

**NIEM**

NATIONAL INFORMATION EXCHANGE MODEL

NIEM Business Architecture Committee (NBAC)  
ANNUAL MEETING  
14–18 September 2020

NIEM Business Architecture Committee (NBAC)

ANNUAL MEETING

14–18 September

Daily Morning & Afternoon Sessions

All Morning Sessions 10 a.m.–12 noon EDT      All Afternoon Sessions 1–3 p.m. EDT

Monday 14 September

Morning session

Advancing NIEM Adoption

Afternoon session

State, Local & Tribal Tiger Team

Tuesday 15 September

Morning session

Supporting Domain Growth

Afternoon session

Emerging Technologies Tiger Team

Wednesday 16 September

Morning session

Improving NIEM Implementations

Afternoon session

International Tiger Team

Thursday 17 September

Morning session

NIEM Release Planning

Afternoon session

NBAC/NTAC Joint Collaboration

Friday 18 September

Morning session

NIEM 2021 Priority Planning

Afternoon session

2020 Meeting Wrap-up



JOIN US!

SESSIONS ARE FREE

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# VIRTUAL ANNUAL MEETING (NBAC)

15 September 2020 → 1-3PM

## Emerging Technology Alignment

Jalal Mapar

NBAC ET3 Chair

Director, DHS S&T

jalal.mapar@hq.dhs.gov



S&T

# SPEAKERS & RULES OF THE ROAD

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- Speakers

- Primary Facilitator
    - Jalal Mapar



**S&T**



- Support Facilitator
    - Lain McNeill



- Guest Speaker
    - Syed Mohammad, Ph.D.



**S&T**



- Session:

- Emerging Technology Alignment

- Keep in mind:

- Sessions will be recorded and may be used for training and communications purposes.
  - Ask questions in chat anytime
    - To pose a question by voice, “Raise Your Hand” & wait for the facilitator to call on you
  - This session’s briefings are available on Github for download
  - Post Session follow-up and engagement also encouraged

# SESSION OBJECTIVES

- Current Status aka The BIG Picture
- ET3 Approach
- 2020/2021 Timeline
- COVID Impact & Recovery Plan (2021 Implications)
- Guest Speaker: Dr. Syed Mohammed
- Session Q&A / Discussion
- ET3 Action Items
- Closing Remarks



# **EMERGING TECHNOLOGIES & NIEM**

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## **The Big Picture**

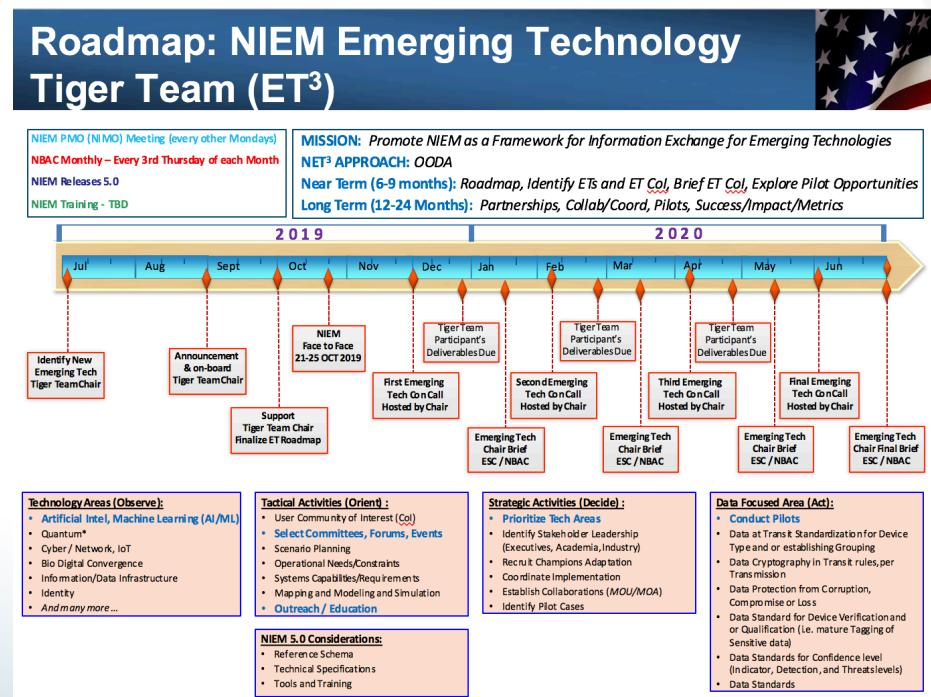
ET3 Impetus: Escalated technology development and adoption within public/private sector. Desire to establish NIEM as framework for information exchange with Emerging Technologies arenas.

- Technologies: AI/ML, IoT, Quantum, Identity
- Rationale: Projects impacts to NIEM data model and potentially NDR, requires cross-domain alignment, possibly new domains
- Progress: Mixed relative to technologies and COVID impact (see timeline/next steps)

# EMERGING TECHNOLOGIES & NIEM

## Approach

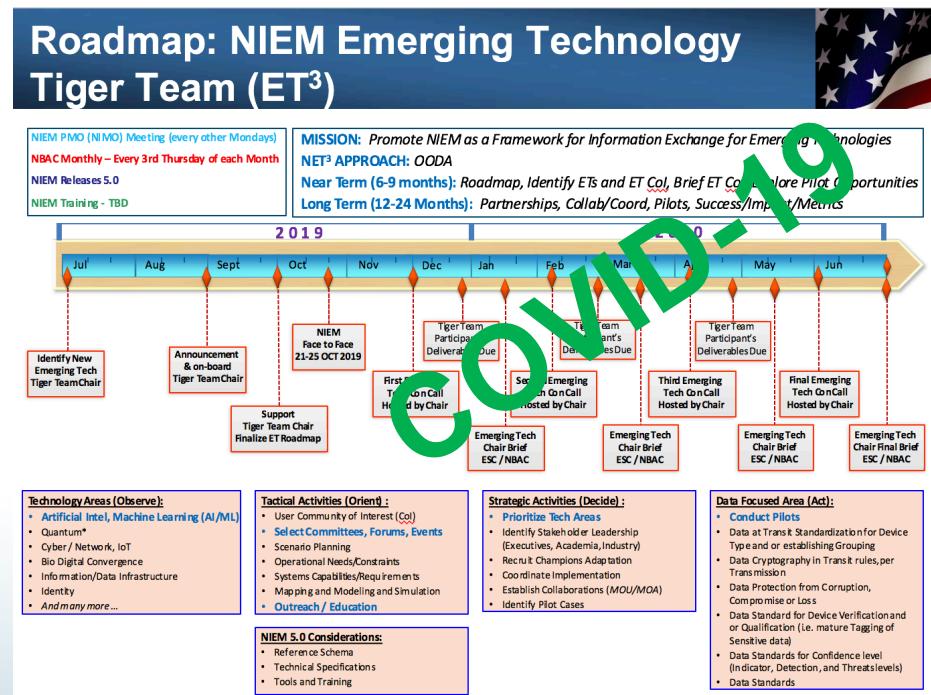
- Observe. Orient. Decide. Action. (OODA)
- Roadmap 2019/2020 Planned Activities



# EMERGING TECHNOLOGIES & NIEM

## Approach

- Observe. Orient. Decide. Action. (OODA)
- Roadmap 2019/2020 Planned Activities



# **EMERGING TECHNOLOGIES & NIEM**

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## **COVID-19 Impact**

### **Impact:**

- COVID-19 necessitated room to re-learn for our operational partners
- Budgets, manpower and facilities resources were all impacted
- Timing impact ~3-4 months

### **Recovery Plan and 2021 Operational/Strategic**

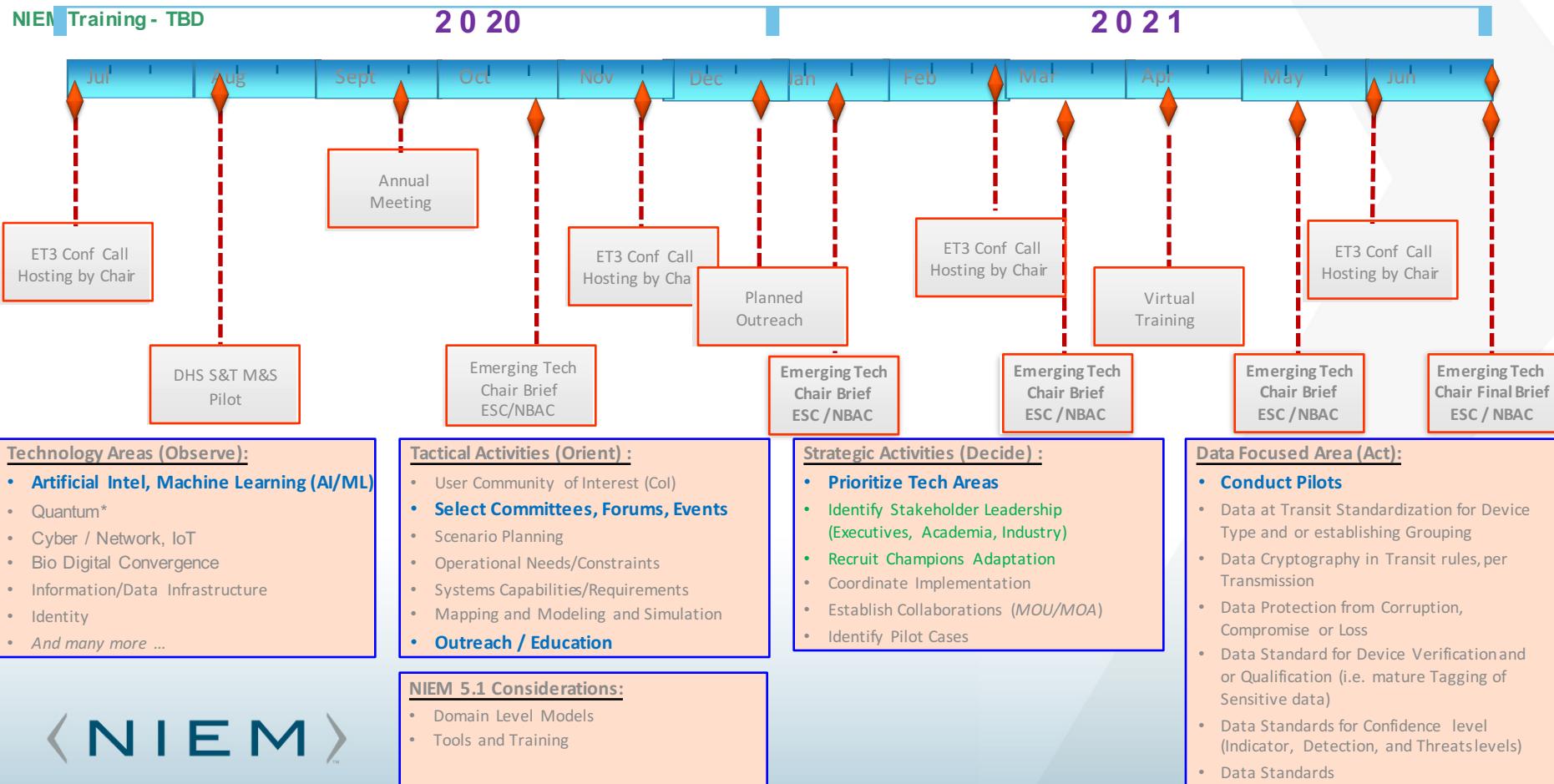
#### **Implications:**

- Provide Technical Assistance and Training
- Proactive Engagement and Outreach into 2021
- Emphasis on pilots and grassroots efforts

# EMERGING TECHNOLOGIES & NIEM

## 2020 – 2021 (Revised) Roadmap

NIEM PMO (NIMO) Meeting (every other Mondays)	<b>MISSION:</b> Promote NIEM as a Framework for Information Exchange for Emerging Technologies <b>ET<sup>3</sup> APPROACH:</b> OODA <b>Near Term (6-9 months):</b> Roadmap, (Revised), Expand ET Col, Engage, Expand Pilot Opportunities <b>Long Term (12-24 Months):</b> Partnerships, Collab/Coord, Pilots, Success/Impact/Metrics
NBAC Monthly – Every 3rd Thursday of each Month	
NIEM Releases 5.0 (complete) 5.1 incremental	



# **EMERGING TECHNOLOGIES & NIEM**

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## **2020-2021 Strategic Direction & Action Items**

- Outreach & Engagement
  - Technology / Information Sharing Champions
- Foundational Alignment
  - Standards Development Organizations
- Discrete Deliverables
  - NTAC hot list / Cross-Domain Issue Mapping / Impact Assessments

# GUEST SPEAKER

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Dr. Syed Mohammad, Director



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- U.S. Department of Homeland Security, Modeling and Simulation Technology Center
- AI utilization within Modeling and Simulation (Demo)

# Q&A

# ACTION ITEMS RECAP

- Process (OODA)
- Engagement
  - Within NIEM (Cross-Domain)
  - Col Leaders/Champions
  - Outreach, Training, Demos, Community
- Alignment (Developing Standards)
- Impact (Issue Management/Domain and NBAC-level Deliverables)

# CLOSING REMARKS

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- The Pace of development is extraordinary
- The Players are diverse and politicized
- Societal Concerns must be acknowledged or addressed
- Requires cross-domain collaborative effort
- Potential Data Model and Domain Impact

# ENABLING THE CONNECTED FUTURE NOW



AI



Quantum



IoT



Bio Digital



Identity



# ENABLING THE CONNECTED FUTURE NOW



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S&T



Lain McNeill  
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# Annual Meeting Overview

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## (14-18 September)

NBAC Session	Event Date/Time	Topic	Primary Facilitator(s)	Support Facilitator(s)	Guest Speaker(s)
1	Monday, 14 SEP 10 - 12 AM	Advance NIEM Adoption	Kamran Atri	Thomas Krul	Kshemendra Paul
2	Monday, 14 SEP 1 - 3 PM	State, Local, Tribal Tiger Team	Cait Ryan / Tom Carlson	Thomas Krul	Eric Sweden (NASCIO)
3	Tuesday, 15 SEP 10 - 12 AM	Support Domain Growth	Kamran Atri	Thomas Krul	Brian Gattoni (DHS CISA CTO)
4	Tuesday, 15 SEP 1 - 3 PM	Emerging Technologies Tiger Team	Jalal Mapar	Lain McNeill	Syed Mohammed
5	Wednesday, 16 SEP 10 - 12 AM	Improve NIEM Implementation	Thomas Krul	Kamran Atri	Dr. Paul Flynn (JNKE)
6	Wednesday, 16 SEP 1- 3 PM	International Tiger Team	Thomas Krul	Kamran Atri	Jon Kirk, Patrick Lagioia & Poewan Lau
7	Thursday, 17 SEP 10 - 12 AM	NIEM Release Planning	Christina Medlin	Web Roberts	N/A - Working Session
8	Thursday, 17 SEP 1- 3 PM	NBAC/NTAC Collaboration Planning	Kamran Atri / Webb Roberts	Thomas Krul / Dr. Scott Renner	N/A - Working Session
9	Friday, 18 SEP 10 - 12 AM	NIEM 2021 Priority Planning	Katherine Esobar	Stephen Sullivan	Stuart Whitehead
10	Friday, 18 SEP 12 -12:15 PM	WRAP-UP/Adjourn	Kamran Atri / Thomas Krul	Stephen Sullivan	N/A