Responding to Disruption

The Journalism Digital News Archive Initiative

Edward McCain, Digital Curator of Journalism Donald W. Reynolds Journalism Institute / University of Missouri Libraries







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"The Donald W. Reynolds Journalism Institute engages media professionals, scholars and other citizens in programs aimed at strengthening journalism in the service of democracy. RJI generates and tests new techniques and new thinking that promise to improve journalism."





Case Study Analysis **Systems Thinking Solution**

Responding to Disruption The Journalism Digital News Archive initiative





RIP Tucson Citizen 1870-2009



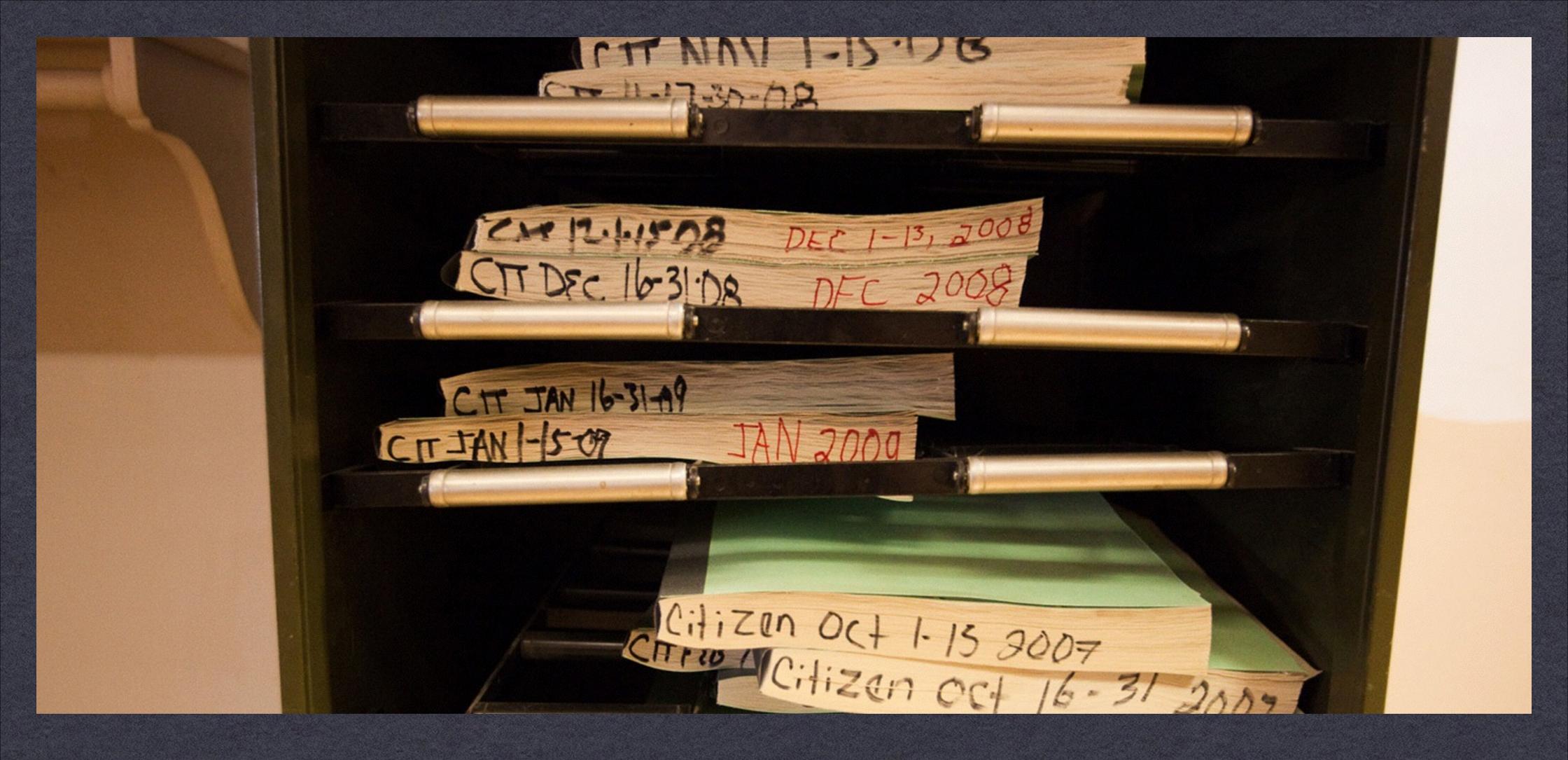


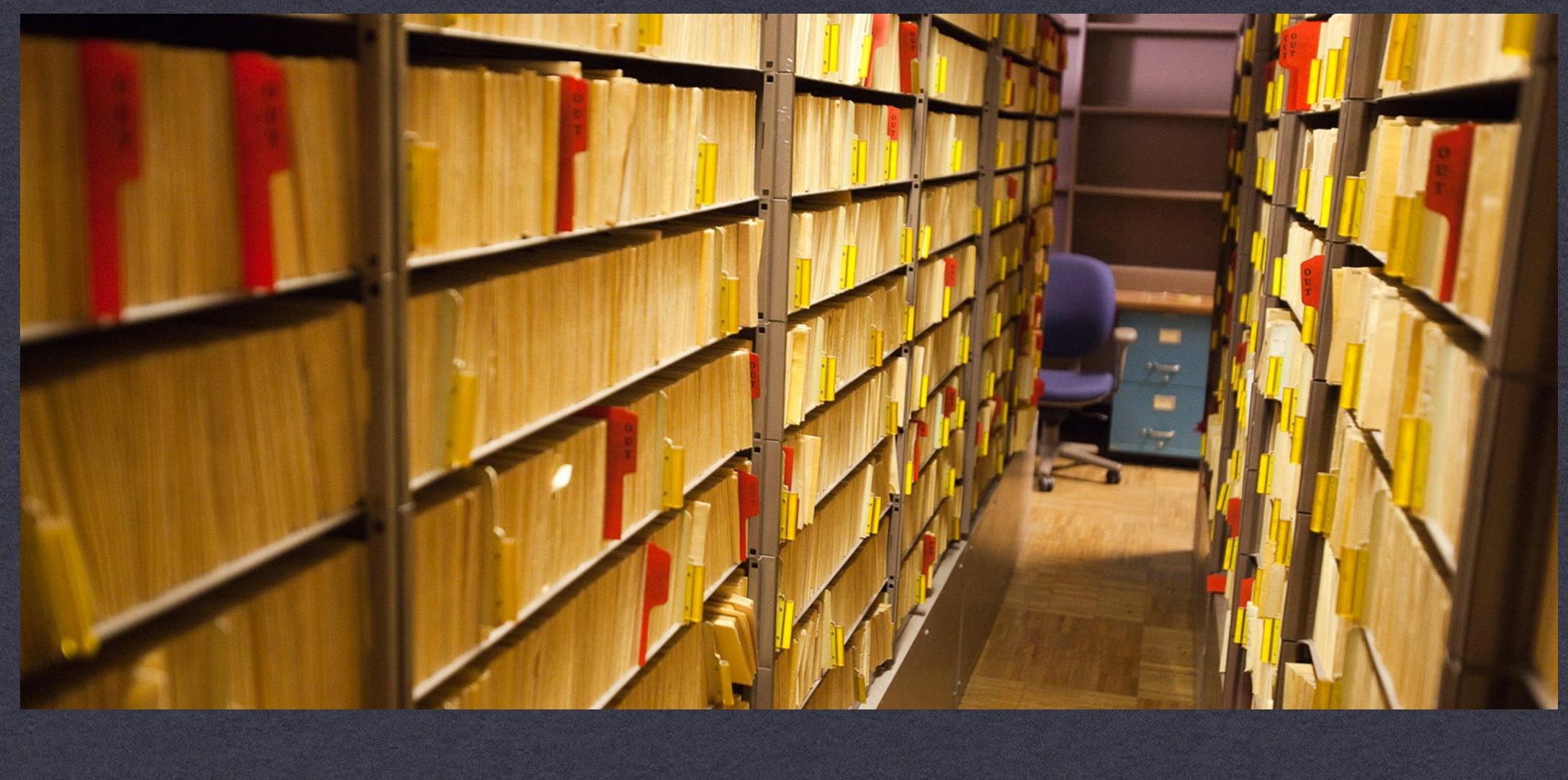
Dean Knuth / Arizona Daily Star















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Citizen Online Archive, 2006-2009

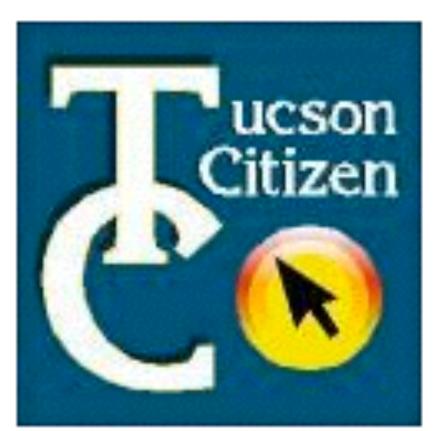
This archive contains all the stories that appeared on the Tucson Citizen's website from mid-2006 to June 1, 2009.

In 2010, a power surge fried a server that contained all of videos linked to dozens of stories in this archive. Also, a server that contained all of the databases for dozens of stories was accidentally erased, so all of those links are broken as well. However, all of the text and photos that accompanied some stories have been preserved.

TucsonCitizen.com beta version lau today by Mark B. Evans on Jun. 01, 2009, under Local







The Tucson Citizen Morgue

Recommend Send Send 1

UPDATE: We're working out some last minute glitches and the new site sh At about noon today, we will switch over to the beta version of the new Tu

Search the Citizen

Google[™] Custom Search

Search

Our Digital Archive

This blog page archives the entire digital archive of the Tucson Citizen from 1993 to 2009. It was gleaned from a database that was not intended to be displayed as a public web archive. Therefore, some of the text in some stories displays a little oddly. Also, this database did not contain any links to photos, so though the archive contains numerous captions for photos, there are no links to any of those photos.

There are more than 230,000 articles in this archive.

In TucsonCitizen.com Morgue, Part 1, we have preserved the Tucson Citizen newspaper's web archive from 2006 to 2009. To view

TUCSON CITIZEN MORGUE, PART 2 (1993-2009)

Arizona breaks homer record in win by Tucson Citizen on May. 16, 2009, under Sports



Citizen Staff Report THE FINAL EDITION

Citizen Staff Report

9-3 on Friday afternoon in an NCAA regional game in Louisville.

The Wildcats advance to play Louisville at 7 a.m. Tucson time Saturday.

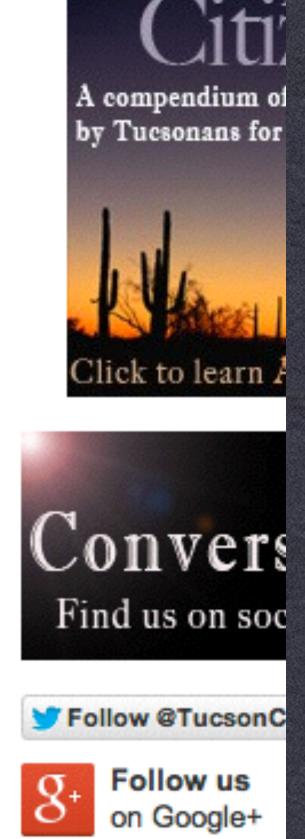
The record-breaking blast came from Stacie Chambers in the third inning. That was the 127th home run of the season for UA, breaking the record held by Arizona's 2001 team.

"I do not think they give a national championship on home runs," said UA coach Mike Candrea in a news release. "It is games that you have to win."

The Tucson Citizen Morgue

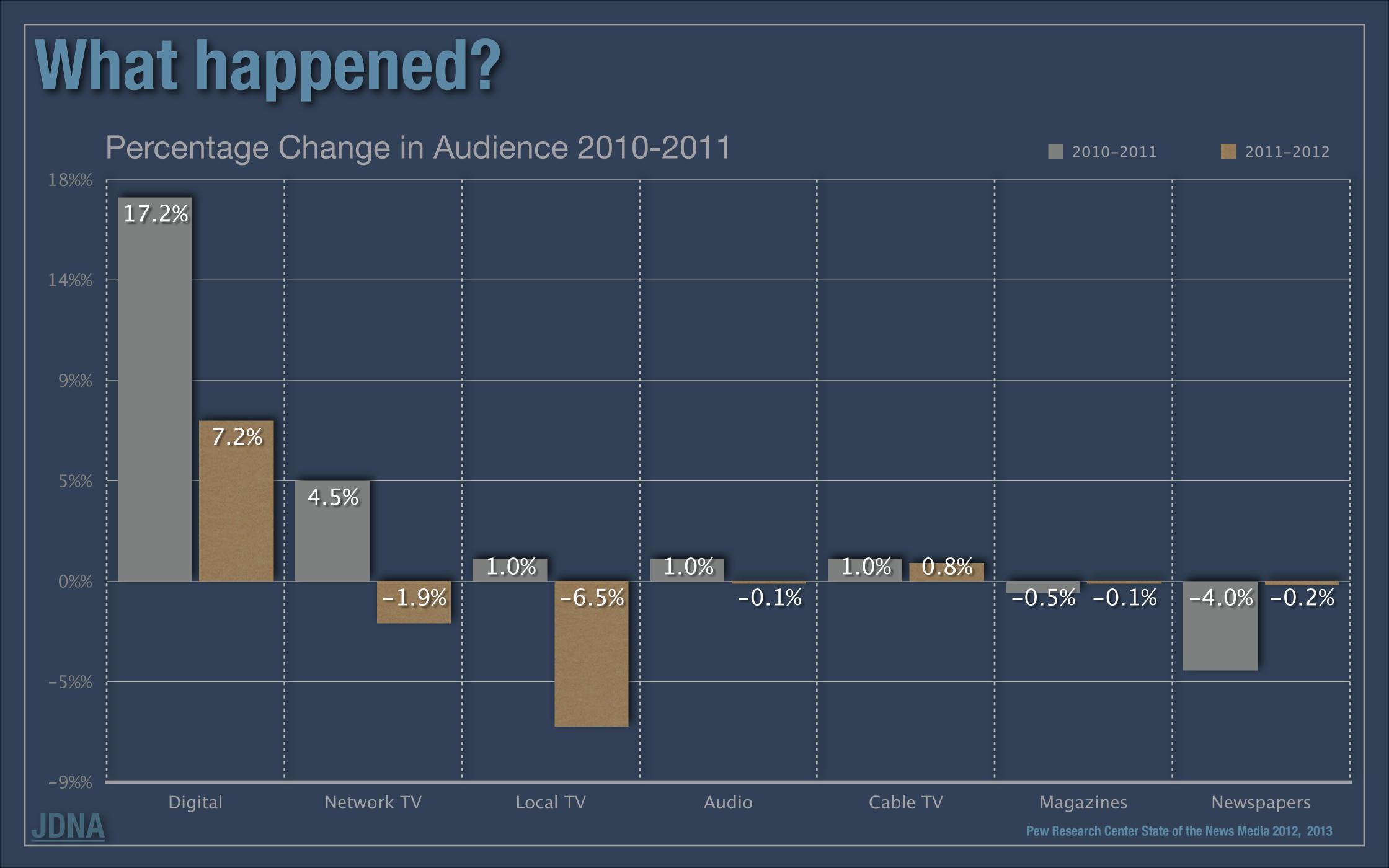
Send Send

- The Arizona softball team broke the national home run record as it beat Tennessee-Martin
- Sarah Akamine (20-6) was the winning pitcher for the Wildcats. She pitched the first three





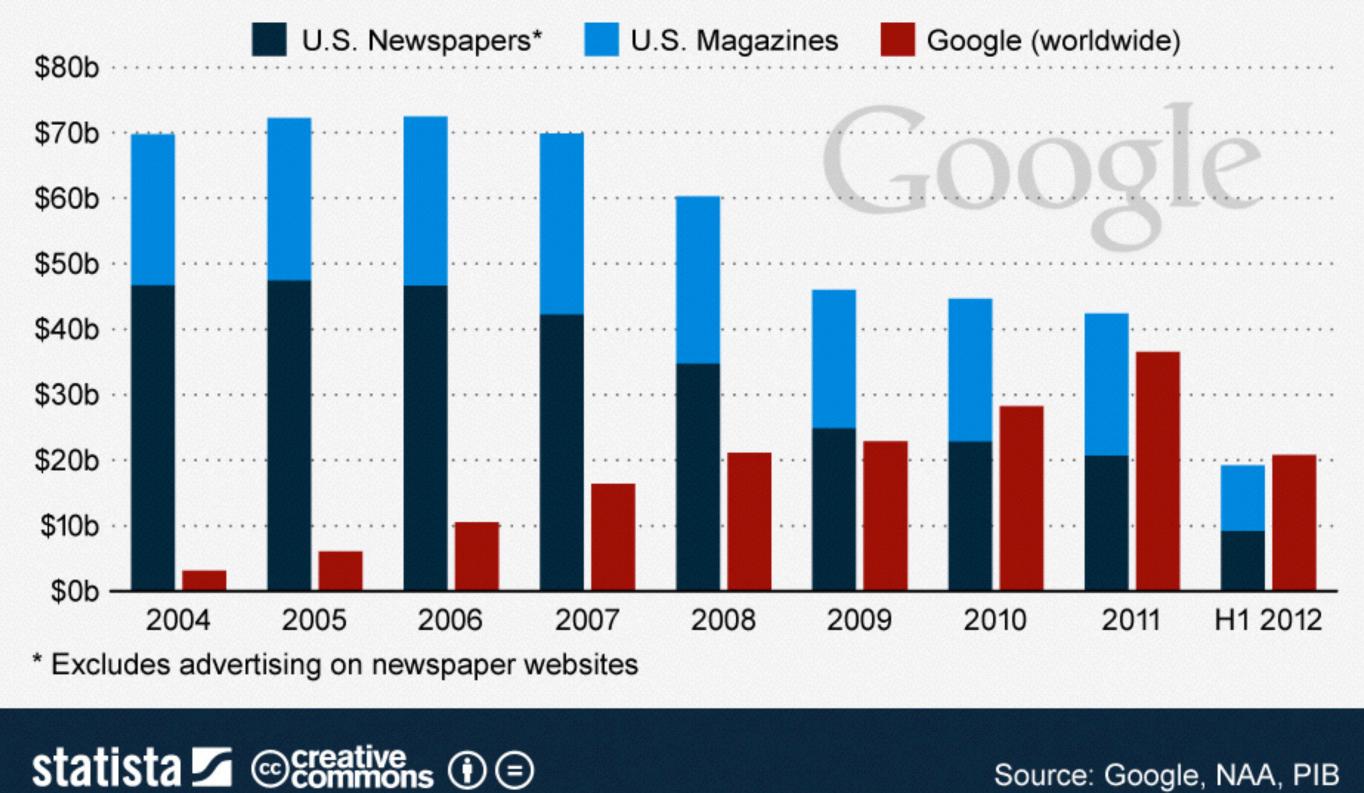




The Statistics Portal

Google Rakes In More Ad Dollars Than U.S. Print Media

Advertising revenue in billion U.S. dollars



Source: Google, NAA, PIB

www.statista.com/



Jeff Bercovici Forbes Staff



I cover technology with an emphasis on social and digital media. full bio →



EDIA & ENTERTAINMENT 8/14/2013 @ 7:40AM 11,743 views

Sorry, Craig: Study Finds Craigslist Took \$5 Billion From Newspapers

For years, newspaper publishers have been saying Craiglist cut the legs out from under their industry by offering a cheap, easy online alternative to their classified advertising pages. For years, Craigslist's creator, Craig Newmark, has been refusing to shoulder the blame.

As recently as this week, in fact, he was insisting it was still far from a settled question. "I'm still waiting to see any hard evidence for cause-and-effect," he told the New York Times. "I've been paying attention for a long time."

Well, Craig, you can stop waiting. <u>A new study</u> by two business school professors examined the issue and concluded that, indeed, Craigslist took a giant bite out of newspapers' revenues — some \$5 billion between the years 2000 and 2007. And that's not even looking at the Times, the <u>Wall Street</u> Journal or USA Today, which the authors left out in order to have a more homogeneous sample.

"Our study definitely suggests that Craigslist has had a huge effect on newspapers," says Robert Seamans, an assistant professor of management and organizations at the NYU Stern School of <u>Business</u>. Coauthored with Feng Zhu of Harvard Business School, the paper will be published by the journal <u>Management</u> Science.



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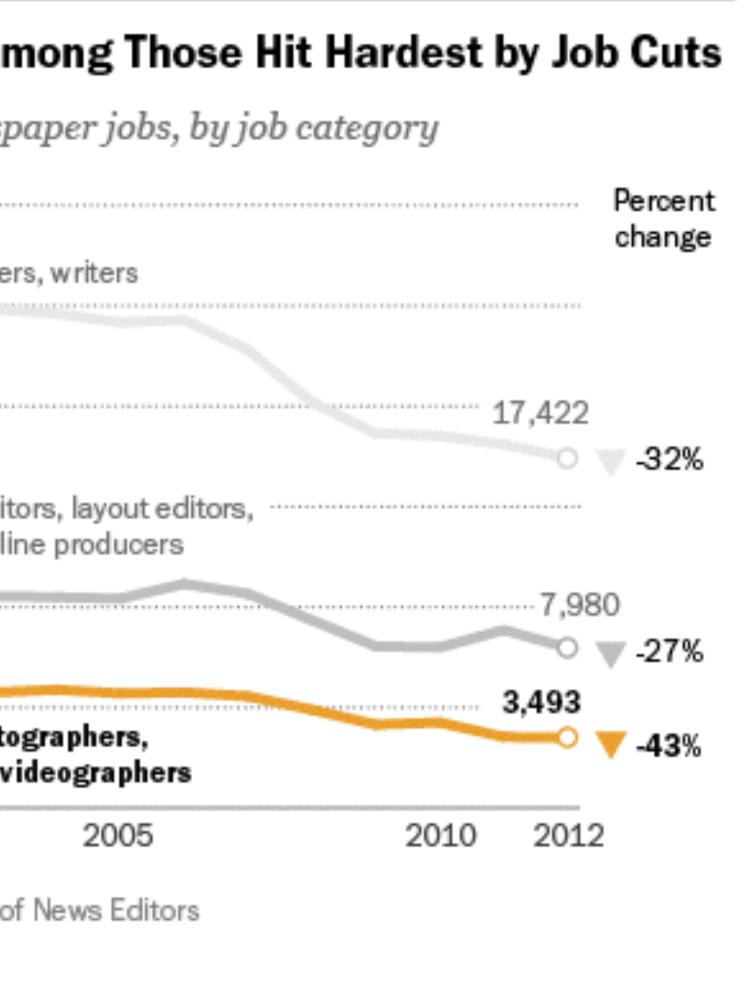
Wrong, but not a killer. (Photo credit: Wikipedia)

Photographers Among Those Hit Hardest by Job Cuts

Number of U.S. newspaper jobs, by job category 30,000 jobs 25,593 Reporters, writers ······ Copy editors, layout editors, ····· online producers 10,901 10,000 6,171 Photographers, artists, videographers 0 2000 2005 Source: American Society of News Editors

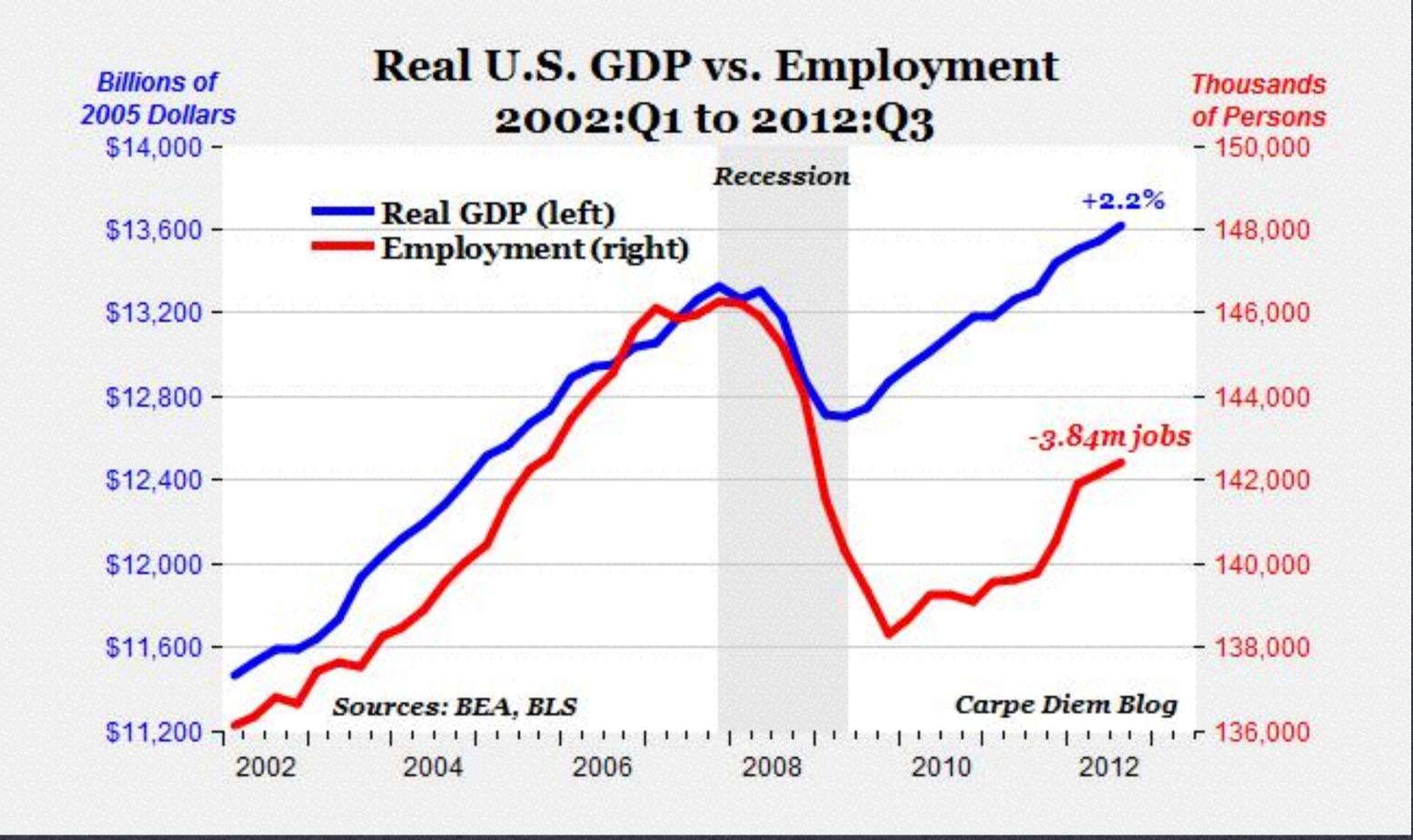
PEW RESEARCH CENTER







www.pewresearch.org/fact-tank/2013/11/11/





Citizen Library Clippings Microform Photographs **Digital Formats**



Citizen

Library





The Tucson Citizen

Publisher

News

Advertising

Citizen Library

Sales



Production

Press

Gannett Newspapers

USA Today The Montgomery Advertiser The Arizona Republic, Phoenix The Tucson Citizen The Baxter Bulletin The Desert Sun, Palm Springs The Salinas Californian Tulare Advance-Register Visalia Times-Delta **Fort Collins Coloradoan** The News Journal, Wilmington Florida Today, Brevard County **Fort Myers News-Press Tallahassee Democrat FSView & Florida Flambeau Central Florida Future Seminole Chronicle Pacific Daily News, Hagatna The Indianapolis Star Journal and Courier, Lafayette Chronicle-Tribune, Marion The Star Press, Muncie Palladium-Item, Richmond The Des Moines Register Iowa City Press-Citizen** The Courier-Journal, Louisville

The Town Talk, Alexandria The Daily Advertiser, Lafayette The News-Star, Monroe **Daily World, Opelousas The Times, Shreveport** The Daily Times, Salisbury **Battle Creek Enquirer Detroit Free Press** Lansing State Journal **Times Herald, Port Huron Press & Argus, Livingston** County St. Cloud Times Mississippi **Hattiesburg American Springfield News-Leader,** Springfield **Reno Gazette-Journal Asbury Park Press Courier-News, Bridgewater The Courier-Post, Cherry Hill Home News Tribune, East Brunswick Daily Record, Morristown The Daily Journal, Vineland Ocean County Observer, Toms** River

Press & Sun-Bulletin, **Binghamton** Star-Gazette, Elmira The Ithaca Journal **Poughkeepsie Journal Democrat and Chronicle, Rochester** The Journal News, Westchester County Asheville Citizen-Times **Newspaper Network of Central Ohio Telegraph-Forum, Bucyrus Chillicothe Gazette** The Cincinnati Enquirer **Coshocton Tribune** The News-Messenger, Fremont Lancaster Eagle-Gazette **Mansfield News Journal,** Mansfield **The Marion Star** The Advocate (Newark), Newark **News Herald, Port Clinton Times Recorder, Zanesville** Statesman Journal, Salem **The Greenville News** Link (magazine)

Argus Leader, Sioux Falls Dell Rapids Tribune, Dell Rapids The Leaf-Chronicle, Clarksville The Jackson Sun The Daily News Journal, Murfreesboro The Tennessean, Nashville The Spectrum, St. George **The Burlington Free Press The News Leader, Staunton Door County Advocate The Post-Crescent, Appleton** The Reporter, Fond du Lac **The Green Bay News-**Chronicle (folded 6/3/05) **Green Bay Press-Gazette Herald Times Reporter,** Manitowoc **Marshfield News-Herald Oshkosh Northwestern, Oshkosh The Sheboygan Press Wausau Daily Herald Wisconsin Rapids Daily Tribune, Wisconsin Rapids**

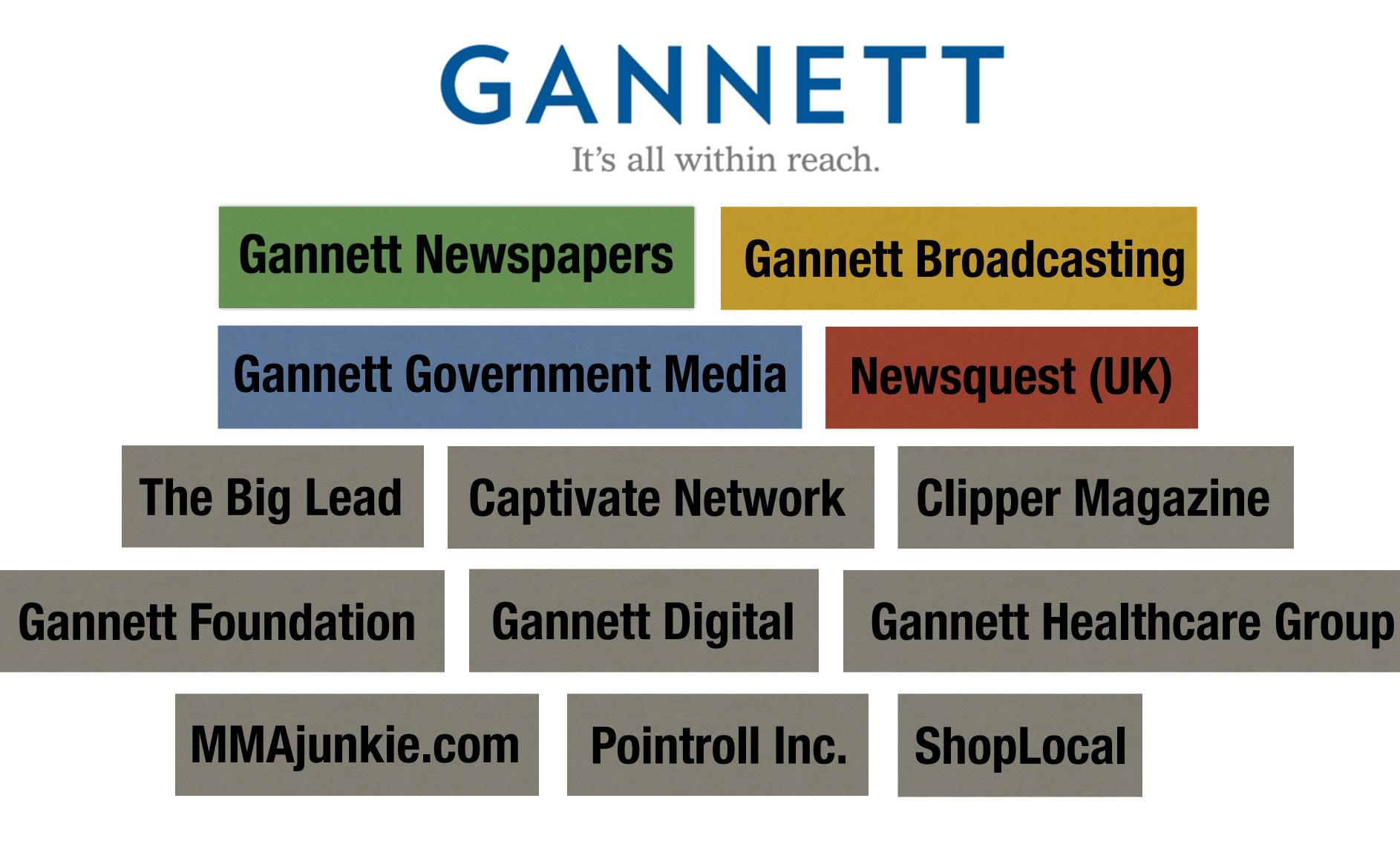
Gannett Newspapers

USA Today The Montgomery Advertiser The Arizona Republic, Phoenix The Tucson Citizen **The Baxter Bulletin** The Desert Sun, Palm Springs **The Salinas Californian Tulare Advance-Register** Visalia Times-Delta **Fort Collins Coloradoan** The News Journal, Wilmington Florida Today, Brevard County **Fort Myers News-Press Tallahassee Democrat FSView & Florida Flambeau Central Florida Future Seminole Chronicle Pacific Daily News, Hagatna The Indianapolis Star Journal and Courier, Lafayette Chronicle-Tribune, Marion The Star Press, Muncie Palladium-Item, Richmond The Des Moines Register Iowa City Press-Citizen** The Courier-Journal, Louisville

The Town Talk, Alexandria The Daily Advertiser, Lafayette The News-Star, Monroe **Daily World, Opelousas The Times, Shreveport** The Daily Times, Salisbury **Battle Creek Enquirer Detroit Free Press** Lansing State Journal **Times Herald, Port Huron Press & Argus, Livingston** County St. Cloud Times Mississippi **Hattiesburg American Springfield News-Leader,** Springfield **Reno Gazette-Journal Asbury Park Press Courier-News, Bridgewater The Courier-Post, Cherry Hill Home News Tribune, East Brunswick Daily Record, Morristown The Daily Journal, Vineland Ocean County Observer, Toms** River

Press & Sun-Bulletin, **Binghamton** Star-Gazette, Elmira The Ithaca Journal **Poughkeepsie Journal Democrat and Chronicle, Rochester** The Journal News, Westchester County Asheville Citizen-Times **Newspaper Network of Central Ohio Telegraph-Forum, Bucyrus Chillicothe Gazette** The Cincinnati Enquirer **Coshocton Tribune** The News-Messenger, Fremont Lancaster Eagle-Gazette **Mansfield News Journal,** Mansfield **The Marion Star** The Advocate (Newark), Newark **News Herald, Port Clinton Times Recorder, Zanesville** Statesman Journal, Salem **The Greenville News** Link (magazine)

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World's biggest public companies

| 1767 Popular | United States | ŝ |
|---|---------------|---|
| 1768 🖓 ^{AOL} | United States | ŝ |
| Gannett 1768 GANNETT It's all within reach. | United States | ŝ |
| 1770 Hokkoku Bank | Japan | 5 |
| 1771 CC Media Holdings | United States | ŝ |
| Quanta Services | United States | ŝ |
| 1773 Contents Clark de Mexico | Mexico | ŝ |

| \$2.2 B | \$0.2 B | \$36.5 B | \$2.9 B |
|---------|----------|----------|---------|
| \$2.2 B | \$1 B | \$2.8 B | \$2.6 B |
| \$5.4 B | \$0.4 B | \$6.4 B | \$5 B |
| \$0.8 B | \$0.1 B | \$41.3 B | \$1.3 B |
| \$6.2 B | \$-0.4 B | \$16.3 B | \$0.2 B |
| \$5.9 B | \$0.3 B | \$5.1 B | \$6.3 B |
| \$2.3 B | \$0.3 B | \$2.2 B | \$9.6 B |

forbes.com/global2000/

"Dramatic changes in our industry combined with the difficult economy ... means it is no longer viable to produce two daily printed newspapers in Tucson"

Profits for Gannett and Lee's business partnership, Tucson Newspapers Inc., were \$16.5 million in 2008 and its profit margins exceeded 19%

The news prompted Attorney General Terry Goddard to file a motion for a temporary restraining order and a lawsuit alleging that the Citizen's closure violates state and federal antitrust laws



- Bob Dickey, president of Gannett's U.S. Community Publishing Division

USA Today, May 16, 2009

USA Today, May 16, 2009

usatodav30.usatodav.com/monev/media

What happened? **Some factors:**

- * News library dependence entirely on funds from one organization
- * Newspaper management slow to react to the Internet
 - Other organizations created more attractive models for advertising
- Corporate focus on quarterly profits makes long-term 業 investments less attractive



What happened? **Some factors:**

* A joint operating agreement between the Citizen and Star had unexpected consequences

* News libraries seen as cost centers, not as assets

Many potential news library stakeholders not part of the process

* No chain of custody in place for content



A systems thinking approach

Systems thinking has roots in General System Theory advanced by Ludwig von Bertalanffy (1940s) and Ross Ashby (1950s)

Systems thinking has been defined as an approach to problem solving, by viewing "problems" as parts of an overall system, rather than reacting to specific parts, outcomes or events and potentially contributing to further development of unintended consequences.



A systems thinking approach

A system is a set of interacting or interdependent components which interact with each other within the system's boundaries to function as an integrated whole. The nature of the whole is always different from and greater than the sum of its unassembled individual parts.

A systems thinking approach

Systems initiatives are organized efforts to improve a system and its impacts. They can be publicly or privately funded or a combination of the two.

Systems initiatives are also called systems building, systems change, or systems reform. Systems building often refers to efforts to create policies, funding, programs or services that make up the system. Systems change or reform efforts tend to take place on the "front lines" of practice.







Infrastructure



Connections



Context environment that surrounds the system so it produces the policy and funding changes needed to create and sustain it.

Cultural Heritage Education Private Enterprise



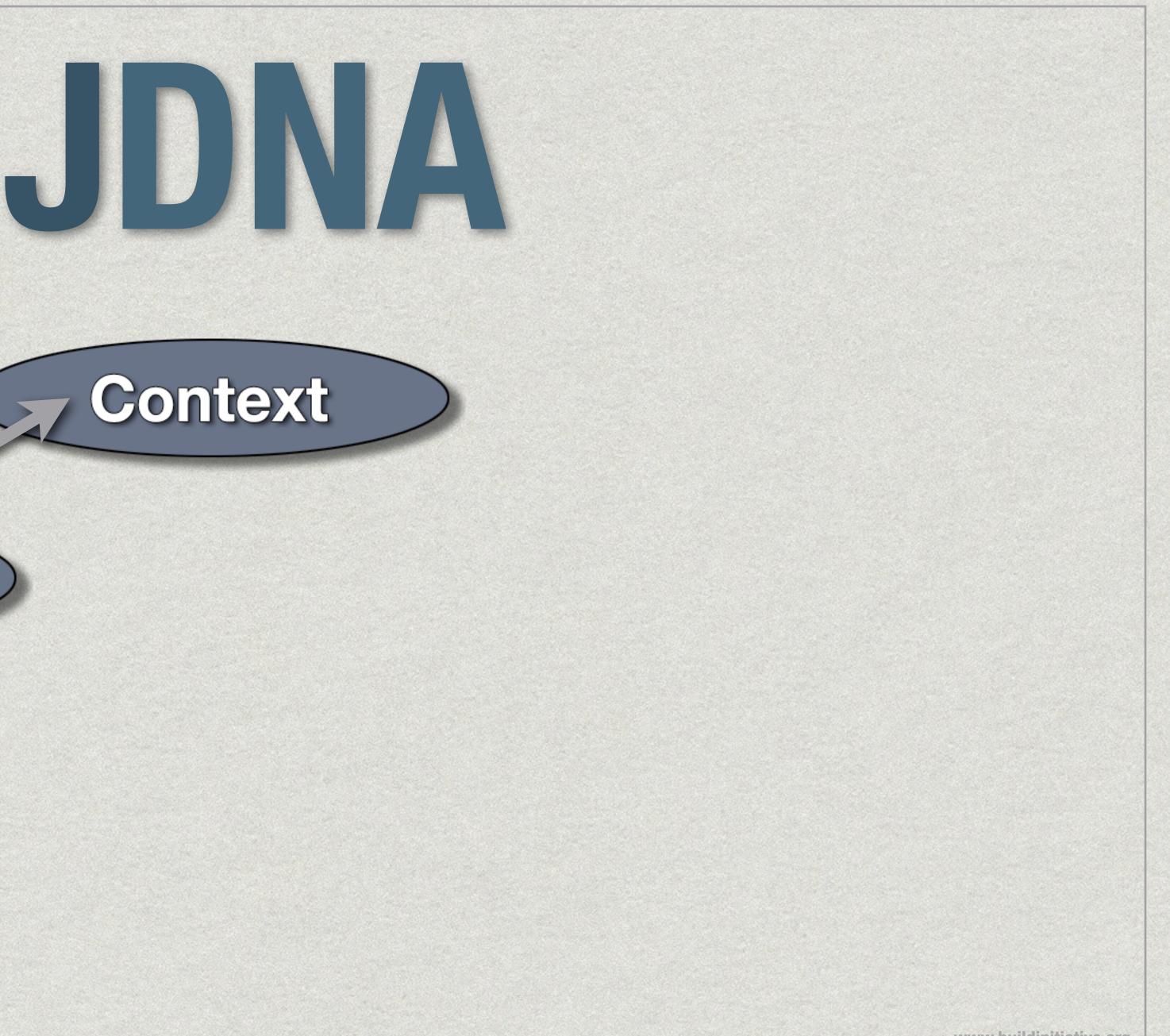
Improving the political

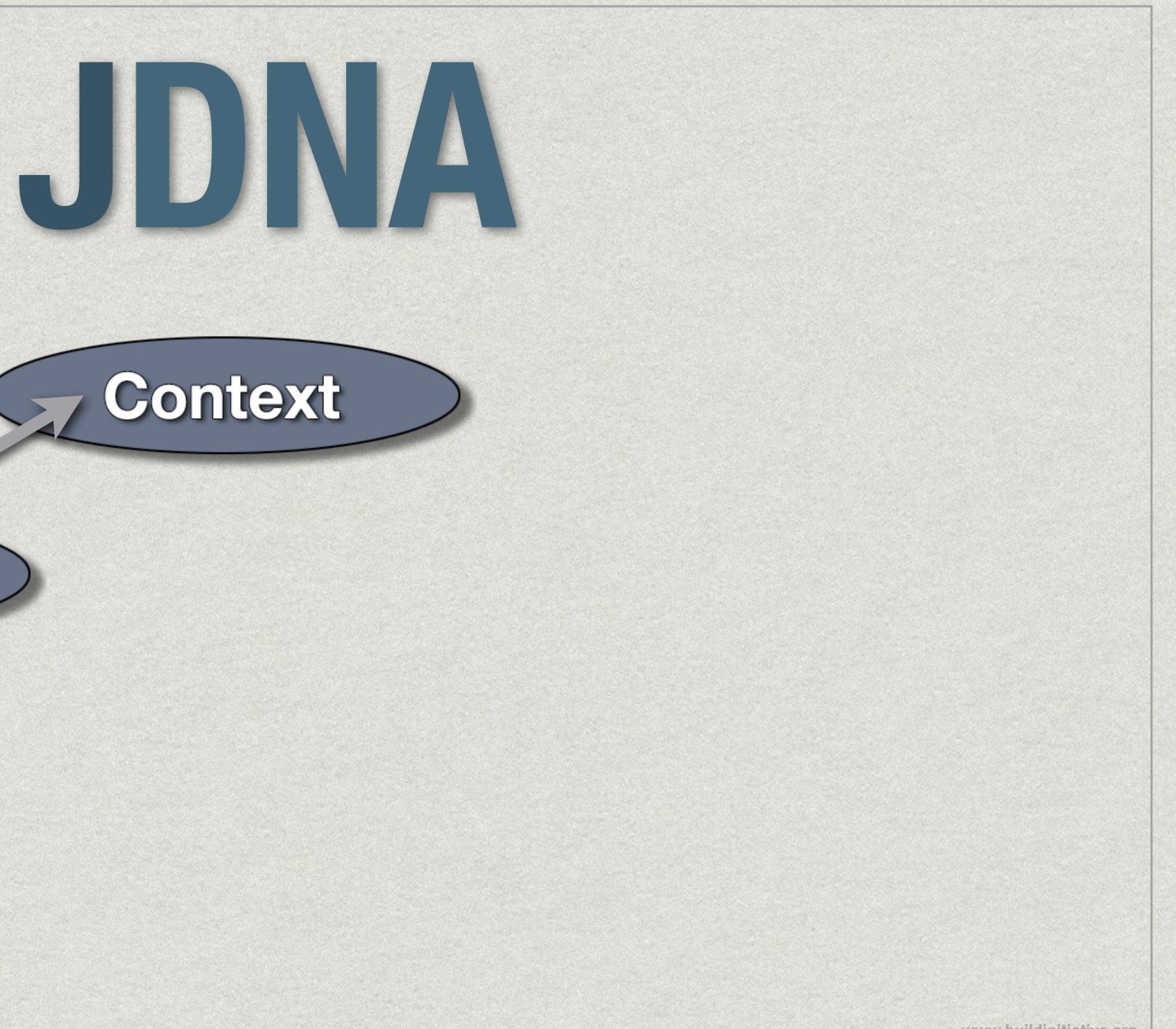
 Journalism / Media Government Individual Users

Context >- Improving the political environment that surrounds the system so it produces the policy and funding changes needed to create and sustain it.

Government - influence policy makers to shape policy that supports media preservation









Components - Establishing highperformance programs and services within the system that produce results for system beneficiaries

New Business Models
Grant writing
Preservation Services
Asset mapping



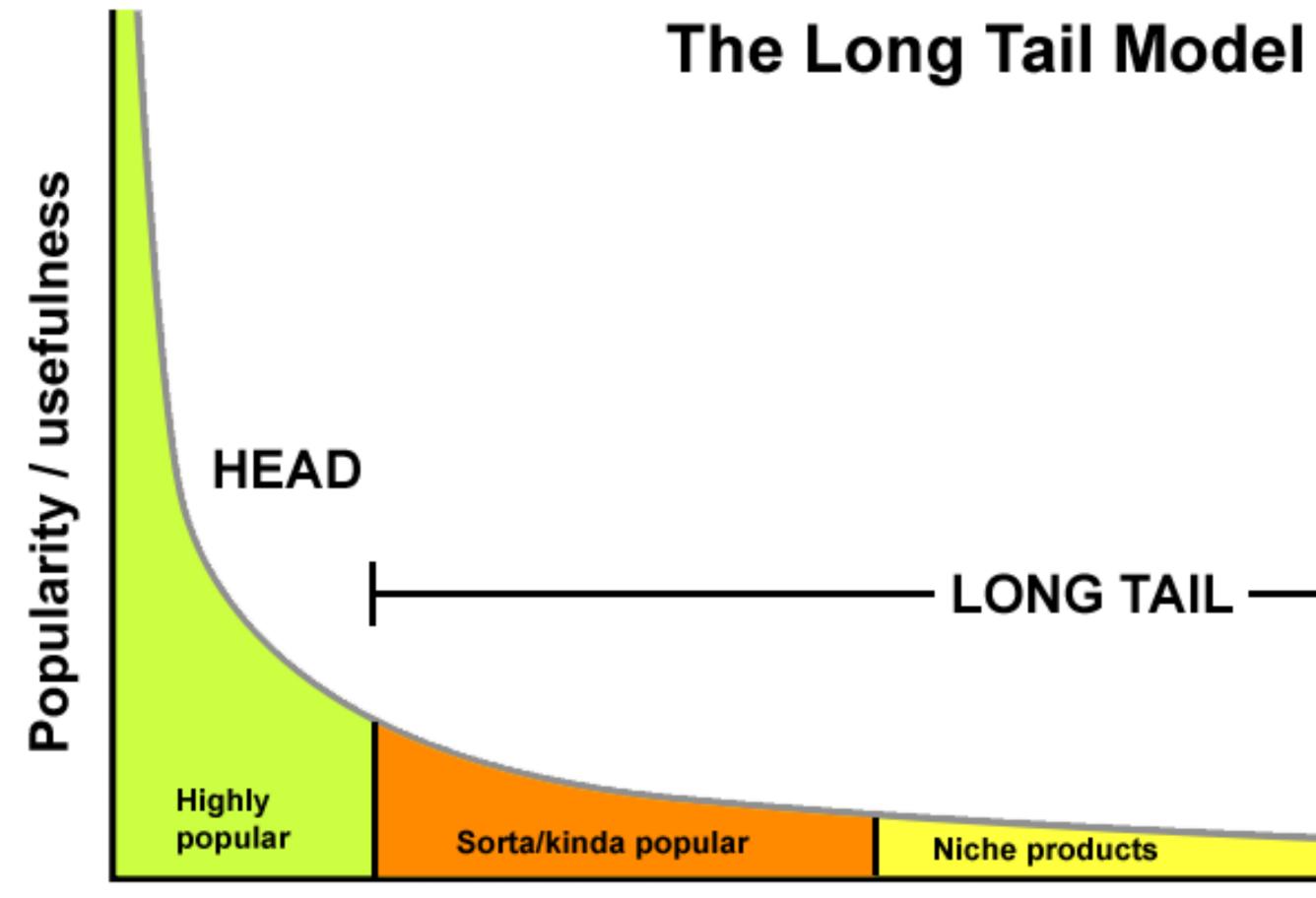
Inventory of Archives
Service Coordination
Marketing
Training / Conferences

Components – Establishing highperformance programs and services within the system that produce results for system beneficiaries

 Offer new business frameworks that leverage efficiencies in technology along with the market reach of longtail monetization models.







of unique products

LONG TAIL

Niche products







Amazon started with lots of content and added personalization



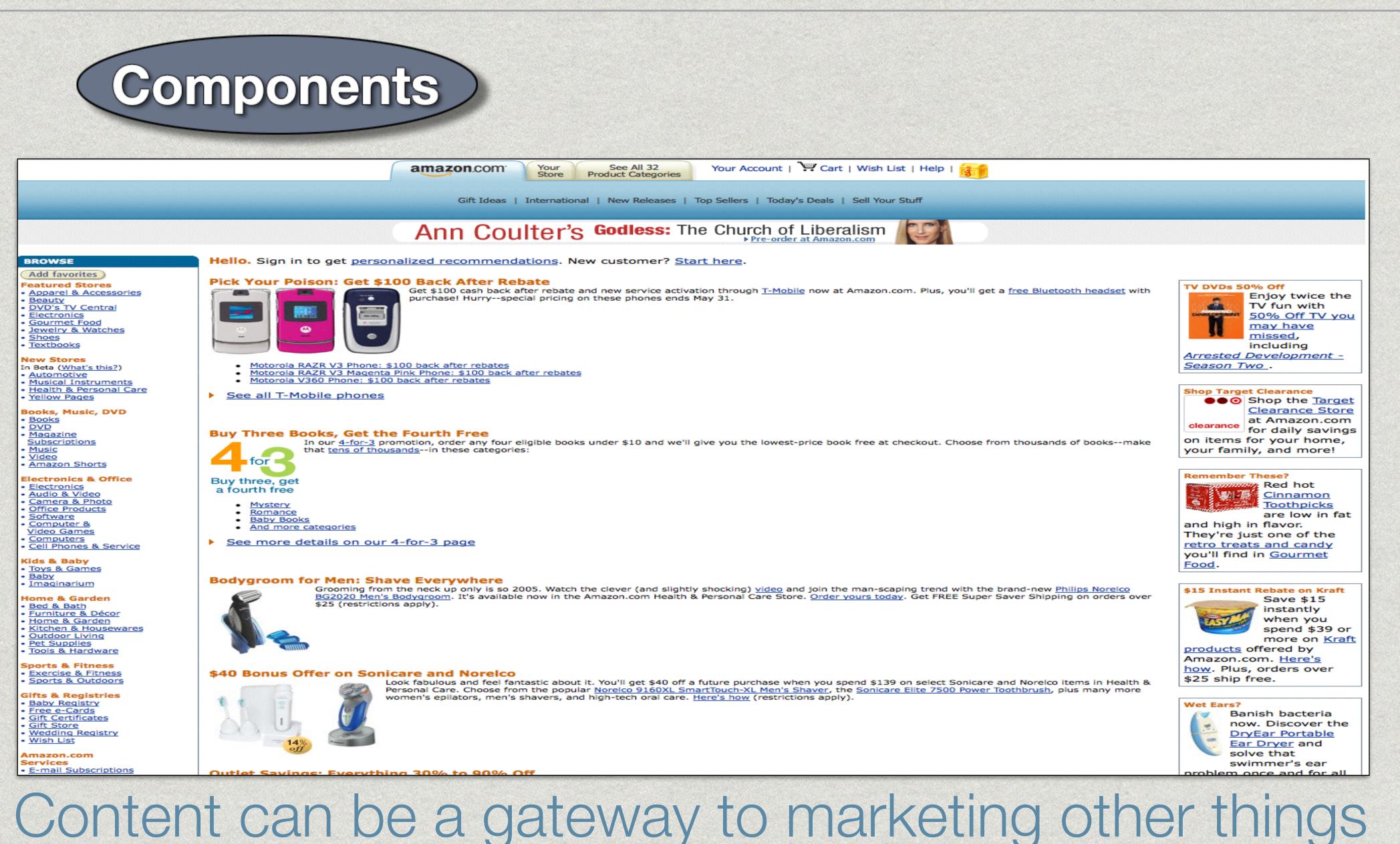
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These are the books we love, offered at Amazon com low prices. The spotlight moves EVERY

Search Amazon.com's million title catalog by author, subject, title, keyword, and more ... Or take a look at the books we recommend in over 20 categories ... Check out our customer reviews and the award winners from the Hugo and Nebula to the Pulitzer and Nobel ... and bestsellers are





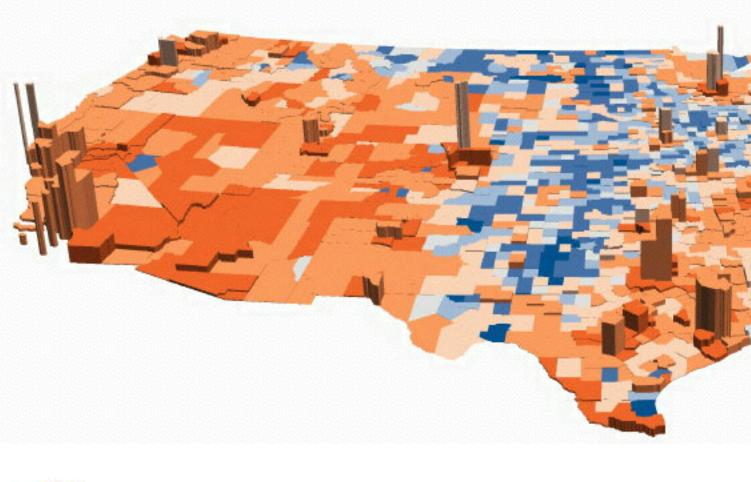
Components - Establishing highperformance programs and services within the system that produce results for system beneficiaries

 Create a real-time online map of news archives showing their level of risk, research value, geographic representation, temporal coverage, completeness, diversity, copyright issues and unique qualities

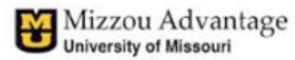


JDNA Initiative

At-Risk Media Archives in the United States









Components

JDNA

University of Missouri



MU Libraries University of Missouri

VIU LIBRARIES University of Missouri









Connections - Creating strong and effective linkages and access across system components that further improve results for system beneficiaries

- Journalists
- Archivists
- Corporations / Business
- Historians
- Legal Counsel



- Educators / Institutions
- Mass Media
- Genealogists
- Entrepreneurs
- Students

Connections - Creating strong and effective linkages and access across system components that further improve results for system beneficiaries

Journalists

Archivists

Students

Historians



 Educators Mass Media Genealogists Entrepreneurs





Infrastructure





Infrastructure – Developing the support systems needed to function effectively and with quality

 Organizational structure • Staff Communication systems Standards • Timeline



- Collective goals
- Computer systems software and hardware
- Measurable outcome data / Evaluation
- Research

Infrastructure – Developing the support systems needed to function effectively and with quality

Website

Monetization models Petascale servers



Gamification

- Improve or replace OCR
- Crowdsourcing





Infrastructure



Connections

Scale

Scale system is available to as many people as possible so it produces broad and inclusive results for system beneficiaries.

Models

Publicity

• Meetings / Conferences



- Ensuring a comprehensive

 Partnerships / Federations

Education

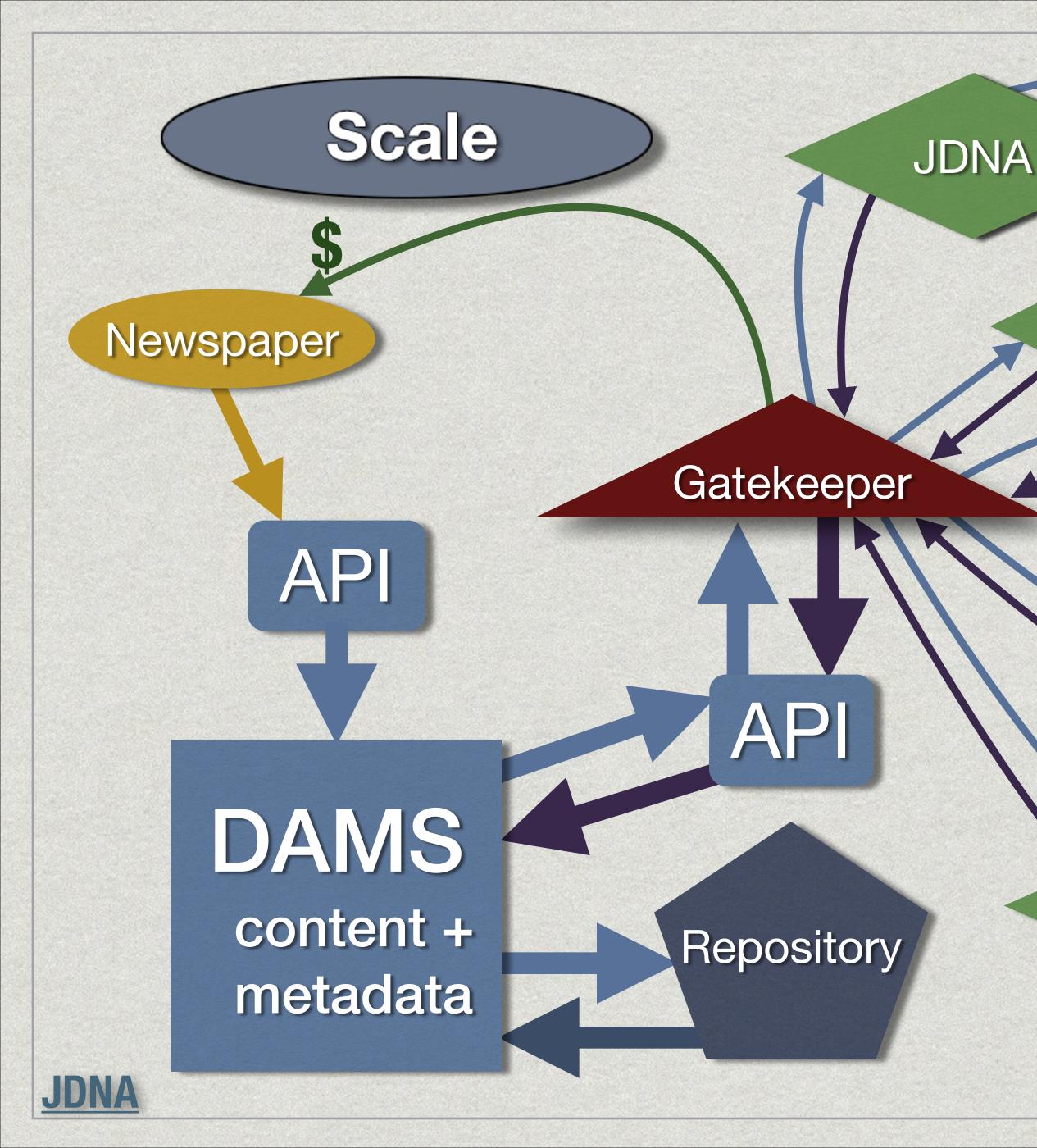
Outreach

Scale - Ensuring a comprehensive system is available to as many people as possible so it produces broad and inclusive results for system beneficiaries.

 Open source software system as trusted third-party to provide preservation and access services for digital news content

 Develop model using Columbia Missourian, KBIA and KOMU media assets as a test bed





Journalism Scholars

College

Historians

Federation

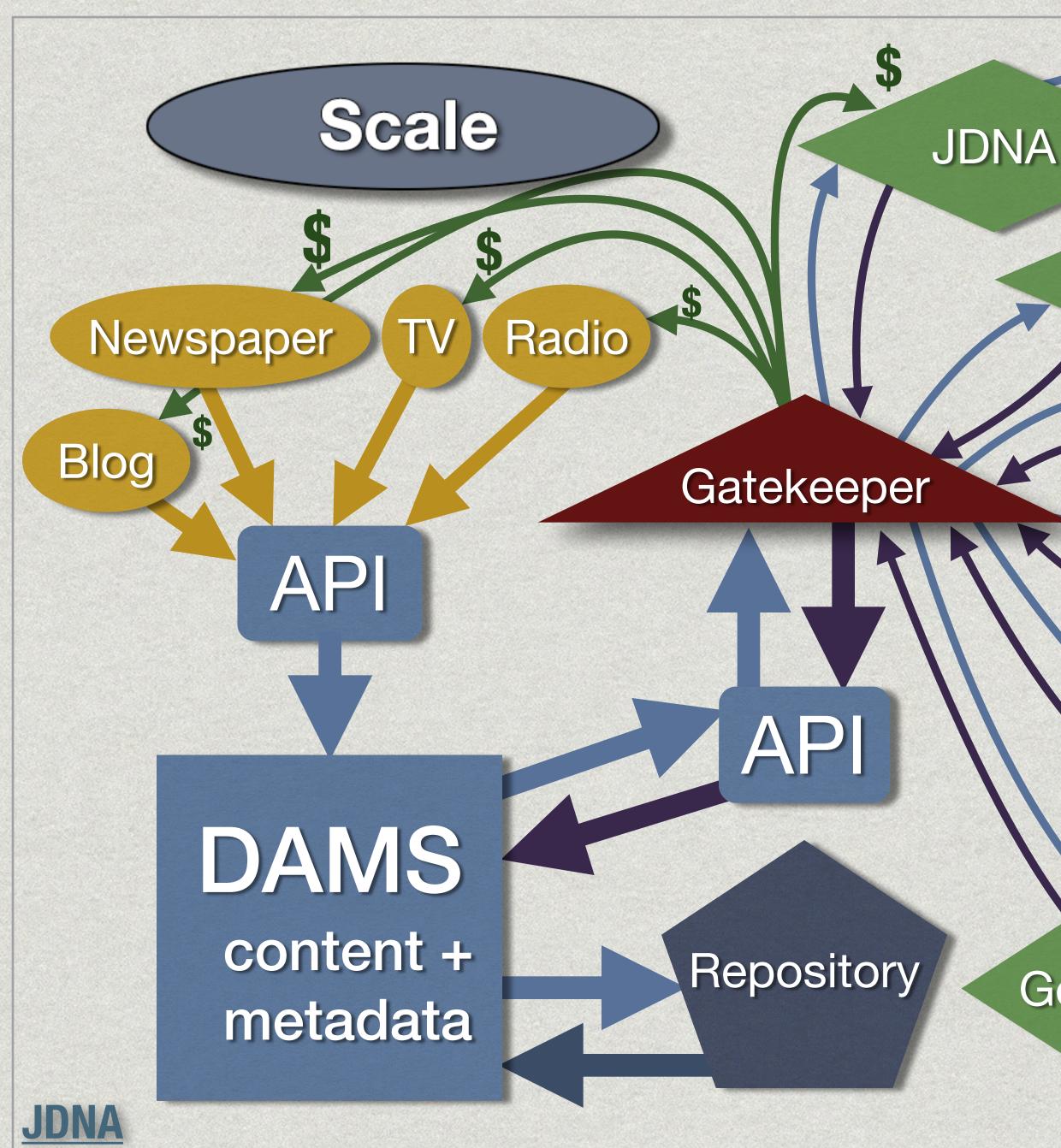
Sociologists

Institute

Network

Business Research

Others





Education

Newspaper

TV

Public

Social

Radio

Realtors

Legal

Lawyers

Genealogy

Genealogists

Scale system is available to as many people as possible so it produces broad and inclusive results for system beneficiaries.

Facilitate public/private partnerships to underwrite the cost of archive preservation and access



- Ensuring a comprehensive





Infrastructure



Connections

Scale





Experiments





UGWS BICHIVE newspaper indusity

A New News Archive Scenario

JDNA



News

Blog



How RJI came to be

OUTA



Context

Components hank YOU Connections

Infrastructure



