

INTERNATIONAL TIGER TEAM

NBAC Face-to-Face Update (2018)

Kamran Atri
NBAC Co-Chair

Thomas Krul
Public Safety Canada



BACKGROUND

The **NBAC International Tiger Team** launched in late 2016 with an overarching goal of expanding the utility of NIEM Program to a larger global audience.

2016-2017

- Refinements to US-centric terms/definitions in Core
- 4.0 and 4.1 inputs to both core and domain models
- 2017 F2F Alignment / NTAC Issue Review

2018-2019

- Kick-off May 2018
- Initiate translation effort (Canada)
- Continued attribute identification (300+ global operations)
- Design concepts, governance, and impacts on model architecture and engineering

2018 FOCUS AREAS



1. **Data Model Management** – The earliest and still central priority of the tiger team was the review and alignment of both Core and Domain data models with a more International Program focus. This will continue with the identification and review of existing, new or emerging data sets, exchange models, IEPDs or other attribute sources that may yield new, unique attributes that support international exchange.
2. **Translation (Pilot Projects)** – Canada's early translation efforts have kicked off an exciting phase for the NIEM Program that will continue to build upon incremental results. Working with NTAC, the tiger team will seek to develop a step-by-step process roadmap for best practices translation efforts that country users can easily adapt to their own translation requirements
3. **Emerging Priorities** – This is a community efforts and we are open to new topics, ideas and project areas that support making NIEM more accessible, useful and connected for the International user community. Topics can be put forth during our recurring meetings or between sessions by directly contacting tiger team co-chairs.

DATA MODEL MANAGEMENT

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- Attribute Identification
 - Stakeholder Engagement
 - Future Business Direction
- Review, Mapping and Harmonization
 - Cross Domain Consideration
 - Alignment with GTRI and release process



Initial **2018 effort** has yielded 200-250 new to NIEM attributes with global operational scope. GTRI initial review conducted, packaging underway for formal submission and review and inclusion in NIEM 4.2 release (with International tag)



**CENTERS FOR DISEASE™
CONTROL AND PREVENTION**

PRACTICAL APPLICATION :



Nikolay Lipskiy

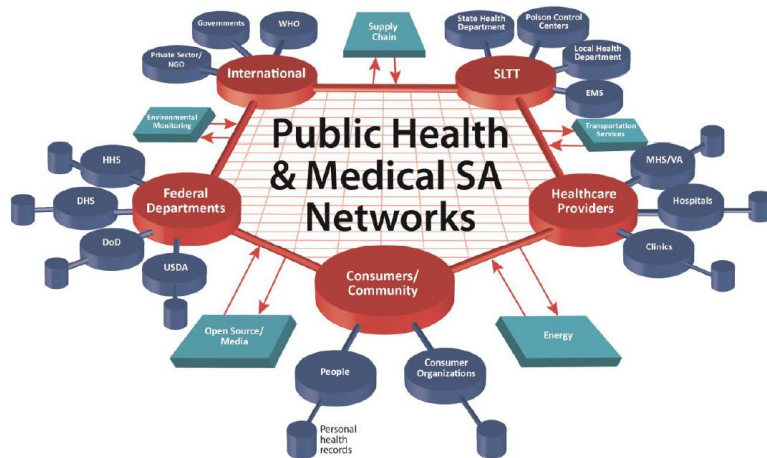
dgz1@cdc.gov

PRACTICAL APPLICATION - CDC

Global Data Model Rationalization and Alignment – CDC PH Emergency Operations Center



- USA Centers for Disease Control and Prevention (CDC) is currently working with countries around the globe to help meet the goals of the International Health Regulations (IHR).
- CDC's global programs address over 400 diseases, health threats, and conditions that are major causes of death, disease, and disability.
- The CDC Public Health Emergency Operations Center (PH EOC) – a place where highly trained experts monitor information, prepare for known (and unknown) public health events, and gather in the event of an emergency to exchange information and make decisions quickly.

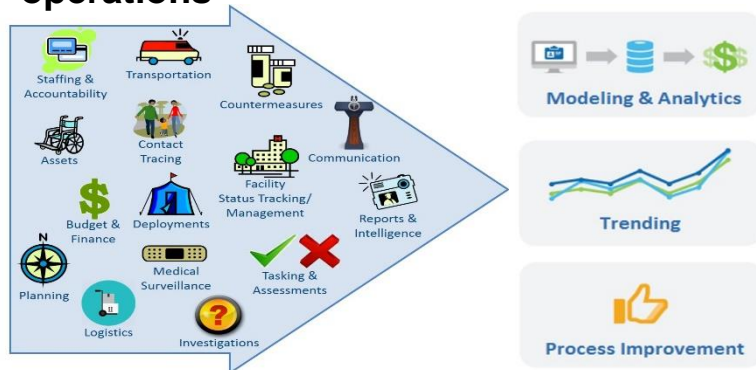


- CDC PH EOC collect information from international and national collaborators for developing PH Situational Awareness (SA) and leading PH emergency preparedness operations
- In order to act fast and efficient the CDC PH EOC develops tools and solutions for information management that allow to succeed in working with Big Data.
- The one of the applied solutions for data management and utilization is development of the PH Emergency Preparedness and Response Common Information Exchange Reference Model (CIERM) and it's alignment with global and national data models.

PRACTICAL APPLICATION - CDC

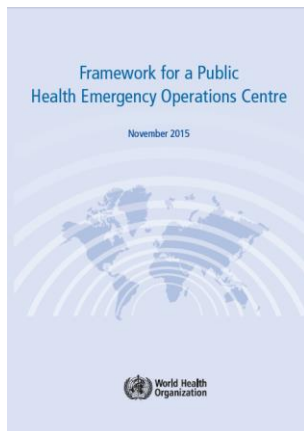
Global Data Model Rationalization and Alignment – CDC PH Emergency Operations Center

The PH Emergency Preparedness and Response Common Information Exchange Reference Model (PH EPR CIERM) allows to manage a broad scope of information used in PH EOC daily operations



The PH EPR CIERM focused on alignment existing international and national models in a scope PH PRR information domain

Examples of models for alignment



2015 WHO EOC-NET Framework' model

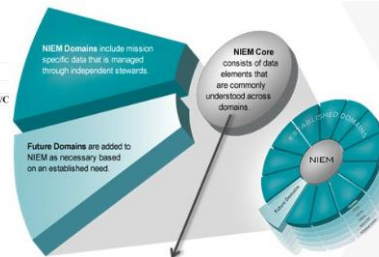


89724-9 Minimum Data Set (MDS) for Public Health Emergency Operations Centers (EOC) [CDC Emergency Operations Centers]

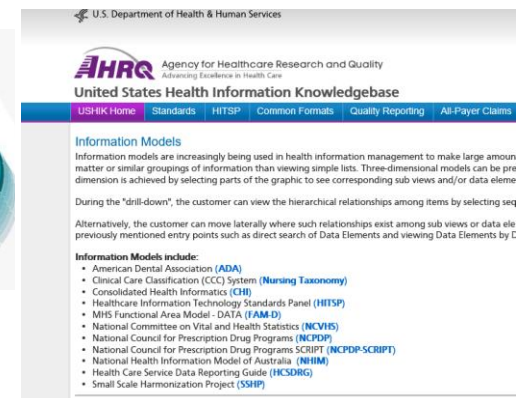
PANEL HIERARCHY

LOINC#	LOINC Name	R/O/C
89724-9	Minimum Data Set (MDS) for Public Health Emergency Operations Centers [EOC] [CDC Emergency Operations Centers]	
89724-4	Managing and commanding [CDC Emergency Operations Centers]	
89724-6	Decisions and approvals [CDC Emergency Operations Centers]	
89724-8	Activate and deactivate decision [CDC Emergency Operations Centers]	
89724-1	Event identifier	
89724-2	Event activation or deactivation	
89724-3	Event description	
89724-4	Condition triggering EOC response activation	
89724-5	Condition triggering EOC response termination	

Logical Observation Identifiers Names and Codes (LOINC) model



NIEM model



And many, many more models...



Public Safety
Canada

Sécurité publique
Canada

TRANSLATION INITIATIVE :

Thomas Krul

thomas.krul@canada.ca





TRANSLATION INITIATIVE Canada

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1. Translation Initiative

- Document drafted: enumerating all required translation (components, definitions, type of property, etc.).
- This will inform costing and effort required.
- Subject matter experts have been volunteered/identified – will ensure translated terminology is appropriate and not just a direct translation.
- Document drafted: Tracking issues and Best Practices for translation.

2. NTAC Alignment and Technical Considerations

3. Other Pilots Possibilities – Japan, Germany

EMERGING PRIORITIES

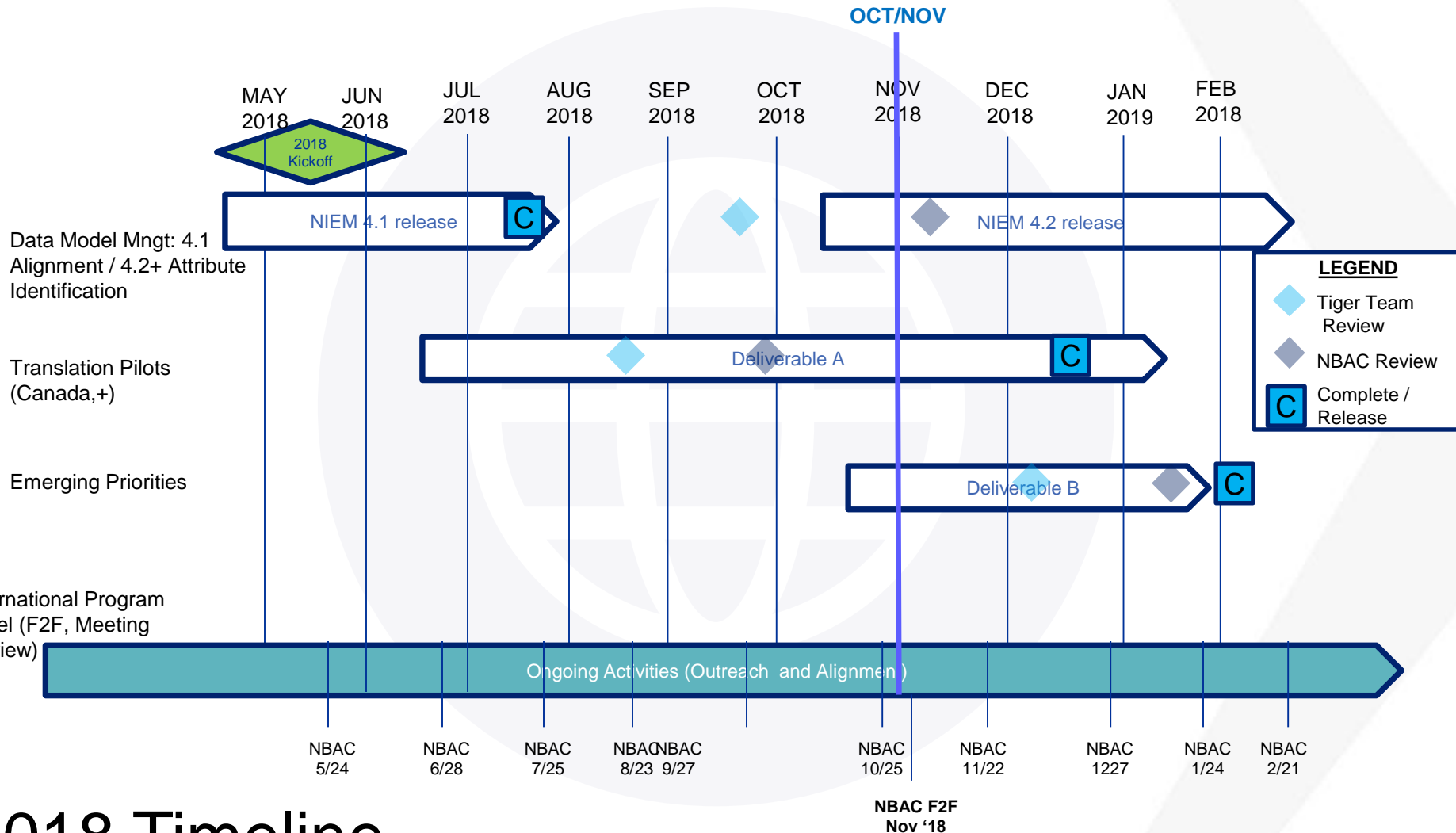
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- NTAC Request For Requirements from NBAC Tiger Teams requires engagement with International Tiger Team member and larger communities and stakeholders
- TBD – emergent requirements, requests for technical assistance, training or outreach on recurring or ad hoc basis.

LET US KNOW WHAT YOU NEED



NBAC INT'L TT 2018 TIMELINE



2018 Timeline

Includes Planned Initiatives and TT Review/Release Schedule

INT'L TT NEXT STEPS

- **Face-to-Face Follow On**
 - Verify Community Requirements
 - Formalize Deliverables
 - Roadmap Transitional Efforts
- **Engagement and Execution**
 - Ensure community alignment with 4.2 Release Planning and Development
 - Develop NBAC/NTAC guidance on international implementation and development issues
 - Maintaining primary NIEM tenants (extensibility, scalability, etc.) in all efforts
 - Developing frameworks, tools and processes to ensure repeatability
 - Develop sound requirements from International stakeholders



JOIN US

As part of the NIEM International effort, we are all committed to increasing the utility of NIEM for a broad and diverse audience. Identify stakeholders that impact your international exchange requirements and plans and invite them to participate.

- *Unique Attributes*
- *Existing Data Models & Exchanges*
- *Stakeholders & Exchange Partners*

For More Information on NIEM International Tiger Team, please contact the International TT Co-Chairs:

Thomas Krul, Director, Public Safety Canada
thomas.krul@canada.ca

Kamran Atri, Managing Director
NIEM Business Architecture Committee (NBAC) Co-Chair
katri@A4SAFE.COM