

Data Standardization Work Group (DSWG)

December 9, 2022



Council of State and Territorial Epidemiologists

Please mute phone/ headset/ computer audio!

Agenda

- Roll Call
- Updates on submission on the Best Practices document for Calculated Case Counting Date
- Approach to CSTE/CDC collaboration on case data element standardization
- Wrap-Up & Adjourn

Calculated Case Counting Date



Status update



- Best practices guidelines submitted for CSTE review!
 - SPIS Chair > S/I Chair

CSTE/CDC collaboration: Case data element standardization



Partnership for data standardization



- Opportunity for CSTE / DSWG / STLTs to partner with CDC on NNDSS Data Standardization and Harmonization efforts
- Process details to be worked out more fully as we move forward
- Will need to move through data elements/data classes at a more rapid pace than previous DSWG work
 - Subgroups? Off-line data collection or feedback?
 - Likely covering multiple data elements / classes simultaneously
 - Clarity via agenda & communications about what is covered when



```
mirror_mod = modifier_ob.mirror_mod
# Set mirror object to mirror
mirror_mod.mirror_object = mirror_ob

# operation == "MIRROR_X":
mirror_mod.use_x = True
mirror_mod.use_y = False
mirror_mod.use_z = False
# operation == "MIRROR_Y":
mirror_mod.use_x = False
mirror_mod.use_y = True
mirror_mod.use_z = False
# operation == "MIRROR_Z":
mirror_mod.use_x = False
mirror_mod.use_y = False
mirror_mod.use_z = True

# selection at the end -add
mirror_ob.select= 1
modifier_ob.select=1
context.scene.objects.active = mirror_ob
print("Selected" + str(modifier_ob.name))
mirror_ob.select = 0
mirror_ob = bpy.context.selected_objects[0]
data.objects[one.name].select = 1
print("please select exactly one object")

--- OPERATOR CLASSES ---

bpy.types.Operator(
    name="mirror_to_the_mirror",
    bl_idname="mirror_to_the_mirror",
    bl_label="Mirror to the mirror",
    bl_options={
        'REGISTER',
        'UNDO'
    },
    description="Mirror to the mirror"
)

def mirror_to_the_mirror(self, context):
    # Mirror to the mirror
    mirror_ob = bpy.context.selected_objects[0]
    mirror_mod = modifier_ob.mirror_mod
    mirror_mod.mirror_object = mirror_ob
    mirror_mod.use_x = True
    mirror_mod.use_y = False
    mirror_mod.use_z = False
    mirror_ob.select = 1
    modifier_ob.select = 1
    context.scene.objects.active = mirror_ob
    print("Selected" + str(modifier_ob.name))
    mirror_ob.select = 0
    mirror_ob = bpy.context.selected_objects[0]
    data.objects[one.name].select = 1
    print("please select exactly one object")

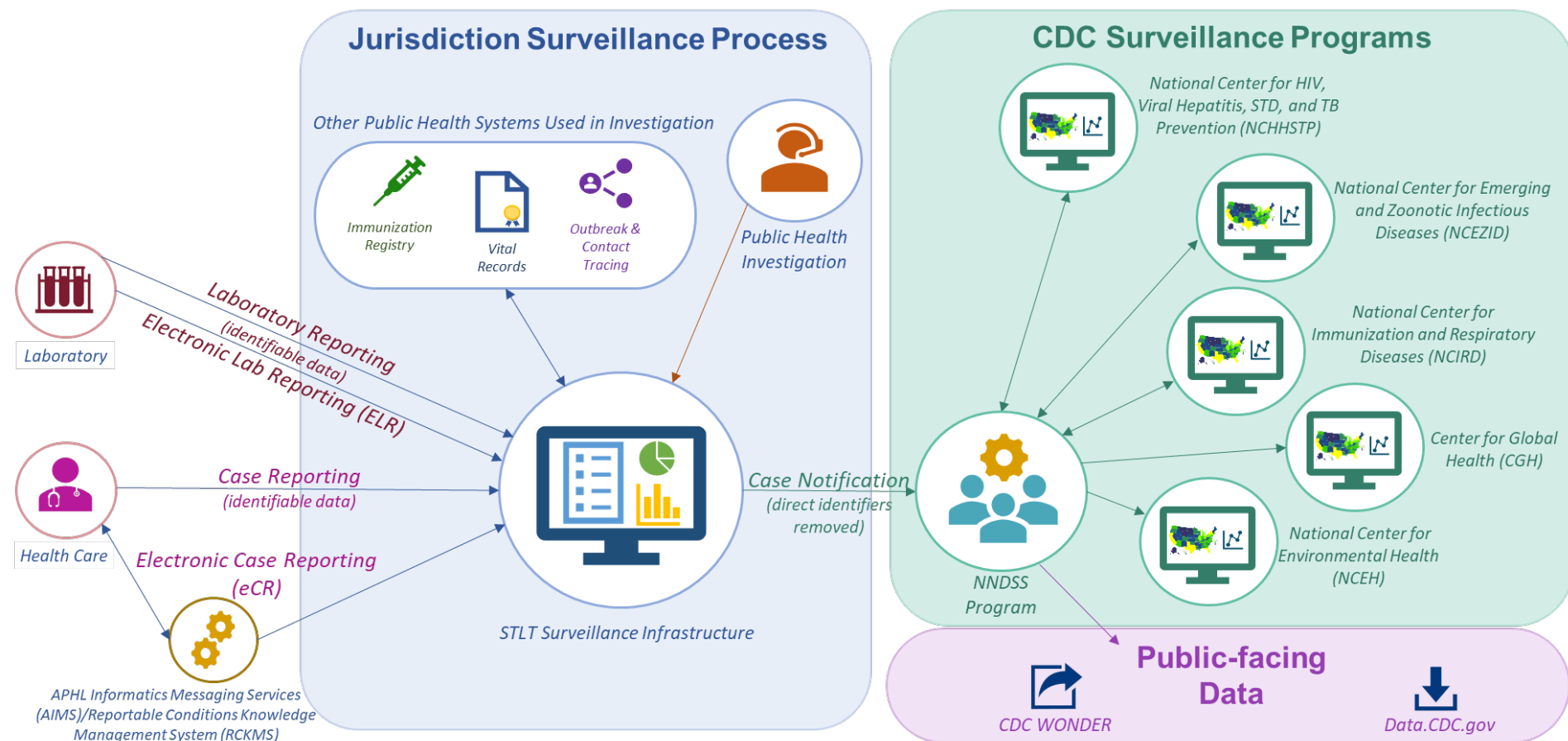
    return {'FINISHED'}
```

Data Standardization is the Key

For systems to talk to each other
and share automated services,
they must speak the same language.

- Sharing case surveillance data between systems is often cumbersome to set up and could be more efficient. **Data standardization** is one component in the Data Modernization Initiative.
- Our data standardization process needs to span the **full case surveillance ecosystem**, from initial reports (primarily health care and lab) and sources of information during investigation, to case notification to CDC.

Case Surveillance Data Flow



This case data standardization effort will:



- Create standards for data across the case surveillance ecosystem
- Impact and benefit jurisdiction surveillance systems and processes, including inter-jurisdictional sharing/transfer of case data (e.g., local to state, or state to state)
- Coordinate with the CDC emergency response case data element project
- Inform the new data dictionary for case notification to CDC

- CSTE DSWG is an important part of the process
- DSWG will bring together jurisdictions, CDC programs, and other SMEs to discuss and make recommendations on standardization of data elements
- Review specific data elements or data classes and provide recommendations
 - Could be done through focused subgroups
- Phased approach, with groups of data elements passed from DSWG to Subcommittee/Committee for endorsement

What would you like to see presented for each data element or data class to begin the discussions?

- How it is represented in other standards (eCR, ELR, VXU)
- Related data elements in U.S. Core Data for Interoperability (USCDI) & USCDI+
- Other standardization work completed or ongoing
- How it is represented across case notification message mapping guides (MMGs)
- Feedback already received
- Other?

Prioritizing Data Elements to Work On



Factors to consider:

- ☐ Considered core data, maybe already standard across conditions
 - May incorporate results of the case data for emergency response project
- ☐ Very common across conditions (although may not be standardized across conditions)
- ☐ Other standardization work is going on
 - + Well established standard exists
 - Standards work underway will inform our action (may want to wait)
- ☐ Pain points for jurisdictions or CDC
- ☐ Simplicity – what can we make progress on in the shorter term?
- ☐ Data that results in public health action, importance of the data
- ☐ Others?

Potential Data Elements / Data Classes



Various aspects to standardize across these data classes – e.g., questions and value sets, vs. how data are collected/stored in surveillance system.

- Health Equity/Social Determinants of Health (SDOH)
- Sexual Orientation and Gender Identity (SOGI)
- Pregnancy
- Tribal affiliation
- Race/ethnicity
- Disability
- Industry and occupation
- Travel
- Hospitalization
- Underlying conditions, exposures, and risk factors
- Signs and symptoms/clinical manifestation
- Laboratory observations
- Immunization history
- Medications
- Reporting source & information source
- Case identifiers, including CDC emergency response case ID
- Lab identifiers (to link case and lab data)
- Other, specify

For 17 data elements/data classes, respond if you agree, disagree, or are neutral to each of these statements:

- This data element or data class is **already standardized across conditions in my system.**
- This data element or data class should be standardized because it is **common across many conditions.**
- This data element or data class should be standardized because it is a **pain point for my public health agency.**
- This data element or data class should be standardized because it is **used or should be used for public health action.**
- This data element or data class should be **relatively easy to standardize across case surveillance.**

What's next?



- Join our WG: last Friday of each month at 1pm EDT
 - No additional December meetings
 - Meetings will resume regular cadence on January 27, 2023
- Begin discussions of initial data elements selected