

Designing a Roadmap to a New Bibliographic Information Ecosystem

Understanding a complex environment

Todd A. Carpenter, NISO Executive Director
eBooks: Great Expectations for Web Standards
February 12, 2013 - New York, NY

About



- Non-profit industry trade association accredited by ANSI with 150+ members
- Mission of developing and maintaining technical standards related to information, documentation, discovery and distribution of published materials and media
- Volunteer driven organization: 400+ spread out across the world
- Represent US interests to ISO TC 46 & also serve as Secretariat for ISO TC46/SC9 - Identification & Description
- Responsible for standards like ISSN, DOI, Dublin Core metadata, DAISY digital talking books, OpenURL, MARC records, and ISBN (indirectly)



The NISO Community

32% Libraries/Library Organizations

35 % Publishers/Publishing Organizations

**72 LSA Members
(non-voting)**



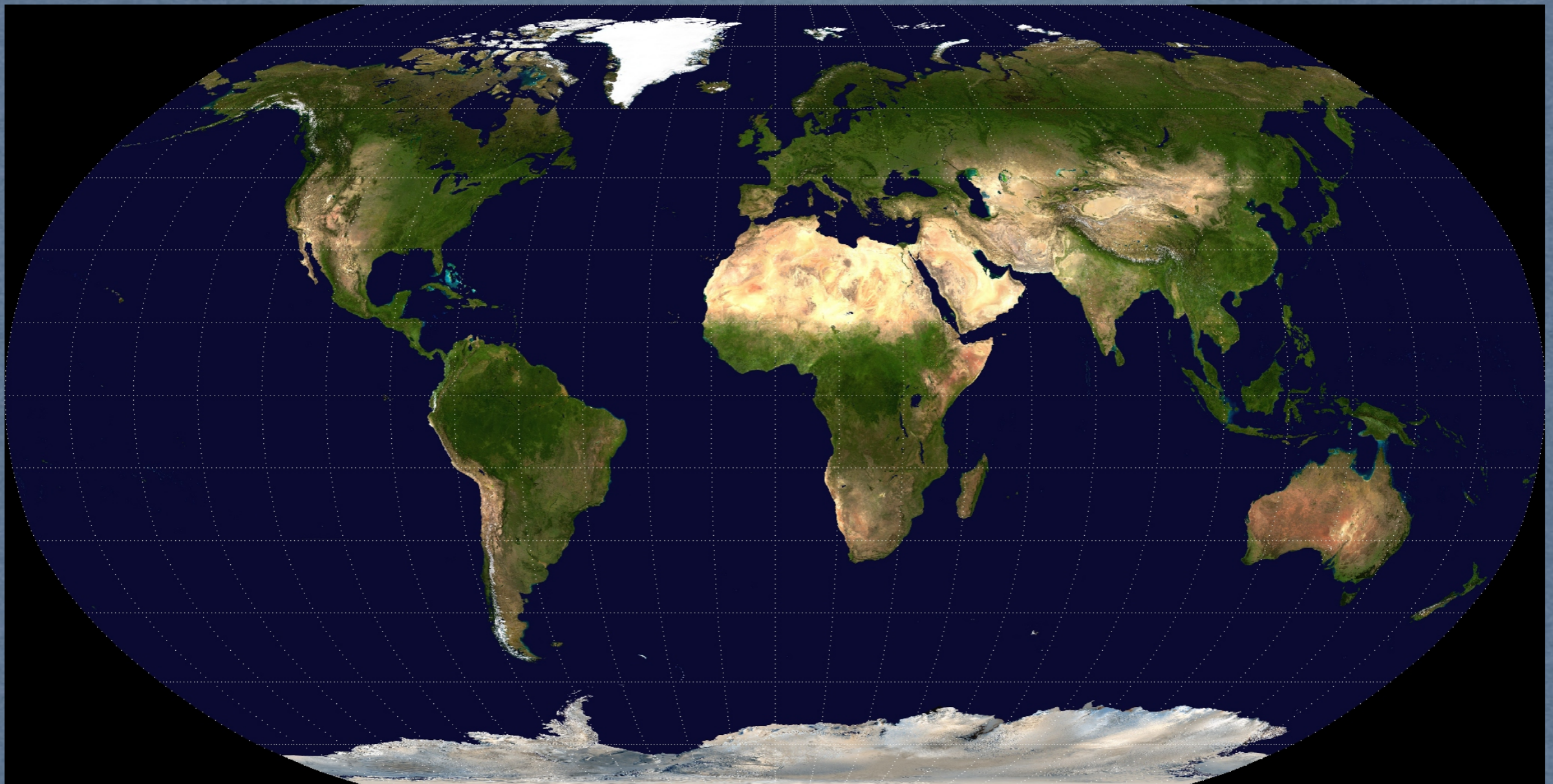
ISO

ANSI

Other SDOs

**33% Library Systems Suppliers,
Publishing Vendors & Intermediaries**

NISO's Community



NISO Internationally

Actively participate internationally with ISO, EDItEUR, IFLA, ICSTI, International STM Association, CODATA, UK Serials Group, LIBER, Standards Australia, IETF, ISO Registration Authorities



Technical Committee (TC) 46 Information & Documentation

Subcommittees (SC):

- 4 – Systems Interoperability
- 8 – Performance Measurement
- 9 – Identification & Description
- 11 – Records Management

NISO manages the Secretariat of ISO TC 46, SC 9

If you've never met MARC before...

01386cam 2200301 a

45000010008000000050017000080080041000250350021000669060045000879550027001320100017001590200015
00176040001800191043001200209050002200221082002100243110005500264245030800319260006700627300002
50069444000540071950000290077365000600080265000580086265000730092071000430099399100480103638568
5319951219150001.4881118s1989 nju 000 0 eng 9(DLC) 88029610 a7bcbccorignewd|eocipf|9gy-
gencatlg aCIP ver. pv04 12-06-95 a 88029610 a0887389538 aDLCcDLCdDLC an-us---00aZ674.8b.N44
198900a021.6/5/09732192 aNational Information Standards Organization (U.S.)|0aInformation retrieval service and
protocol :bAmerican national standard for information retrieval service definition and protocol specification for
library applications /capproved January 15, 1988 by American National Standards Institute ; developed by the National
Information Standards Organization. aNew Brunswick, N.J., U.S.A. :bTransaction Publishers,cc1989. axii, 50 p. ;c26
cm. 0aNational information standards series,x1041-5653 a"ANSI/NISO Z39.50-1988." 0aLibrary information
networksxStandardszUnited States. 0aComputer network protocolsxStandardszUnited States. 0aInformation storage
and retrieval systemsxStandardszUnited States.2 aAmerican National Standards Institute. bc-GenCollhZ674.8i.N44
1989tCopy 1wBOOKS

If you've never met MARC before... (formatted for your viewing pleasure)

Brief Record

Subjects/Content

Full Record

MARC Tags

Information retrieval service and protocol : American national standard for...

LC Control No.: 88029610

LCCN Permalink: <http://lcn.loc.gov/88029610>

000 01386cam a2200301 a 450

001 3856853

005 19951219150001.4

008 881118s1989 nju 000 0 eng

035 __ |9 (DLC) 88029610

906 __ |a 7 |b cbc |c orignew |d 1 |e ocip |f 19 |g y-gencatlg

955 __ |a CIP ver. pv04 12-06-95

010 __ |a 88029610

020 __ |a 0887389538

040 __ |a DLC |c DLC |d DLC

043 __ |a n-us—

050 00 |a Z674.8 |b .N44 1989

082 00 |a 021.6/5/0973 |2 19

110 2_ |a National Information Standards Organization (U.S.)

245 10 |a Information retrieval service and protocol : |b American national standard for information retrieval service definition and protocol specification for library applications / |c approved January 15, 1988 by American National Standards Institute ; developed by the National Information Standards Organization.

260 __ |a New Brunswick, N.J., U.S.A. : |b Transaction Publishers, |c c1989.

300 __ |a xii, 50 p. ; |c 26 cm.

440 _0 |a National information standards series, |x 1041-5653

500 __ |a "ANSI/NISO Z39.50-1988."

650 _0 |a Library information networks |x Standards |z United States.

650 _0 |a Computer network protocols |x Standards |z United States.

650 _0 |a Information storage and retrieval systems |x Standards |z United States.

710 2_ |a American National Standards Institute.

991 __ |b c-GenColl |h Z674.8 |i .N44 1989 |t Copy 1 |w BOOKS

MARC Components

Encoding Structure

Z39.2

ISO 2709:2008 -- Format for information exchange

Format structure

Anglo-American Cataloging Rules (2nd Edition) AACR2
Resource Description & Access

Exchange System

Z39.50

SRU/SRW

Vogt, Evon Z., 1918-

joint ed.

BL

80.2.

R44

1979

~~Lessa, William Armand, ed.~~

Reader in comparative religion : an anthropological approach / [edited by] William A. Lessa, Evon Z. Vogt ; with the assistance of John M. Watanabe. — 4th ed. — New York : Harper & Row, c1979.

viii, 488 p. : ill. ; 26 cm.

Bibliography: p. 473-485.

Includes index.

ISBN 0-06-043991-2

1. Religions—Addresses, essays, lectures.
joint ed. II. Title.

I. Vogt, Evon Zartman, 1918-

BL80.2.L44 1979

200'.8

78-13409

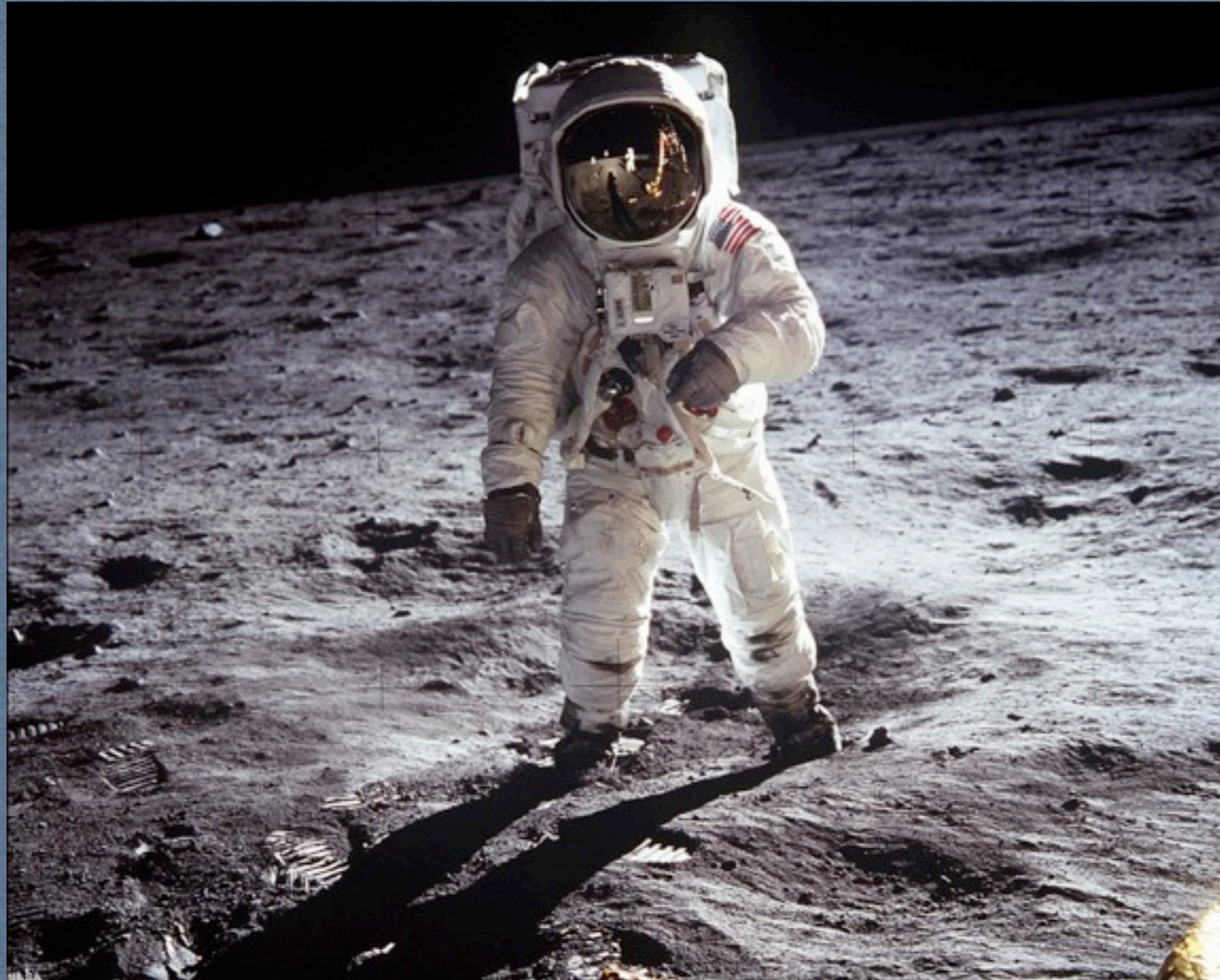
MARC

Library of Congress

78

Photo: Minneapolis College
of Art and Design Library

How much computer technology pre-dates this?

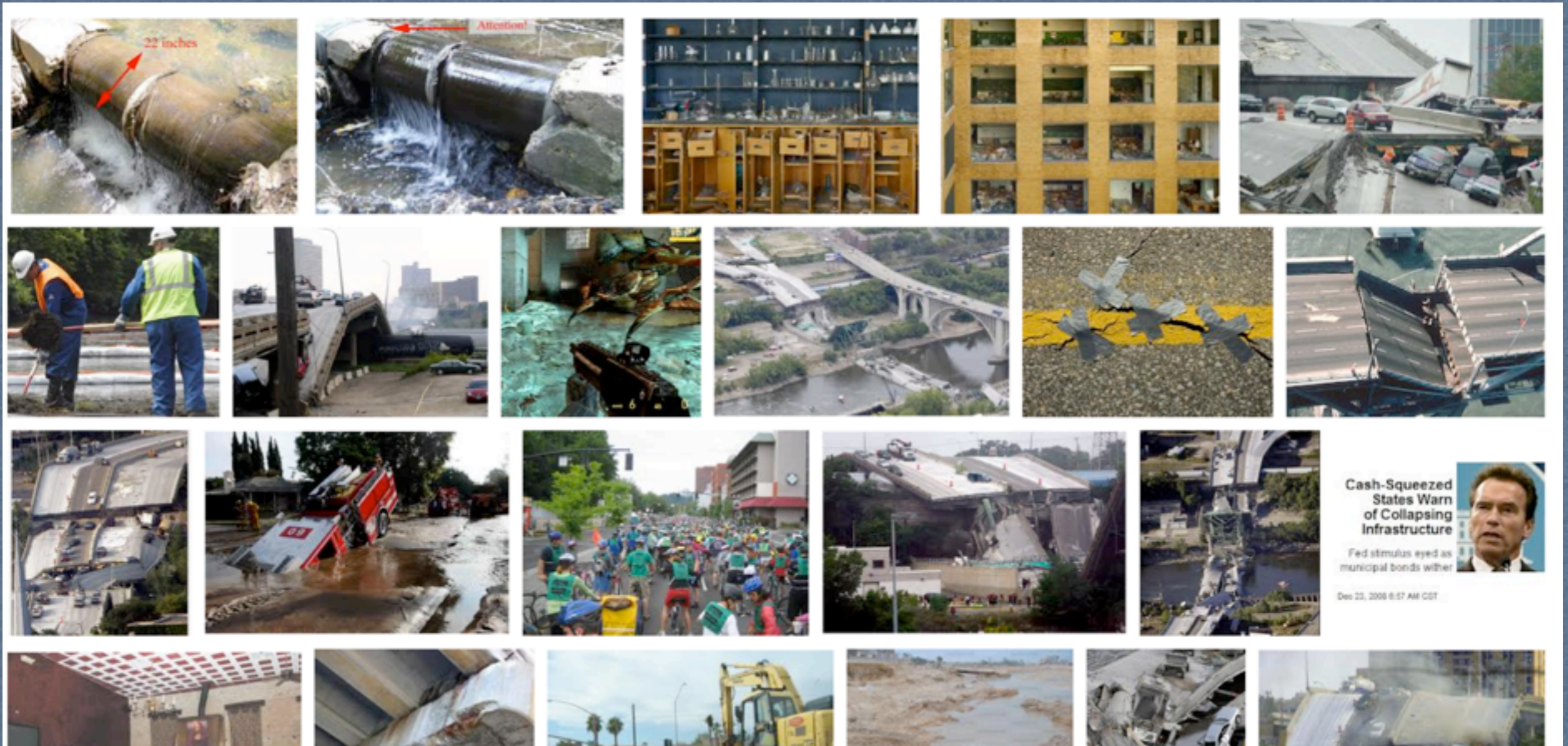


Unfortunately, quite a bit...



Why?

We avoid improving infrastructure



Billions and billions of records



Photo: [dfulmer](#)

If you were building a network today
would you string copper everywhere?



If you building a metadata ecosystem, would you start here?

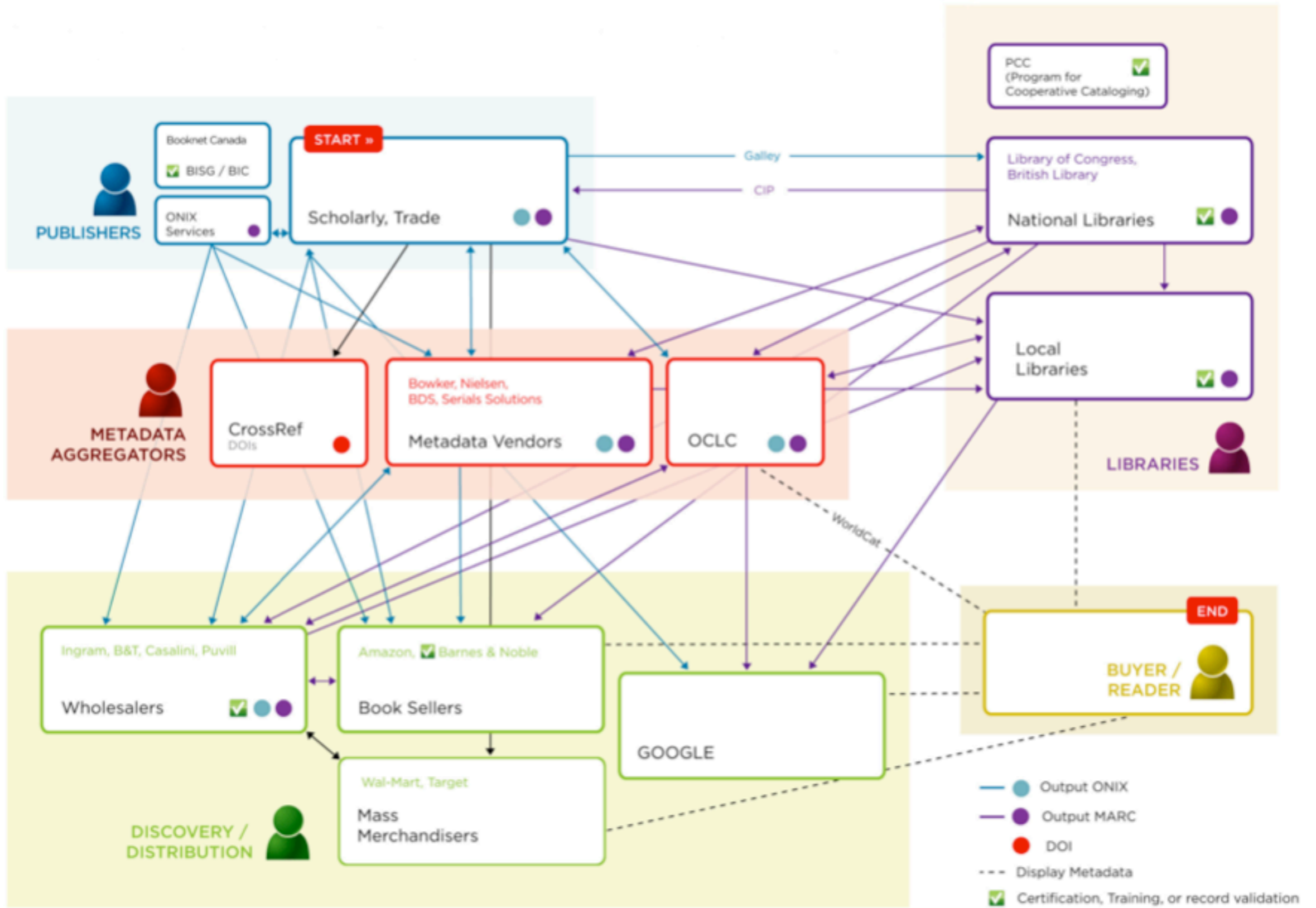
01386cam 2200301 a

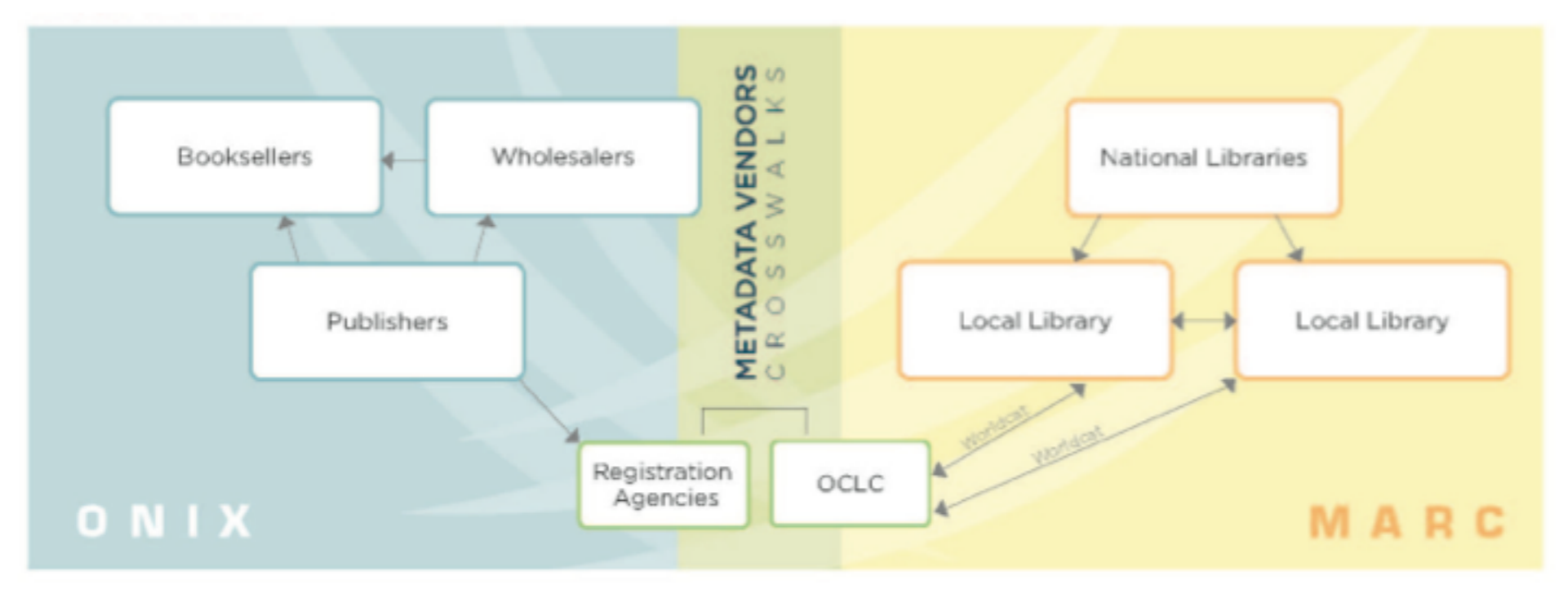
45000010008000000050017000080080041000250350021000669060045000879550027001320100017001590200015
00176040001800191043001200209050002200221082002100243110005500264245030800319260006700627300002
50069444000540071950000290077365000600080265000580086265000730092071000430099399100480103638568
5319951219150001.4881118s1989 nju 000 0 eng 9(DLC) 88029610 a7bcbccorignewd|eocipf|9gy-
gencatlg aCIP ver. pv04 12-06-95 a 88029610 a0887389538 aDLCcDLCdDLC an-us---00aZ674.8b.N44
198900a021.6/5/09732192 aNational Information Standards Organization (U.S.)|0aInformation retrieval service and
protocol :bAmerican national standard for information retrieval service definition and protocol specification for
library applications /capproved January 15, 1988 by American National Standards Institute ; developed by the National
Information Standards Organization. aNew Brunswick, N.J., U.S.A. :bTransaction Publishers,cc1989. axii, 50 p. ;c26
cm. 0aNational information standards series,x1041-5653 a"ANSI/NISO Z39.50-1988." 0aLibrary information
networksxStandardszUnited States. 0aComputer network protocolsxStandardszUnited States. 0aInformation storage
and retrieval systemsxStandardszUnited States.2 aAmerican National Standards Institute. bc-GenCollhZ674.8i.N44
1989tCopy 1wBOOKS



“MARC Must Die!”

-Roy Tennant (2002)





Movement toward linked data

datahub.io - 5107 data stores

id.loc.gov

VIAF

OCLC WorldCat Linked Data Store

W3C Library Linked Data Incubator Group

Organizations will not move away from a legacy system unless the new system:

a) Is demonstrably cheaper

b) Is demonstrably more effective in producing results (discovery, use, etc.)

c) Will make the organization demonstrably more efficient (staff, management, sales, etc.)

OR

d) The legacy system becomes entirely non-interoperable with other, more important systems

OR

e) The legacy system breaks and cannot be repaired

Can we say a new
metadata management system
will be/do one of those things?



NISO's Bibliographic Roadmap Initiative

Initiative coordination

Gap identification

Economic analysis

Engage diverse players

Open process

**Defining what you are by
what you are not**

Not desinging a spec

Not picking winners/losers

Open Community Meeting

April 15-16, 2013

Baltimore/Washington
area

Meeting Goals:

Identify/Discuss active projects

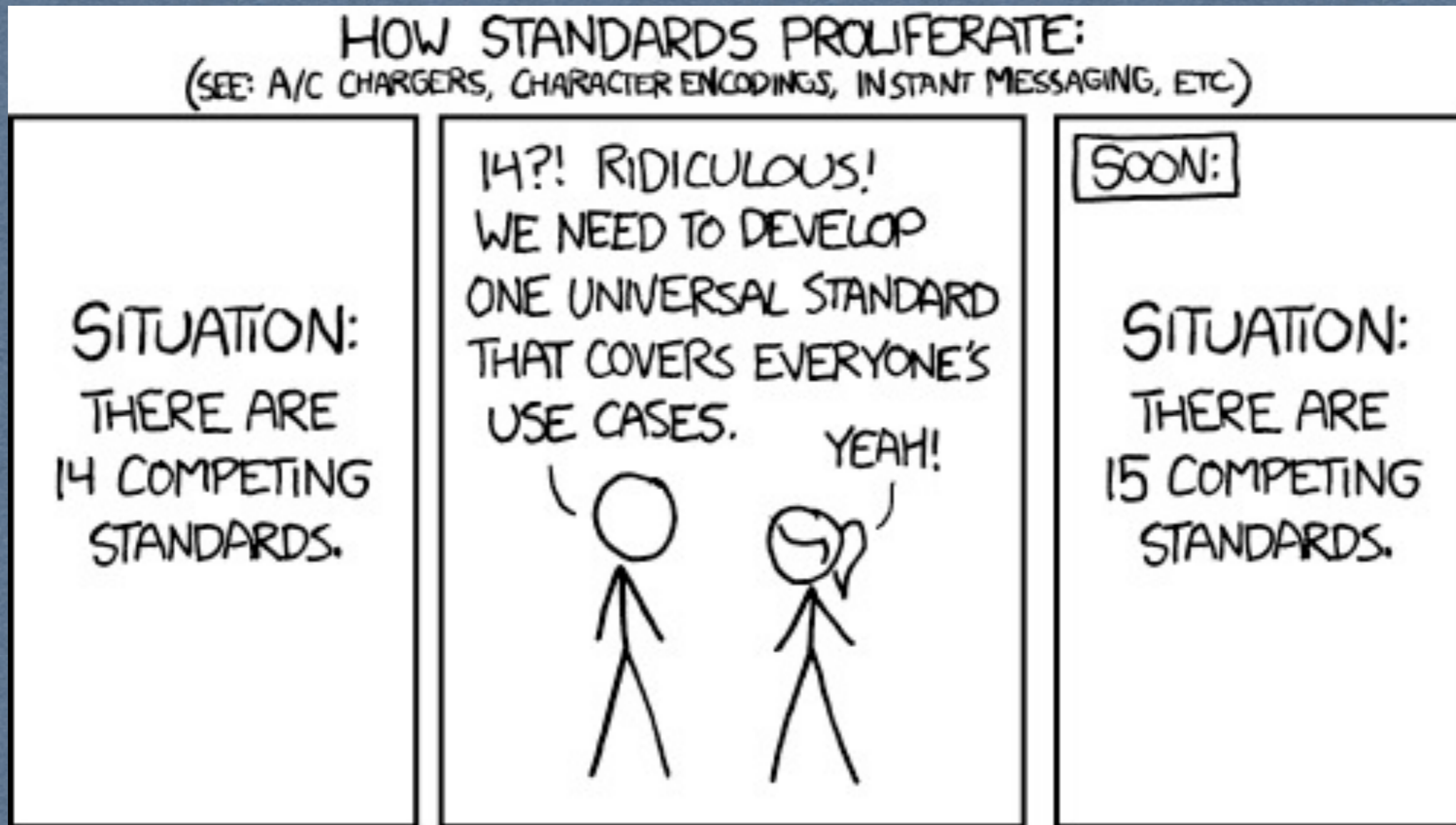
Brainstorm existing gaps

Prioritize 3-6 subtopics

Plan deeper exploration of issues

Diversify players in discussion

What we are trying to avoid



The world
makes way for
the man who
knows where
he is going.

- Ralph Waldo Emerson





“If you don't know where you're going, you might not get there.”

- Yogi Berra

Thank you!

Todd Carpenter, Executive Director

tcarpenter@niso.org

National Information Standards Organization (NISO)

One North Charles Street, Suite 1905

Baltimore, MD 21201 USA

+1 (301) 654-2512

www.niso.org