

# LOINC Update

*Highlights since we last met*



 @djvreeman

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*Indiana University School of Medicine*

Director, LOINC and Health Data Standards  
*Regenstrief Center for Biomedical Informatics*



**INDIANA UNIVERSITY**

SCHOOL OF MEDICINE

Department of Medicine



**Regenstrief Institute**

Better Care. Better Health.



Welcome to the  
LOINC Community

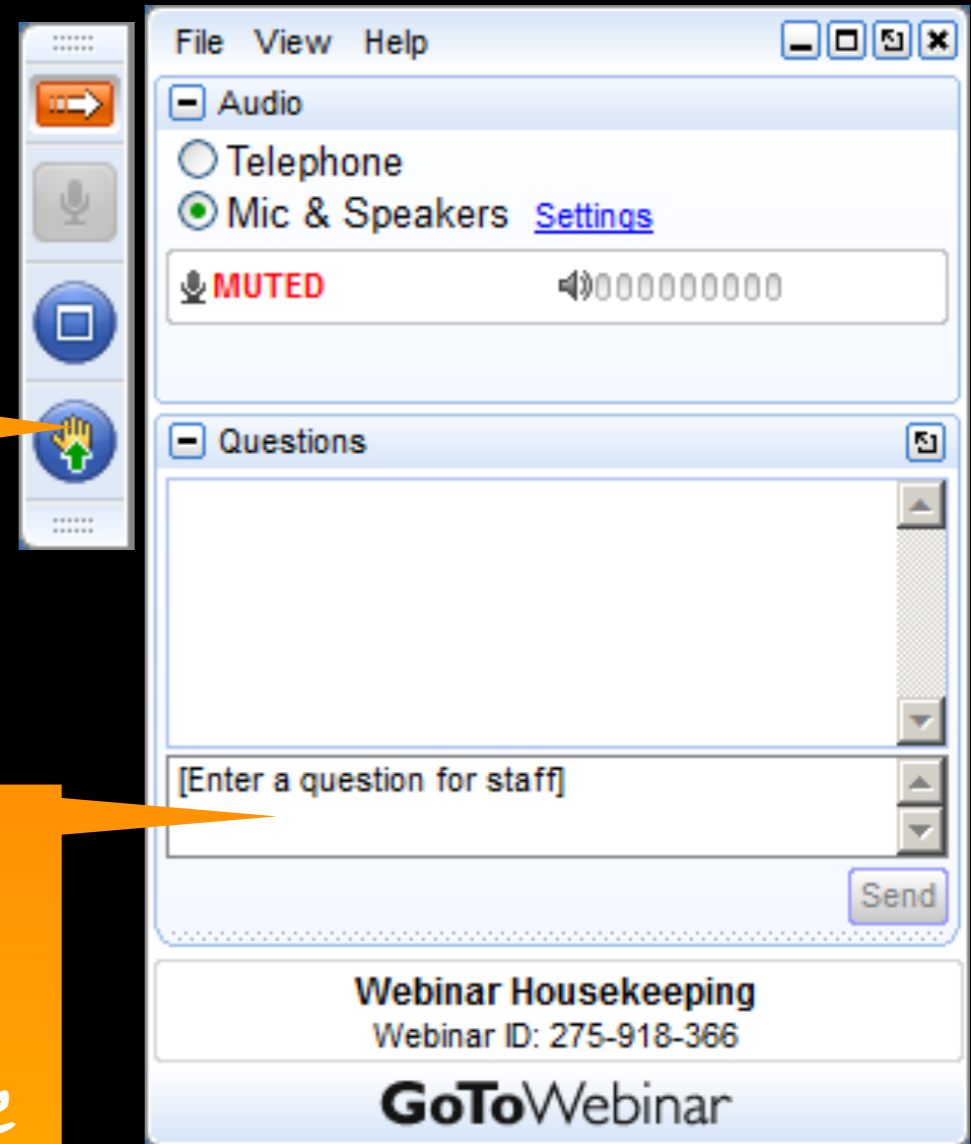
# Committee Interaction

Have something to add?  
“Raise your hand” by  
selecting the hand icon.  
A member of the  
LOINC team will open  
your microphone.

*Raise hand*

Have a question the  
LOINC team can answer?  
Use the Q&A section  
of the webinar.

*Ask your  
question here*



# [meeting.loinc.org](http://meeting.loinc.org)

GET INFO for this week's workshop and public committee meeting! Log In Sign Up

**LOINC**  
From Regenstrief

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Indianapolis, Indiana / Regenstrief Institute

[MEETINGS](#)

## Public Laboratory LOINC Workshop & Committee Meeting – Summer 2017

[Agenda](#) [Prerequisites](#) [In-Person Attendees](#) [Webinar Attendees](#) [Meeting Handouts](#)

**Join us for the Public Laboratory LOINC Workshop & Committee Meeting!**

  
**June 7-8, 2017**  
2017-06-07 / 2017-06-08

Regenstrief Institute and the LOINC Committee are very excited to offer this special RFI MA workshop and tutorial focused on Laboratory LOINC.

The Introduction to LOINC tutorial and RFI MA workshop will be held on Wednesday. Regular Committee business—all are welcome to attend—will be held on Thursday.

Handouts are at bottom of page

# Topics

1. A brand new loinc.org
2. Growth and usage
3. Brief collaboration updates
4. LOINC release updates
5. Coming attractions

## The universal standard for identifying health measurements, observations, and documents.

Reference labs, healthcare organizations, U.S. federal agencies, insurance companies, software vendors, in vitro diagnostic testing companies, and more than 47,200 registered users from 166 countries use LOINC to move data seamlessly between systems.

*It's free, but invaluable.*

[Get Started](#)


### search.loinc.org

Explore all the LOINC codes directly in your web browser.

[More Info](#)



### Sponsor LOINC

Get special benefits and tools by becoming a LOINC Premium Member.



### Learn LOINC

Find resources and watch videos to get you LOINC-ready fast.



### LOINC Essentials

Learn Dr. Weedman's secrets for trapping local codes to LOINC.



### Public Laboratory LOINC Workshop & Meeting

Our next workshop and committee meeting is June 7-8 in Indianapolis. See the [full workshop schedule](#) for more information.



### LOINC Version 2.59

83,377 Terms • Released 2017-09-21



#### Learn

- [Get Started](#)
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#### Content

- [Domains](#)
- [LOINC Codes in Development](#)
- [Top Result & Order Code Lists](#)
- [Request New LOINC Terms](#)
- [LOINC Related DID](#)

#### Downloads

- [LOINC](#)
- [RFI MA](#)
- [Accessory Files](#)
- [Release And Dev](#)

#### Community

- [Introduction](#)
- [Premium Members](#)
- [User Forum](#)
- [Meetings](#)
- [Adopter Directory](#)
- [SDO Collaboration](#)
- [Technical Services](#)
- [Mailing Lists](#)
- [Twitter @LOINC](#)
- [Atlas of LOINC Users](#)

#### LOINC

- [Frequently Asked Questions](#)
- [Contact LOINC](#)
- [Premium Support](#)
- [Funding Support](#)
- [News](#)
- [LOINC License](#)
- [Privacy Policy](#)
- [Website Terms of Service](#)
- [Accessibility Info](#)
- [Branding Guidelines](#)
- [Site map](#)



A dark gray line graph is positioned in the background. It features a vertical axis on the left and a horizontal axis at the bottom. A thick arrow starts from the bottom-left and points towards the top-right, following a path that rises, dips, and then rises again. The text 'Growth and Usage' is overlaid on this graphic.

# Growth and Usage



More than 50 onsite and 285 remote participants are joining us from around the world.



PUBLIC LABORATORY LOINC WORKSHOP & COMMITTEE MEETING

[meeting.loinc.org](https://meeting.loinc.org)

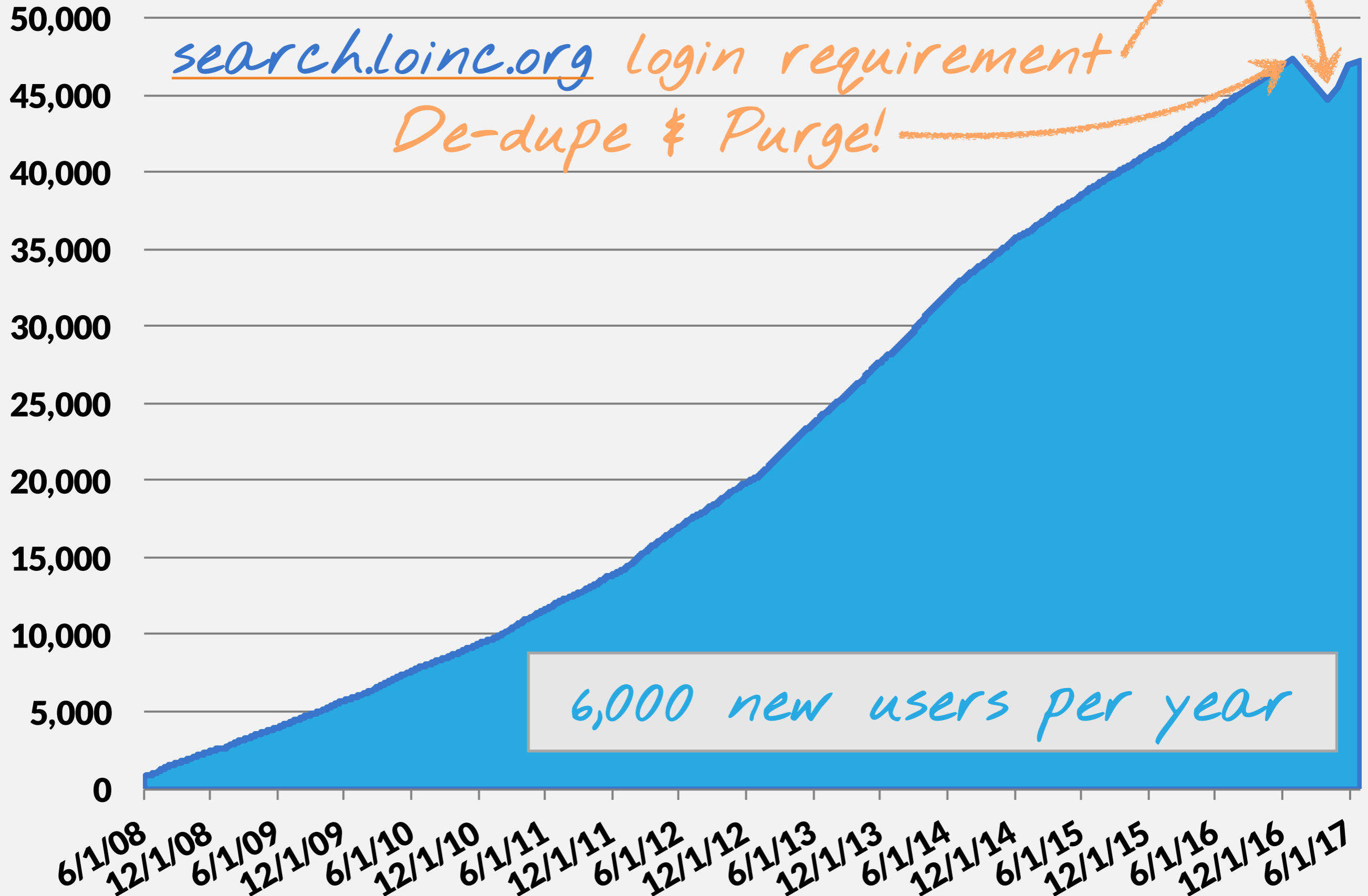


47,000+ registered users from 166 countries

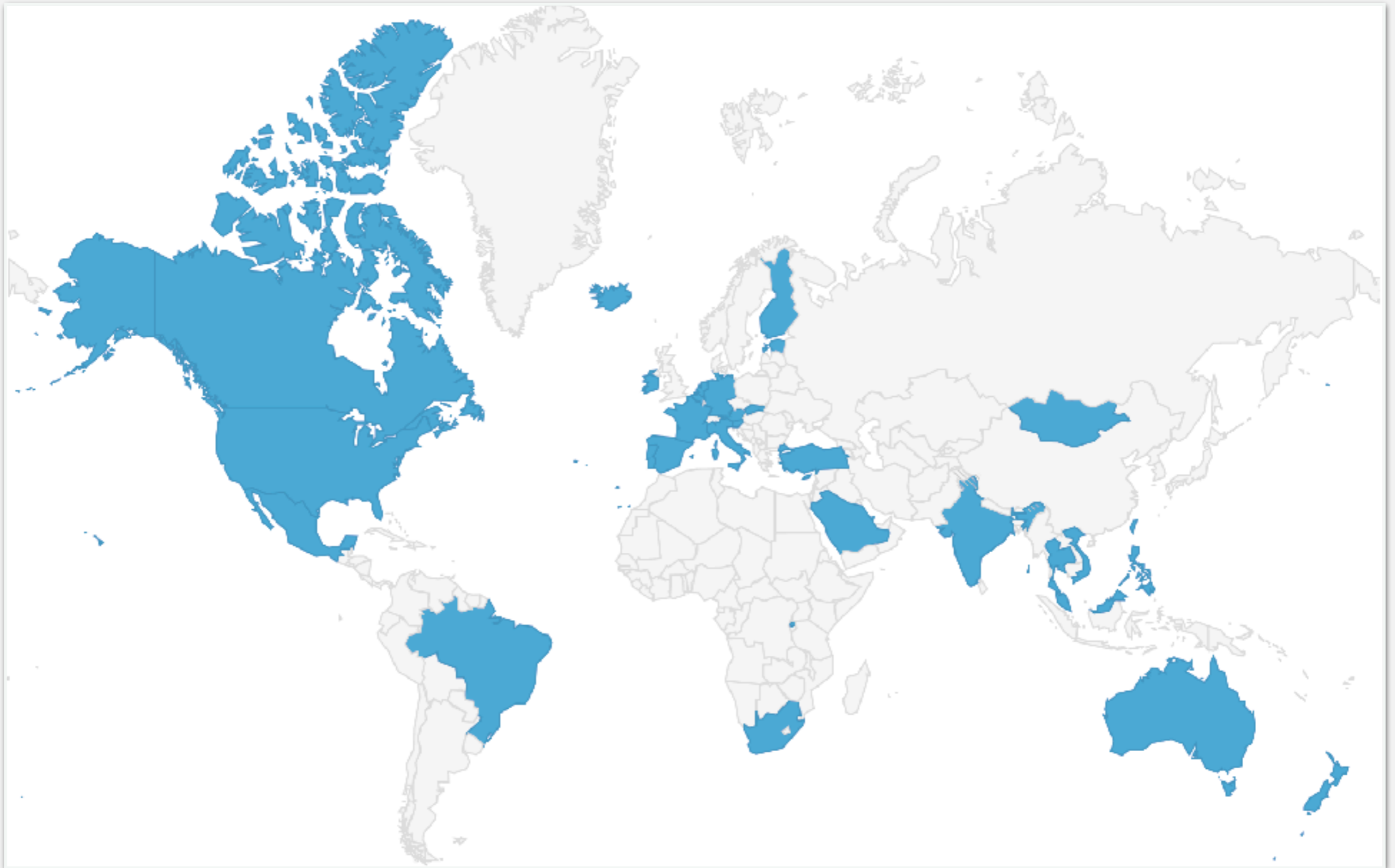


*6,000 new users per year*

# loinc.org registered users

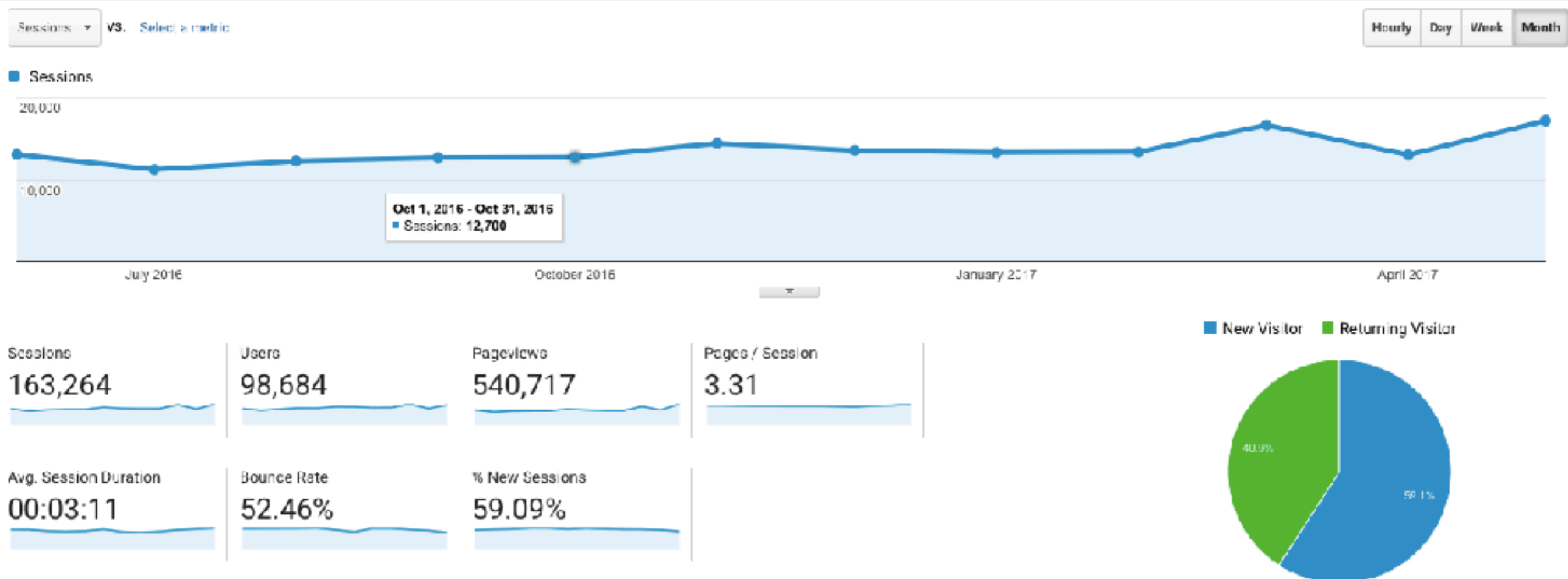


Official national standard in 30+ countries



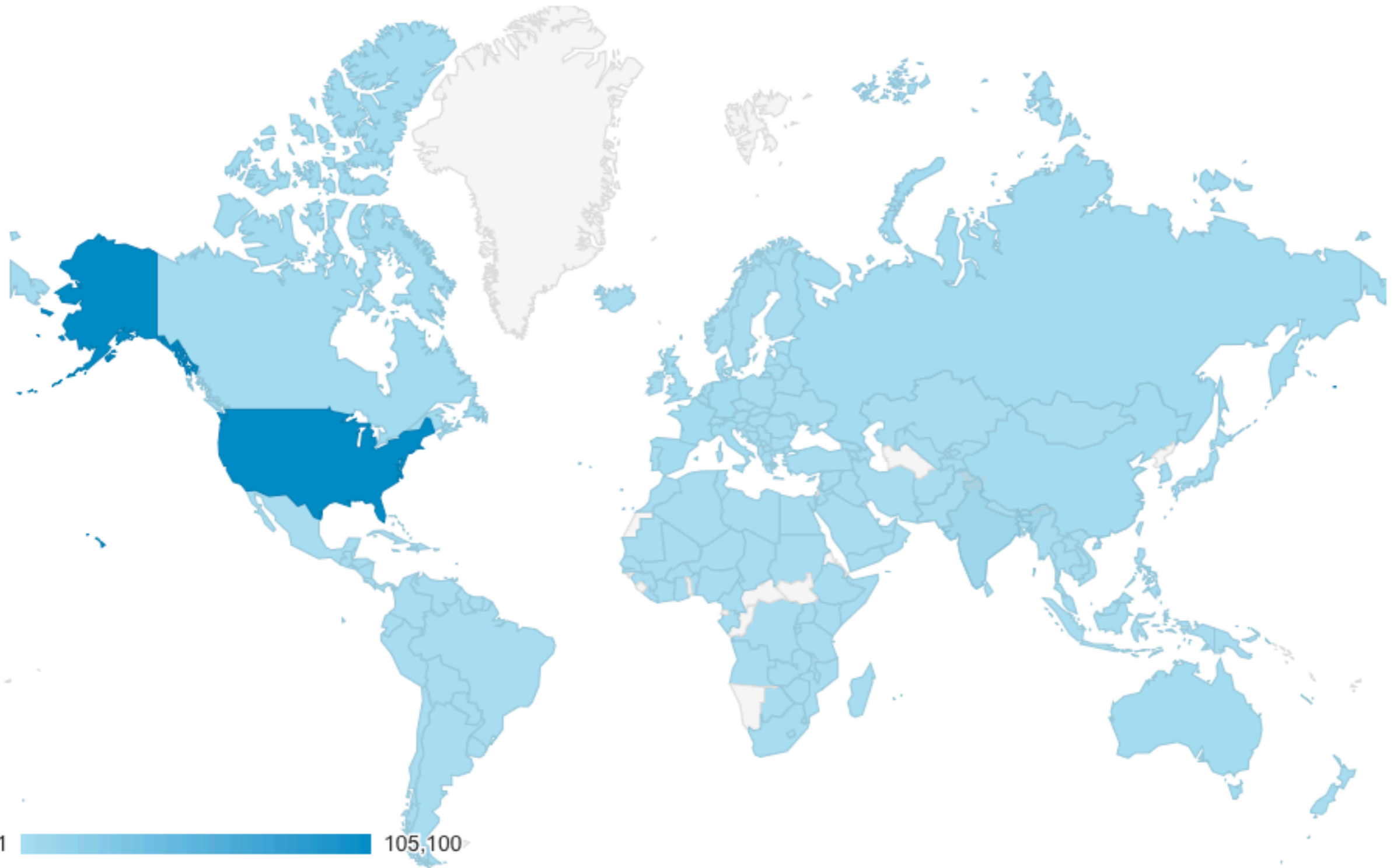
# Overall loinc.org website traffic

June 2016 to May 2017



*About 15% increase in sessions, users, and page views*

# Overall loinc.org website traffic



# Overall loinc.org website traffic (2017)

Country ?	Acquisition			Behavior		
	Sessions ? ↓	% New Sessions ?	New Users ?	Bounce Rate ?	Pages / Session ?	Avg. Session Duration ?
	163,264 % of Total: 100.00% (163,264)	59.15% Avg for View: 59.09% (0.10%)	96,565 % of Total: 100.10% (96,470)	52.46% Avg for View: 52.46% (0.00%)	3.31 Avg for View: 3.31 (0.00%)	00:03:11 Avg for View: 00:03:11 (0.00%)
1.  United States	105,100 (64.37%)	57.00%	59,903 (62.03%)	53.65%	3.22	00:03:04
2.  India	7,563 (4.63%)	66.48%	5,028 (5.21%)	55.65%	3.10	00:02:58
3.  Canada	4,480 (2.74%)	58.46%	2,610 (2.71%)	49.40%	2.49	00:03:13
4.  Russia						00:02:12
5.  Germany						00:06:50
6.  United Kingdom						00:02:44
7.  China						00:07:17
8.  France						00:02:56
9.  Netherlands	1,800 (1.10%)	58.83%	1,050 (1.10%)	56.56%	2.94	00:02:20
10.  Italy						00:02:48

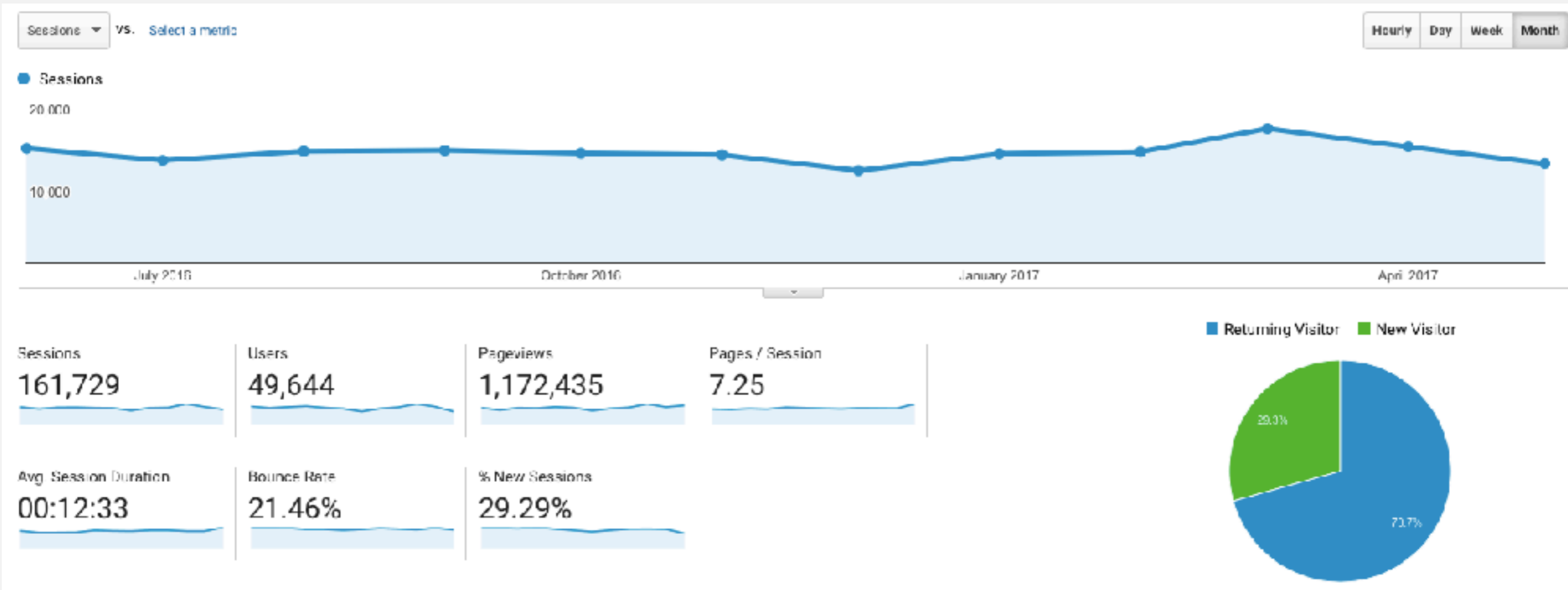
#17 in 2015!

#10 in 2015!

Up two slots each!






















New to the top 10!

# search.loinc.org website traffic



*June 2016-May 2017 Summary*

# Translations into 18 variants of 12 languages

	<b>Chinese (China)</b> 汉语/漢語:中文
	<b>Dutch (Netherlands)</b> Nederlands
	<b>English (United States)</b> Official Distribution
	<b>Estonian (Estonia)</b> eesti keel
	<b>French (Belgium)</b> français
	<b>French (Canada)</b> français
	<b>French (France)</b> français
	<b>French (Switzerland)</b> français
	<b>German (Austria)</b> Deutsch
	<b>German (Germany)</b> Deutsch
	<b>German (Switzerland)</b> Deutsch
	<b>Greek (Greece)</b> ελληνικά
	<b>Italian (Italy)</b> italiano
	<b>Italian (Switzerland)</b> italiano
	<b>Korean (Korea, Republic of)</b> 한국어
	<b>Portuguese (Brazil)</b> português
	<b>Russian (Russian Federation)</b> русский язык
	<b>Spanish (Argentina)</b> español
	<b>Spanish (Mexico)</b> español
	<b>Spanish (Spain)</b> español
	<b>Turkish (Turkey)</b> Türkçe



A photograph of an elderly man with a mustache, wearing a blue cap and a light-colored shirt, smiling warmly. He is standing behind a stall or market counter. The stall is filled with various goods, including several large white bags of rice, a large red plastic tub filled with small, light-colored items (possibly rice or grains), and a woven basket in the foreground containing several pieces of bread. The background shows a brick wall and some hanging items, possibly more goods or clothing. The overall scene suggests a traditional market setting.

*A small taste of recent LOINC  
adoption around the world*

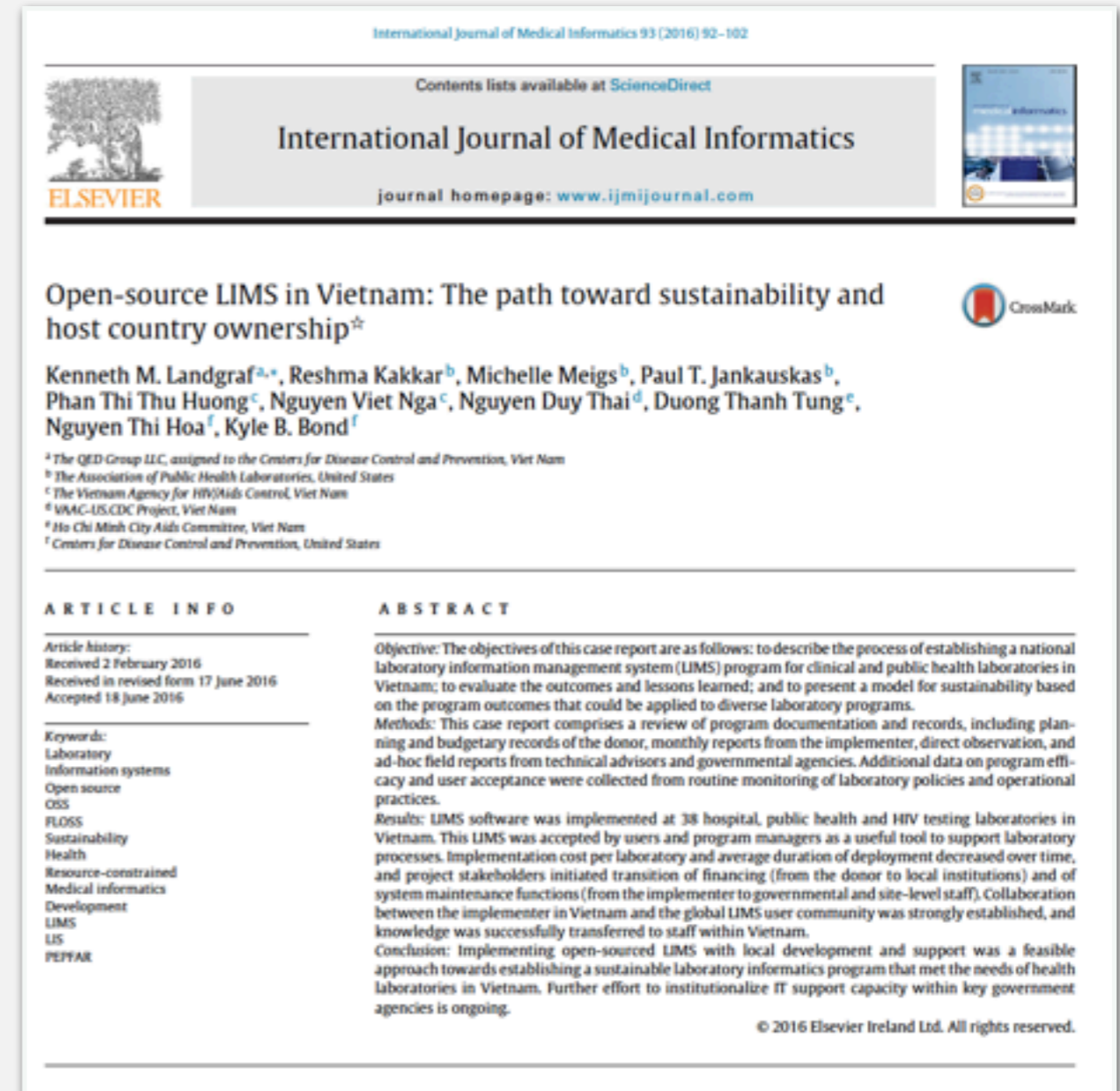


# Open-source LIMS in Vietnam

Implemented at 38 hospital, public health, and HIV testing laboratories in Vietnam.

Mapped to LOINC to facilitate data exchange and interoperability projects

“ a feasible approach towards establishing a sustainable laboratory informatics program that met the needs of health laboratories in Vietnam.





# Austrian National Patient Health Record (ELGA)

LOINC for laboratory tests as well as for document and section encoding.

A value set of LOINC codes and preliminary ELGA-wide codes was developed for laboratory analyses and is constantly maintained and updated in coordination with the laboratory community.

## eHealth Terminology Management in Austria

Carina SEERAINER<sup>a,1</sup> and Stefan W. SABUTSCH<sup>b</sup>

<sup>a</sup>ELGA GmbH, Austria

<sup>b</sup>HL7 Austria, Austria

**Abstract.** When it comes to establishing and operating a nationwide personal health record (PHR), effective and efficient terminology management including the development, administration, maintenance and publishing of terminologies is a precondition for semantic interoperability. In the Austrian national patient health record "ELGA" all relevant terminologies are provided and distributed by means of a CTS2-conformant terminology server. In the following article, issues and lessons learned from terminology management in a large-scale eHealth project are presented. Experience has proved the necessity of a national authority for medical terminology management in Austria.

**Keywords.** Terminology; Terminology Server; Semantics; Interoperability; Vocabulary, Controlled; Patient Health Record; Electronic Health Record

### 1. Introduction

Semantic interoperability within a nationwide electronic patient record, entailing the interconnection of highly diverse organizations with various IT systems, can only be achieved by providing standardized terminologies. In order to cover the needs of clinical documentation, a plethora of special terms, abbreviations and codes, organized in systems like nomenclatures and classifications is a prerequisite. The terminology server has proved to be a helpful tool to support efficient terminology management. Preliminary results and experiences from the Austrian national patient health record "ELGA" are reported.

#### 1.1. ELGA and e-Health applications in Austria

ELGA was put into operation in December 2015. It allows a cross domain exchange of health data between all authorized Austrian Health Care Provider (HCP) and enables secure and reliable access to health data for any patient visiting a HCP. In the first phase, distinct clinical documents (physician and nurse discharge letters, laboratory and radiology reports) can be shared. Other data like medication will follow later. The format for the documents is restricted to CDA Rel.2 (HL7 Clinical Document Architecture, ISO/HL7 27932:2009). All documents are required by law to conform to the nationally harmonized HL7 CDA implementation guidelines. Specific coded health data (e.g. diagnoses or laboratory analyses) have to be included. [1]

<sup>1</sup> Corresponding Author: carina.seerainer@elga.gv.at



# Nictiz

## Many national projects in the Netherlands are using LOINC

Nationwide surveillance network for bacterial typing and antibiotic resistance surveillance

National laboratory code list (selected by NVKC and NVMM societies)

National special test registry (WieDoetWat-database)

Nictiz is a LOINC Premium Member

Dezere gezondheid door betere informatie **Nictiz**

HOME STANDAARDISATIE TERMINOLOGIECENTRUM PROJECTEN EHEALTH PUBLIC

### LOINC

**LOINC**  
*From Registry*

Logical Observation Identifiers Names and Codes  
LOINC

Interoperabiliteitsmodel	: Informatie
Type standaard	: Codestelsel
Zorgniveau	: Eerste lijn, Tweede lijn, Derde lijn
Professionals	: Laborant
Implementatiestatus	: In gebruik
Adoptiegraad	: ●○○○○ (Op enkele plekken in Nederland geadopteerd)
Korte beschrijving	: Heeft als doel om concepten te standaardiseren van laboratorium-aanvragen, laboratoriumuitslagen en klinische begrippen.
Maakt gebruik van	: Snomed CT, UCIW
Browser	: LOINC Browser
Beheerder (IMT)	: Registry Institute
Licentie nodig	: Nee
Versie	: 2015
Eerste jaar van uitgave	: 1994
Wikipedia NL/EN	: LOINC Wikipedia

LOINC is een codestelsel en heeft als doel om concepten te standaardiseren van laboratorium-aanvragen, laboratoriumuitslagen en klinische begrippen. Het Registry Institute beheert LOINC. Het Registry Institute is een non-profit organisatie verbonden aan de Indiana University. LOINC is in 1994 ontwikkeld om aan de toenemende vraag naar automatisering te voldoen om gecodeerd laboratorium-aanvragen en uitslagen te verwerken. Hoewel elk laboratorium om wel een codesysteem handelt, is het bij elektronische uitwisseling van gegevens tussen meerdere partijen essentieel dat metingen en resultaten eenduidig kunnen worden geïdentificeerd. LOINC betekent Logical Observation Identifiers Names and Codes. Veel laboratoria gebruiken dit codestelsel. Oorspronkelijk stond de L voor Laboratory.



# International Patient Summary (IPS)

A non-exhaustive patient summary, specialty-agnostic, condition-independent, but readily usable by clinicians for the cross-border unscheduled care of a patient.

Coordinated with the IPS project mandated to CEN TC 251 by the European Commission.

Uses LOINC for:

Document type, sections, lab results, other clinical observations, and radiology reports

## Welcome to the International Patient Summary

### What is it?

The International Patient Summary is a minimal and non-exhaustive Patient Summary, specialty-agnostic, condition-independent, but readily usable by all clinicians for the unscheduled (cross-border) care of a patient.

## International Patient Summary

This is the wiki hosting the Implementation Guide for the **International Patient Summary**, an HL7 project. An **International Patient Summary** contains the following data:

- General information about the patient (e.g. name, birth date, gender)
- A medical summary consisting of the most important clinical patient data (e.g. allergies, current medical problems, medical implants, or major surgical procedures during the last six months).
- A list of the current medication including all prescribed medicines that the patient is currently taking.

Information about the Patient Summary itself (e.g. when and by whom the Patient Summary was generated or updated). This data is also used for protocol and security purposes.



### About Patient Summaries


A Patient Summary is a standardized set of basic medical data that includes the most important clinical



# Turkish Ministry of Health

General Directorate of Health Services recently mandated LOINC for laboratory results in public, university, and private health facilities

Maintain a Turkish translation of LOINC and mapping to national billing codes (plus online search/mapping tool).

  
T.C. SAĞLIK BAKANLIĞI  
Sağlık Bilgi Sistemleri Genel Müdürlüğü

MEHMETSAĞ - SAĞLIK BİLGİ SİSTEMLERİ GENEL MÜDÜRLÜĞÜ  
11/04/2017 04:31 - 40722005 - 75180 - E-001000  
900431110409

Sayı : 75730711  
Konu : LOINC Kullanımı

DAĞITIM YERLERİNE

İlgi : 22.12.2014 tarihli ve 75730711/700/2014.5210.23 sayılı yazımız.

Laboratuvar tetkik istemlerinin yapıldığı bilgi sistemi (HBYS, AHBS vb) ile tetkik sonuçlarının üretildiği bilgi sistemleri (LBYS) arasındaki iletişim esnasında ortak bir dil kullanılmasına yönelik çalışmalar çerçevesinde uluslararası kabul gören bir standart olan Logical Observation Identifiers Names and Codes – LOINC kodlama ve sınıflandırma sistemine geçilmesinin kararlaştırıldığı, tüm kamu, üniversite ve özel sağlık tesislerinde tüm tetkikler (Biyokimya, Radyoloji, Mikrobiyoloji vb.) için bu standardın kullanılması konusunda çalışmaların başlatılması hususu tarafınıza ilgi yazımız ile 2014 yılı sonunda bildirilmiştir.

LOINC standardının kullanılması sayesinde tüm laboratuvar tetkiklerinde ortak bir dil kullanılması, tetkik sonuçlarının karşılaştırılmasındaki yanlışların önlenmesi, tetkik sonuçlarının tıbbi veri olarak değerlendirilmesi ve yorumlanabilmesi, birden çok bilgi sistemi arasındaki iletişim sorunlarının giderilmesi, uzak lokasyonlardaki tetkik istekleri ve sonuçlarının standart bir şekilde iletilmesi amaçlanmaktadır. Bu amaç çerçevesinde kamu, üniversite ve özel dâhil olmak üzere tüm sağlık kuruluşlarının çalıştıkları test adlarını <http://www.sbsgm.saglik.gov.tr/> adresinde yer alan LOINC listesine göre ilişkilendirmesi gerekmektedir. İlişkilendirme çalışmaları için LOINC kodlarının daha kolay bulunmasına yönelik arama motoru geliştirilmiş ve <http://loinc.saglik.gov.tr> adresinde kullanıma açılmıştır. Arama motorunun kullanımına ilişkin hazırlanan Kılavuz Ek-1’de yer almaktadır.

1 Haziran 2017 tarihinden itibaren Ulusal Sağlık Sistemine (USS) laboratuvar ile görüntüleme istem ve tetkik sonuçlarının LOINC kodu ile gönderimi zorunlu olacak ve LOINC standardının kullanımı konusunda saha denetimleri yapılacaktır. Sağlık kuruluşları kullandıkları tüm laboratuvar ve görüntüleme testlerini istem (order) ve sonuç (result) olarak <http://www.sbsgm.saglik.gov.tr/> adresinde yer alan kodlara göre sınıflandırarak, çalışmış oldukları Sağlık Bilgi Yönetim Sistemi (HBYS ve AHBS gibi SBYS Yazılımları) yazılımlarına yansıtılması amacıyla SBYS yazılım üreticilerine bildirmeleri gerekmektedir. İlişkilendirme çalışmaları yapılırken, listede yer almayan ve eklenmesi talep edilen tetkik isimlerinin [loinc@saglik.gov.tr](mailto:loinc@saglik.gov.tr) adresine e-posta ile gönderilmesi gerekmektedir.

Mehatpaşa Cad. No:3 B Blok, Kat 1 06434 Sıhhiye-Ankara  
İrtibat: Tel: 0 312 585 23 86

Ayrıntılı bilgi için Esra ZEHİR  
e-posta: [esra.zehir@saglik.gov.tr](mailto:esra.zehir@saglik.gov.tr)

A fly fisherman is standing in a river, casting a line. The background is filled with trees showing autumn foliage in shades of yellow, orange, and green. The water is dark and rippled.

# Moving standardization upstream

Let all the downstream data recipients benefit



Search for...

**Narrow By**

[Clear All](#)

Search Within Results

Document Type

- Application Barcode
- Application Parameters
- Application Sheet
- Barcode Specifications Document
- Calibrator
- Control
- Customer Letter
- Instruction Manual

Product Name or Catalog #

Show results that match  any  all items selected below:

- 1st filter paper (A)
- 1st filter paper (B)
- 2nd filter paper
- A-ring holder
- A-rings
- a1-Antitrypsin
- a1-Antitrypsin - 03005771322
- a1-Antitrypsin - 03001070100

Lot #

- 00564025
- 00500094

Active Filters: [Search: loinc](#) x

40 results in Documentation for "loinc".

Order By [Relevance](#)

<a href="#">↓</a>	<a href="#">Urinalysis Analyzers LOINC Code Listing [LOINC Code Listing   v0]</a>
<b>Systems</b>	Chemstrip Criterion II / Urisys 1800 / 2400 / cobas u 411
<a href="#">↓</a>	<a href="#">CoaguChek Systems LOINC Code Listing [LOINC Code Listing   v0]</a>
<b>Systems</b>	CoaguChek XS / XS Plus / XS Pro
<a href="#">↓</a>	<a href="#">Molecular Diagnostics LOINC Code Listing [LOINC Code Listing   v0]</a>
<b>Systems</b>	AmpliChip / COBAS AmpliPrep / TaqMan / COBAS TaqMan 48 / LightCycler 1.2 / 2 / cobas 4800 / cobas x 480 / cobas z 480
<a href="#">↓</a>	<a href="#">cobas c 502, 701, and 702 modules LOINC Code Listing [LOINC Code Listing   v0]</a>
<b>Systems</b>	cobas 8000 / cobas c 502 / 701 / 702 / cobas e 602
<a href="#">↓</a>	<a href="#">cobas b 221 and cobas b 123 Systems LOINC Code Listing [LOINC Code Listing   v0]</a>
<b>Systems</b>	cobas b 123 / 221 System
<a href="#">↓</a>	<a href="#">MODULAR ANALYTICS D2400 and P800 (Including ISE cartridges) Modules LOINC Code Listing [LOINC Code Listing   v0]</a>
<b>Systems</b>	MODULAR D / DAT / P
<a href="#">↓</a>	<a href="#">Elecsys 2010 and MODULAR ANALYTICS E 170 Analyzers; and cobas e 411, 601, and 602 analyzers LOINC Code Listing [LOINC Code Listing   v1]</a>
<b>Systems</b>	Elecsys 2010 / MODULAR E / cobas 4000 / 6000 / 8000 / cobas e 411 / 601 / 602



## VITEK® 2 System connectivity enhanced with support for the ICC/IHE LAW Profile and LOINC®



bioMérieux has updated its VITEK® 2 system for automated identification and antimicrobial susceptibility testing with software version 8.01 that is fully compliant with the ICC/IHE Laboratory Analytical Workflow (LAW) profile. The ICC/IHE LAW profile defines plug-n-play connectivity between instruments, middleware, and LIS systems in the laboratory. An ICC founding member, bioMérieux successfully tested its LAW Profile implementation at three IHE Connectathons in the USA and Europe. With this new interface, VITEK® 2 system software version 8.01 also supports LOINC® codification. Implementation of this connectivity standard in the VITEK® 2 system will help improve healthcare lab efficiency and contribute to better patient care through increased reliability of test order data and patient test results.

*A few highlights from the USA*





**2017**

**Interoperability**

**Standards**

**Advisory**

**Office of the National Coordinator for Health IT**

# Lots o' LOINC

Representing Patient Allergic Reactions

Representing Patient Family Health History

Representing Patient Functional Status and/  
or Disability

Representing Imaging Diagnostics,  
Interventions and Procedures

Representing Laboratory Tests

Nursing

- Representing Nursing Assessments

- Representing Nursing Interventions

- Representing Outcomes for Nursing

Representing Patient Clinical

“Problems” (i.e., Conditions)

Sex at Birth, Sexual Orientation and

Gender Identity

- Representing Patient Gender Identity

- Representing Patient Sex (At Birth)

Representing Patient-Identified Sexual  
Orientation

Social Determinants

Representing Financial Resource  
Strain

Representing Level of Education

Representing Stress

Representing Depression

Representing Physical Activity

Representing Alcohol Use

Representing Social Connection and  
Isolation

Representing Exposure to Violence  
(Intimate Partner Violence)

Representing Patient Tobacco Use (Smoking  
Status)

Representing Patient Vital Signs

# U.S. Food and Drug Administration



LOINC codes will be required for laboratory test data in studies starting after March 2018

Actively facilitating discussion with IVD vendors about identifying the LOINC codes associated with their products

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2015-N-1349]

Electronic Study Data Submission; Data Standards; Support for the Logical Observation Identifiers Names and Codes

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice; request for comments

SUMMARY: The Food and Drug Administration (FDA) is encouraging sponsors and applicants to provide Logical Observation Identifiers Names and Codes (LOINC) codes (available at <http://loinc.org/>) for clinical laboratory test results in investigational study data provided in regulatory submissions submitted to the Center for Drug Evaluation and Research and to the Center for Biologics Evaluation and Research. LOINC code is defined as electronic messages for laboratory test results and clinical observations. The decision to adopt LOINC for lab test results is part of a larger FDA effort to align the use of data standards for clinical research with ongoing nationwide health information technology initiatives. FDA invites public comment on appropriate steps the Agency could take to promote the use and utility of LOINC-coded clinical data submitted to the Agency. The LOINC common terminology will be listed in the FDA Data Standards Catalog that is posted to FDA's Study Data Standards Resources Web page at

*More on this later*

# Centers for Medicare & Medicaid Services

Long term goal of unification across settings. Representing all data elements from assessment instruments in LOINC.

Focused on MDS, OASIS, IRF-PAI, LCDS instruments now.

2,000+ individual data elements!

The screenshot shows the CMS.gov website with a navigation menu at the top including Home, About CMS, Newsroom, FAQs, Archive, Share, Help, and Print. Below the navigation is a search bar with the text 'Learn about your health care options'. The main content area is titled 'IMPACT Act of 2014 Data Standardization & Cross-Setting Measures' and includes a 'Background' section. The background section explains that on September 16, 2014, Congress passed the Improving Medicare Post-Acute Care Transformation Act of 2014 (the IMPACT Act). The Act requires the submission of standardized data by Long-Term Care Hospitals (LTCHs), Skilled Nursing Facilities (SNFs), Home Health Agencies (HHAs) and Inpatient Rehabilitation Facilities (IRFs). Specifically, the IMPACT Act requires, among other significant activities, the reporting of standardized patient assessment data with regard to quality measures, and patient assessment instrument categories. It further specifies that the data "... be standardized and interoperable so as to allow for the exchange of such data among such post-acute care providers and other providers and the use by such providers of such data that has been so exchanged, including by using common standards and definitions in order to provide access to longitudinal information for such providers to facilitate coordinated care and improved Medicare beneficiary outcomes...". The Act also requires the submission of data pertaining to measure domains pertaining to resource use, and other domains. Additionally, through the use of standardized data, the IMPACT Act intends for post-acute care data compatibility, and importantly, the Act conveys the inclusion of patient-centeredness in its standards and requirements related to capturing patient preferences and goals. The IMPACT Act provides a framework opportunity to address all of the priorities within the CMS Quality Strategy, which is framed using the three broad aims of the National Quality Strategy:

- **Better Care:** Improve the overall quality of care by making healthcare more patient-centered, reliable, accessible, and safe.
- **Healthy People, Healthy Communities:** Improve the health of the U.S. population by supporting proven interventions to address behavioral, social, and environmental determinants of health in addition to delivering higher-quality care.
- **Affordable Care:** Reduce the cost of quality healthcare for individuals, families, employers, and government.

The IMPACT Act supports these three aims while upholding the CMS Quality Strategy's goals, which are:

1. Making care safer by reducing harm caused in the delivery of care.
2. Ensuring that each person and family is engaged as partners in their care.
3. Promoting effective communication and coordination of care.
4. Promoting the most effective prevention and treatment practices for the leading causes of mortality, starting with cardiovascular disease.
5. Working with communities to promote wide use of best practices to enable healthy living.
6. Making quality care more accessible for individuals, families, employers, and governments by developing and spreading new healthcare delivery models.

The IMPACT Act changes:

# Centers for Disease Control and Prevention

Longtime users of LOINC:

Electronic Laboratory Reporting

Case Reporting

Reportable Condition Mapping Table

Immunization Messaging

National Emergency Medical Services Info System

National Trauma Data Standards

National Healthcare Safety Network - Healthcare

Associated Infection (HAI)



A close-up photograph of two women singing into a microphone. The woman on the left is wearing a dark top and has her eyes closed. The woman on the right is wearing a light-colored top and has her mouth open as if singing. The background is dark and out of focus. The text "Banding together for global good" is overlaid in a large, bold, blue font.

**Banding together  
for global good**



# Active Collaborations

IICC

NIDDK

HL7

APSE/CTSI

IEEE

NCCIH

SNOMED Intl

NIBIB

RSNA

CMS

bioMérieux

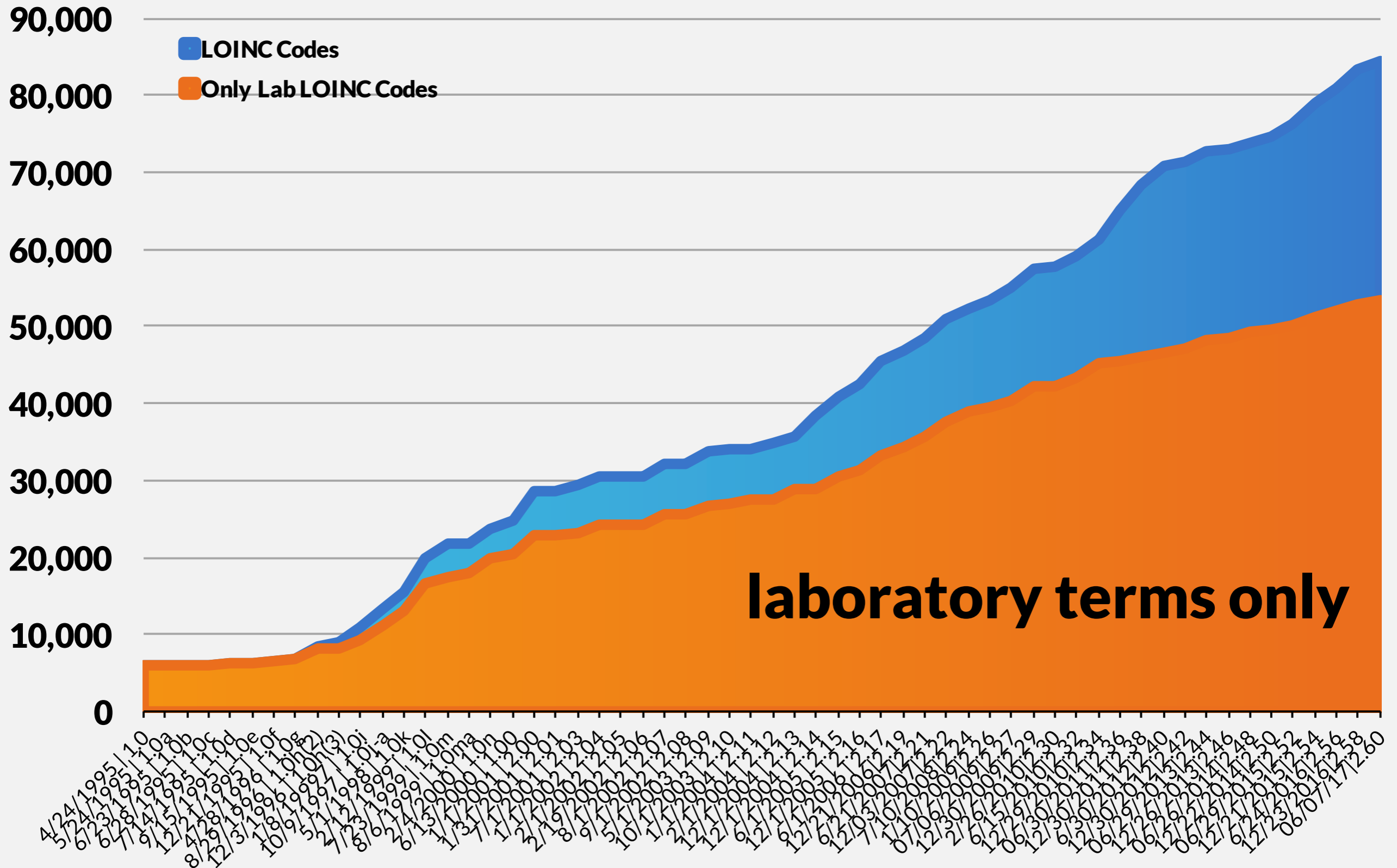


# LOINC Release

2.59 (patch) / 2.60 (beta) / 2.61 (coming)

A note about what we  
learned in version 2.59...

# LOINC Codes Over Time by Release



Content development team has done a remarkable job tackling our queue of term requests

Our target was processing all requests received 6 weeks out of a beta release date

Some of our funded projects are for developing specific content (e.g. CMS)

# Median turnaround time

About 75 days for lab requests

About 72 days for clinical requests

# Current request queue

3600+ requested LOINC

87% of those requested within the last 3 months\*

*\*Terms older than 3 months may be awaiting submitter information, Committee review, etc.*

Continue evolving our multi-level QA process to try to decrease that time even further

# Reminder of coming data file changes

Approved expansion of most text  
field sizes to 255 characters

See Release Notes or [Announcement](#)

# New changes (for June 2018)

Pascal case (and potentially other) changes to file name conventions

Making the *Answers* worksheet of *Panels and Forms File* consistent with the structure of the new *AnswerList* file.



# License Updates

Added new release files

Same basic principles

Updated Third Party attributions

*Spoiler alert! Now contains some SNOMED  
CT and RxNorm mappings*

# RELMA 6.19

## Updates

# Updated Translations



Chinese (China).

汉语/漢語;中文



French (Canada).

français



Spanish (Spain).

español

# No new features...

But a good visualization of our new multi-axial hierarchy enhancements.

I won't steal Swapna's thunder though...

# Canonical LOINC Representation in FHIR

# FHIR Terminology Services

<http://loinc.org/fhir/loinc.xml>

We are collaboratively defining a canonical representation of LOINC for use in FHIR as a CodeSystem

Specifies generic filters/attributes:

parent, child, ancestor, descendant

Specifies LOINC-specific filters/attributes:

STATUS, COMPONENT, PROPERTY, etc

Highlights our strange field names

People want to use Part codes here (e.g. compose/decompose)

```

</property>
<!--
  LOINC properties.
  These apply to the main LOINC codes, but not the Multiaxial Hierarchy, the answer lists, or the part codes.

  Notes:
  SHORTNAME = display & LONG_COMMON_NAME = definition
  Properties are specified as type "code", which are LOINC Part codes (LP-).
  It is anticipated that the LOINC Part codes to be used in these properties will be published in the June 2017 LOINC release.
-->
<property>
  <code value="STATUS"/>
  <uri value="http://loinc.org/property/STATUS"/>
  <description value="Status of the term. Within LOINC, codes with STATUS=DEPRECATED are considered inactive. Current values: ACTI
  <!-- DV NOTE: changed this from boolean to string -->
  <type value="string"/>
</property>
<property>
  <code value="COMPONENT"/>
  <uri value="http://loinc.org/property/COMPONENT"/>
  <description value="First major axis-component or analyte: Analyte Name, Analyte sub-class, Challenge"/>
  <type value="coding"/>
</property>
<property>
  <code value="PROPERTY"/>
  <uri value="http://loinc.org/property/PROPERTY"/>
  <description value="Second major axis-property observed: Kind of Property (also called kind of quantity)"/>
  <type value="coding"/>
</property>
<property>
  <code value="TIME_ASPCT"/>
  <uri value="http://loinc.org/property/TIME_ASPCT"/>
  <description value="Third major axis-timing of the measurement: Time Aspect (Point or moment in time vs. time interval)"/>

```



# Coming Attractions



 [MEMBERS](#)
 **LOINCinar**

## Introducing our new webinar series for LOINC Premium Members

LOINC Premium Members have exclusive access to our new LOINCinar series. A LOINCinar is an interactive webinar covering all things LOINC. They are a great opportunity to learn more about LOINC, ask questions, and hear directly from our team of experts. LOINCinars are offered every 4-6 weeks as 60-minute live events covering a variety of topics. Each session offers in-depth explanations and allows plenty of time for your questions. Our goal is for you to succeed with LOINC.



[Send us your suggestions for future LOINCinar topics](#)

### NEXT LOINCINAR

## We will be announcing our next LOINCinar very soon!

LOINC Premium Members, watch your email for details and how to RSVP.

### NOW AVAILABLE



### **Sneak Peek! New LOINC Artifacts**

LOINCINAR 2 RECORDED 2017-05-23 42 MINUTES



### **Lifecycle of a Submission**

This first LOINCinar explains how we process submissions, from our first look at the information you send through the creation and publication of new codes. It's your backstage pass that will give you a better understanding of our content development and QA workflows.

LOINCINAR 1 RECORDED 2017-04-20 55 MINUTES

# Upcoming Meetings

## [Tutorial at MedInfo Congress 2017](#)

(Hangzhou, China)

2017-09-26 to 2017-09-28

## [Fall 2017 Clinical LOINC Meeting](#)

(Salt Lake City, UT USA)

2017-09-26 to 2017-09-28

## [Tutorial at AMIA Annual Symposium](#)

(Washington, D.C. USA)

2017-11-04 to 2017 11 08

## [FHIR DevDays - Terminology Track](#)

(Amsterdam, Netherlands)

2017-11-15 to 2017-11-16

## Winter 2017 Lab LOINC Meeting

(Indianapolis, IN USA)

2017-12-06 to 2017-12-07

## Spring 2018 International LOINC Meeting

(Tentative)

TBD

## Summer 2018 Lab LOINC Meeting

(Indianapolis, IN USA)

2018-06-06 to 2017-06-07

# Enhanced Educational Opportunities

More modular approach

Possible sessions include:

- Submitting new term requests

- Domain-specific mapping tips (micro, genetics)

- Deep dive into accessory files

- Mapping lab

*What would you like to see?*

# Clarified and improved LOINC Committee structure

Committee composition (lab, clinical, rad)

Officer roles defined

Committee membership clarified

A few categories (individual, organization, international affiliate)

Prerequisites (attendance, IP agreement)

Membership duration (pruning absentees)

*Overall goal is to preserve the success of this group as an  
advisory body to Regenstrief*

**ASK MORE  
QUESTIONS**

