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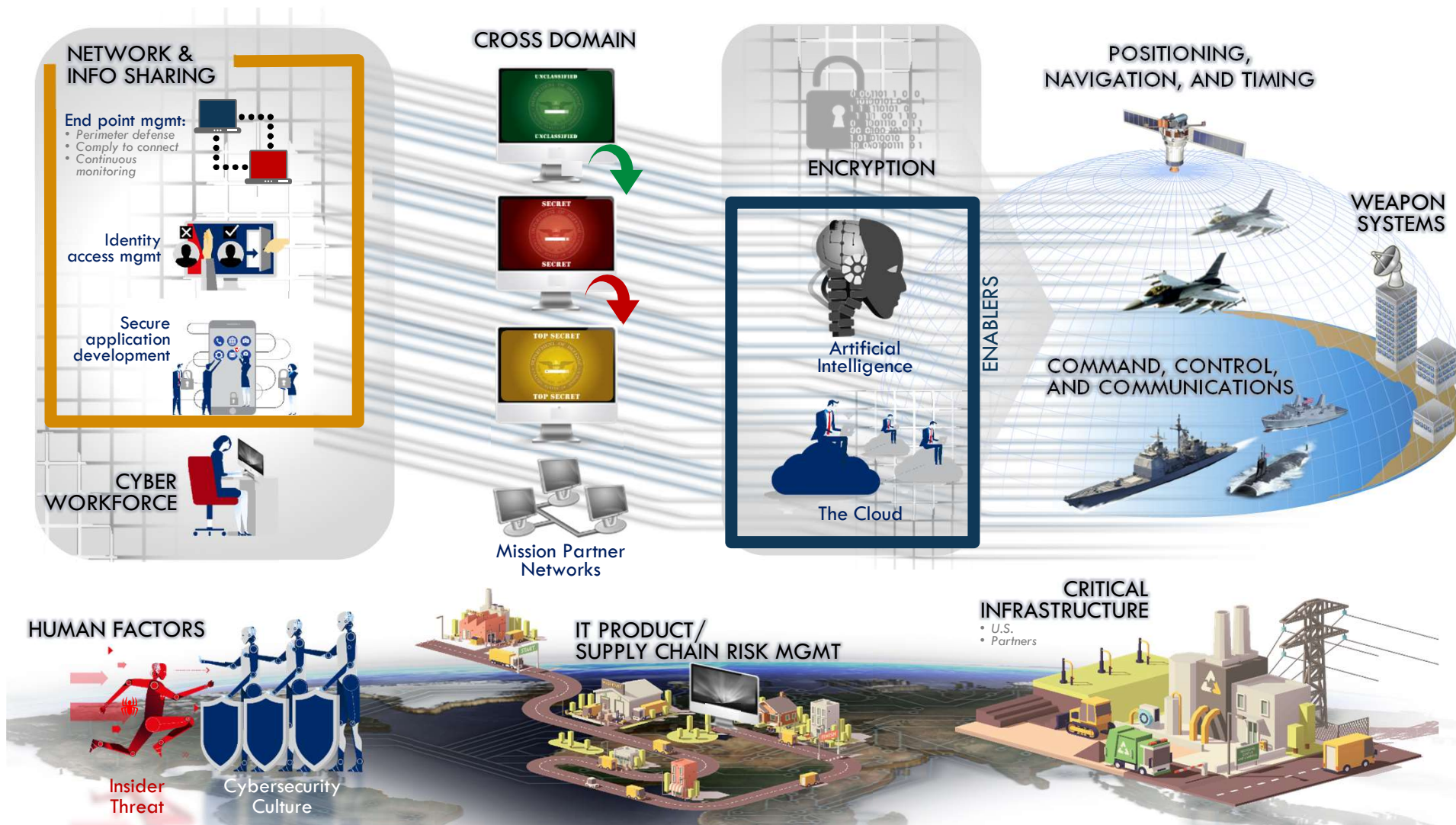


Securing the Supply Chain

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What is the DoD Supply Chain



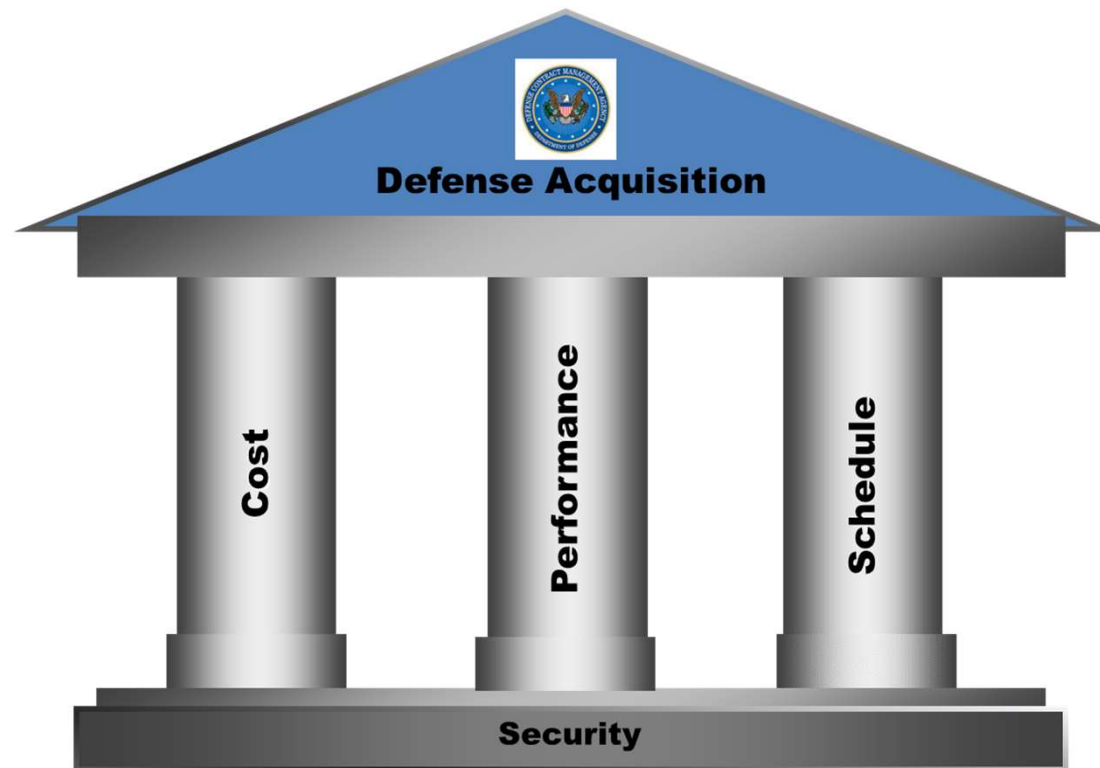
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We need to make Security the Foundation We need to Deliver Uncompromised



Cost, Schedule, Performance
ARE ONLY EFFECTIVE IN A SECURE ENVIRONMENT



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Delivered Uncompromised by Mitre



5 Key Structural Challenges

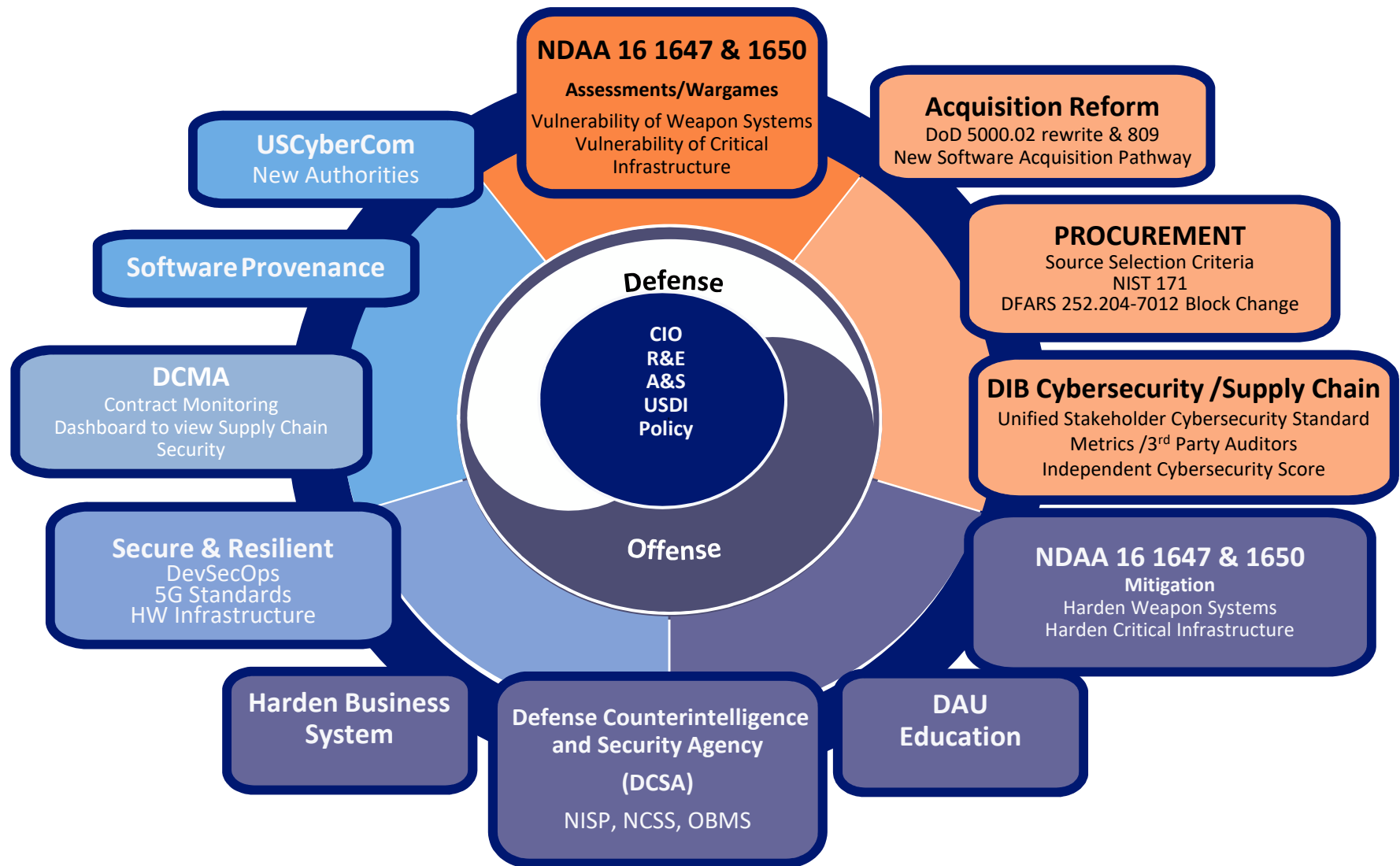
15 Recommended Courses of Action

“We need risk management solutions to assess, measure, and mitigate risk in real-time across multi-tier partner and supplier networks to achieve our goal of cost, schedule and performance, as they are only effective in a secure environment.” The Honorable Kevin Fahey, Assistant Secretary of Defense for Acquisition

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Securing the DoD Acquisition Ecosystem



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Cybersecurity Maturity Model Certification (CMMC)



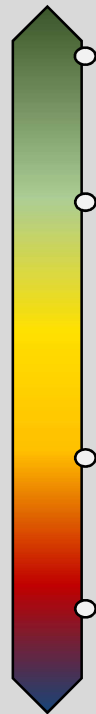
- The DoD is working with John Hopkins University Applied Physics Laboratory (APL) and Carnegie Mellon University Software Engineering Institute (SEI) to review and combine various cybersecurity standards into one unified standard for cybersecurity.
- The new standard and maturity model will be named Cybersecurity Maturity Model Certification (CMMC)
- The CMMC levels will range from basic hygiene to “State-of-the-Art” and will also capture both security control and the institutionalization of processes that enhance cybersecurity for DIB companies.
- The required CMMC level (notionally between 1 – 5) for a specific contract will be contained in the RFP sections L & M, and will be a “go/no-go decision”.
- The CMMC must be semi-automated and, more importantly, cost effective enough so that Small Businesses can achieve the minimum CMMC level of 1.
- The CMMC model will be agile enough to adapt to emerging and evolving cyber threats to the DIB sector. A neutral 3rd party will maintain the standard for the Department.
- The CMMC will include a center for cybersecurity education and training.
- The CMMC will include the development and deployment of a tool that 3rd party cybersecurity certifiers will use to conduct audits, collect metrics, and inform risk mitigation for the entire supply chain.



DIB Cybersecurity Posture

Hypothesis:
< 1% of DIB companies

**Vast majority of
DIB companies**



- **State-of-the-Art**

- Maneuver, Automation, SecDevOps

- **Nation-state**

- Resourcing: Infosec dedicated full-time staff ≥ 4 , Infosec $\geq 10\%$ IT budget
- Sophisticated TTPs: Hunt, white listing, limited Internet access, air-gapped segments
- Culture: Operations-impacting InfoSec authority, staff training and test

- **Good cyber hygiene**

- NIST SP 800-171 compliant, etc.
- Consistently defends against Tier I-II attacks

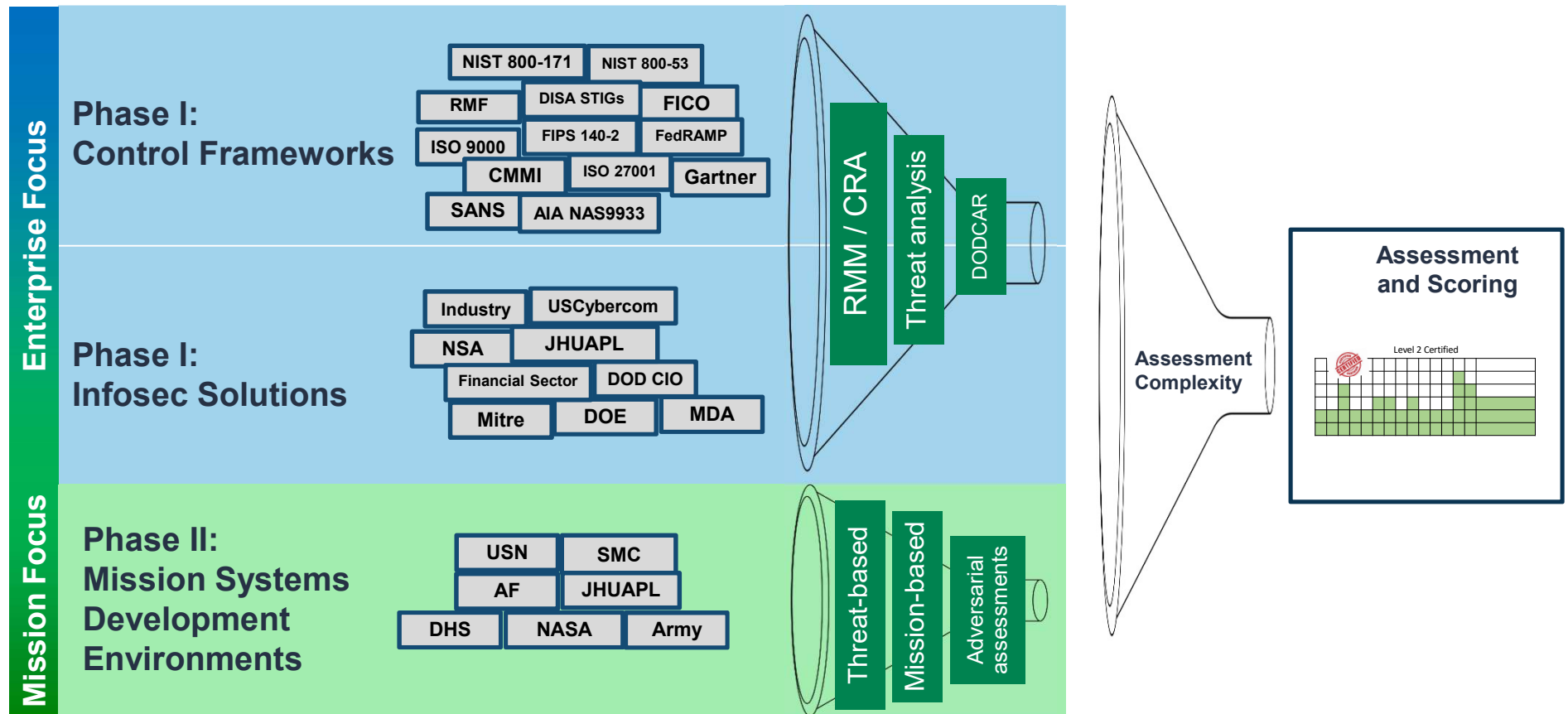
- **Ad hoc**

- Inconsistent cyber hygiene practices
- Low-level attacks succeed consistently

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Notional CMMC Model Development



Maternity model must be dynamic and threat informed

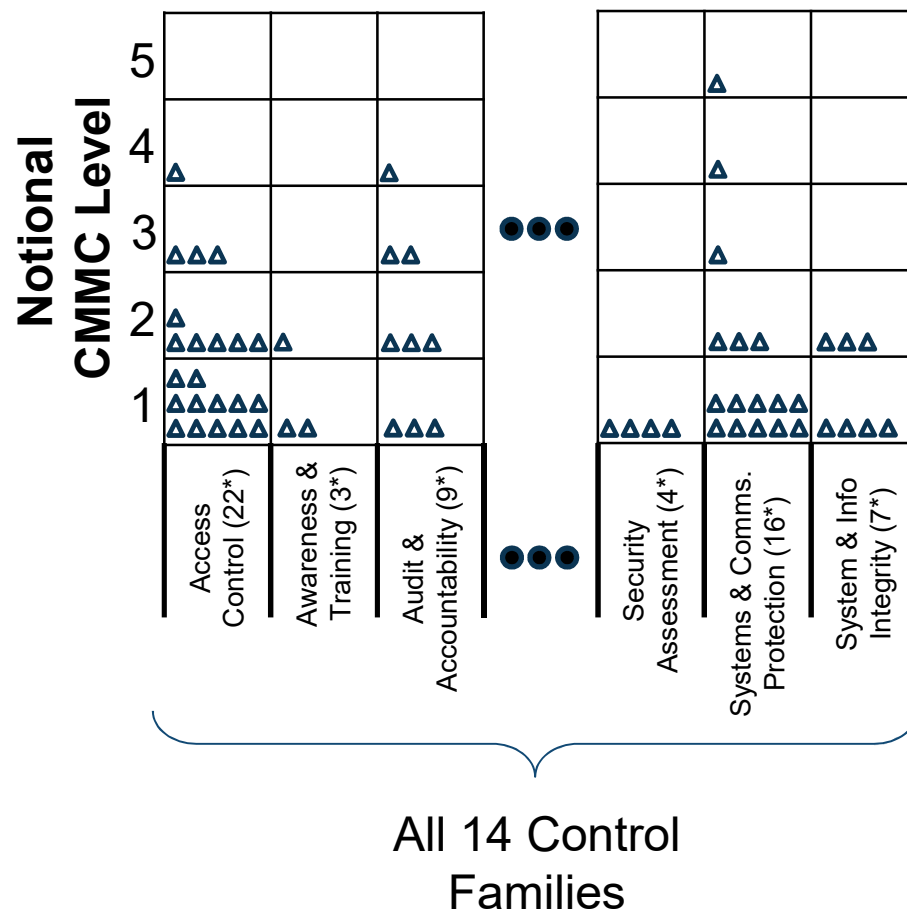


Notional CMMC Model Components

Sophistication of Practices

-- AND --

Institutionalization of Processes



Processes are tailored and improvement data is shared	5
Practices are periodically evaluated for effectiveness	4
Processes are guided by policy	3
Processes are documented	2
Processes are ad hoc	1

▲ Control or capability (roll-up of individual controls)

* Number of specific controls/capabilities in that control family

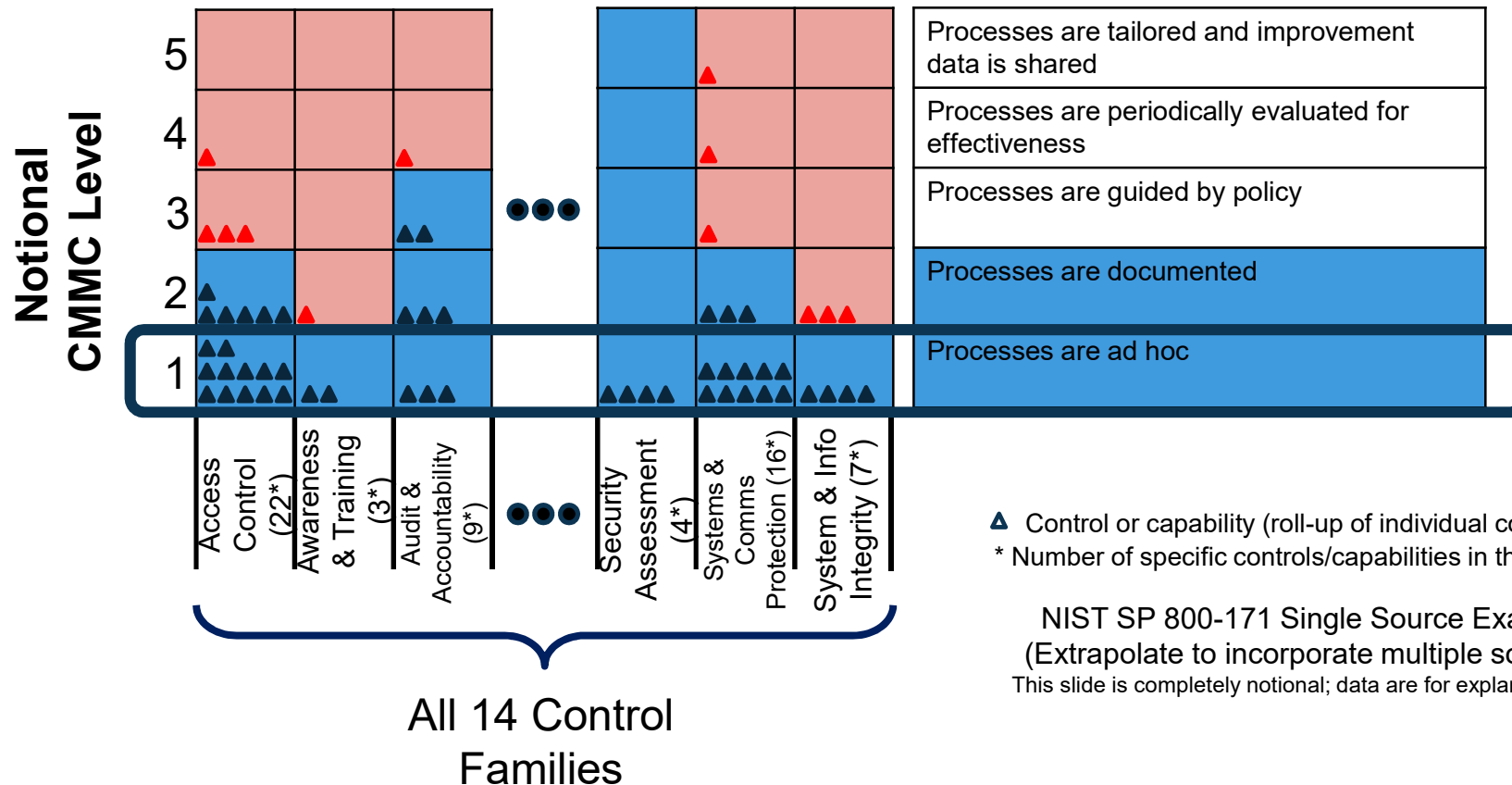
NIST SP 800-171 Single Source Example
(Extrapolate to incorporate multiple sources)

This slide is completely notional; data are for explanation only

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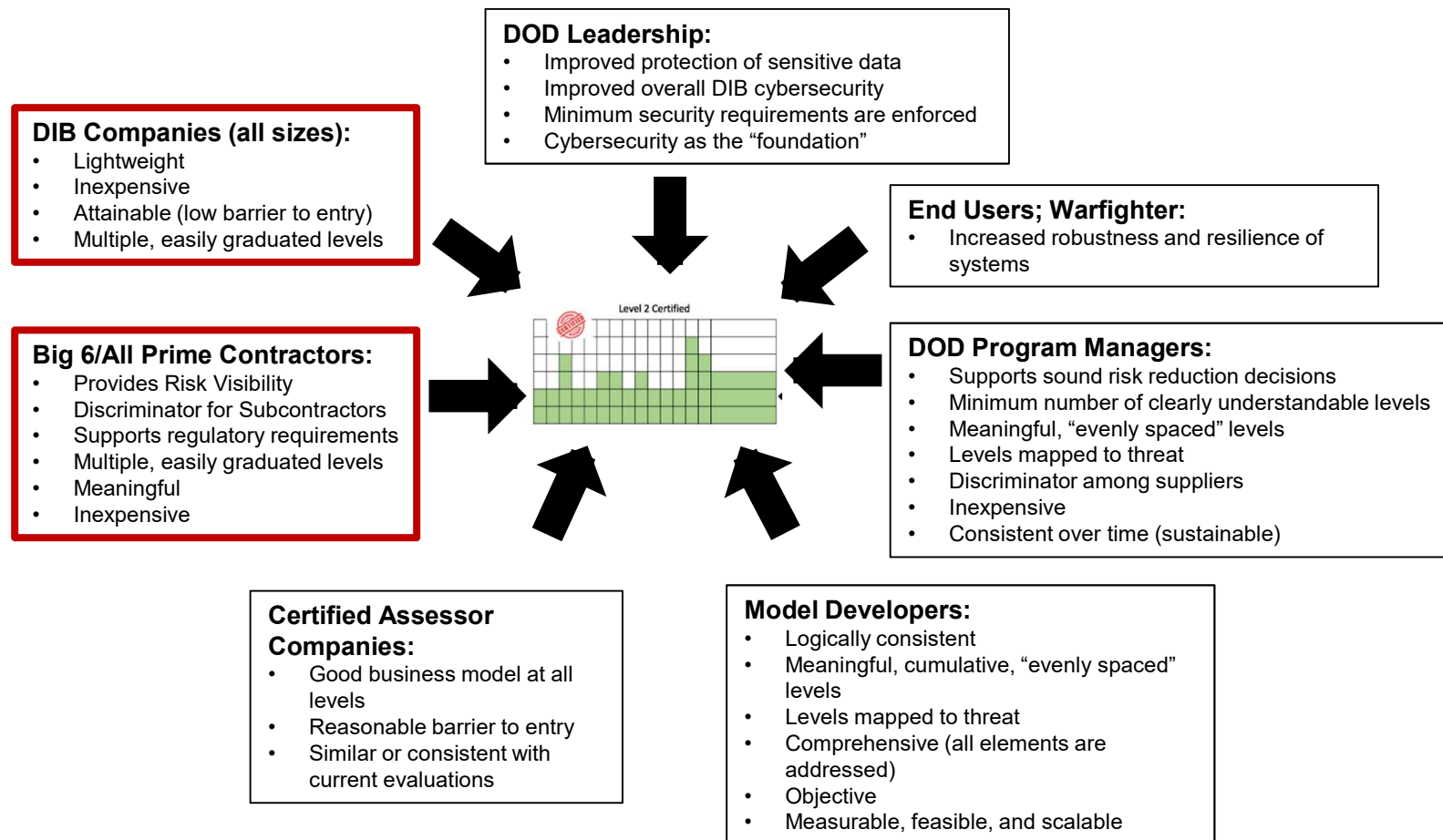


Notional CMMC Level 1



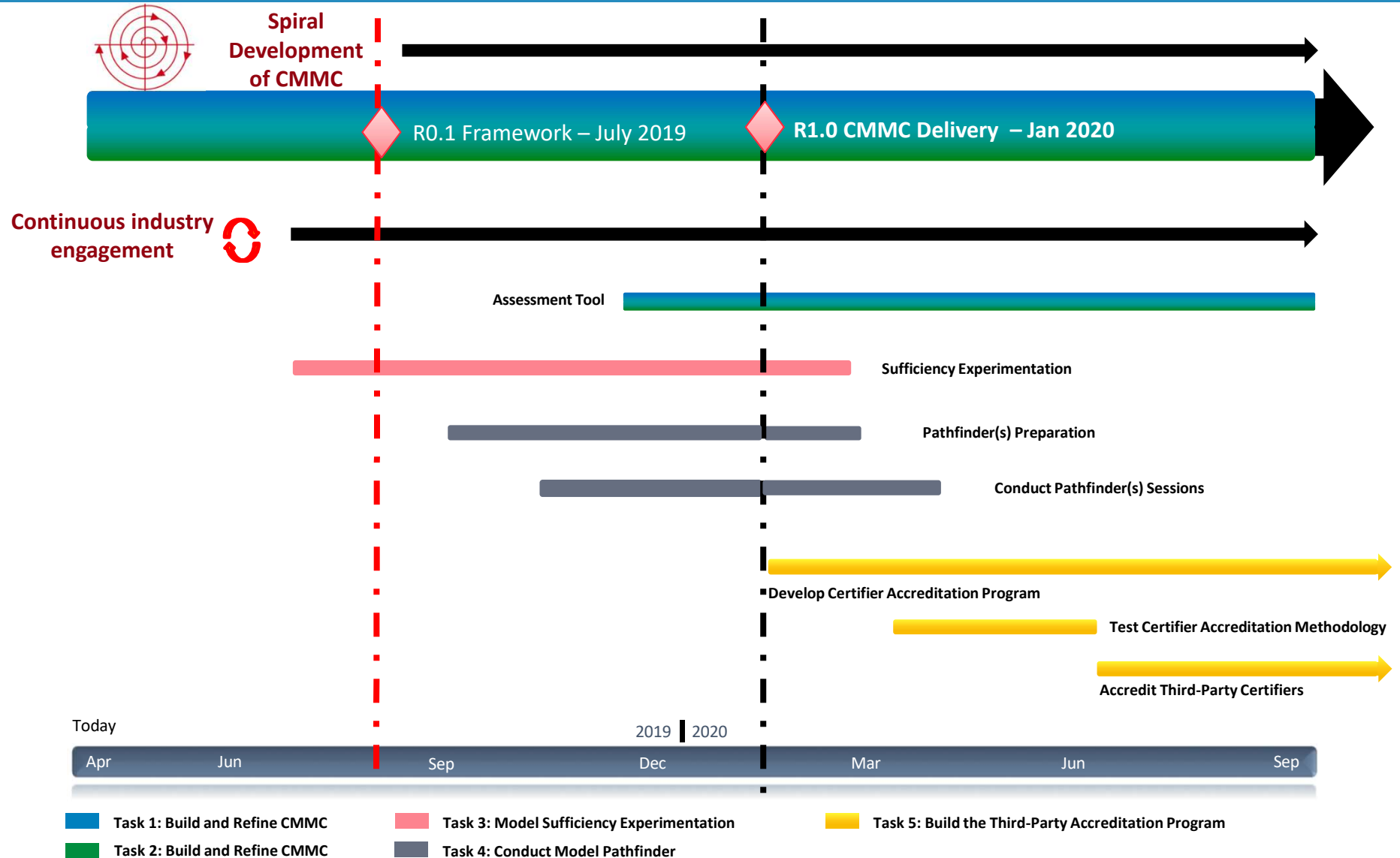


Preliminary Stakeholder Perspectives on CMMC





Notional CMMC Timeline



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Industry Days / Listening Sessions



We are looking at 11 collaborative sessions across the country and we want to ensure, we give all an equal voice for participation.

Time Frame: July – Aug 2019

Locations:

San Diego, CA
San Antonio, TX
Huntsville, AL
Tampa, FL
Boston, MA
Washington D.C.
Phoenix, AZ
Detroit, MI
Colorado Springs, CO
Seattle, WA
Kansas City, KA



Questions?



Katie Arrington, HQE Cyber for ASD (A)
Katherine.e.arrington.civ@mail.mil
703-695-9332