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A Global Reach: Use of the Nebraska Digital Commons in Developing Regions

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A Global Reach: Use of the Nebraska Digital Commons in Developing Regions

Presenter 1 Title

Coordinator for Scholarly Communications

Session Type

45-minute concurrent session

Abstract

An analysis of the University of Nebraska-Lincoln (Nebraska) Digital Commons data revealed that developing countries comprise over 33 percent of all downloads and 57 percent of international downloads. This presentation will summarize the use of the Nebraska Digital Commons by countries in South Asia, East Asia and the Pacific, and Sub-Saharan Africa, the three regions where the most developing country downloads occurred. This summary includes the types of resources being downloaded and the types of organizations where the downloads occurred.

Discussion will focus on how further research can be conducted on whether such use of the Nebraska Digital Commons by users in developing regions is common among other institutional repositories. Furthermore, there will be discussion as to the implications of what types of resources are being accessed and what type of user is accessing them.

Location

KIPJ Room G

Keywords

developing countries, regions, digital commons, institutional repository, access, open access, nebraska

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Global Reach:

Use of the Nebraska Digital Commons in Developing Regions

Andrew Cano & Paul Royster
University of Nebraska-Lincoln

[2019 Digital Initiatives Symposium](#)

University of San Diego

April 30, 2019



Keywords: developing countries, regions, Digital Commons, institutional repository, access, open access, Nebraska

Abstract

Developing countries comprise 40 percent of international downloads and 25 percent of all downloads from University of Nebraska-Lincoln's institutional repository. This presentation will summarize the use of the Nebraska Digital Commons by representative countries in South Asia, East Asia and the Pacific, and Sub-Saharan Africa, the three regions where the most developing country downloads occurred in 2018. This summary includes the types of resources being downloaded and the types of organizations where the downloads occurred.

Discussion will focus on how further research can be conducted on whether such use of the Nebraska Digital Commons by users in developing regions is common among other institutional repositories. Furthermore, there will be discussion as to the implications of what types of resources are being accessed and what type of user is accessing them.



The repository

The screenshot shows the website's header with the University of Nebraska Lincoln logo and the title "Digital Commons@University of Nebraska - Lincoln". A navigation bar includes links for Home, About, FAQ, and My Account. A search sidebar on the left offers options like "in this repository", "Advanced Search", and "Search Help". The main content area features a "Reader from:" section showing a user from San Francisco, California, viewing a document titled "Physics, Chapter 11: Rotational Motion (The Dynamics of a Rigid Body)". Below this is a world map with a red overlay and a "Real-time Readership" box indicating 4 downloads since 11:23:43 AM. At the bottom, a statistics table displays 103,134 total papers, 54,012,100 total downloads, and 7,466,771 downloads in the past year.

UNIVERSITY OF
Nebraska
Lincoln

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Search

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How to Cite Items From This Repository

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Disciplines

Authors

Author Corner

Reader from: San Francisco, California, United States

Physics, Chapter 11: Rotational Motion (The Dynamics of a Rigid Body)
Henry Semat, Robert Katz
Robert Katz Publications

Real-time Readership
4
Downloads since
11:23:43 AM

Embed	Terms of Use	View Larger
103,134 Total Papers	54,012,100 Total Downloads	7,466,771 Downloads in the past year

UNL's Institutional Repository

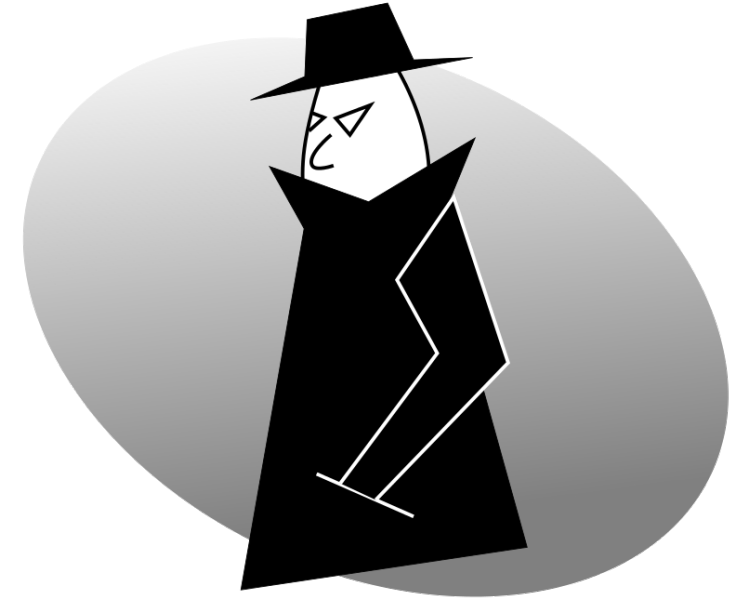
- Founded 2005
- Largest bepress installation
- Most visited subdomain of unl.edu (15%)
- Most downloaded IR in United States
- Avg downloads/item/year is around 70
- Numbers shown today are 2018 calendar year, or 12 mos. ending 3/31/19

**We collect—and I am going to share—
information concerning our users.**



Impact on user privacy?

Are we spying?



What we know about downloaders:

- Country of origin ~ 95%
- Geolocation < 90%
- Referring site ~75% (Google 97%, internal 1%, Bing 1%)
- Receiving institutional network ~ 20%
(to the level of .com/.edu/.org/.mil, etc.)

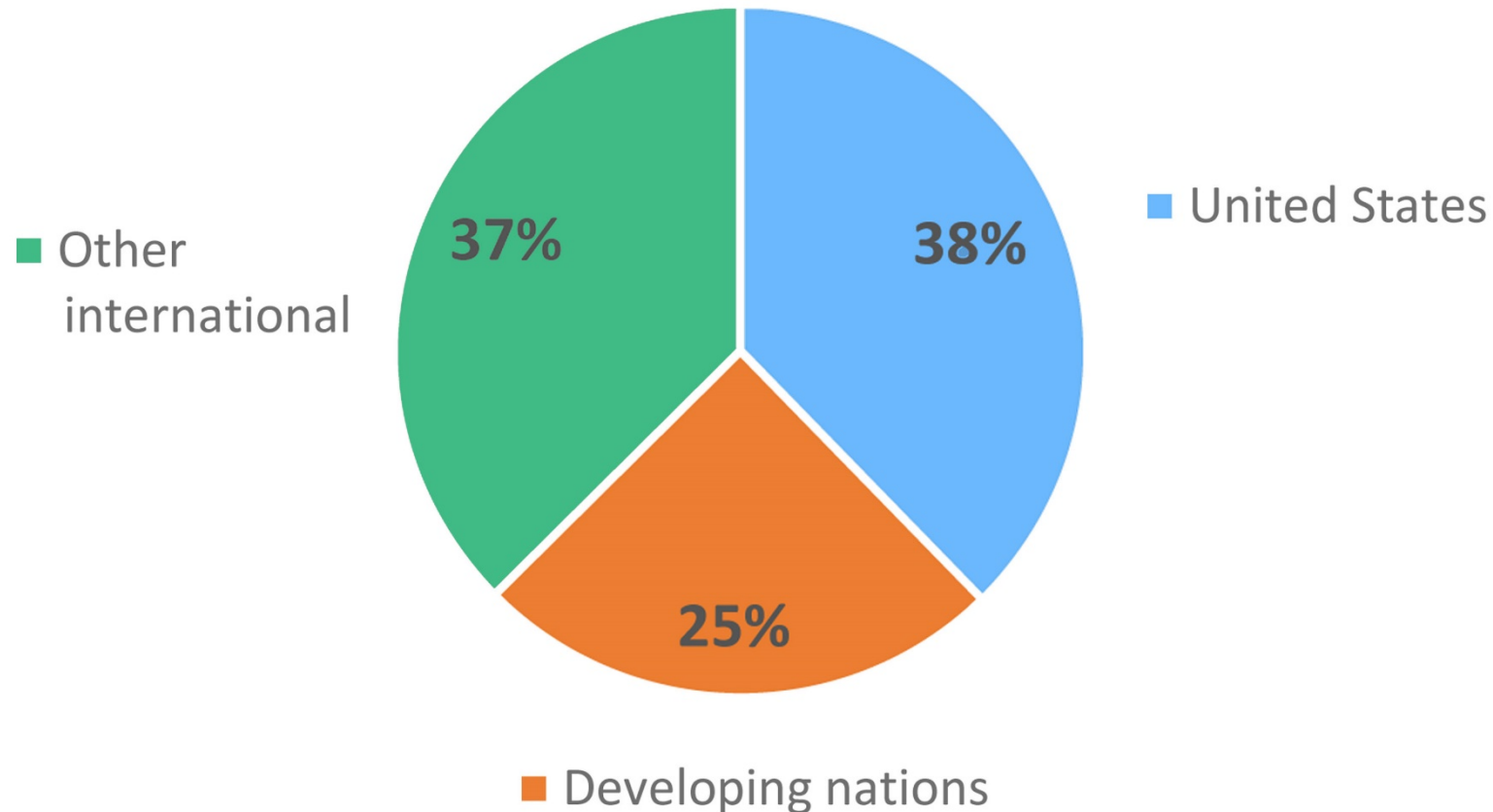
Do we have privileged information ?

- If not signed in (sign-in not required to browse or download):
No, nothing
- If signed in to personal account (to deposit or admin):
Name, email address, account password
optional: affiliation
- **No** university ID, passwords, credit card, student status,
library records, SSN. (*Digital Commons is completely separated from
all campus networks.*)



Our audience is highly international (63%)

Downloads 4/2018-3/2019



What is a “developing country”?

World Bank definition: Average annual Gross National Income < \$4,000

- Angola
- Armenia
- Bangladesh
- Benin
- Bhutan
- Bolivia
- Burkina Faso
- Burundi
- Cabo Verde
- Cambodia
- Cameroon
- Central African Republic
- Chad
- Comoros
- Congo, Dem. Rep
- Congo, Rep.
- Côte d'Ivoire
- Djibouti
- Egypt, Arab Rep.
- El Salvador
- Eritrea
- Ethiopia
- Gambia, The
- Georgia
- Ghana
- Guatemala
- Guinea
- Guinea-Bissau
- Haiti
- Honduras
- **India**
- Indonesia
- Kenya
- Kiribati
- Korea, Dem Rep.
- Kosovo
- Kyrgyz Republic
- Lao PDR
- Lesotho
- Liberia
- Madagascar
- Malawi
- Mali
- Mauritania
- Micronesia, Fed. Sts.
- Moldova
- Mongolia
- Morocco
- Mozambique
- Myanmar
- Nepal
- Nicaragua
- Niger
- **Nigeria**
- Pakistan
- Papua New Guinea
- **Philippines**
- Rwanda
- São Tomé and Príncipe
- Senegal
- Sierra Leone
- Solomon Islands
- Somalia
- South Sudan
- Sri Lanka
- Sudan
- Swaziland
- Syrian Arab Republic
- Tajikistan
- Tanzania
- Timor-Leste
- Togo
- Tunisia
- Uganda
- Ukraine
- Uzbekistan
- Vanuatu
- Vietnam
- West Bank and Gaza
- Yemen, Rep.
- Zambia
- Zimbabwe

Our international “most popular” - 2018

- **Library Philosophy & Practice (e-journal)**

2,157 articles

859,717 downloads (avg 399/article)

1. Philippines, 2. Nigeria, 3. India, 4. United States, 5. Malaysia, 6. South Africa, 7. Pakistan, 8. Kenya, 9. United Kingdom, 10. Tanzania

- **Nebraska Tractor Test Reports**

2,394 reports

194,299 downloads (avg 81/report)

1. United States. 2. Canada. 3. China. 4. Australia. 5. United Kingdom. 6. Germany. 7. Italy. 8. France. 9. Netherlands. 10. Greece

- **Robert Katz's *Physics* (1958)**

49 chapters

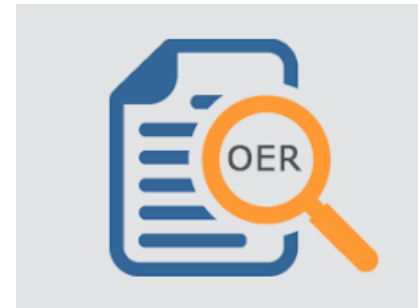
149,429 downloads (avg 3,049/chapter)

1. United States, 2. India, 3. Philippines, 4. United Kingdom, 5. Canada, 6. Nigeria, 7. Pakistan, 8. Malaysia, 9. Australia, 10. South Africa

- Also “how-to” papers from ag extension system re farming & homemaking.
- Also series of “E-texts in American Studies”: digital facsimiles 16th-19th century publications

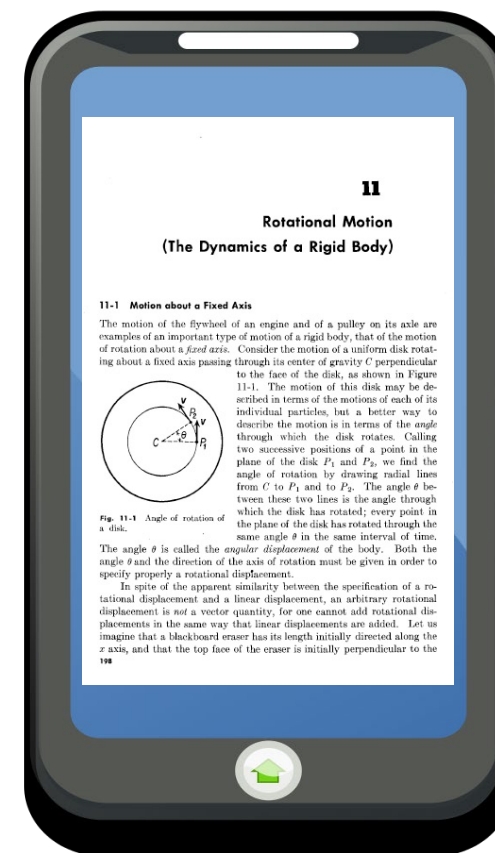
Open Educational Resources: OERs

- Mostly recent creations (past 5 years)
- Licensed CC-BY or CC-0
- Frequently complete courses
- Discovery via specialized search

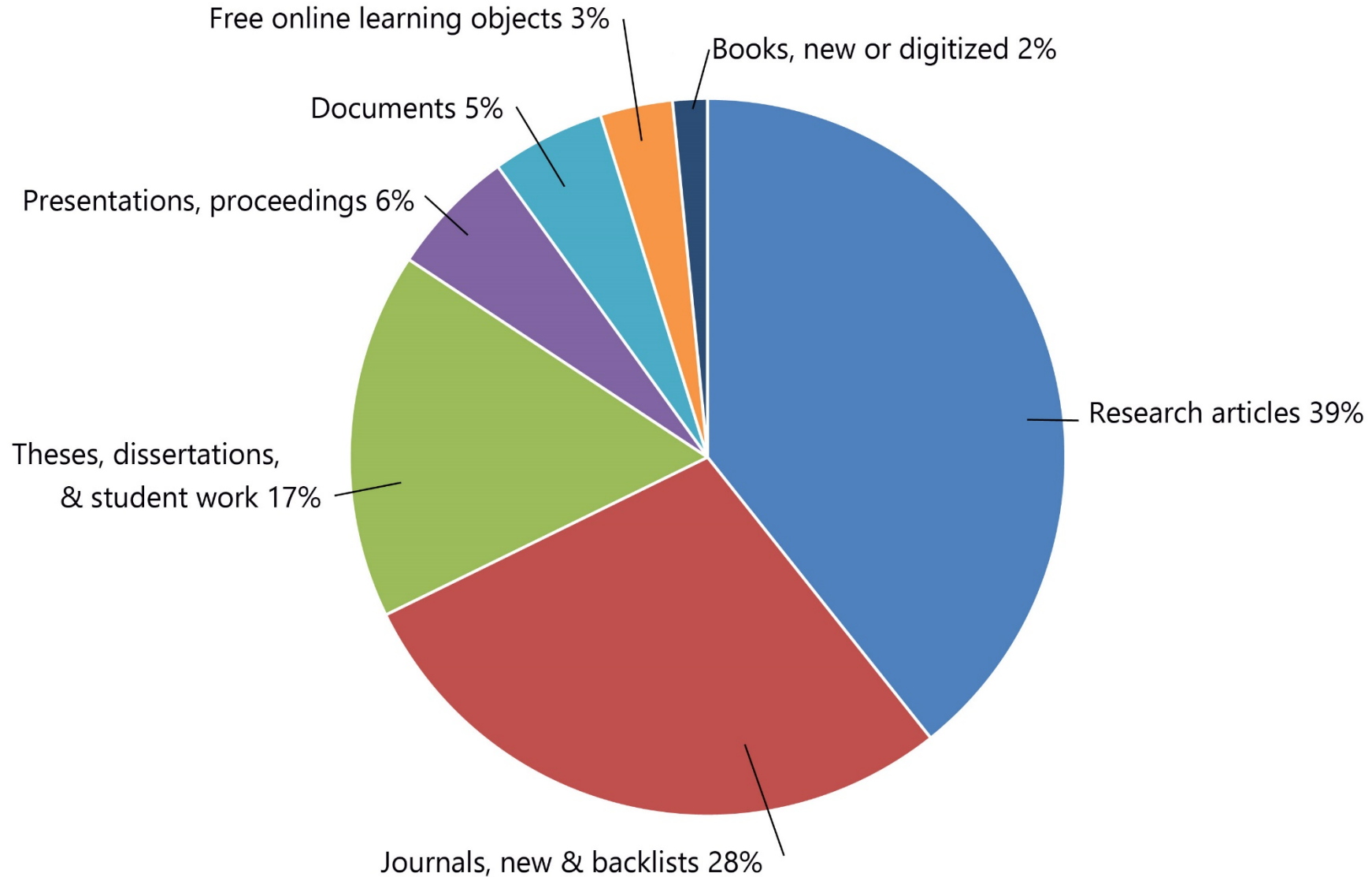


Free Online Learning Objects: FOLO

- May be digitization of past pedagogical materials
- Frequently unconnected lessons, units, exercises
- A medley of licenses
- Discovery via general Google search

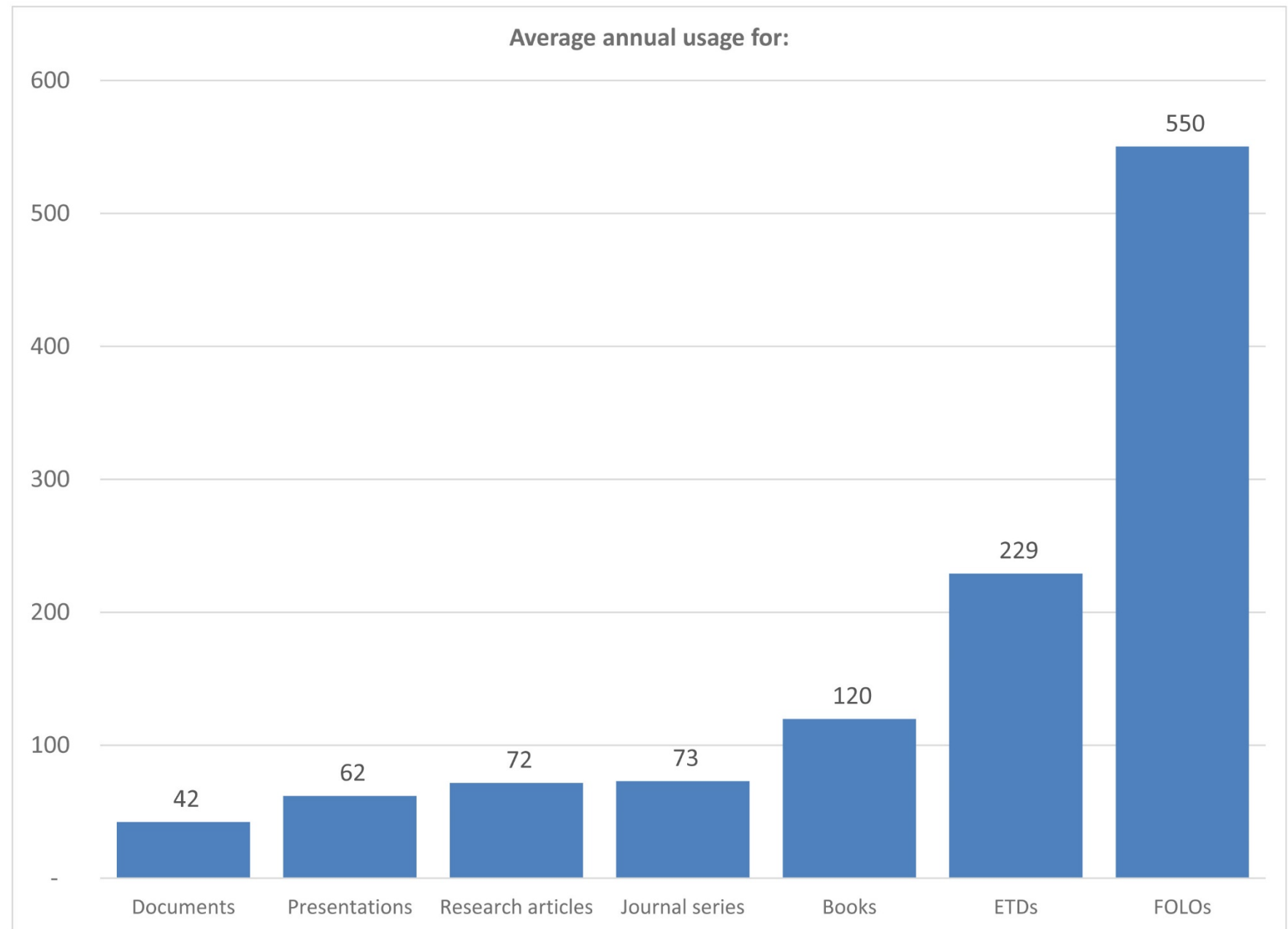


Downloads by type 4/18--3/19



Average downloads by item type

4/18—3/19



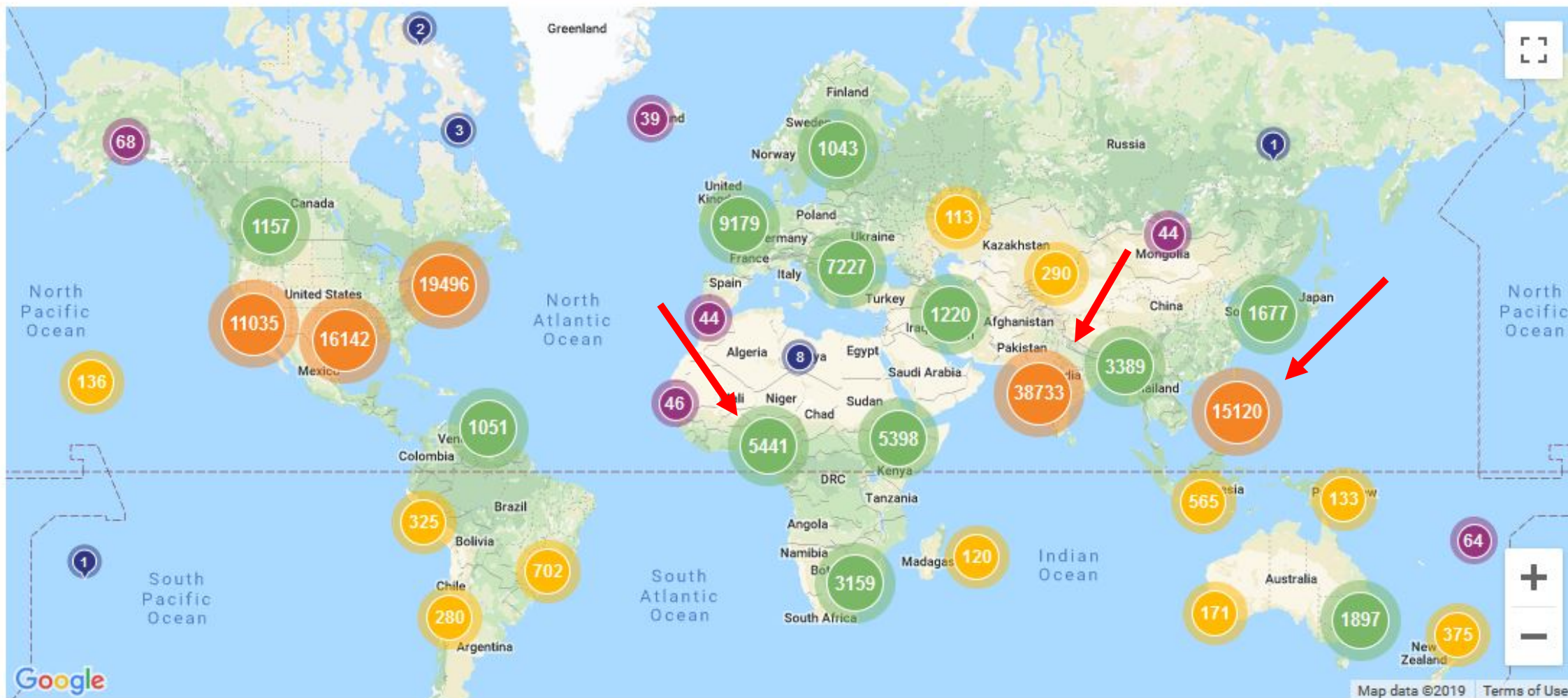
Top 20 Countries for FOLO's

1.	USA	42,572	11.	South Africa	1,769
2.	India	32,728	12.	Turkey	1,386
3.	Philippines	9,692	13.	Indonesia	1,282
4.	UK	4,399	14.	Germany	1,158
5.	Nigeria	4,076	15.	Tanzania	1,129
6.	Canada	4,067	16.	Kenya	1,125
7.	Pakistan	3,199	17.	U. A. E.	1,065
8.	Malaysia	3,075	18.	Egypt	1,064
9.	Australia	2,091	19.	China	929
10.	Ethiopia	1,786	20.	Russia	928

“Developing countries”

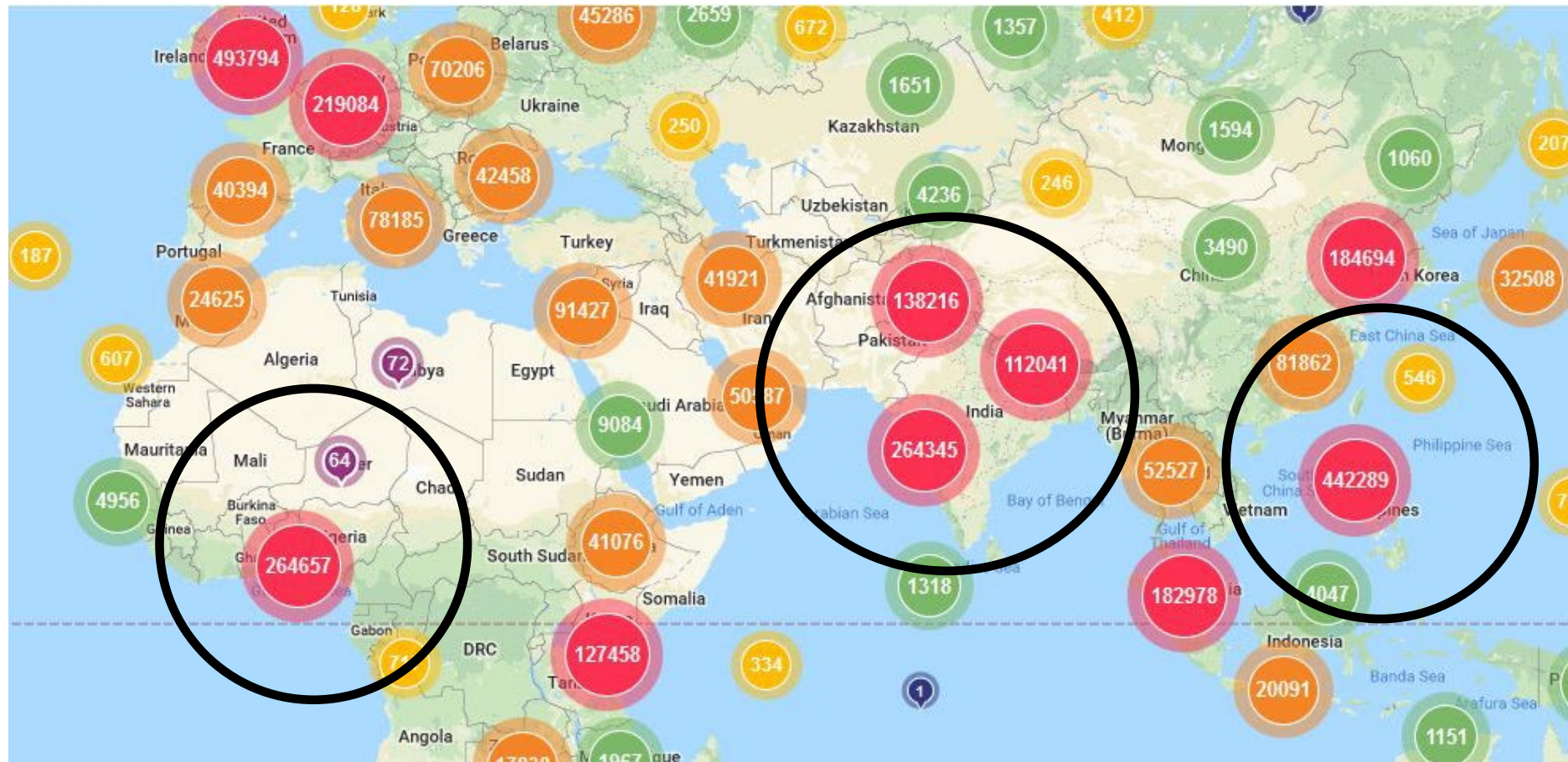
World Distribution of FOLO downloads

Readership Distribution



3 Models of Developing Countries Usage

- Philippines
- Nigeria
- India



Download rates/million vs US & world avg.

	Downloads Apr'18-March'19	Population (millions)	Downloads per million pop.
Philippines	449,927	105	4,285
Nigeria	211,474	200	1,057
India	391,719	1,370	286
<hr/>			
USA	2,440,556	329	7,418
World	7,021,446	7,696	912

Philippines

- Population 105 million
- GNI 314 billion
- Per capita \$2,987.
- Downloads 450,000
- FOLOs 9,600 (2%)



Philippines, 25 most-downloaded articles

Downloads

Effect of Social Media on Academic Performance of Students in Ghanaian Universities: A Case Study of University of Ghana, Legon.	68363
A Comparative Study of use of the Library and the Internet as Sources of Information by Graduate Students in the University Of Ghana	20526
Reading Habits Among Students and its Effect on Academic Performance: A Study of Students of Koforidua Polytechnic	14407
Social Media Network Participation and Academic Performance In Senior High Schools in Ghana	13152
Internet Use and its Effect on Senior High School Students in Wa Municipality of Ghana	7765
A Case Study of Reading Instruction in a Philippine Classroom	6802
Being There: A Grounded-Theory Study of Student Perceptions of Instructor Presence in Online Classes	5988
The Effect Of Social Networking On Students' Academic Performance: The Perspective Of Faculty Members Of Periyar University, Salem	5202
E-book Reading and its Impact on Academic Status of Students at Payame Noor University, Iran	4931
Mental health help seeking among Filipinos: a review of the literature	4725
The Impact of Students' Academic and Social Relationships on College Student Persistence	4558
High School Home Economics Students' Perceptions of Subject Matter Needs in Home Economics Curriculum	4277
Parental Involvement Among Low-income Filipinos: A Phenomenological Inquiry	3639
How Students Choose a College: Understanding the Role of Internet Based Resources in the College Choice Process	3340
Comparative Study of Library and Internet Use as a Source of Information by Graduate Students of the University for Development Studies, Ghana	3304
A Descriptive Analysis of Demographic Characteristics and Their Influence on Student Attendance at Programming Board Events	3105
Influence of social networking sites on students' academic and social lives: The Ghanaian Perspective.	2622
Improving Problem Solving by Improving Reading Skills	2488
The Effects of Social Media on the Undergraduate Students' Academic Performances	2468
Adolescent Alcohol Use: Mixed Methods Research Approach	2193
An Analysis Of The Effects Of Financial Education On Financial Literacy And Financial Behaviors	2156
The Caring Teacher: A Multiple Case Study That Looks at What Teachers Do and Believe about Their Work With At-Risk Students	2075
Relationship of Teaching Styles and Learning Styles to Classroom Environment	1924
NF94-186 Functions of Baking Ingredients	1774
A Phenomenological Study of Millennial Generation Cooperative Extension Educators' Development of Core Competencies	1632

Blue = Philippine subject

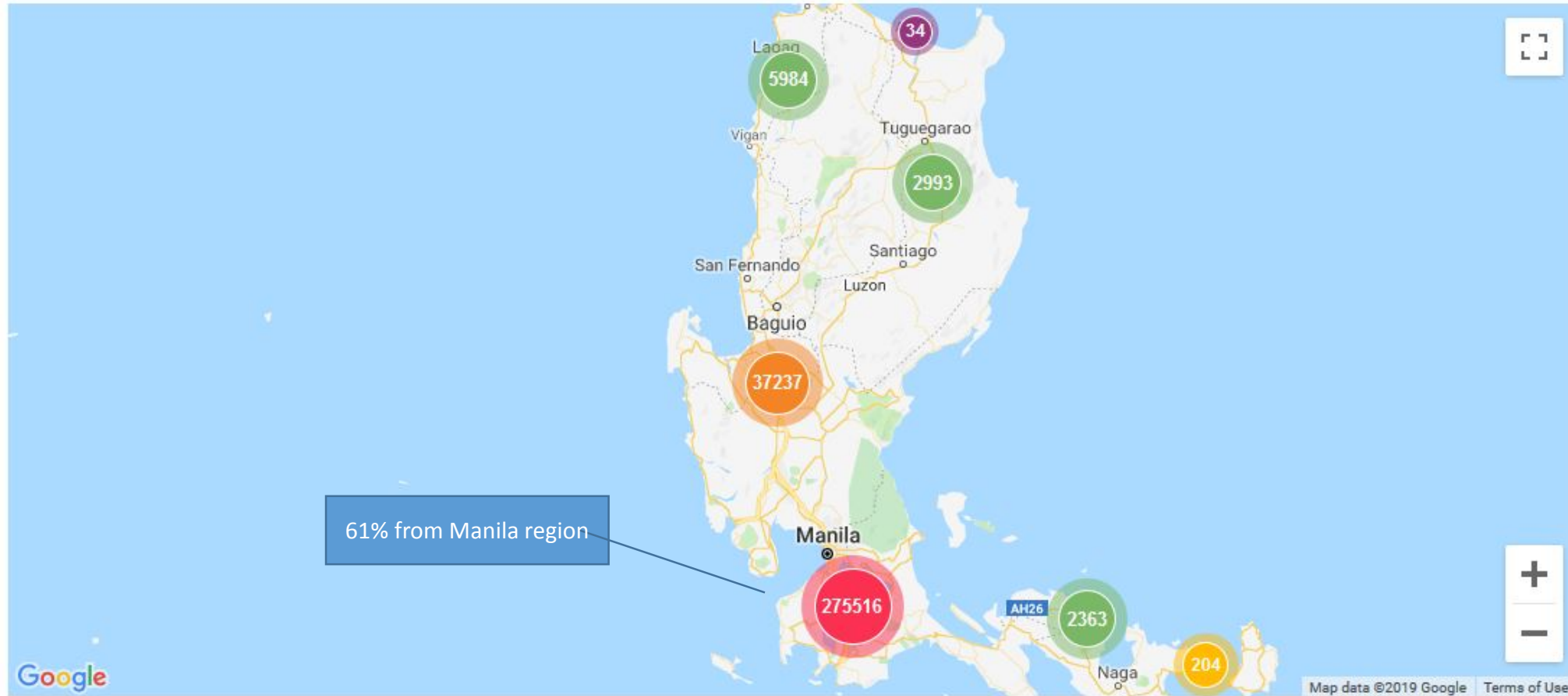
Readership Distribution



Map data ©2019 GBRMPA, Google, SK telecom Terms of Use

Custom Date Range: 04/01/2018 to 03/31/2019

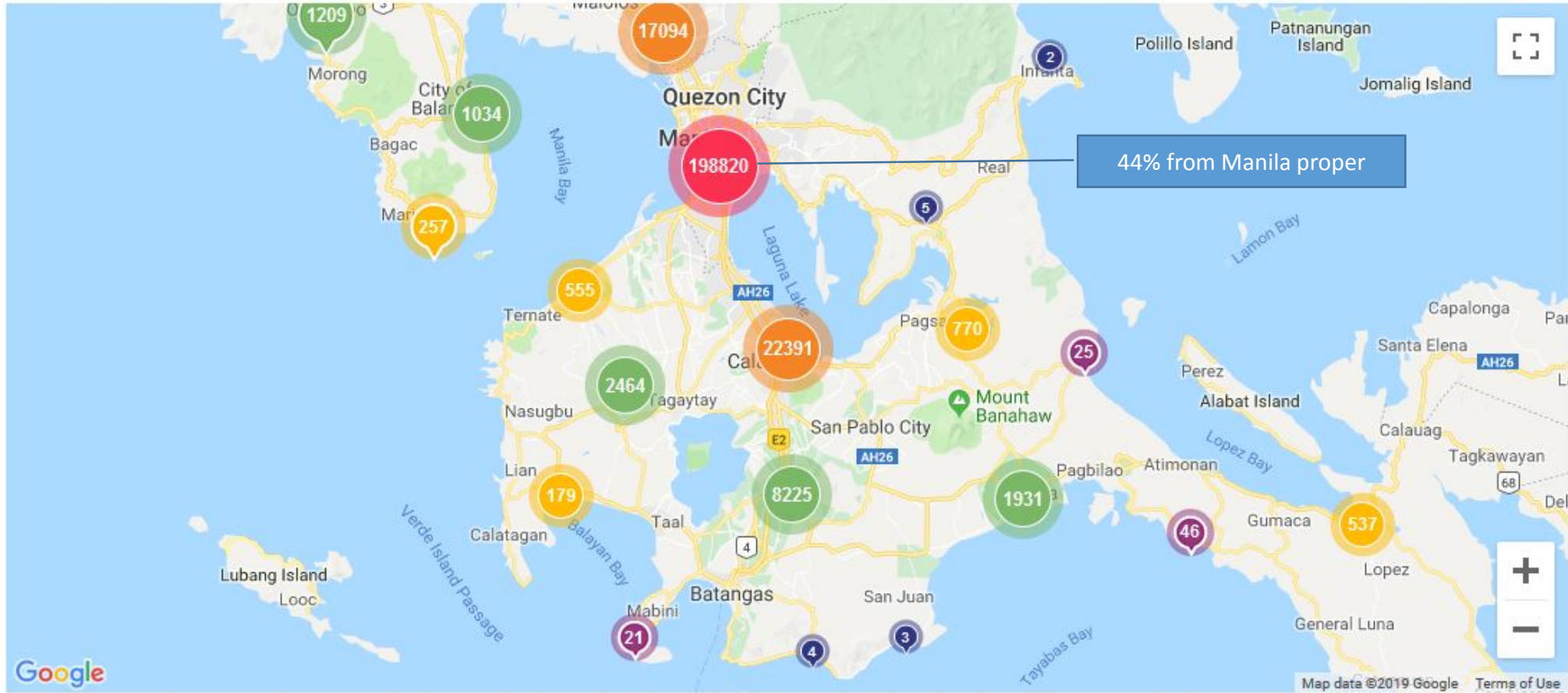
Readership Distribution



61% from Manila region

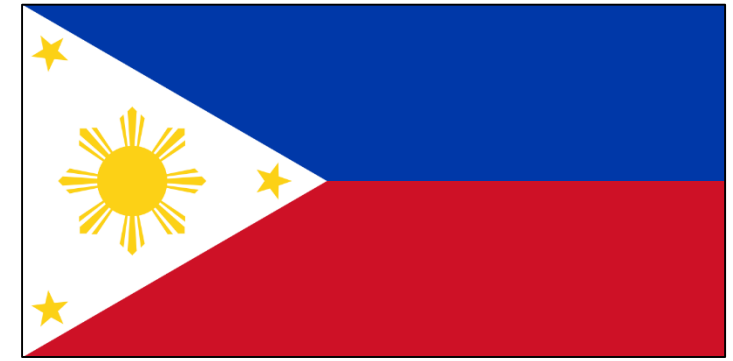
Custom Date Range: 04/01/2018 to 03/31/2019

Readership Distribution



Custom Date Range: 04/01/2018 to 03/31/2019

Philippines — comments



- Pretty normal set of articles
- Some preference for Philippine subjects, but only 3 of 25
- Most-popular materials are library science, education, and psychology research articles
- Significant use of *Library Philosophy & Practice*
- 18,000 different items were downloaded
- 9,000 “FOLO” downloads, but none in top 25.
- Accessed from variety of consumer, government, corporate, & educational networks

Nigeria

- population 200 million
- GNI 376 billion
- Per capita \$1,880
- Downloads 211,000
- FOLOs 4,000 (2%)



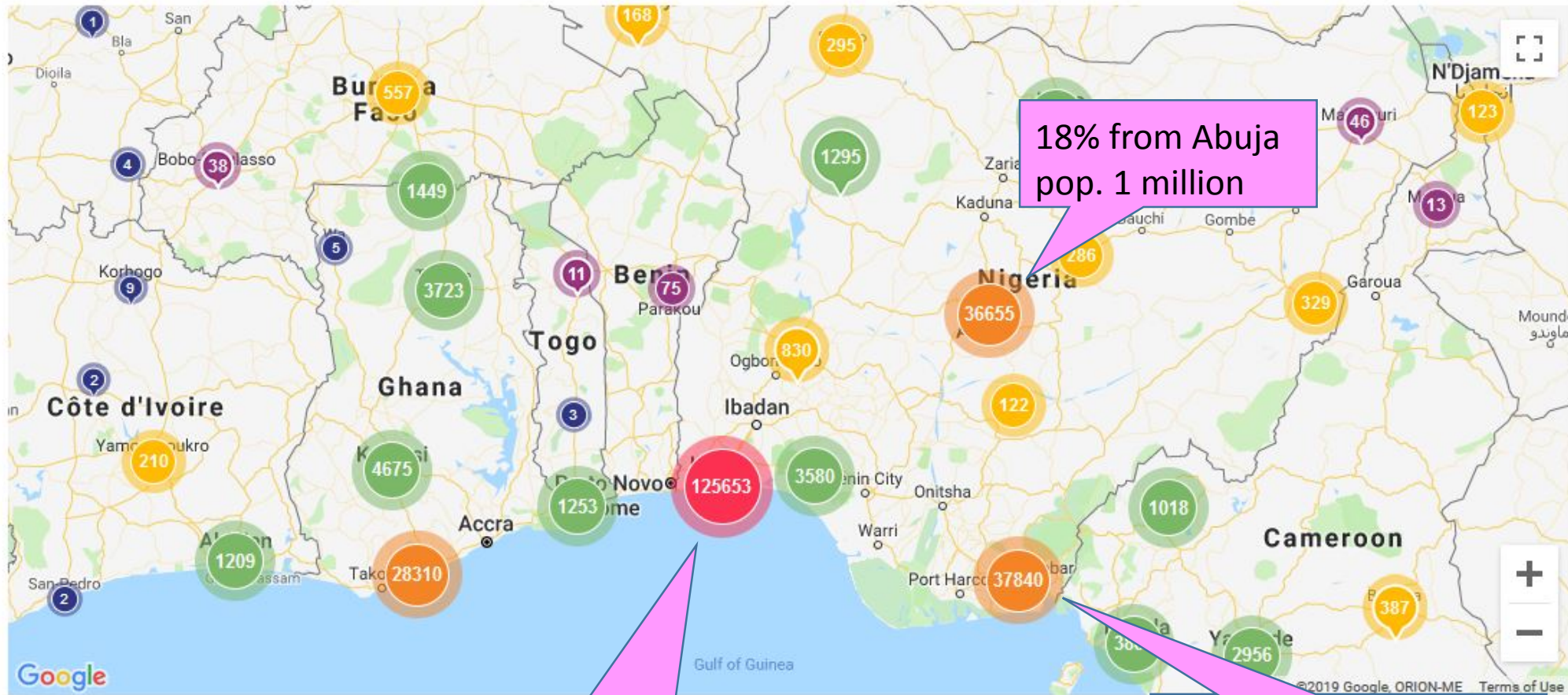
Nigeria – Most downloaded items

	Downloads
Effect of Social Media on Academic Performance of Students in Ghanaian Universities: A Case Study of University of Ghana, Legon.	4056
School Library Media Resources Availability As A Predictor Of Secondary School Students Academic Achievement In Social Studies in Ondo State, Nigeria	3083
Cataloging and Classification Skills of Library and Information Science Practitioners in their Workplaces: A Case Analysis	2952
Influence Of Students' Industrial Work Experience Scheme On Professional Development Of Library And Information Science Students in South-West, Nigeria	2867
An Assessment of the Use of Radio and other Means of Information Dissemination by the Residents of Ado- Ekiti, Ekiti-State, Nigeria.	2637
Reading Habits Among Students and its Effect on Academic Performance: A Study of Students of Koforidua Polytechnic [Ghana]	2205
The impact of Information and Communication Technology (ict) on News Processing, Reporting and Dissemination on Broadcast stations in Lagos, Nigeria.	1969
Library Information Resources And Services Utilization As Correlates Of Creativity Of Senior Administrative Staff Of Polytechnics in South West, Nigeria	1839
Application of ICTs in Nigerian Secondary Schools	1803
Curbing Youth Restiveness in Nigeria: The Role of Information and Libraries	1453
Freedom Of Information Bill, Its Relevance And Challenges In National Development: The Nigerian Experience	1368
The Role Of Auditors In Fraud Detection, Prevention And Reporting In Nigeria	1311
The Challenges of Promoting Reading Culture in Nigerian Children through Story Hour, Book Talks and Exhibition: A Case Study of selected Secondary Schools in Owerri, Imo State, Nigeria.	1289
The Impact of Information and Communication Technology (ICT) in Nigerian University Libraries	1285
Effective Utilisation of University Library Resources by Undergraduate Students: a case study of Federal University Oye-Ekiti, Nigeria	1177
A Review of Problems and Challenges of Library Professionals in Developing Countries including Pakistan	1169
Evaluating the use of Polytechnic Libraries in Nigeria: A Case Study of Federal Polytechnic, Offa, Library, Kwara State, Nigeria	1167
Public Library Information Resources, Facilities, and Services: User Satisfaction with the Edo State Central Library, Benin-City, Nigeria	1059
Population Control In Nigeria: Implications For Librarians	1029
Herdsmen/Farmers Crises In Nigeria: The Role Of Librarians In Resolving Crises	1008
Management And Preservation Of Non-Book Materials In Academic Libraries: A Case Study Of Three University Libraries In Nigeria	1003
The Nigeria Freedom of Information Law: Progress, Implementation Challenges and Prospects	969
Information Needs, Sources and Information Seeking Behaviour of Women Artisans in Offa Metropolis [Nigeria]	948
A Comparative Study of use of the Library and the Internet as Sources of Information by Graduate Students in the University Of Ghana	944
Poor Reading Habits Among Nigerians: The Role of Libraries	942

Showing 1 to 25 of 15,512 entries

Green = Nigerian subject; Blue = Ghana

Readership Distribution



Custom Date Range: 04/01/2018 to 03/31/2019

59% from Lagos
pop. 22 million

19% from Port Harcourt
pop. 2 million

Readership Distribution



Custom Date Range: 04/01/2018 to 03/31/2019

Lagos is the most populous city in Africa and the continent's major financial center.

Nigeria — comments



- It's all about Nigeria! 20 out of top 25 have Nigeria in the title (and 3 have Ghana, next door).
- Heavy users of (and contributors to) *Library Philosophy & Practice* e-journal
- But 15,000 different items were downloaded.
- 4,000 FOLO downloads, but none in top 25.
- Access/connections through university, telephone, & bank networks

India

- Population 1,370 million
- GNI 2,600 billion
- Per capita \$1,898.
- Downloads 392,000
- FOLOs 33,000 (8%)



India — Most-downloaded items

	Downloads
Physics, Chapter 11: Rotational Motion (The Dynamics of a Rigid Body)	9692
The Green Revolution of the 1960's and Its Impact on Small Farmers in India	5103
Physics, Chapter 16: Kinetic Theory of Gases	3215
Physics, Chapter 9: Hydrodynamics (Fluids in Motion)	2635
Reading Habits Among Students and its Effect on Academic Performance: A Study of Students of Koforidua Polytechnic [Ghana]	2387
Development of Public Libraries in India	2160
Sine, Cosine, and Tangent Table: 0 to 360 degrees	1853
Effect of Social Media on Academic Performance of Students in Ghanaian Universities: A Case Study of University of Ghana, Legon.	1841
Physics, Chapter 13: Properties of Matter	1816
Significant Themes in 19th-Century Literature	1802
Cataloging and Classification Skills of Library and Information Science Practitioners in their Workplaces: A Case Analysis	1699
Physics, Chapter 2: Motion of a Particle (Kinematics)	1696
A Comparative Study of use of the Library and the Internet as Sources of Information by Graduate Students in the University Of Ghana	1550
Physics, Chapter 28: Electrical Conduction in Liquids and Solids	1339
An Introduction to the Special Theory of Relativity	1279
Sampling For PM10 and PM2.5 Particulates	1246
Physics, Chapter 38: Mirrors and Lenses	1172
The Role of the Student-Teacher Relationship in the Lives of Fifth Graders: A Mixed Methods Analysis	1136
Marketing Yourself with a High Five! PowerPoint Presentation	1099
Physics, Chapter 8: Hydrostatics (Fluids at Rest)	1069
Physics, Chapter 1: Fundamental Quantities	1069
Using Student Feedback to Improve Teaching	1054
Field Techniques and Research Methods in Geography	1025
Oral and Written Communication in Classroom Mathematics	955
Information Needs of the Rural Farmers : A Study from Maharashtra, India: A Survey	945

Showing 1 to 25 of 29,046 entries

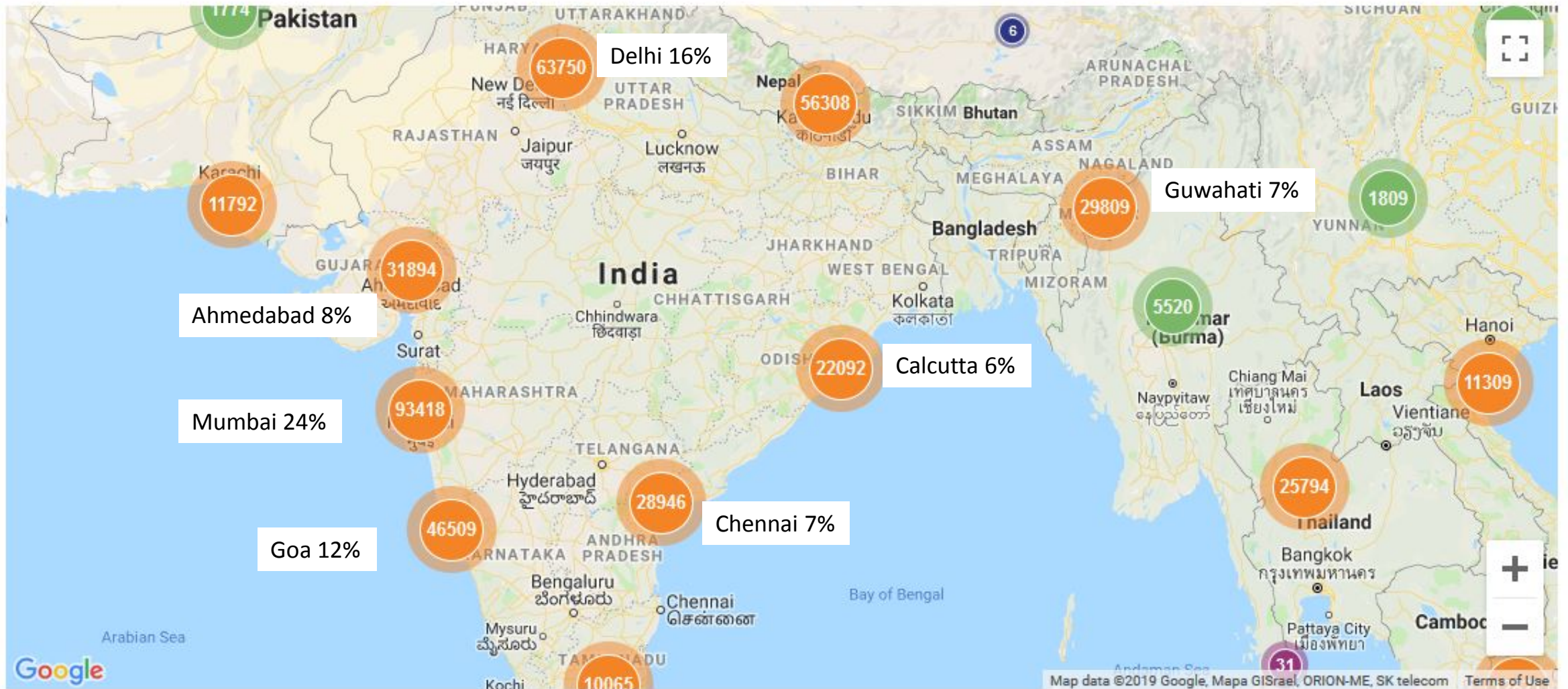
Red = FOLO; Blue = Indian subject

India — comments

- Broad usage: 29,000 different items were downloaded (30% of the IR)
- 11 of top 25 are FOLOs (**red**)
- 3 of 25 most popular are India-centric (**cyan**)
- Heavy use by university & research networks (example of New Delhi)

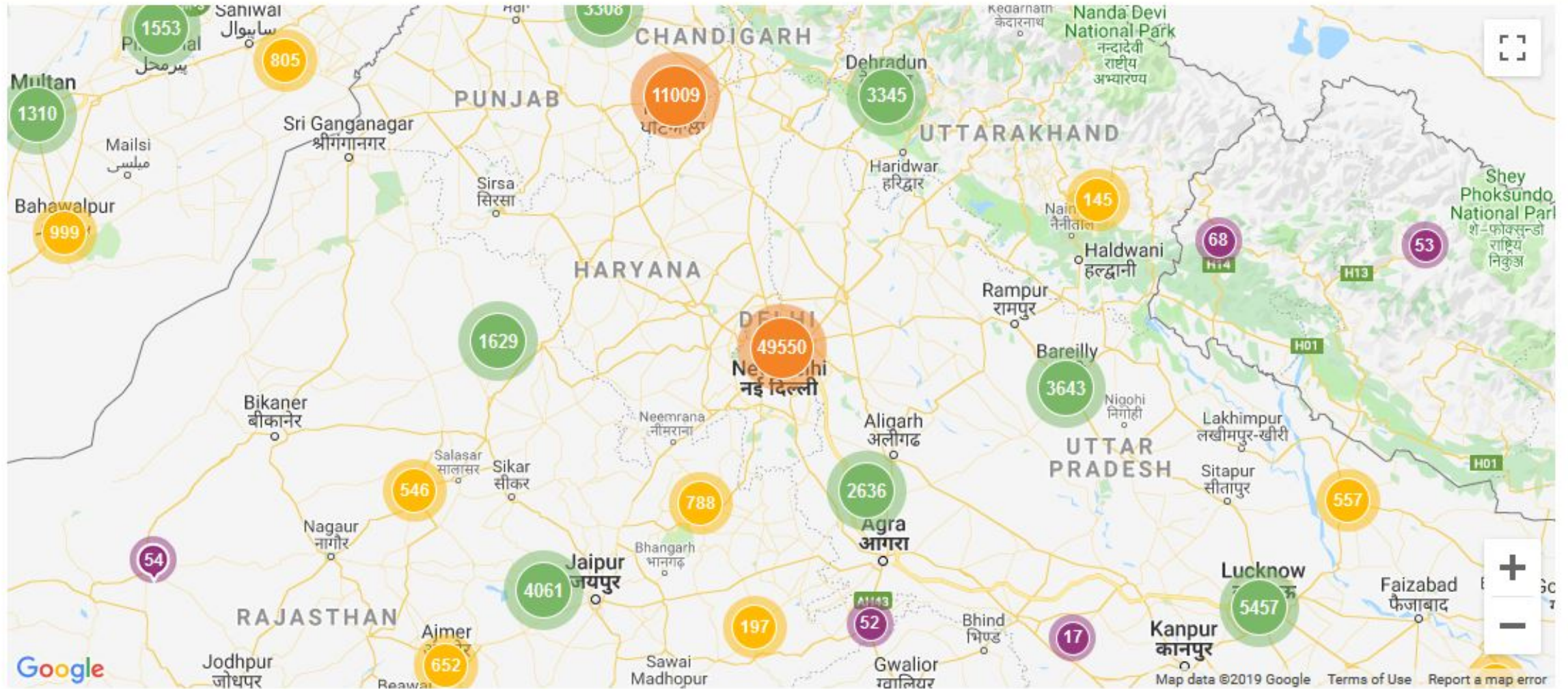


Readership Distribution



Custom Date Range: 04/01/2018 to 03/31/2019

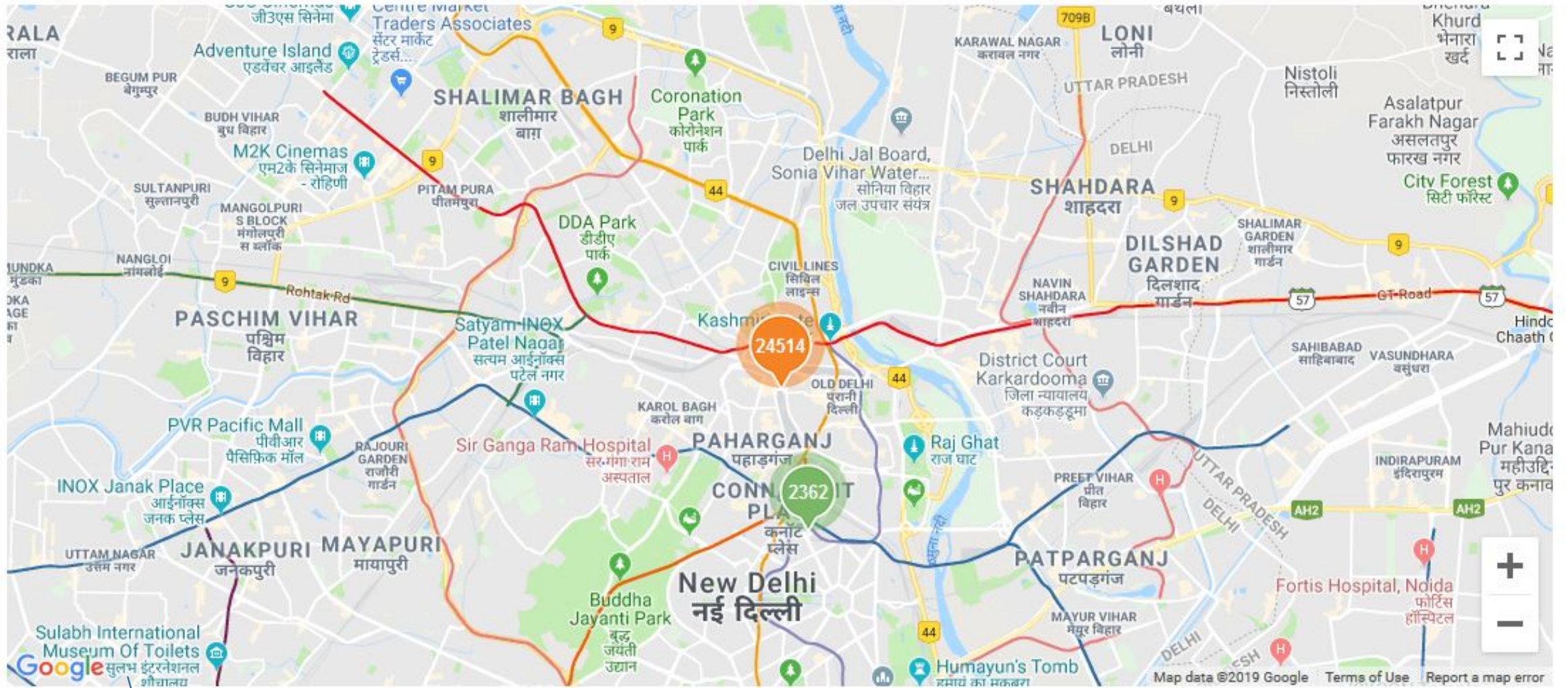
Readership Distribution



Custom Date Range: 04/01/2018 to 03/31/2019

New Delhi is India's capital; its population is 22 million

Readership Distribution



Custom Date Range: 04/01/2018 to 03/31/2019

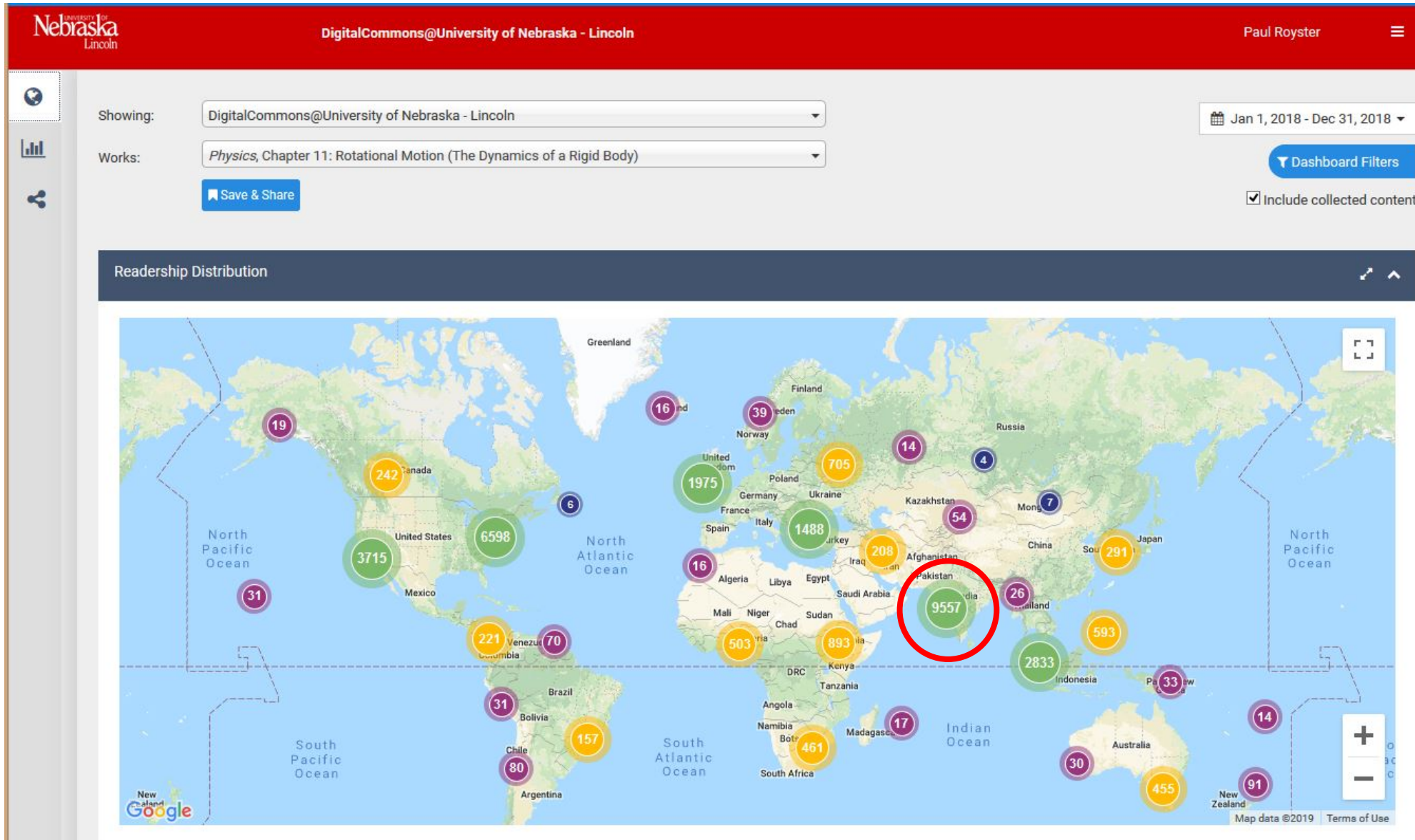
Don't want to miss this attraction.

University networks in New Delhi that downloaded

- 1) Delhi University North Campus
- 2) Alagappa University Karaikudi
- 3) Jawaharlal Nehru University
- 4) Indian Agricultural and Research Institute (IARI) New Delhi
- 5) Mizoram University
- 6) Jamia Millia Islamia University New Delhi
- 7) NKN Institute
- 8) Assam Agricultural University
- 9) Central Food Technological Research Institute Karnataka
- 10) Kerala Veterinary & Animal Science University
- 11) Inter University Centre UGC-DAE Consortium for Scientific Research
- 12) National Physical Laboratory
- 13) Karnataka State Women University
- 14) Gaurbanga University
- 15) Central University of Kerala
- 16) National Institute of Health and Family Welfare New Delhi
- 17) National Agri-Food Biotechnology Institute Punjab
- 18) Institute of Himalayan Bioresource Technology
- 19) National Law University Odisha (NLUO) Cuttack
- 20) ICAR Research Complex Umiam Meghalaya
- 21) ICAR-Indian Institute of Soybean Research MP
- 22) Delhi Technical University
- 23) Gandhigram Rural Institute University
- 24) Rajendra Agriculture University
- 25) National Institute of Animal Nutrition and Physiology Karnataka

These all show normal distribution of downloads, consistent with college research projects.

R. Katz's *Physics*, ch. 11: "King of the FOLOs"



Ch. 11,
Rotational
Motion

31,491
downloads

Katz, Ch 11 (2018)

27,749

Country	Downloads	Country	Downloads	Country	Downloads	Country	Download
United States	9,353	Lebanon	134	Denmark	49	Morocco	19
India	8,079	Iran, Islamic Repul	129	Costa Rica	47	Puerto Rico	19
Malaysia	1,248	Hong Kong	128	Portugal	47	Botswana	17
Philippines	1,194	Taiwan	125	Chile	46	Guyana	16
Canada	1,085	Korea, Republic Of	122	Kazakhstan	45	Iceland	16
United Kingdom	853	Ukraine	118	Palestinian Territories	44	Jamaica	16
Pakistan	626	China	110	Norway	44	Honduras	15
Australia	494	Israel	109	Kuwait	42	Cyprus	15
Russian Federation	458	Spain	103	Ecuador	40	Malawi	15
Ethiopia	405	Nepal	99	Switzerland	38	Bulgaria	15
Turkey	383	Ireland	96	Argentina	34	Malta	14
Nigeria	358	Oman	94	Qatar	33	Mauritius	14
Germany	274	Zambia	92	Uganda	31	Algeria	14
Indonesia	271	New Zealand	91	Hungary	30	Cambodia	14
South Africa	256	Japan	87	Romania	28	Rwanda	14
Sri Lanka	212	Iraq	82	Austria	27	Albania	13
United Arab Emirates	211	Viet Nam	80	Peru	24	Fiji	12
Egypt	201	Sweden	80	Azerbaijan	23	Lithuania	12
Singapore	187	Ghana	77	Croatia	23	Latvia	12
Mexico	175	Zimbabwe	70	Libya	23	Namibia	11
Tanzania, United Republ	174	Poland	64	Serbia	23	Tunisia	11
Kenya	168	Belgium	62	Bahrain	23	Uzbekistan	10
Netherlands	162	Greece	62	Bosnia & Herzegovina	22	Venezuela, Bolivari	10
Thailand	162	Jordan	60	Papua New Guinea	22	Syrian Arab Republi	9
Brazil	161	Colombia	57	Somalia	21	Panama	9
Saudi Arabia	157	Bangladesh	53	Czech Republic	20	Macedonia, The For	8
France	147	Finland	53	Myanmar	20	Trinidad And Tobag	8
Italy	140	Cameroon	50	Slovenia	20	Estonia	8

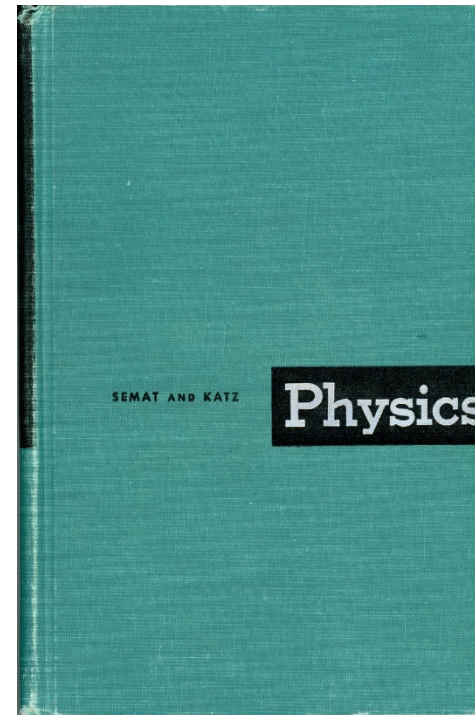
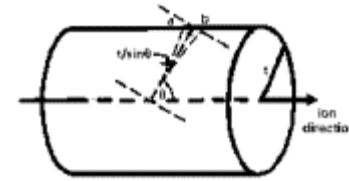
These are the downloads we could place by country.

How is it that a 61-year-old textbook chapter is “King” of the FOLOs?

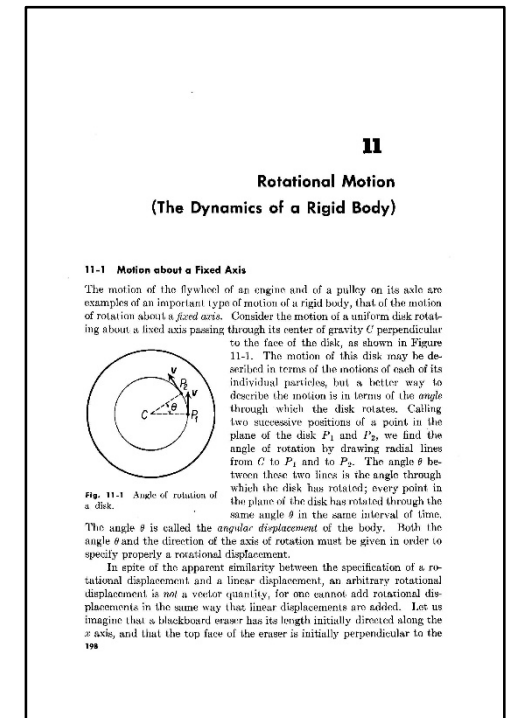
Who is Robert Katz?

- b. 1917 New York City
- B.A. Brooklyn College 1937; M.S. Columbia U. 1937; Ph.D. U. of Illinois, 1949
- Developer of “particle-track physics”: how radiation impacts cells and biological materials
- Published *Physics* textbook in 1958 with Henry Semat
- d. 2011 Lincoln, NE


He remains our
most downloaded author.
(155,000 past year)



938-page textbook



Not just 3rd-world secondary schools

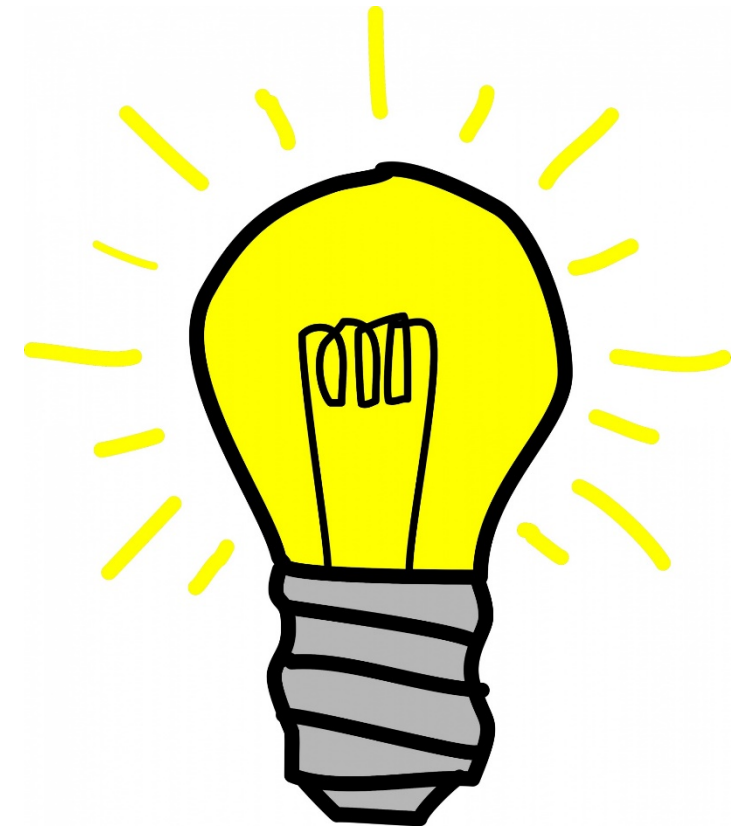
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Physics , Chapter 11: Rotational Motion (The Dynamics of a Rigid Body)			110
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Class Notes for Math 918: Cohen Macaulay Modules, Instructor Roger Wiegand			4
Physics , Chapter 16: Kinetic Theory of Gases			3
Physics , Chapter 25: Capacitance and Dielectrics			3
Physics , Chapter 31: Forces on Moving Charges and Currents			2
Class Notes for Math 901/902: Abstract Algebra, Instructor Tom Marley			1
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Showing 1 to 10 of 16 entries

[Previous](#) [Next](#)

Conclusions

- 1) Usage in less developed countries varies by nation but is overall similar to usage everywhere else.
- 2) FOLOs are used everywhere at rates higher than typical scholarly journal articles, but are not currently a large segment of usage.



Is this actionable intelligence?

- Why are these materials being used?
*Free, convenient, discoverable,
university-branded, Google-delivered*
- And for what?
*Instruction, research, reference,
professional development*
- And what does that mean for the IR?



Impact on IR management?

- Does this change the way you manage the repository?
- The crux is still and always “Content, content, content, and more content.”

Grain elevators, Amy, KS (NOAA photo)

Is the IR a silo,
or an elevator?



Impact on strategy

- Does this change how you recruit content?
- Where do you put your time and effort to do the most good?
- Who are we playing with or against?
- Do you see “a friend in need”?

C. M. Coolidge, *A Friend in Need* (1903)



Foraging strategies

1. Stalking hunters
2. Roaming grazers
3. Stationary filterers



Advice for practitioners & IR builders:

- Don't miss opportunities for classic content: break it out of retirement.
- Don't choke the user or the pipeline: break it into convenient-sized pieces—ideas as well as bytes.
- Don't overshoot the mark—break it down to basics; KISS. There is a mission for things other than rocket science and brain surgery.



Where does this fit in the mission of the IR?

1. Promoting faculty work (makes them happy).
2. Showing faculty their global reach (makes them excited & energized).
3. Branding university research
4. Recruiting students (and faculty)
5. *Promoting open scholarship to and from the global South.*



Is this helping my school?

- We must make the case that it is.
- Share results with administrators.
- IRs are a fabulous success, and we all need to push that story.
- If you don't have the bepress Dashboard, join the RAMP project, support development of results technology. <http://ramp.montana.edu/>



Time for questions



“Please be sure to phrase your response in the form of a question.” - Alex Trebek

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