

National Cybersecurity Center of Excellence

Energy Provider Community (EPC) Update

11/13/2018

> Agenda

- **Welcome and Introductions**
- **Energy Sector Asset Management (ESAM) Project Update**
- **NCCoE Events**
- **Questions, Open Discussion**

> OT Asset Management Attributes

Asset Discovery:

- establishment of a full baseline of physical and logical locations of assets

Asset Identification:

- capture of asset attributes, such as manufacturer, model, operating system (OS), Internet Protocol (IP) addresses, Media Access Control (MAC) addresses, protocols, patch-level information, and firmware versions

Asset Visibility:

- continuous identification of newly connected or disconnected devices, and IP (routable and non-routable) and serial connections to other devices

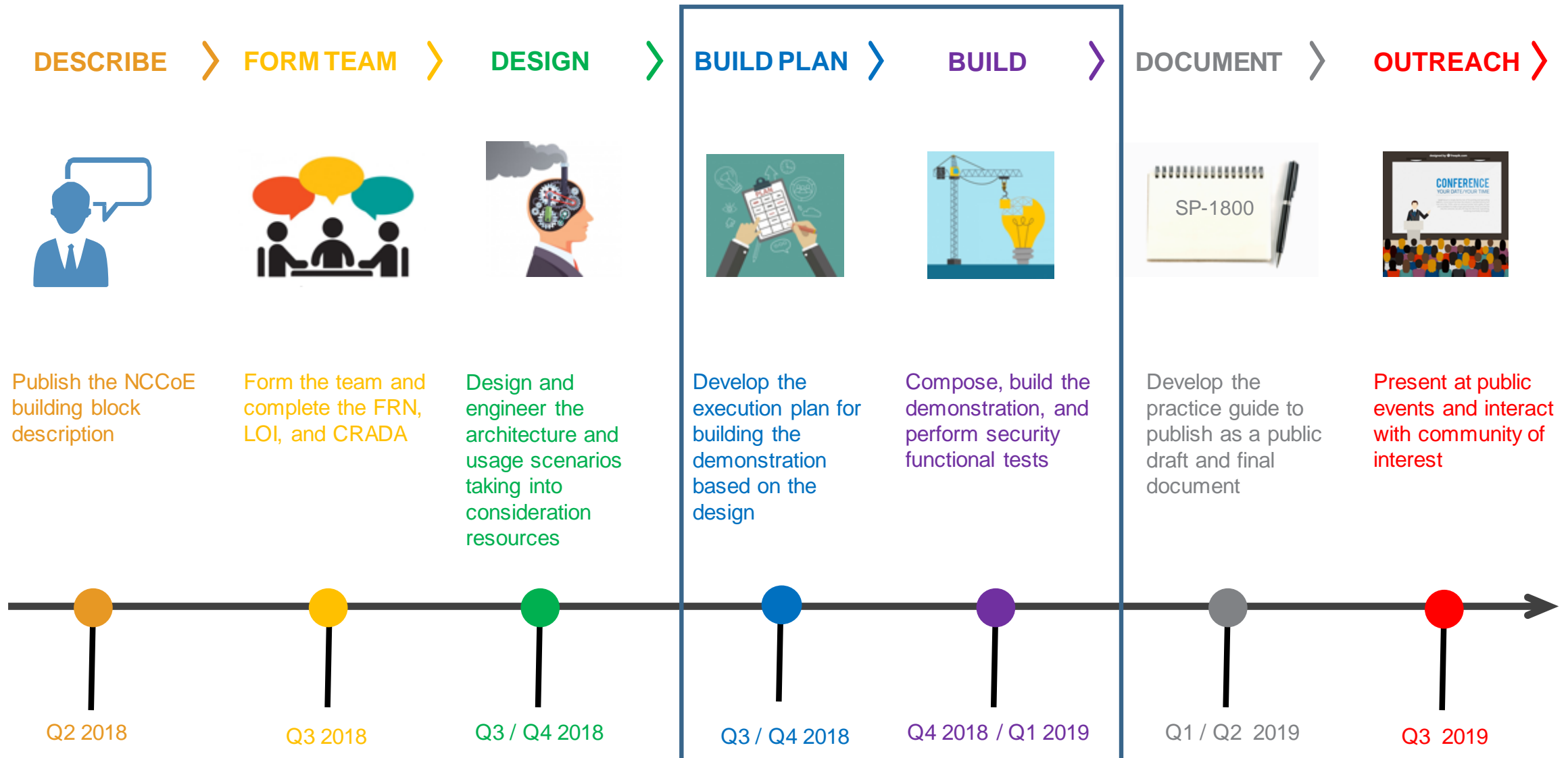
Asset Disposition:

- the level of criticality (high, medium, or low) of a particular asset, its relation to other assets within the OT network, and its communication (to include serial) with other devices

Alerting Capabilities:

- detection of a deviation from the expected operation of assets

> ESAM Project Execution Timeline



> NCCoE ESAM Team: Contacts / Roles

Jim McCarthy	NIST/NCCoE – Principle Investigator	James.McCarthy@NIST.gov
Michael Powell	NIST/NCCoE – Project Engineer	Michael.Powell@NIST.gov
Titilayo Ogunyale	MITRE/NCCoE – Project Lead	TOgunyale@MITRE.org
John Wiltberger	MITRE/NCCoE – Lead Project Engineer	JWiltberger@MITRE.org
Devin Wynne	MITRE/NCCoE – Project Engineer	DWynne@MITRE.org
Lauren Acierto	MITRE/NCCoE – Outreach & Engagement	LAcierto@MITRE.org
Nikolas Urlab	MITRE/NCCoE – Project Engineer	NUrlab@MITRE.org

> ESAM Build Team

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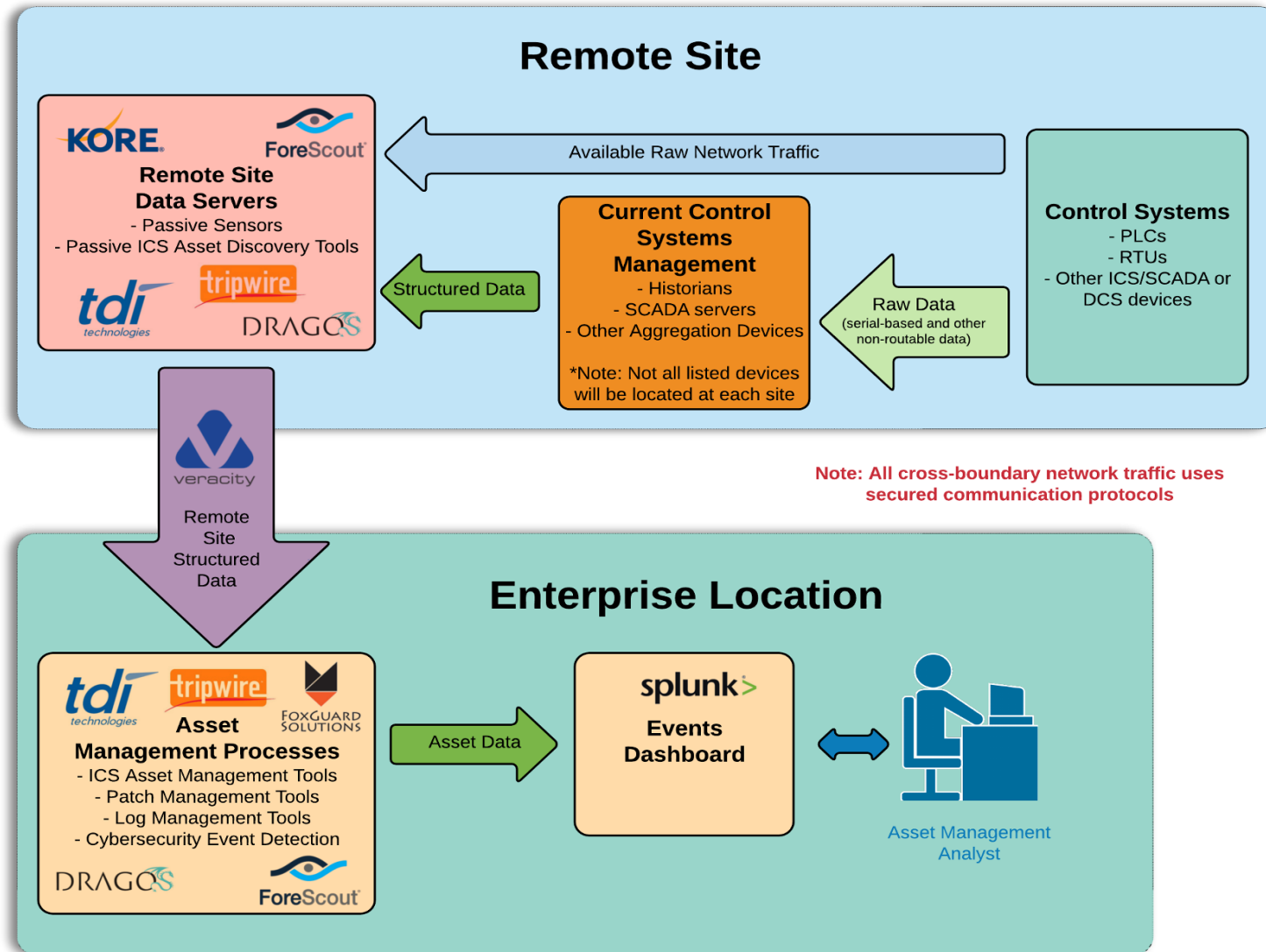
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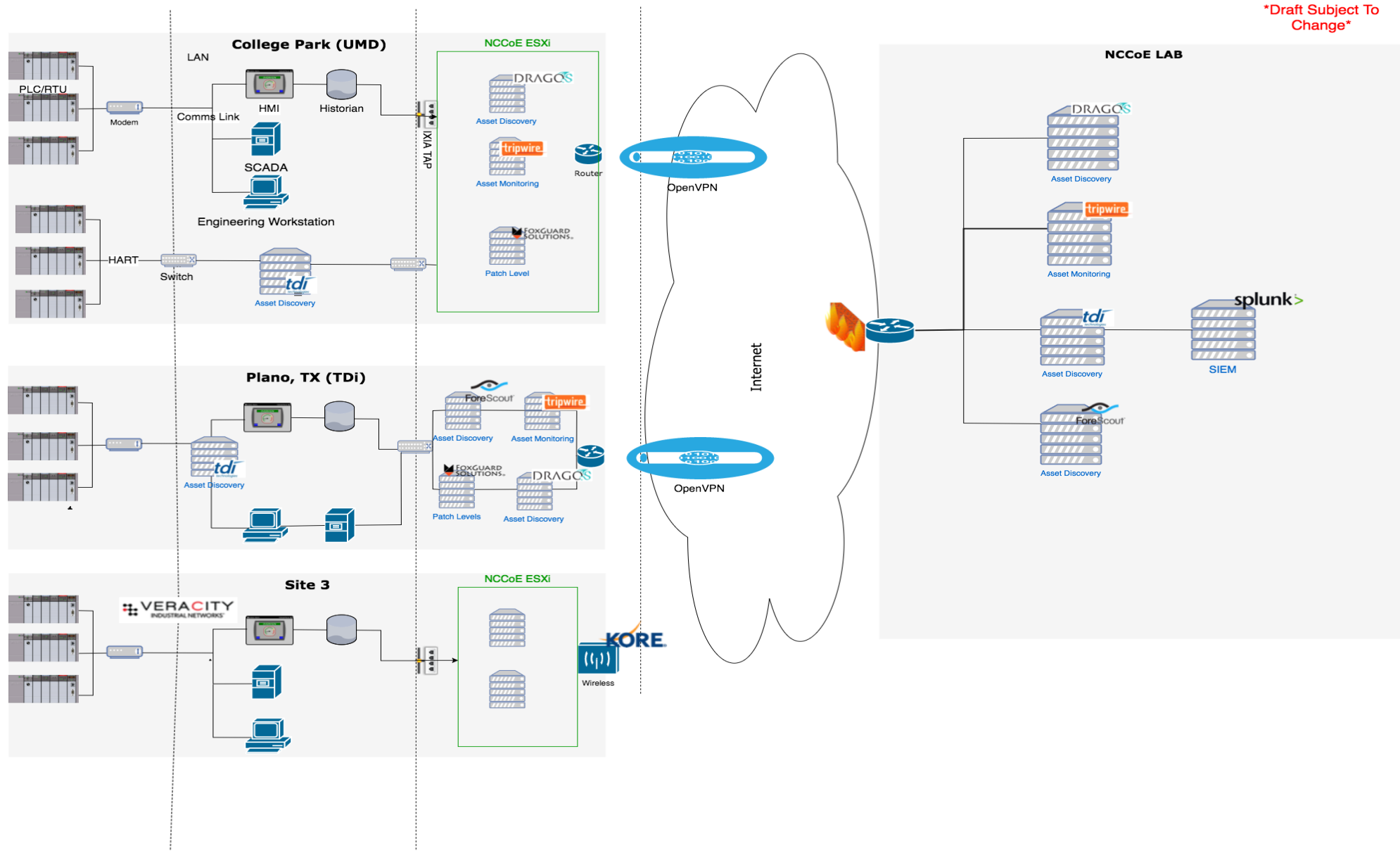
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MARYLAND

VERACITY
INDUSTRIAL NETWORKS

> ESAM Flow Diagram



> ESAM Build Architecture to Date



> Energy Sector Recap of Previous Events

- **GridSecCon 2018 – Training Session (4 Hours)**
 - October 16, 2018, Las Vegas, NV
 - Presentations from NCCoE, UMD, PNNL, & TDi Technologies
 - IIoT Panel Discussion
- **National Cybersecurity Awareness Month – IIoT Webinar**
 - October 23, 2018, 3:00-4:00pm (ET)
 - *Energy Sector and IIoT challenges discussion in collaboration with BlackRidge Technologies*

> NCCoE Energy Sector Upcoming Activities

Smart Grid Interoperability Framework and Cybersecurity Workshop

November 13-14, 2018 at the NCCoE

Free & Open to the Public ; Presentations will be posted after the workshop

The workshop's purpose is to get stakeholder input to help shape NIST's characterization of smart grid cybersecurity risks, solutions, and gaps. These conversations will revolve around four key topics:

- The role of interoperability in grid modernization;
- Cybersecurity risk profiles for smart grids and services;
- Securing novel communications methodologies; and
- Learning from other industries.

<https://www.nist.gov/news-events/events/2018/11/smart-grid-interoperability-framework-and-cybersecurity-workshop>

> Contact Us



Jim McCarthy, Senior Security Engineer

Energy Sector Lead

James.McCarthy@nist.gov

301-975-0228

Titilayo Ogunyale

Energy Project Lead

Togunyale@mitre.org

301-975-0219



<http://nccoe.nist.gov>



301-975-0200



nccoe@nist.gov