LEADing Liaisons: from behind the scenes to center stage with new roles in metrics ACRL 2019

Judy Brink, University of Pittsburgh Clare Withers, University of Pittsburgh Colleen DeLory, Elsevier Librarian Community (moderator) Stephanie Faulkner, Elsevier Research Metrics





Beginnings . . .

Can you find the h-index for the following list of people?



ULS / LibGuides / Scholarly Communication / Citation Searching and Bibliometric Measures / Home

Search this

Liaison

Citation Searching and Bibliometric Measures: Home

A discussion on topics such as the h-index, Eigenfactor, Impact Factor, Journal Citation Reports, and other tools.

Home Citation Searching

ning Citation Measures and Tools 🕶

ools - Journal Measures and Tools

Retrieving Citation Counts

Law of Scattering

80% of the citations come from about 20% of the journals cited, identifying a core list for a local journal collection.

- Chung, H. (2007)

Evaluating academic journals using impact factor and local citation score. The Journal of Academic Librarianship, 33(3), 393-402. doi: 10.1016/j.acalib.2007.01.016

What is Bibliometrics?

- The branch of library science concerned with the application of mathematical and statistical analysis to bibliography; the statistical analysis of books, articles, or other publications. ("bibliometrics, n.". OED Online. December 2011. Oxford University Press.)
- · In other words...data about publications, or citation frequency.
- Scientometrics is the branch of information science concerned with the application of bibliometrics to the study of the spread of scientific ideas; the bibliometric analysis of science. ("scientometrics, n.". OED Online. December 2011. Oxford University Press.)

Sample Bibliometric Map

Eigenfactor Social Science Citation Relationships 2004

(click on image to enlarge)



Why is this important?

A student asks you "What are the best journals in the field of Anthropology?"

A professor asks you "Who is citing my articles? How many times have I been cited?"

A student asks you "How do I know this article is important?"

A professor asks you "Which journal should I publish in?"

Bibliometrics effects:

People

-



Contact: 207G Hillm Pittsburgh,







Liaison librarians and research metrics - POLL

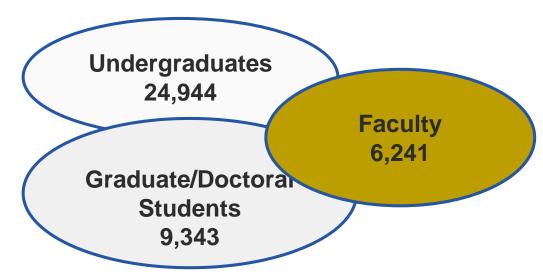
Go to Menti.com and enter code 85 04 4

- What are the top 1 to 3 most helpful research metrics you introduce that are new to researchers?
- What are the top 1 to 3 reasons that researchers consult you about research metrics?
- What impact does providing research metrics consultations have on your perceived value by constituencies at your institution?



Pitt Quick View 2019

(Numbers for both Full-Time and Part-Time Affiliates)



Ranks ninth nationally in federal science and engineering funding, according to a report from the National Science Foundation.

Ranks fifth among U.S. universities in terms of the competitive grants awarded to members of its faculty by the National Institutes of Health





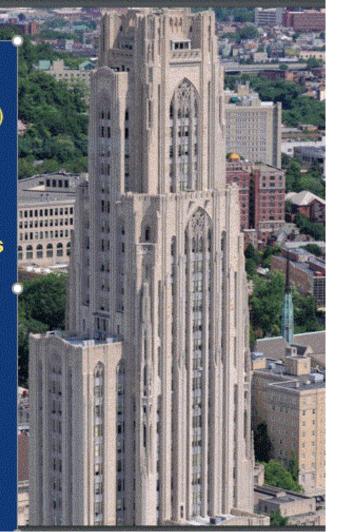
WHY NOW?

PLAN FOR PITT (University of Pittsburgh's Strategic Plan)

Goal 2: Engage in Research of Impact
We aspire to be a university that advances the frontiers
of knowledge and makes a positive impact on the world
through collaborative and multidisciplinary approaches
to research that focus on areas of great societal need

Goal 5: Embrace the World

We aspire to be a university community that is committed to convening bright minds to explore and address global issues that improve life in the world's local communities. By engaging in research, policy, partnerships, and the study of language and culture, we open the door to global citizenship.



WHAT WE TALK ABOUT WHEN WE TALK

ABOUT METRICS

Could you help me run a citation analysis (h-index) for several of my junior faculty? This would be of great help to me as I prepare to discuss their performance.

Wait—can my social media presence be shown using metrics?

I would be
extremely grateful
if you could find hindex for the
following
academics that
are in similar area
as XXX (I only
have CV for

XXXXX and it's

attached):

I mentioned my interest in doing a citation study for XXX Department. I think I have figured out something interesting to do.

Can metrics demonstrate the impact of my collaborations with researchers outside my discipline? What are some options to visually depict my global collaborations

Can you meet with some early career researchers in my department to show them how metrics can convey the impact of their work?

I'm preparing documents for EB-1b petition. I need to illustrate the impact factor and ranking of the journals with all my publications in the field (XXXX, for me). Is there a tool to do this?





Where is the value of a librarian in 2019?







Aligning to meet researcher needs

OLD WORK

- Collection building
- One shot instruction sessions
- Reference Desk Questions
- Librarian in the library
- ONLY knowing subject specific databases well
- Subject librarian

NEW WORK

- Just in Time Resources
- "Embedded" librarian
- Discipline specific questions in multiple environments
- Librarian with a laptop
- Knowing Google Scholar well
- Functional Specialist



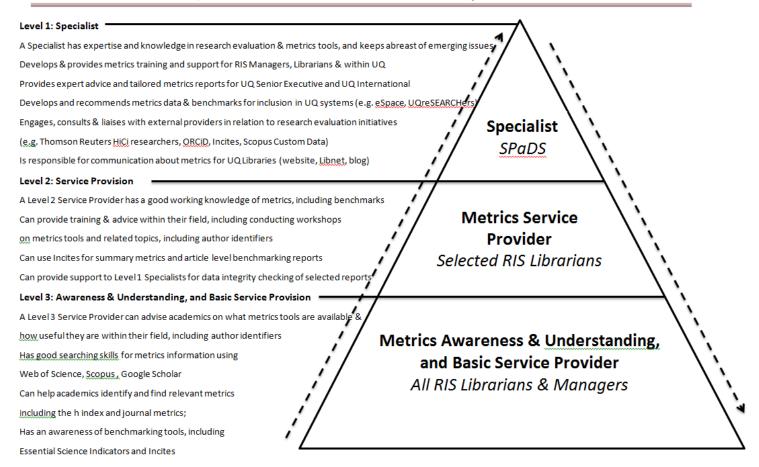


LIAISON REALIGNMENT Timeline

- 2012 Liaison Librarian Model
- 2014 ULS Seminar on Research Library Service Models for Support of Research Evaluation and Assessment
- 2014 Bibliometrics Specialist Track
- 2015 SciVal subscription
- 2015 1st ORCiD outreach--Engineering
- 2017 2nd ORCiD outreach--Psychology
- 2017 University Senate Plenary & pre-plenary on Bibliometrics
- 2018 Symplectic Elements







Thomas, Amberyn. Providing a Library Metrics Service: a perspective from an academic library with in an Australian University. Hillman Library, University of Pittsburgh. May 22, 2014. Webinar.

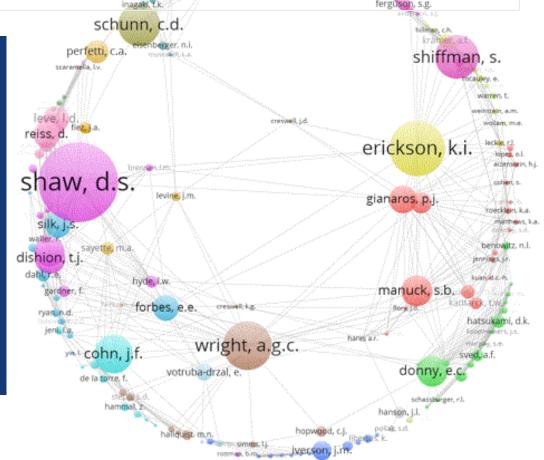
BUILDING A FOUNDATION FOR SUCCESS

TELLING THE STORY OF RESEARCH IMPACT...

- on the department website
- in a researcher profile
- in an annual review
- through benchmarking
- through automatically updated publications screen crawls & CVs
- in social media mentions

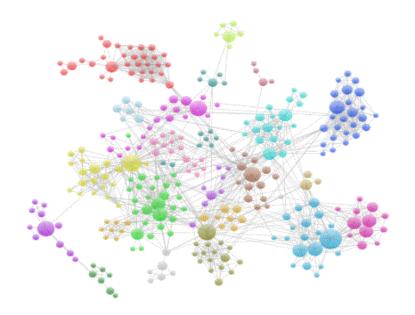






Collaborative

Department members have rich collaborative networks. We work with each other, with faculty and students in other departments, and with leading scientists throughout the world. This keeps our research on the cutting-edge of new knowledge.

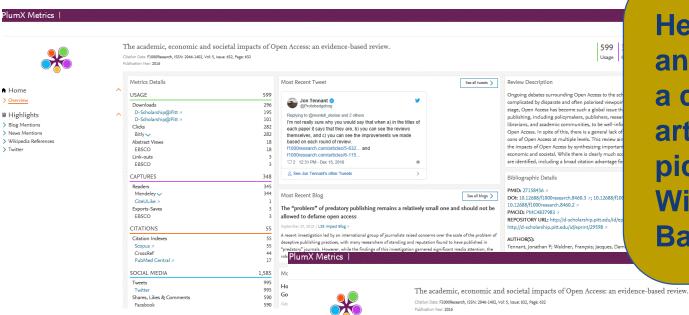


ARTICULATING EVIDENCE OF COLLABORATION AND/OR STANDING WITHIN **A DISCIPLINE** AND/OR A RESEARCH **COMMUNITY**





Altmetrics



♠ Home

> Overview

Highlights

> Blog Mentions

This review has 4 News mentions across 3 URLs.

Public Good a

February 26, 2018 | The Wire a

How Scihub Is at the Forefront of the Quest to Frame Scientific Knowledge as

The SciHub database contains 85% of all papers published in paywalled journals, including 97% of

all papers in Elsevier's database. There has been no precedent for this kind of access in the history of

Here's an example—it's a co-authored article that was picked up by The Wire, The World Bank, and Nature

Open in Order to End Extreme Poverty: Open Access and Development:

The goal of the Bank's Open Agenda is to support development. In fact, several research findings

Research Findings >

October 18, 2017 | World Bank n by Elisa Liberatori Prati

show that Open Access leads to tremendous positive societal







Hundreds of German universities set to lose acco

December 31, 1969 | Nature a

Section 31, 1909 | Nature A

Hundreds of German universities set to lose access to Elsevihttp://www.nature.com/doifinder/10.1038/d41586-017-0781

Negotiations to reduce journal prices and promote open acc

Toolkit for Bibliometrics Work



Learning, Learning

DIY—all free!:

- The Scholarly Kitchen
- Elsevier's Library Connect
- The Bibliomagician.wordpre
- The Idealis.org
- ORCiD.org
- Altmetric.com

Classes:

Bibliometrics and Scientometrics for Research Evaluation

www.cwts.nl/education/bibliometrics--and-scientometrics-for-researchevaluation/bibliometric-coursechicago-us





Presentation Resources

- Hicks, Diana, et al. "Bibliometrics: The Leiden Manifesto for Research Metrics." *News* 520.7548 (2015): 429.
- Fransen, Jan, et al. Showcase Your Institution's Research (and Library Capabilities!). Library Connect, 26 Mar. 2018. www.libraryconnect.elsevier.com/articles/webinar-now-available-showcase-your-institutions-research-and-library-capabilities. Accessed 10 Mar. 2019
- Roemer, Robin Chin, and Rachel Borchardt. *Meaningful Metrics: A 21st-Century Librarian's Guide to Bibliometrics, Altmetrics, and Research Impact.* Chicago: Association of College and Research Libraries, a division of the American Library Association, 2015.
- Sapp Nelson, Megan R.. "'Using Altmetrics as an Engineering Faculty Outreach Tool." ASEE's 123rd Annual Conference. New Orleans, LA: N.p., 2016.
- Thomas, Amberyn, et al. "Bibliometrics Seminar." 2014: n. pag.
- Williams, Catherine, and Danielle. Padula. *The Evolution of Impact Indicators: From Bibliometrics to Altmetrics.* N.p., 2015.
- Wilson, James, et al. "The Metric Tide: Report of the Independent Review of the Role of Metrics in Research Assessment and Management." (2015): n. pag.





Metrics Forecast and Tips

ACRL 2019 Conference

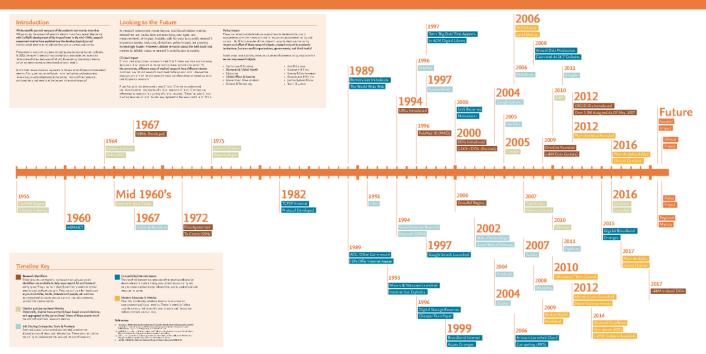
Stephanie Faulkner | Director of Product Management and Operations



Research Assessment Metrics: Past, Present and Future



Authors: Andrea Michalek, Tom Crosby, Talia Arthur, Marianne Parkhill, Christopher James, Rachel McCullough, Taylor Stang | Elsevier



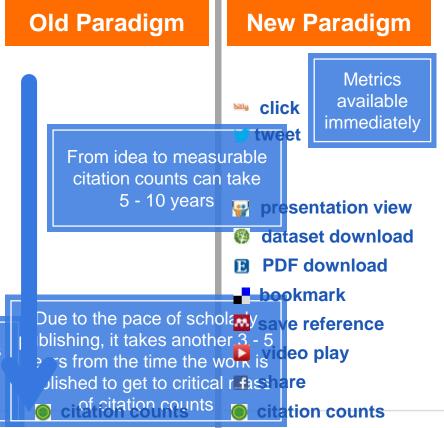
Plum Analytic

Metrics timeline:

From Idea to Impact



It can take at least 2 - 5 years from idea to a published peer-reviewed journal article





Societal Impact – Why does it matter?

- Funders and governments increasingly require real world or societal proof consider the 2014 Research Excellence Framework exercise conducted in the UK.
- 6,975 impact case studies were submitted categorized by a variety of impact types including:
 - Political
 - Health
 - Technological
 - Economic
 - Legal
 - Cultural
 - Societal
 - Environmental
- Almost 25% of all the cases submitted were labeled Societal Impact

http://impact.ref.ac.uk/CaseStudies/

https://www.ugc.edu.hk/doc/eng/ugc/rae/2020/framework.pdf



Societal Impact - Challenges

- Measuring societal impact is not always easy as it can take a long time for this type of impact to be reflected and measurable.
- Sources vary and the accessibility to them also varies.
- There is no standard measure across research areas.



Our approach

- We represent societal/economic impact in our Citations area in three ways:
 - Clinical Citations
 - Policy Citations
 - Patent Citations

 Displayed separate from traditional citation indexes, but included in our overall citation count



Policy and Clinical Citations

- Demonstrates:
 - Public engagement with research
 - Impact on government policy and cultural life
 - Societal impact in general
- Can drive policy makers and legislators to a particular course of action.
- They can also be actual statements of policy by public policy making institutions.



Policy Citations

Policy from different types of organizations:

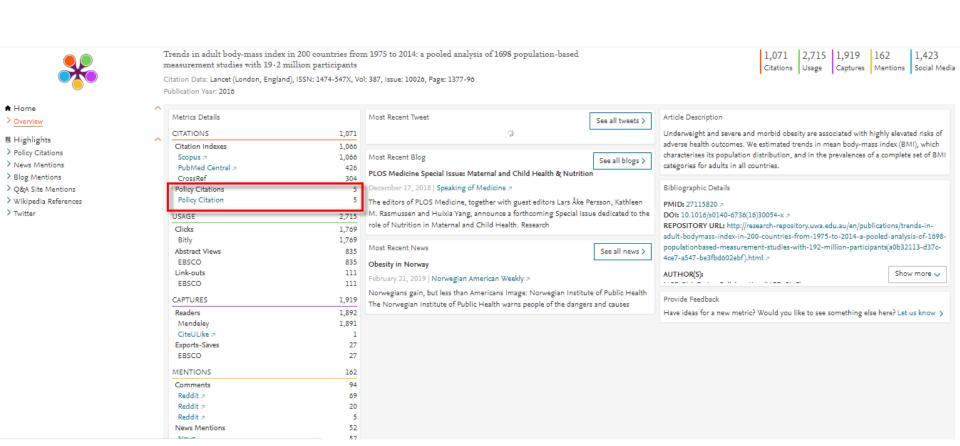
- Non-profits
- Governmental agencies
- NGOs
- Think tanks

Policy documents can be:

- Guidelines
- White Papers
- Monographs
- Pamphlets
- Articles
- Books
- and more



Policy Citations in PlumX Metrics



Policy Citations in PlumX Metrics



This article has 5 Policy Document Citations.

IFPRI 2017 Global Food Policy Report

Jan. 1, 2017 | Food and Agriculture Organization by International Food Policy Research Institute (IFPRI)

The International Food Policy Research Institute (IFPRI), established in 1975, provides research-based policy solutions to sustainably re...

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Double-duty actions for nutrition: policy brief

Jan. 1, 2017 | World Health Organization by World Health Organization

Addressing contrasting and confounding forms of malnutrition need not be a zero-sum game.

Double-duty actions have the potential to impr...

Read More 🔼

See Full Text 🗷

An Investment Framework for Nutrition: Reaching the Global Targets for Stunting, Anemia, Breastfeeding and Wasting

Sept. 29, 2016 | The World Bank by Shekar, Meera; Kakietek, Jakub Jan; Dayton, Julia M.; Walters, Dylan David: World Bank Group.

In 2015, 159 million children under the age of five were chronically malnourished or stunted, underscoring a massive global health and ec...

Read More 🔼

See Full Text 🛭

The double burden of malnutrition: policy brief

Jan. 1, 2016 | World Health Organization by World Health Organization

This policy brief explains the double burden of malnutrition now facing many countries worldwide — characterized by the coexistence of un...

Read More 🛭

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Informe mundial sobre la diabetes

Jan. 1, 2016 | World Health
Organization by Organización
Mundial de la Salud; World Health
Organization

La diabetes es una grave enfermedad crónica que se desencadena cuando el páncreas no produce suficiente insulina (una hormona que regula ...

Read More 🔼

See Full Text 2



Clinical Research & Citations



...clinical medicine draws heavily on basic science, but not vice versa. The result is that basic medicine is cited three to five times more than clinical medicine, and this is reflected in journal impact factors."

BMJ. 1997 Feb 15; 314(7079): 498-502.

PMCID: PMC2126010

Why the impact factor of journals should not be used for evaluating research.

P. O. Seglen



Clinical Citations Come From...

Clinical Alerting Services

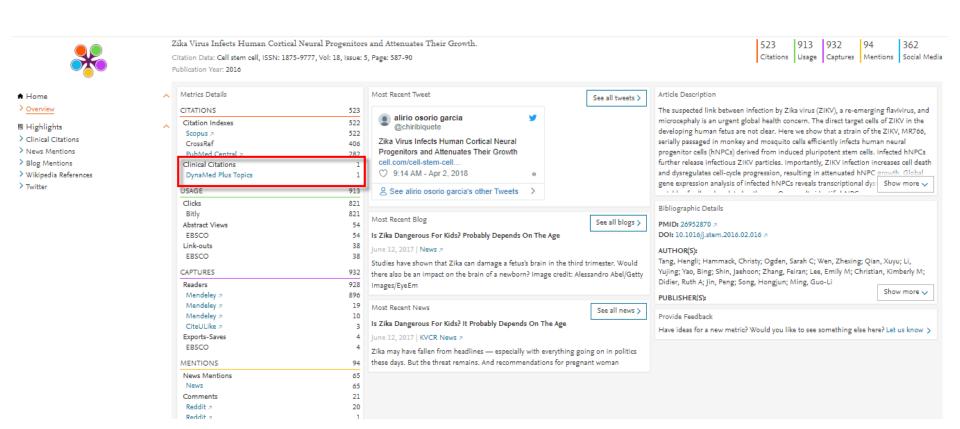
Clinical Guidelines

Systematic Reviews

Clinical Trials



Societal Impact – Clinical Citations



DynaMed Plus Topics





Patent Citations

- A patent citation is any document cited by a patent applicant, a third-party, or a patent office examiner because it's relevant to a patent application.
- Gain an understanding of how much research is being used in the creation of products by seeing the total number of outputs that received patents.
- Provide information about the economic impact of research.

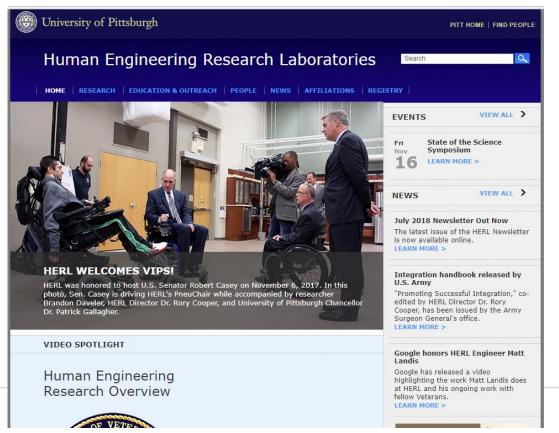


Patent Citations

- Citation of scholarly output in patents indicates a connection between academia and industry.
- Patents citation contains valuable data and if analyzed well, may sometimes reveal concealed mysteries of the information flow between countries, laboratories, companies, and universities.

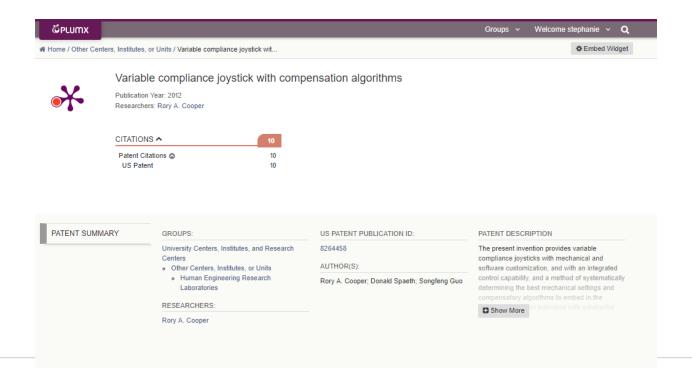


Societal Impact – HERL at University of Pittsburgh





Societal Impact – Patent Citations





Societal Impact – Patent Citations

USPTO PATENT FULL-TEXT AND IMAGE DATABASE Advanced Pat Num Bottom View Cart Searching US Patent Collection... Results of Search in US Patent Collection db for: REF/8264458: 10 patents. Hits 1 through 10 out of 10 Jump To Refine Search ref/8264458 PAT. NO. Title 1 10,073,488 Multifunction joystick apparatus and a method for using same 2 10.015.460 Control and display system with synchronous direct view video array and incident key lighting 3 9.943.757 Adjustable tension thumbstick 4 9,931,567 Adjustable tension thumbstick 5 9,809,955 Control device for an implement system 6 9,739,090 Control system and method for controlling the movement of an aerial apparatus 7 9.236,822 Electromotive furniture drive including a power supply device 8 9.090,360 T Cryogenically cooled radiation shield device and associated method 9 8.809,824 T Cryogenically cooled radiation shield device and associated method 10 8,511,621 Device for piloting a craft having an electromagnetic actuator



Looking Forward: Research Metrics at Elsevier

Supporting and developing metrics for the full lifecycle of research

We strive for **broader use** of **open metrics** that can be **used by everyone** responsibly.



Elsevier and Research Metrics

Our Metrics Manifesto

- Need to use different metrics and common sense
 - Decisions should be based on both quantitative and qualitative input
 - Should always use at least two metrics (more than one way to 'excellence')
- The methodologies should be open, transparent, valid and replicable
- Definitions should be owned by the community
 - Need trust between the parties using metrics to evaluate.













Questions? Comments?

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Stephanie Faulkner s.faulkner@elsevier.com

Take the full survey on liaison librarians and research metrics:

https://www.surveymonkey.com/r/GM255BC









Thank you

