



Consensus-driven Standards on Social Determinants of Health

NCVHS Subcommittee on Standards Listening Session

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EMI Advisors LLC



Topics

- Overview (WHY)
- Project Scope (WHAT)
- Accomplishments & Success Factors
- Scaling to Public Health
- How to Engage

Overview



HOORAY! THAT EAR IS BETTER...
ANYTHING ELSE...?

*Slide developed by
Laura Gottlieb, MD, MPH
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Jack Maypole, MD*



Challenges in SDOH Data Capture and Exchange

- Consent Management
- Standardization of SDOH Data Collection and Storage
- Data Sharing Between Ecosystem Parties
- Access & Comfort with Digital Solutions
- Concerns about Information Collection and Sharing
- Social Care Sector Capacity and Capability
- Unnecessary Medicalization of SDOH

https://www.nasdoh.org/wp-content/uploads/2020/08/NASDOH-Data-Interoperability_FINAL.pdf

Enter the Gravity Project...

Goal – Foster equitable health and social care using consensus-driven data standards to support the use and exchange of social determinants of health (SDOH) data.



Domains grounded by those listed in the NASEM [“Capturing Social and Behavioral Domains in Electronic Health Records”](#) 2014

Project Scope

In May 2019, the **Gravity Project** was launched as a multi-stakeholder public collaborative with the goal to develop, test, and validate standardized SDOH data for use in patient care, care coordination between health and human services sectors, population health management, public health, value-based payment, and clinical research.

The Gravity Project was initiated by the Social Interventions Research and Evaluation Network (SIREN) with funding from the Robert Wood Johnson Foundation and in partnership with EMI Advisors LLC.

Gravity Project Scope: Develop data standards to represent patient level SDOH data documented across four clinical activities: screening, assessment/diagnosis, goal setting, and treatment/interventions.

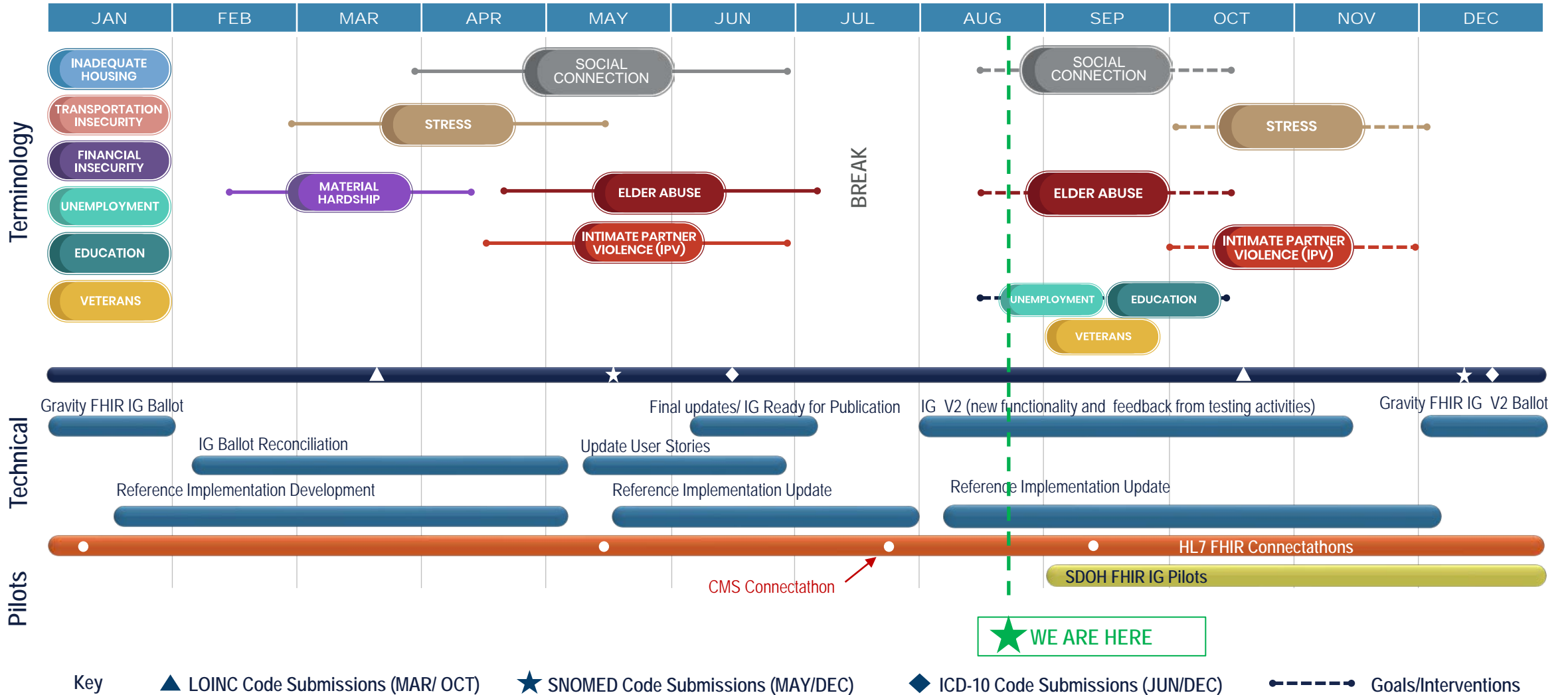
<https://confluence.hl7.org/display/GRAV/The+Gravity+Project>

Project Founders, Grants, and In-Kind Support To-Date



<https://confluence.hl7.org/display/GRAV/Gravity+Project+Sponsors>

Gravity Overview: 2021 Roadmap





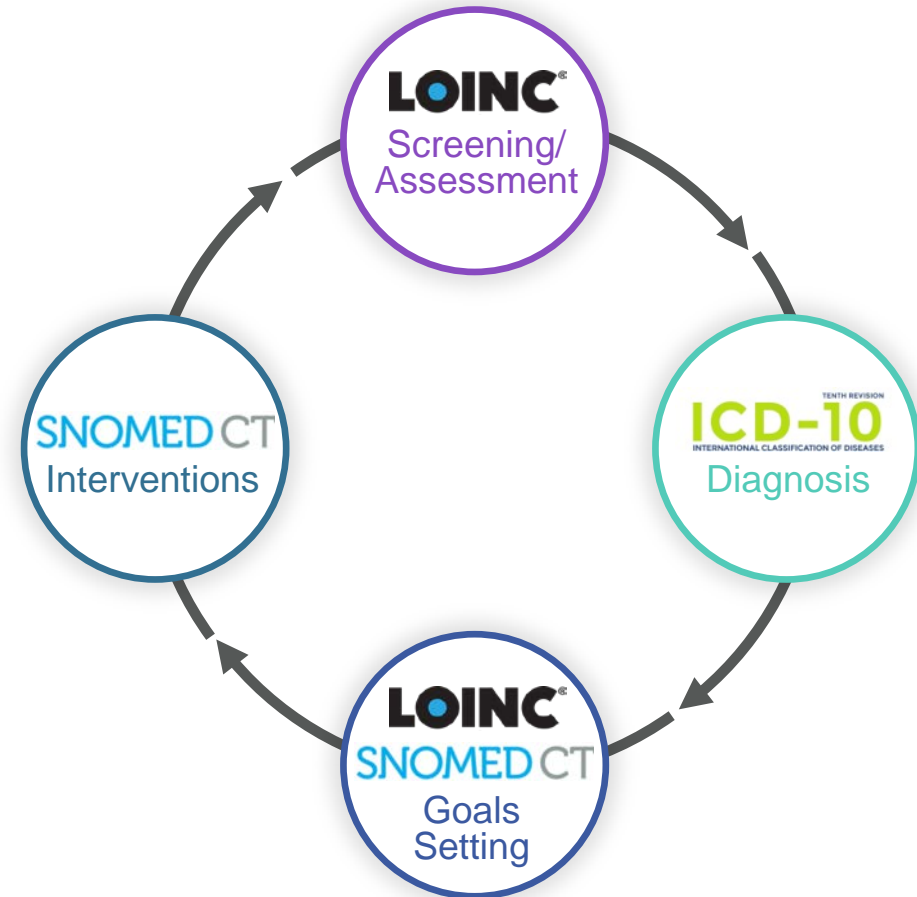
Terminology Workstream



Terminology Workstream

Data Element and Coding Gap Analysis

- All data are sorted across four activities into a master set.
- For data within each domain, we ask:
 - What concepts need to be documented across the four activities?
 - What codes reflecting these concepts are currently available?
 - What codes are missing?



NEW! 2022 Release of ICD-10 CM



Gravity Project submission for new and updated ***education, food insecurity, and housing*** ICD-10 CM codes were approved for implementation beginning October 1, 2021.

<https://confluence.hl7.org/display/GRAV/ICD-10+Coding+Submissions>

National Center for Health Statistics

2022 release of ICD-10-CM

The 2022 ICD-10-CM codes are to be used from October 1, 2021 through September 30, 2022.

Note: This replaces the FY 2021 – January release. These files listed below represent the FY 2022 ICD-10-CM. The FY 2022 ICD-10-CM is available in both PDF (Adobe) and XML file formats. Most files are provided in compressed zip format for ease in downloading. These files have been created by the National Center for Health Statistics (NCHS), under authorization by the World Health Organization. Any questions regarding typographical or other errors noted on this release may be reported to nchsicd10cm@cdc.gov.

A new version of the ICD-10-CM tabular addenda FY2022 file has been added. If you have downloaded the previous file (prior to June 30, 2021) you will need to download it again. This corrects the missing I5A, Non-ischemic myocardial injury (non-traumatic) code for the addenda.

Also a new version of the FY2022 Conversion table has been added. If you have downloaded the previous file (prior to June 30, 2021) you will need to download it again.

- [ICD-10-CM FY2022 Full PDF 2022](#)
- [ICD-10-CM FY2022 XML 2022](#)
- [ICD-10-CM FY 2022 Addenda PDF 2022](#)
- [ICD-10-CM FY 2022 List of codes and Descriptions 2022](#)
- [ICD-10-CM FY2022 Order Files 2022](#)
- [ICD-10-CM FY2022 Conversion Table 2022](#)

<https://www.cdc.gov/nchs/icd/icd10cm.htm>



Technical Workstream



Interoperability Glide Path: Domain Data Sets & Implementation Guides

SDOH Data Sets



Develop and test coded value sets for use in FHIR

Refine, test, and ballot HL7® FHIR® SDOH Implementation Guide(s)



Regulators

EHR Vendors

Payers & Providers

Patients

Clinicians

Registries/
Researchers

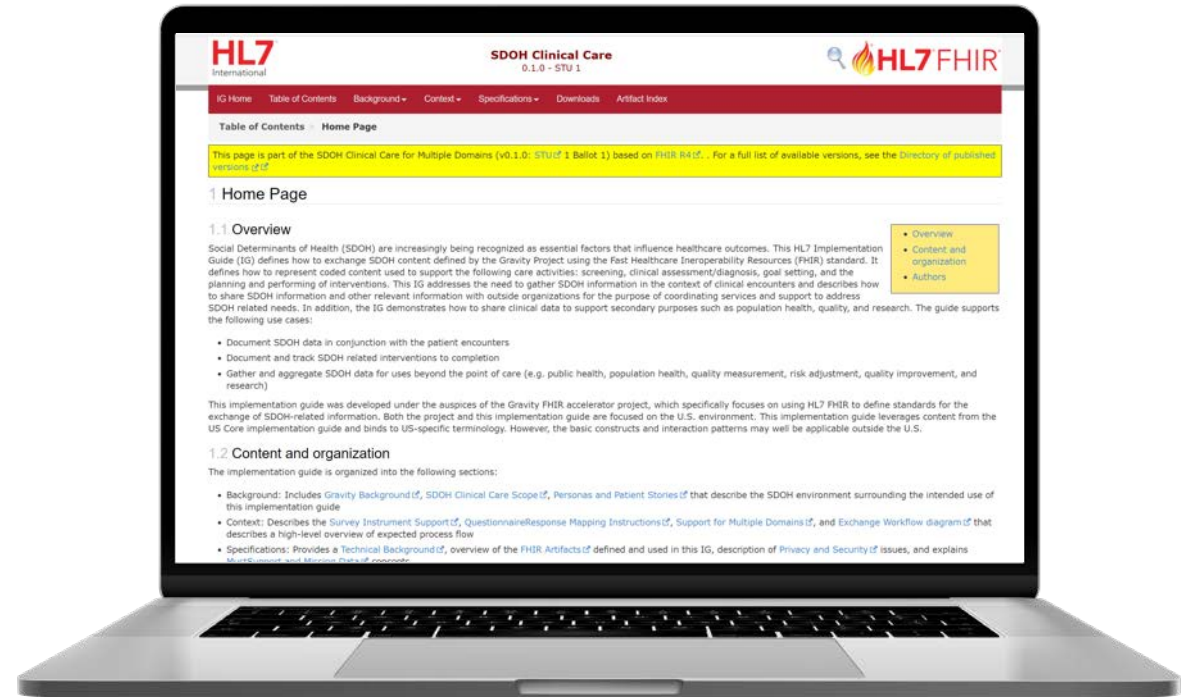


<http://www.hl7.org/about/fhir-accelerator/>

HL7 SDOH Clinical Care FHIR Implementation Guide

1. This is a framework Implementation Guide (IG) and supports multiple domains
2. IG support the following clinical activities
 - Assessments
 - Health Concerns / Problems
 - Goals
 - Interventions including referrals
 - Consent
 - Aggregation for exchange/reporting
3. Completed January 2021 ballot as a Standard for Trial Use Level 1 (STU1)
4. Published August 2021 as STU1 version 1

<http://hl7.org/fhir/us/sdoh-clinicalcare/STU1/>

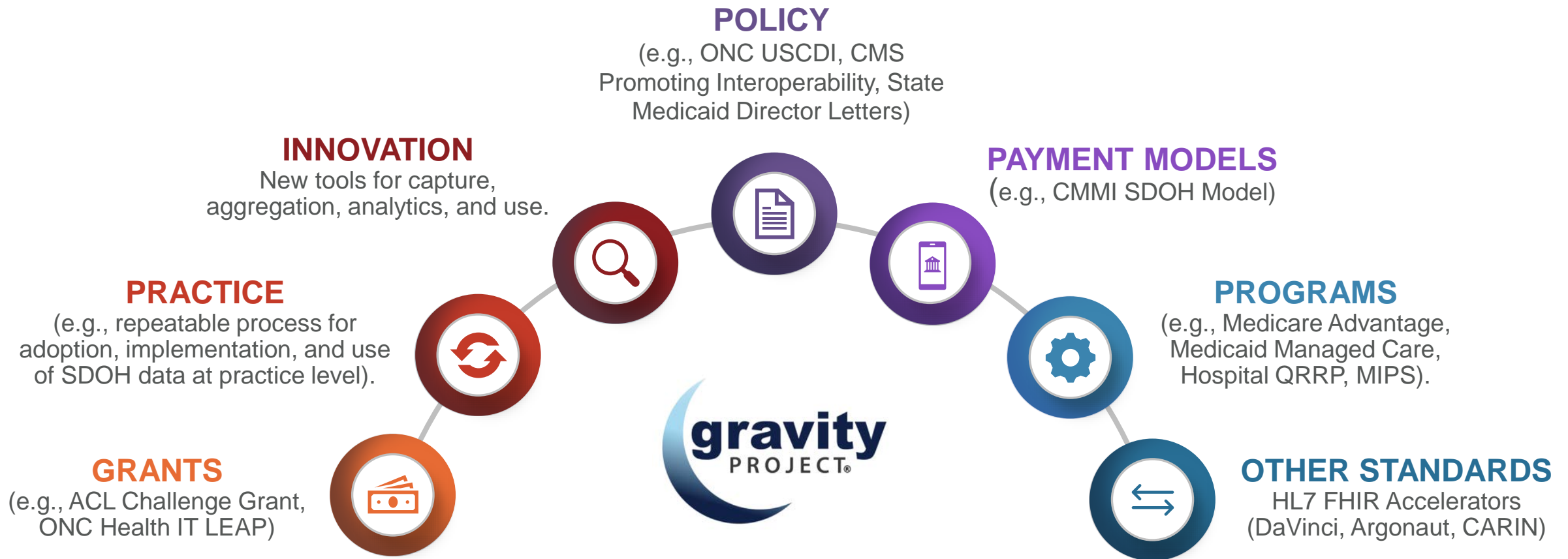




Accomplishments & Success Factors

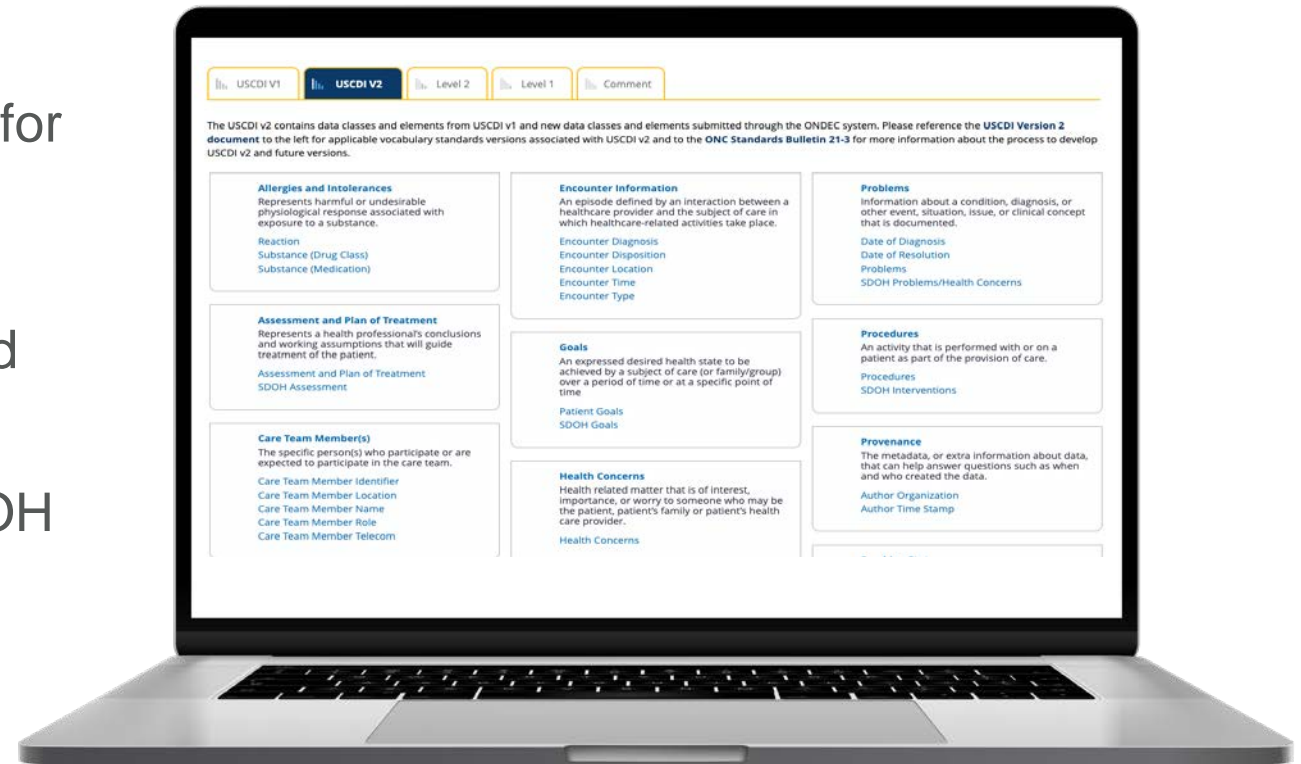


Success Factors— Integration of Data Standards Into...



Policy Integration: Gravity USCDIv2 Submission

- The Gravity Project formally made a submission to the ONC U.S. Core Data for Interoperability (USCDI) version 2 in October 2020.
- **On April 15, 2021**, HITAC approved and forwarded recommendation to ONC
- **On July 9, 2021** ONC included the SDOH data class in the USCDI V2 publication



<https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi#uscdi-v2>

Policy Integration: CMS State Health Official Letter

On January 7th, CMS released guidance for states on opportunities under Medicaid and CHIP to address SDOH.

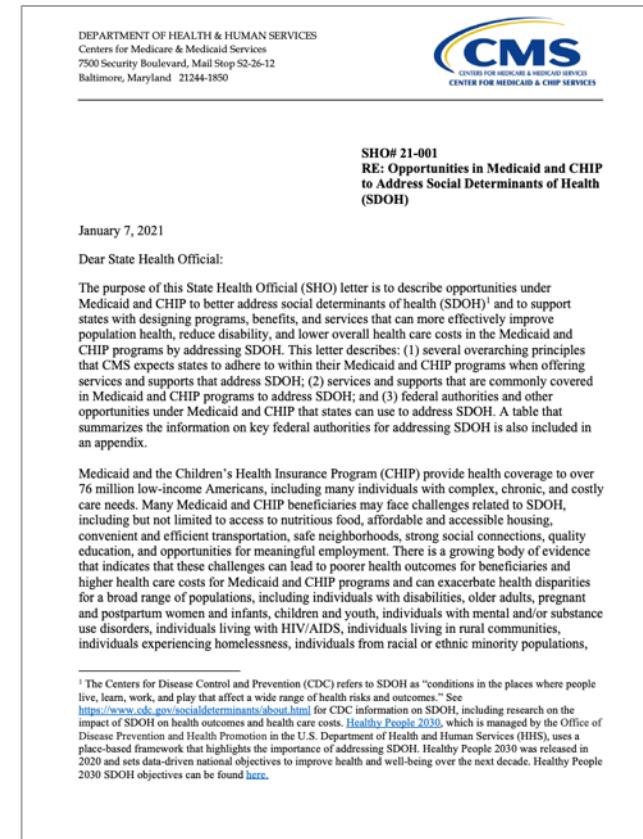
The guidance acknowledges that states can leverage Medicaid resources to support data integration and data sharing to assist state health systems to identify individuals with SDOH needs and link them to appropriate medical and social supports.

States are required to design technical infrastructure for Mechanized Claims Processing, Information Retrieval Systems, and care coordination hubs that are **interoperable** with human services programs, HIEs, and public health agencies, as applicable.

States must ensure alignment of the claims processing and IRS systems with CEHRT.

States are encouraged to review ISA SDOH standards and review and participate in the Gravity Project.

<https://www.medicaid.gov/federal-policy-guidance/downloads/sho21001.pdf>



Grants Integration: ACL Challenge Grant & ONC LEAP Grant

- Administration of Community Living (ACL) Social Care Challenge Grant:
 - Twelve (12) winners announced <https://acl.gov/programs/acl-announces-social-care-referrals-challenge-phase-1-awardees>
 - All 12 will demonstrate use of Gravity defined data elements
- ONC Leading Edge Acceleration Projects (LEAP) in Health IT Notice of Funding Opportunity: Referral Management to Address Social Determinants of Health Aligned with Clinical Care
 - Awarded to University of Texas at Austin on August 11, 2021; UT Austin will be incorporating Gravity Project uses cases for the collection of SDOH data
 - <https://www.healthit.gov/buzz-blog/interoperability/by-leaps-and-bounds-newest-round-of-awardees-seek-to-advance-health-equity-and-research>



Scaling to Public Health



Promoting Interoperability in Public Health

- Incorporate terminology and data exchange standards in **public health reporting requirements**
- Provide specific **technical guidance** for a public health agencies to use in their procurement specifications
- **Embed incentives** for adopting technology capable of sharing standards based SDOH information
- **Finance testing and piloting** of the terminology and data exchange standards with data sharing partners

Pronovost, P., M.M. E. John, S. Palmer, R.C. Bono et al. *Procuring Interoperability: Achieving High-Quality, Connected, and Person-Centered Care*. Washington, DC: National Academy of Medicine. www.nam.edu/interoperability

Questions?

Join the Gravity Project!

Learn More

<https://confluence.hl7.org/display/GRAV/Join+the+Gravity+Project>

- Public Collaborative Workgroup meets bi-weekly on Thursdays' 4:00 to 5:30 pm ET
- SDOH FHIR IG Workgroup s. 3:00 to 4:00 pm ET

- **Give us feedback on the Data Principles:**
<https://confluence.hl7.org/display/GRAV/Gravity+Data+Principles>
- **Submit SDOH domain data elements (especially for Interventions):**
<https://confluence.hl7.org/display/GRAV/Data+Element+Submission>

Help us with Gravity Education & Outreach

Use Social Media handles to share or tag us to relevant information

 [@thegravityproj](https://twitter.com/thegravityproj)

 <https://www.linkedin.com/company/gravity-project>



Help us find new sponsors and partners

Partner with us on development of blogs, manuscripts, dissemination materials



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