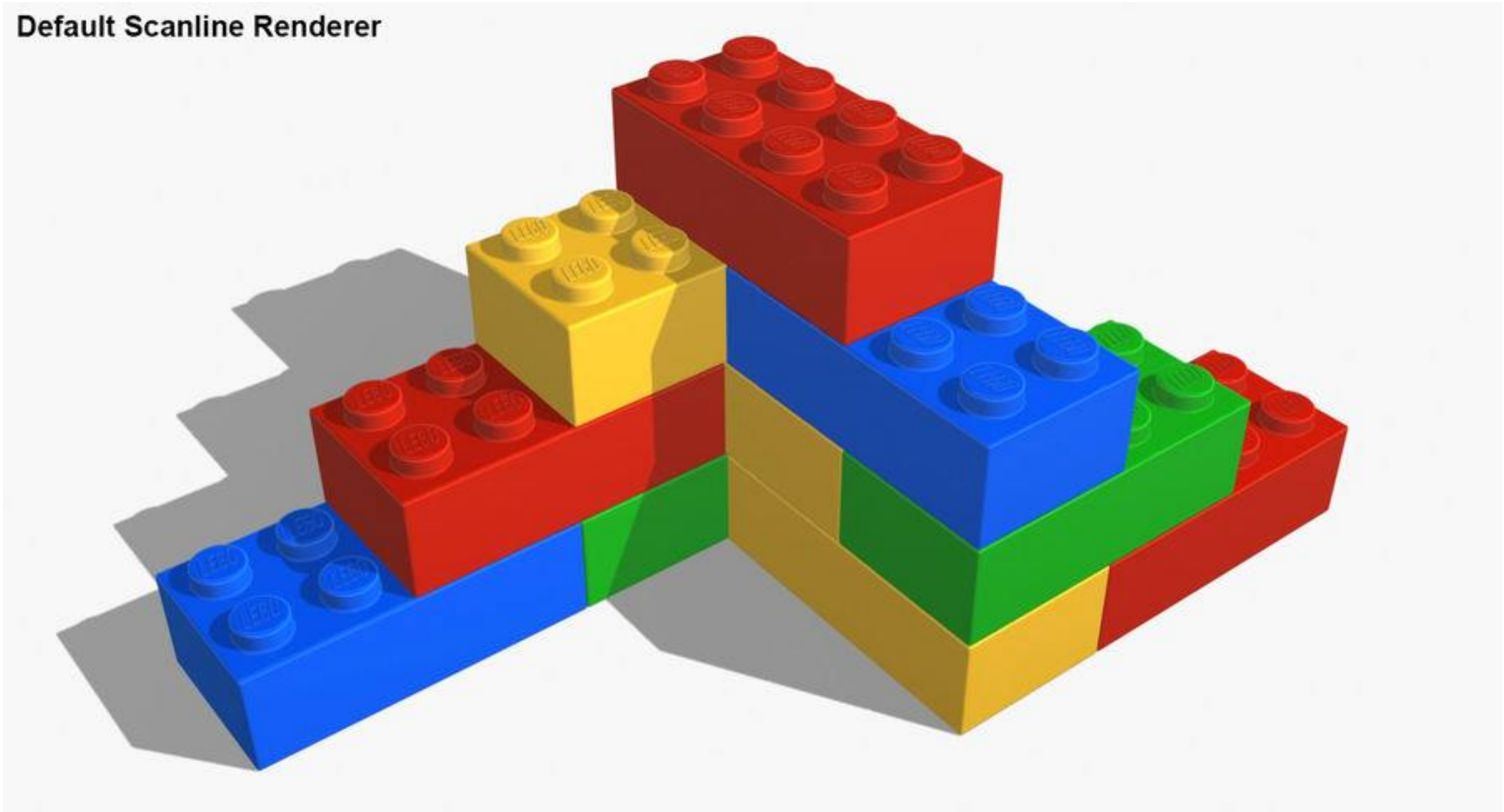
UI Toolkit
React, Redux, localization
Use default or create new

Core FOLIO ILS Apps
OS apps, e.g. e-resource management, circ, cat, acq…

Other Apps
Extend existing
or develop new apps,
OS or commercial

FOLIO Gateway
APIs, “Switchboard”,
Tenant separation

SYSTEM
Data layer
Indexing, Logging
Tenant configuration


Default Scanline Renderer

FOLIO Development Languages 开发语言

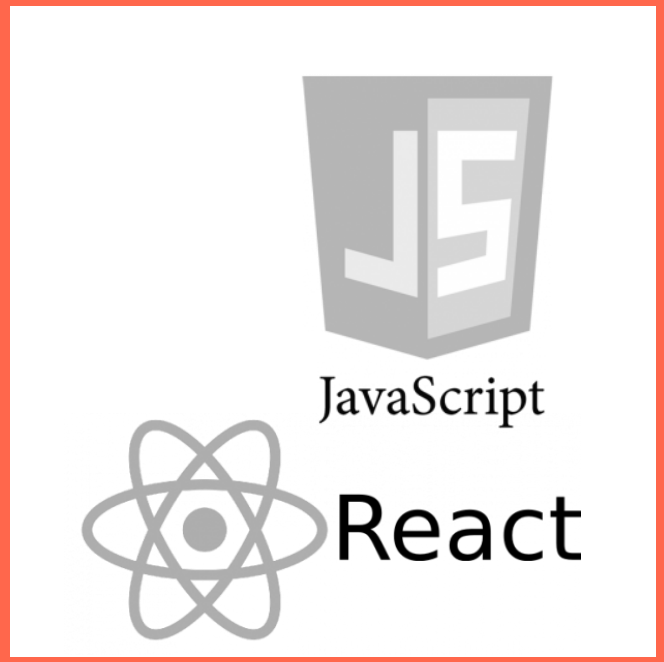
Almost any modern language can be used

Gateway/Backend Modules

The core ecosystem is Java, vert.x, JavaScript and node.js, supporting the system modules and gateway.

App & Connector Modules

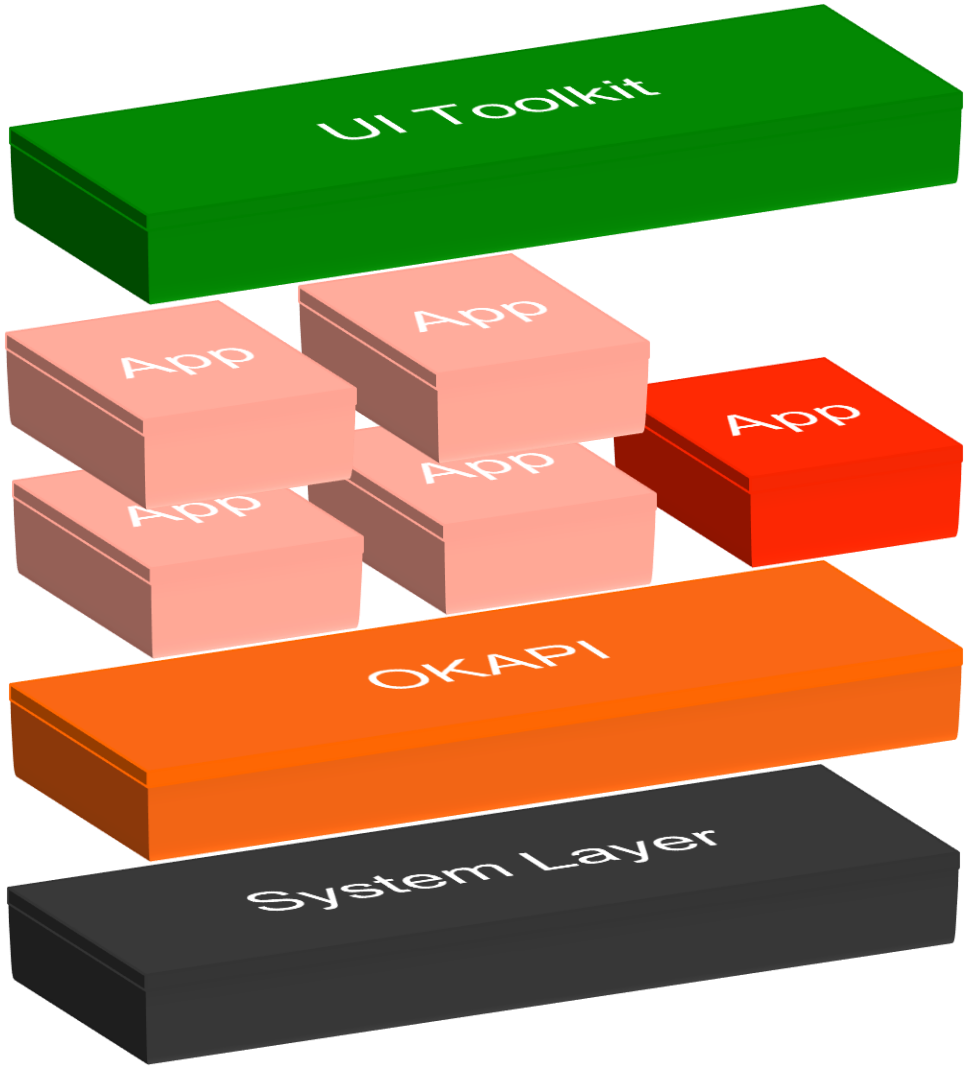
Building blocks for the App and connector modules can use a number of languages.



Frontend User Interface

FOLIO's user interface is a template driven single page application built with React and JavaScript.

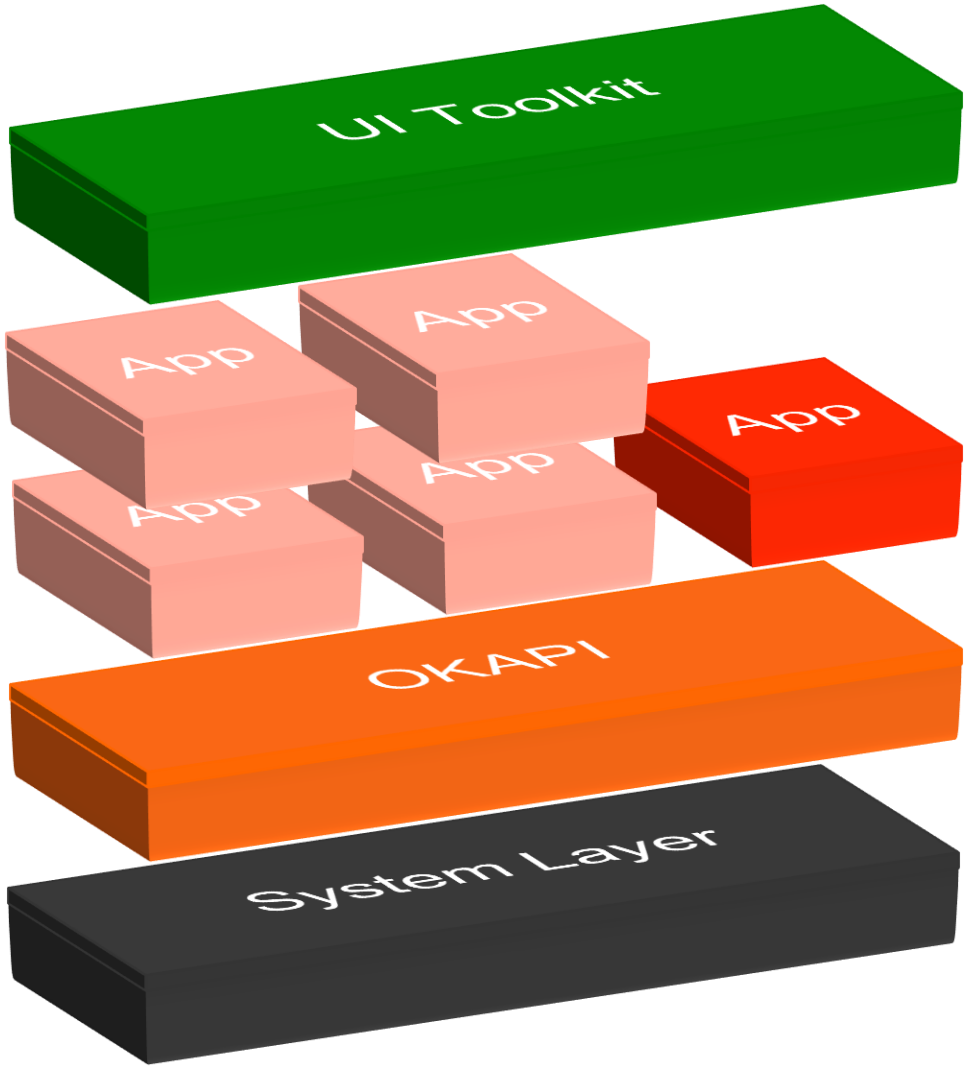
FOLIO's Unique Architecture



- Every bit of data, every method… *everything* is available.
- 数据、方法……一切都是开放

- FOLIO is a platform – tools and structure to build *anything*.
- FOLIO是构建一切都基础平台

FOLIO's Unique Architecture



- FOLIO allows developers to focus on the business logic of their application and the user experience
- 开发人员专注于功能和用户体验
  - Leverage the UI Toolkit to ensure accessibility and i18n
  - Component library provides the pieces for a cohesive experience
  - OKAPI exposes your app to others
  - Leverage OKAPI to perform actions against the system layer and other apps

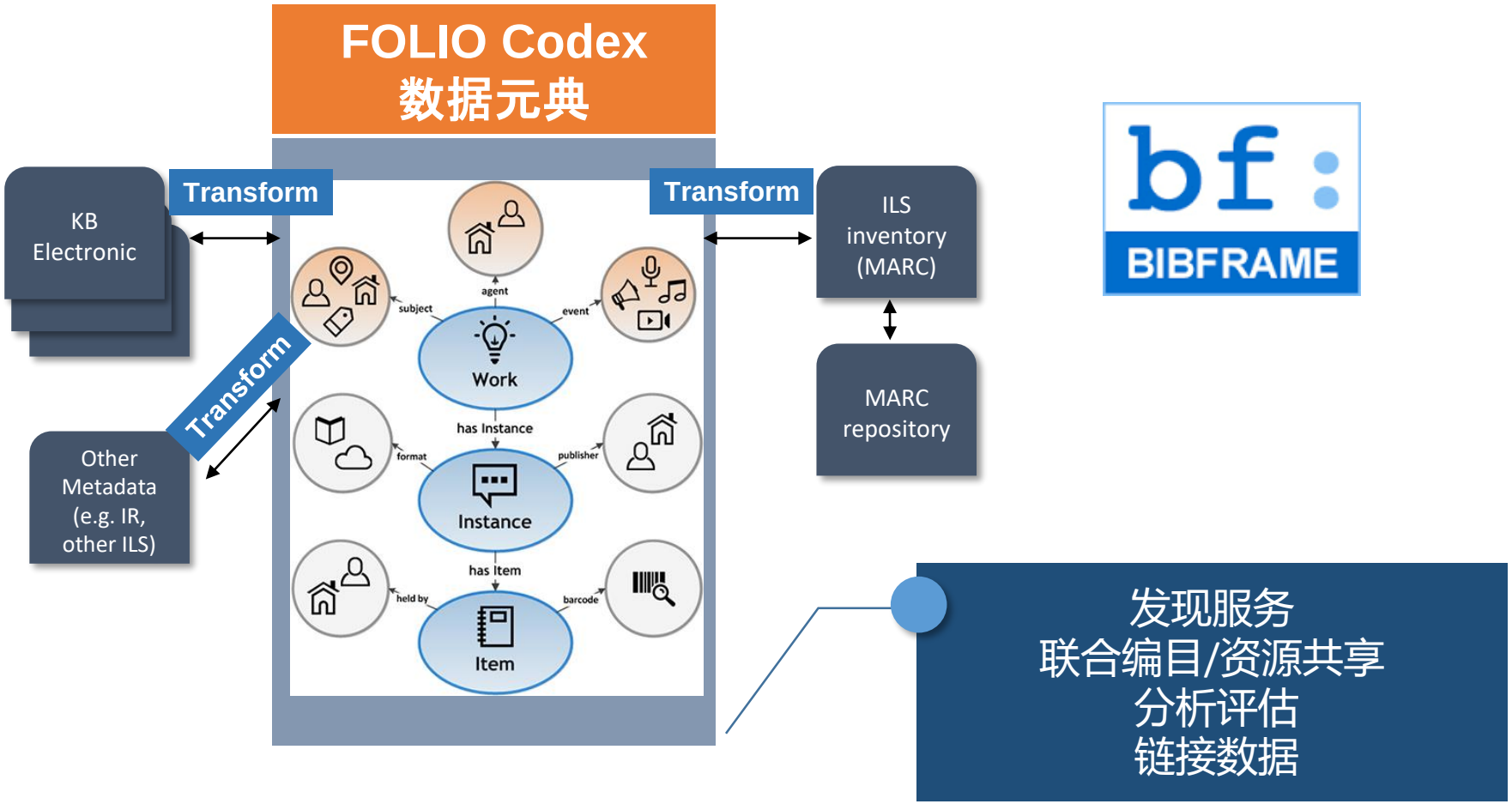
FOLIO's Unique Architecture

- The only thing a developer writes is the App
  - Project ReShare chose FOLIO as its technology stack for this advantage
- An app with some kind of user interaction will have two pieces:
  - The User Interface (implementing the UI Toolkit Components)
  - The Business Logic

FOLIO's Unique Architecture

- Some apps are just the business logic
  - For example, automation enablement
  - Leveraging OKAPI, applying business logic
- FOLIO Leverages 'Containers' – Easy to Deploy Existing Tools

FOLIO Codex
数据元典



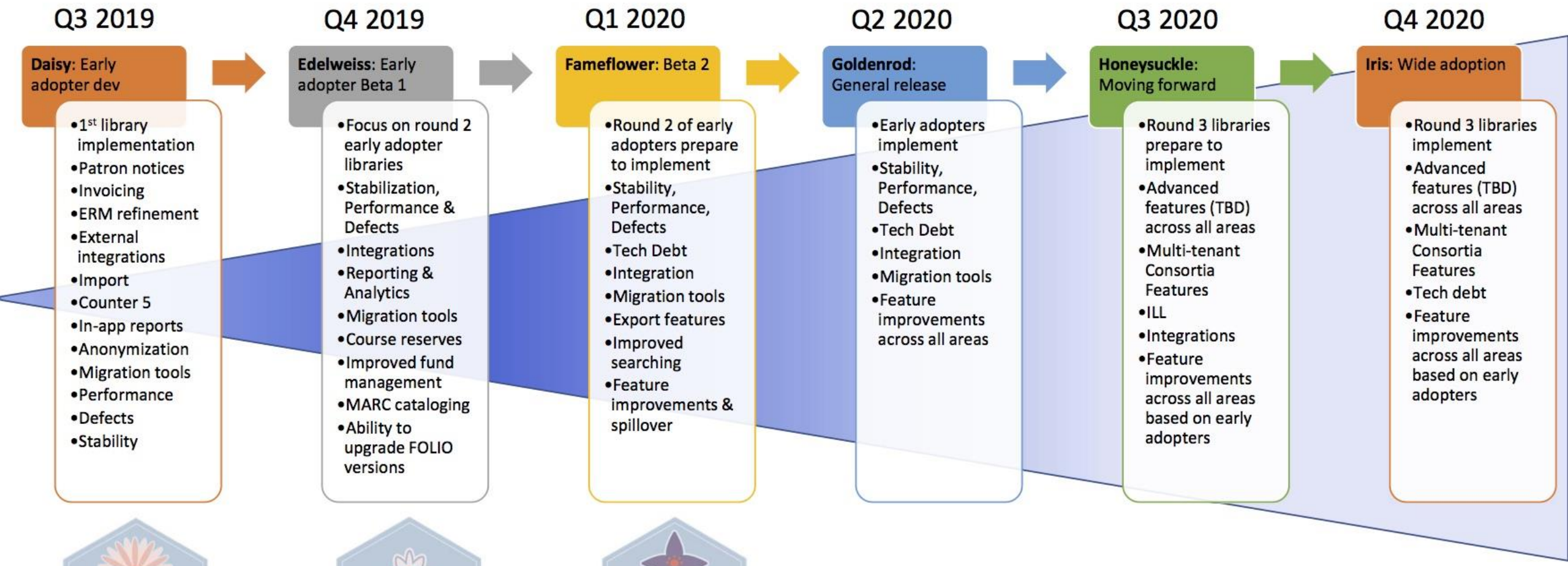
发现服务
联合编目/资源共享
分析评估
链接数据

docker
kubernetes

开发里程碑

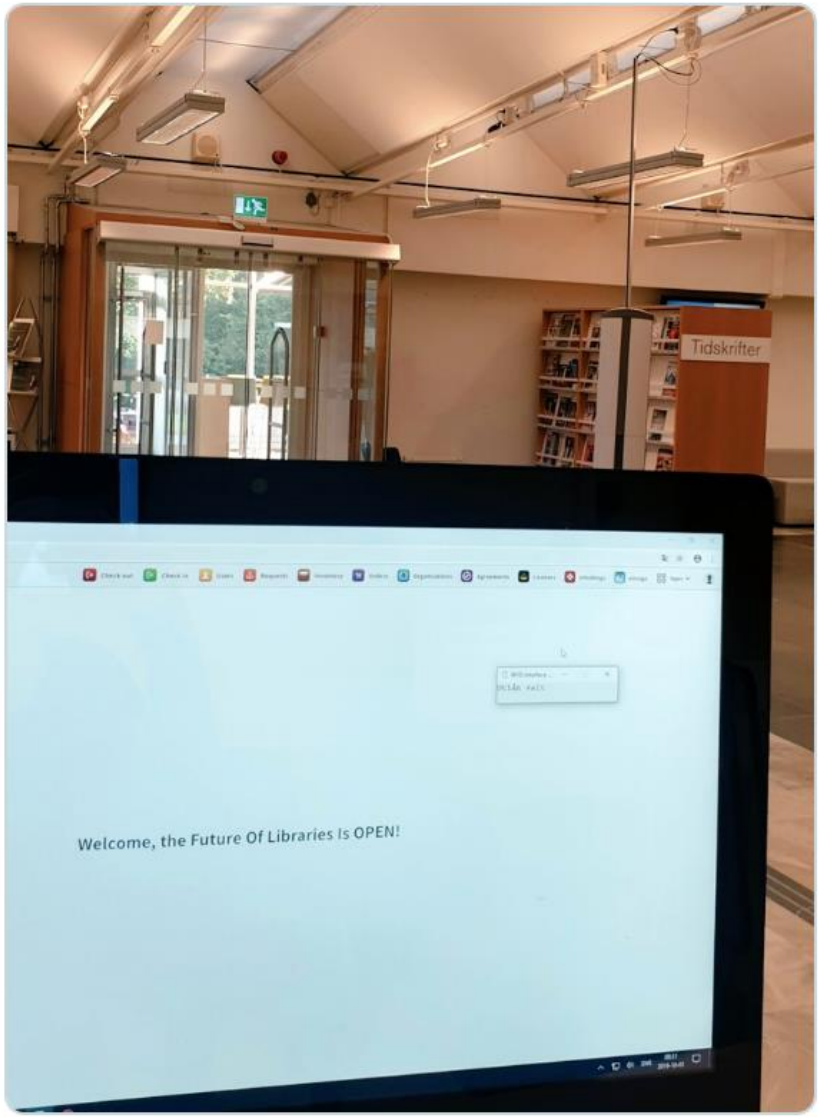
FOLIO Milestones

folio
future of libraries is open



Chalmers Library
@chalmerslibrary

Good morning from the circulation desk at Chalmers! @FOLIO_LSP #opensource



CHALMERS UNIVERSITY OF TECHNOLOGY | LIBRARY

90 Days Live With:

- Organizations (For ERM & Orders)
- Agreements
- Licenses
- eHoldings
- Settings

Went Live September 30:

- Check out
- Check in
- Users
- Requests
- Inventory
- Orders
- Source record storage (for a small subset of their Inventory)

CHALMERS UNIVERSITY OF TECHNOLOGY

folio

folio

future of libraries is open

Thank you!

Qi Zhou 周奇

qzhou@ebsco.com

+86 186-8292-5366