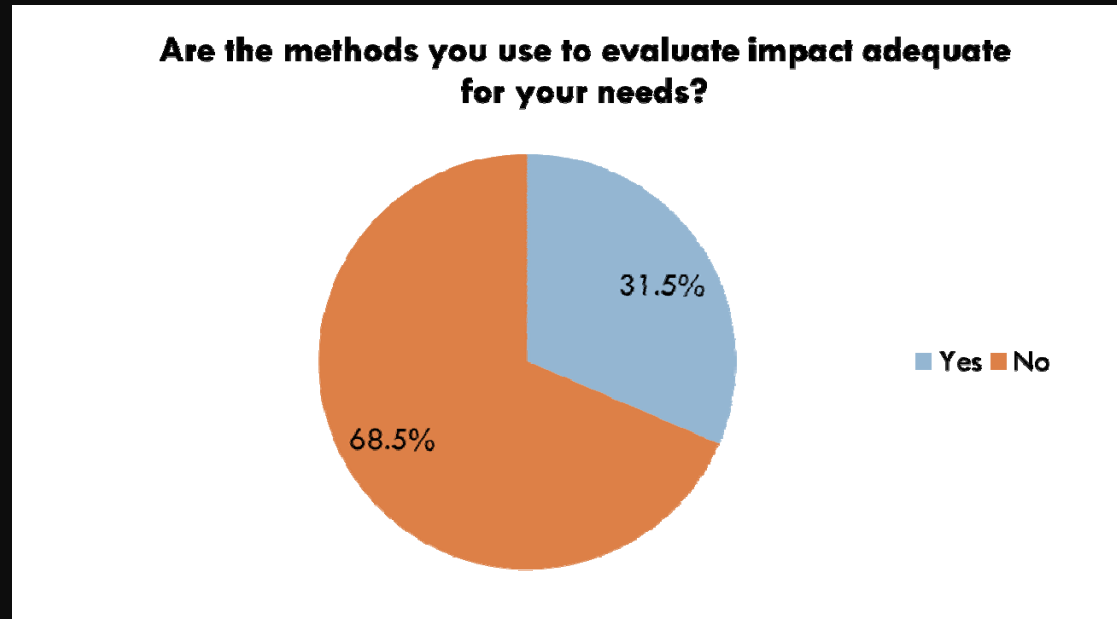




**Let's All Agree on What We're
Counting and How:**
*Progress on standards for new
metrics in scholarship*

Todd A. Carpenter
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@TAC_NISO
February 29, 2016

RDA Bibliometrics WG Survey of on data bibliometrics




What is currently missing and/or needs to be created for bibliometrics for data to become widely used? (n-92)




- 1) Standards
- 2) Data Citation
- 3) Consistent use of PIDs/DOIs
- 4) Culture change/"A belief that they are valid"



How do we measure the
impact of these different
forms of output?

Definition Identification


metric 

noun | metric | \ˈme-trɪk\   

Definition of METRIC

1 *plural* : a part of prosody that deals with *metrical* structure

2 : a standard of measurement <no *metric* exists that can be applied directly to happiness — *Scientific Monthly*>

 True or False? [Play our trivia game for a fun break.](#) >

3 : a mathematical function that associates a real nonnegative number analogous to distance with each pair of elements in a set such that the number is zero only if the two elements are identical, the number is the same regardless of the order in which the two elements are taken, and the number associated with one pair of elements plus that associated with one member of the pair and a third element is equal to or greater than the number associated with the other member of the pair and the third element

Examples of METRIC

<according to the usual *metrics* by which we judge fiction, this novel is an utter failure>


Origin of METRIC


Greek *metrikē*, from feminine of *metrikos* in meter, by measure, from *metron* measure — more at *measure*


First Known Use: 1760


Related to METRIC

ORCID

 **isni**

 **ref**

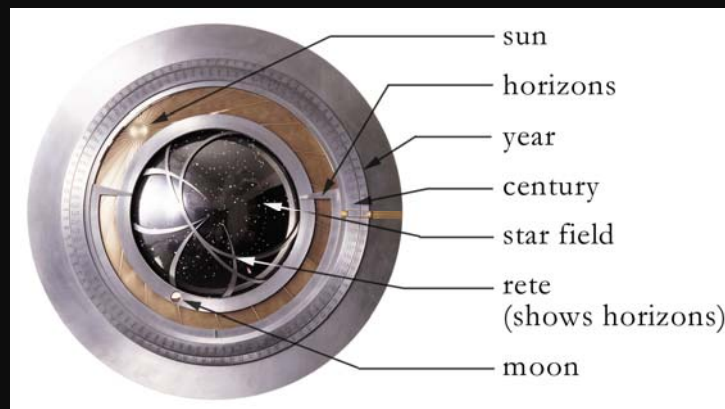
 **fund**

 **doi**®

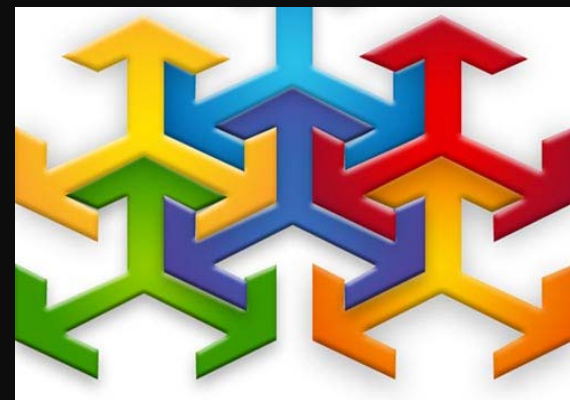
Granularity



Time Scale

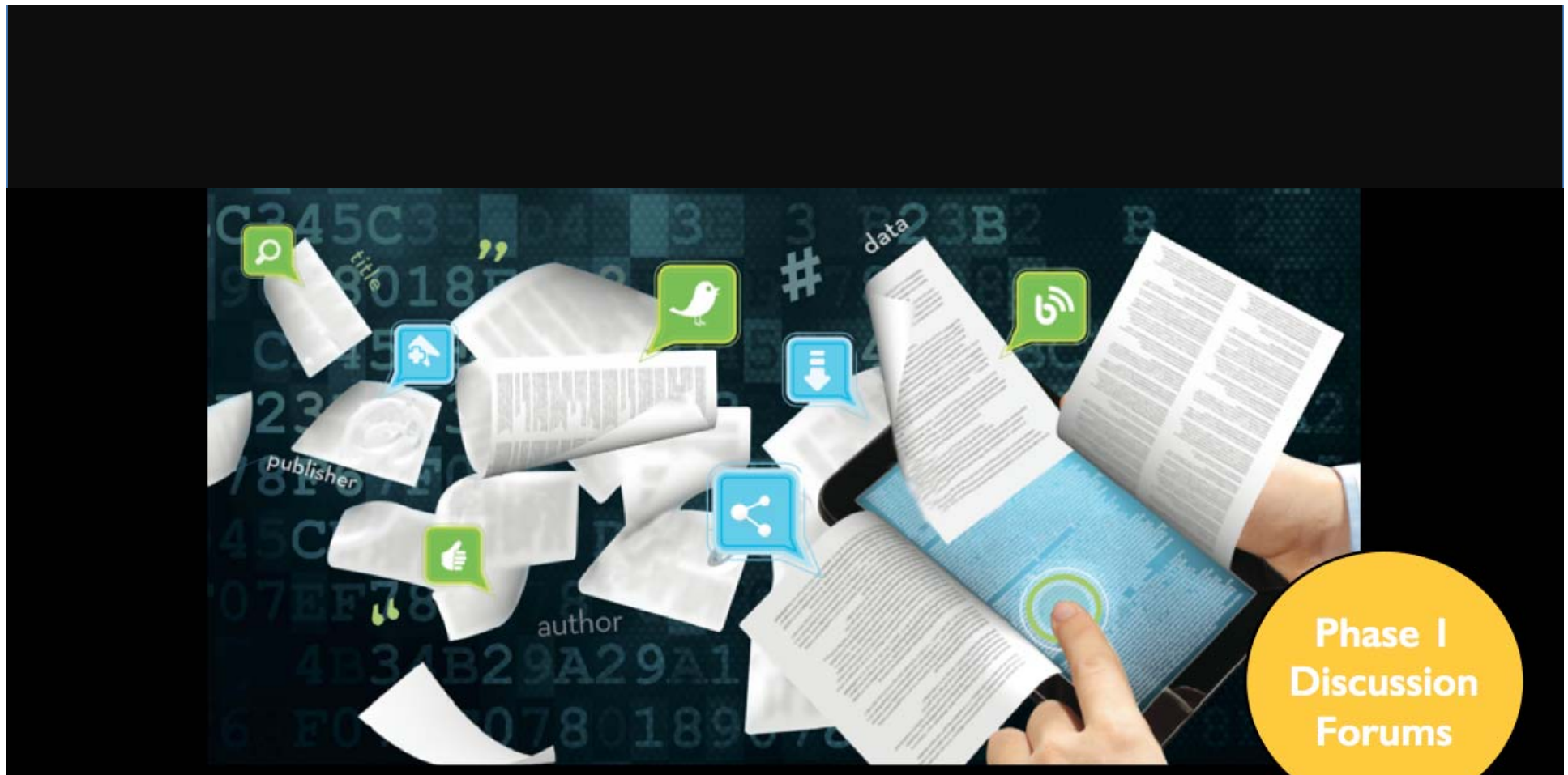


Exchange



I often sound like a broken record

- Defining what is to be counted = standards
- How to describe what to count = standards
- Identification of what to count = standards
- Procedures for counting or not = standards
- Aggregating counts from network = standards
- Exchange of what was counted = standards



NISO Alternative Assessment Metrics Initiative



ALFRED P. SLOAN
FOUNDATION



February 29, 2016

Three working groups focused on new forms of assessment

A) Development of definitions and descriptions of use

B) Definitions for appropriate metrics and calculation methodologies for non-traditional output types. Also work toward promotion and facilitation of use of persistent identifiers

C) Development of strategies to improve data quality through source data providers

Group A: Development of definitions and descriptions of use

Conducted research to collect, collated and expand on existing definitions, concepts and use cases

Identified some elements where there is consensus, and identified others where there may be controversies.
Working toward agreement

Second subgroup organizing and transforming research on a consolidated list of use cases into a set of formalized set

Group B: Non-traditional output types and Persistent identifiers

Reviewing existing work of related projects such as:
COUNTER, bioCADDIE, RDA data publishing services,
FORCE11 code citation working group

Brainstorming on what various non-traditional research
outputs exist to determine what should be in scope for the
work

Arranged partnership with a similar CASRAI group

General discussion on identifiers and applications

Group C: Strategies to improve data quality

Drafting a "Code of Conduct"

Recommendations focused on how data providers, aggregators and users should behave in order to introduce transparency and ensure that delivered data is trustworthy, replicable, consistently reported within and across sources, and accurately represents what it intends and/or purports to measure.

How to engage

Group C Draft released on Feb 25, 2016,

Group A Draft due by March 4, 2016

Group B draft due by March 17, 2016

Seeking public comment and reaction to these drafts.

Final Recommendations due in June 2016.

For more

Project Site:

www.niso.org/topics/tl/altmetrics_initiative/

White Paper:

http://www.niso.org/apps/group_public/download.php/13295/niso_altmetrics_white_paper_draft_v4.pdf

Questions?

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