

IoT Cybersecurity Improvement Act 2022

Allegro

2 VOLUNTEERS

Represent 2 Different
IoT Vendors & Products



$$\underline{VALUE} = \underline{DATA} \times \underline{ACTION}$$

Understanding the **VALUE**
PROPOSITION of IoT deployments
and potential data **SECURITY RISKS**

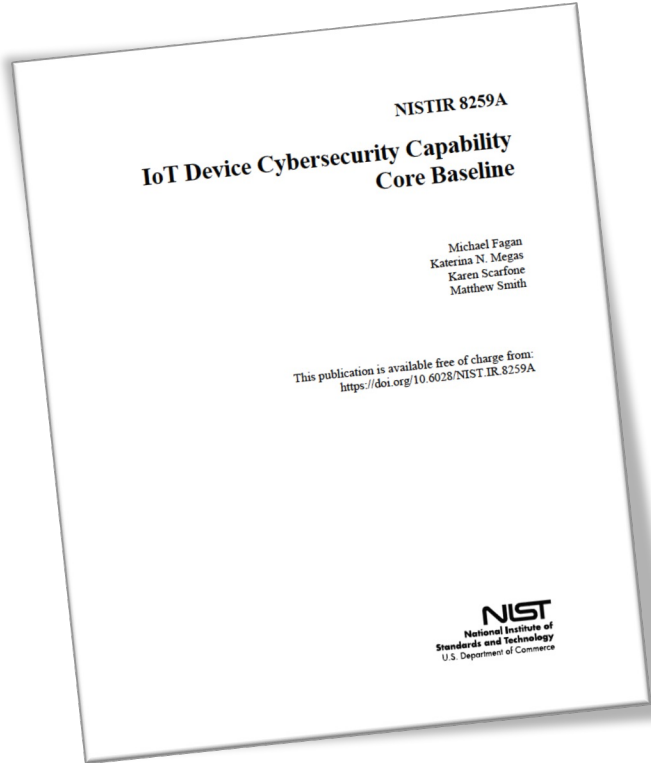


IOT CYBERSECURITY ACT - DOCUMENTATION

GOVERNMENT
Primary
- 6 Documents

Secondary
- 23 Documents

INDUSTRY
- 10+ Documents

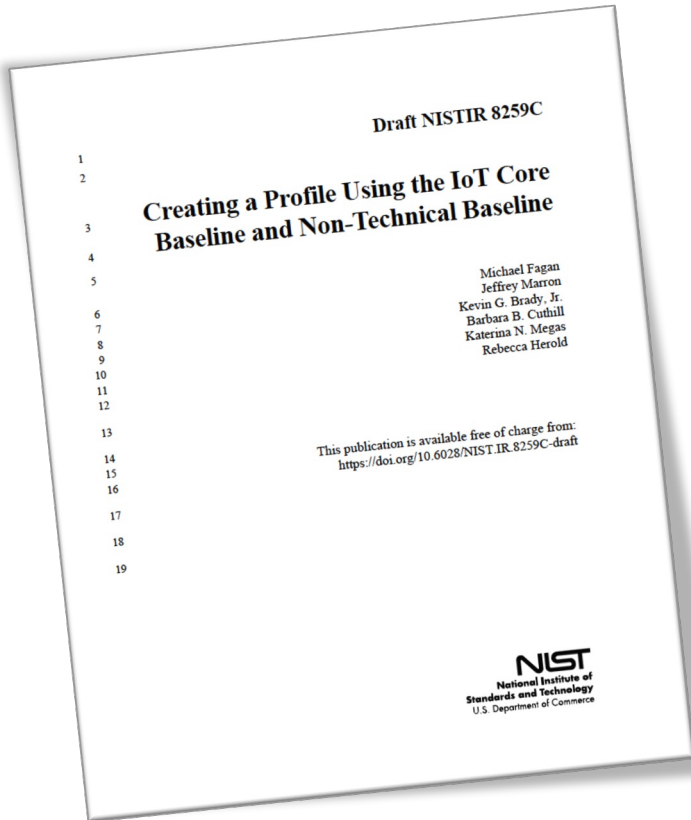


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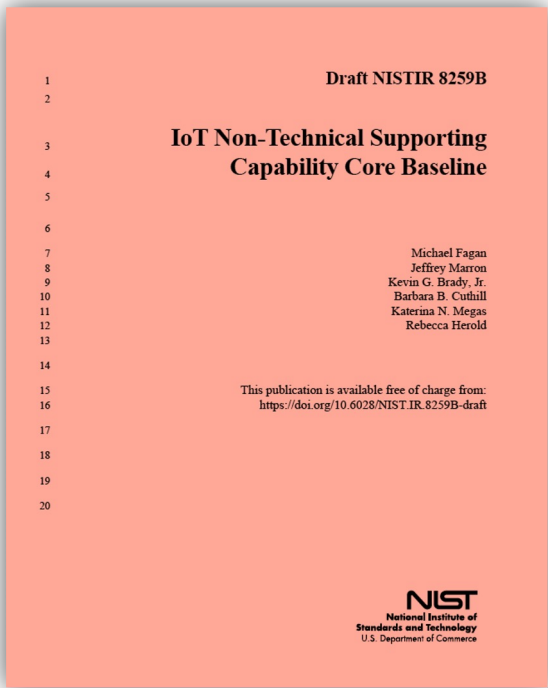


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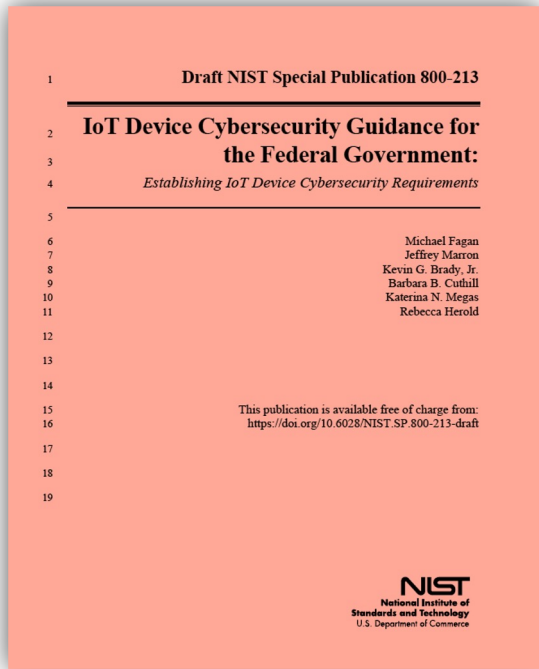
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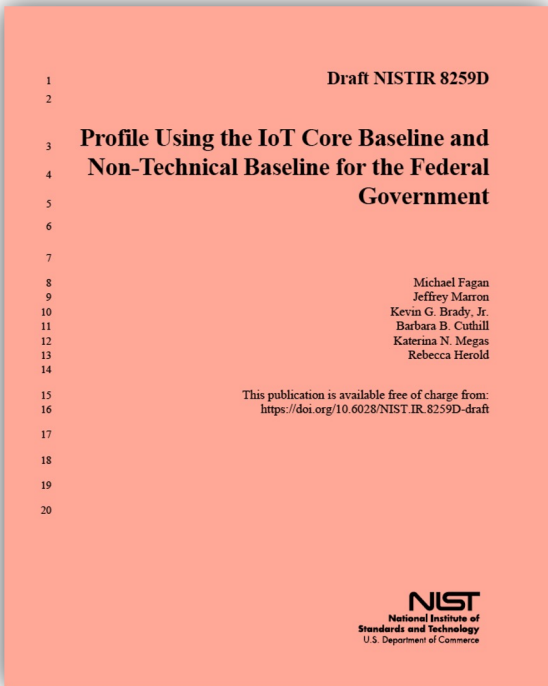
8259B



8259C



8259D



800-213

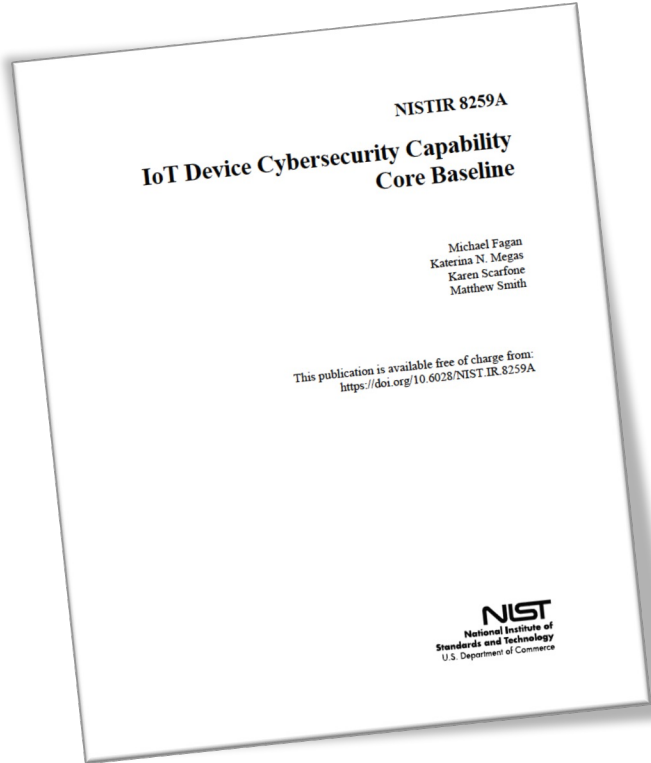


IOT CYBERSECURITY ACT - DOCUMENTATION

GOVERNMENT
Primary
- 6 Documents

Secondary
- 25 Documents

INDUSTRY
- 10+ Documents

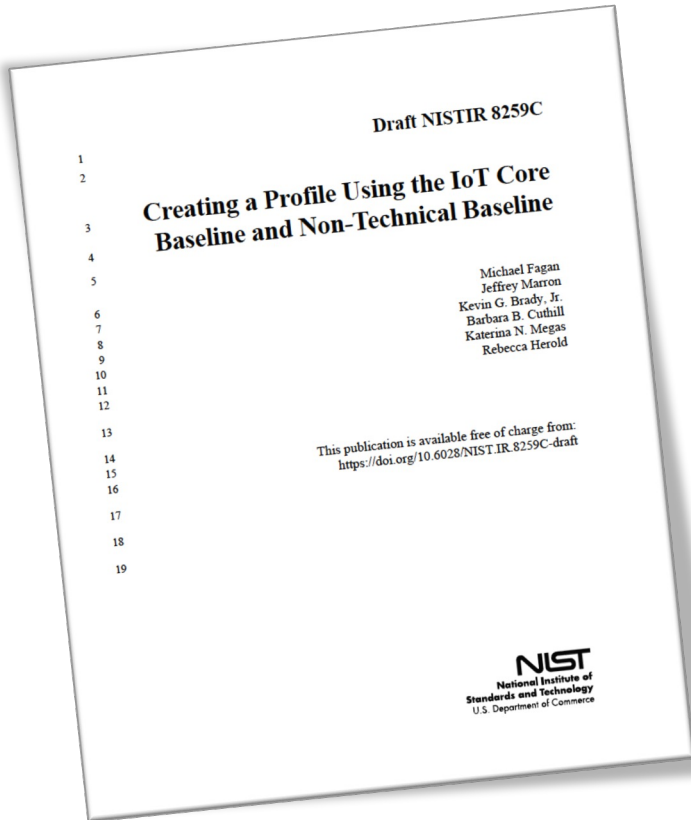


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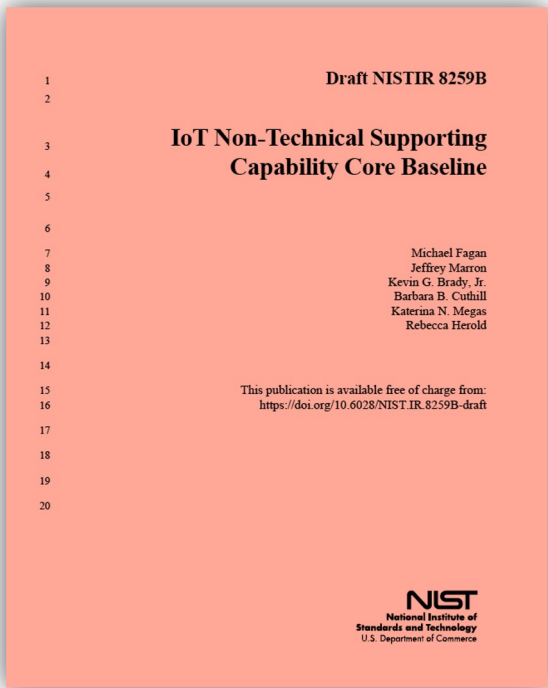


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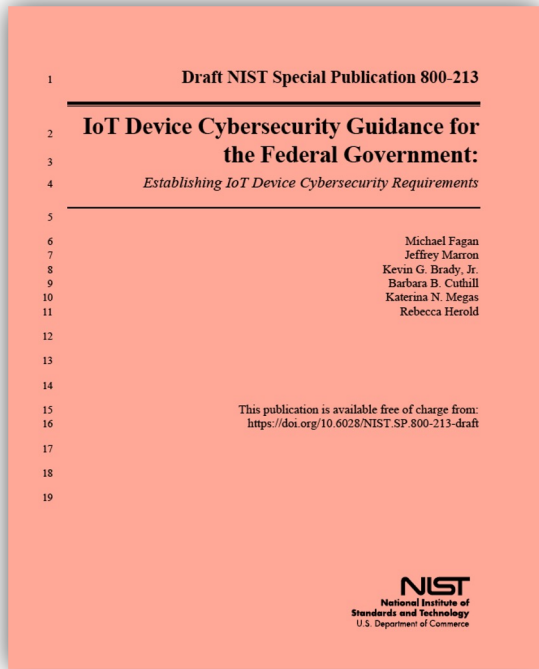
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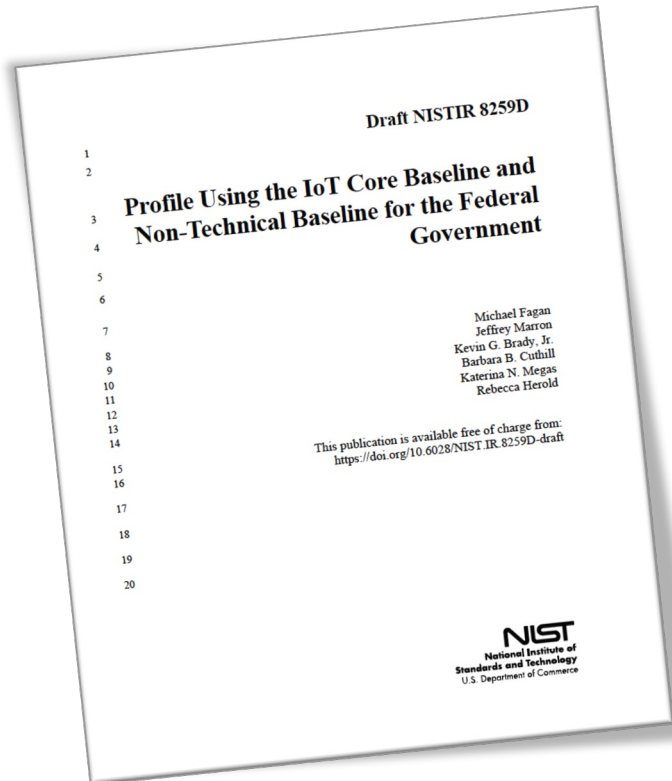
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8259C



8259D



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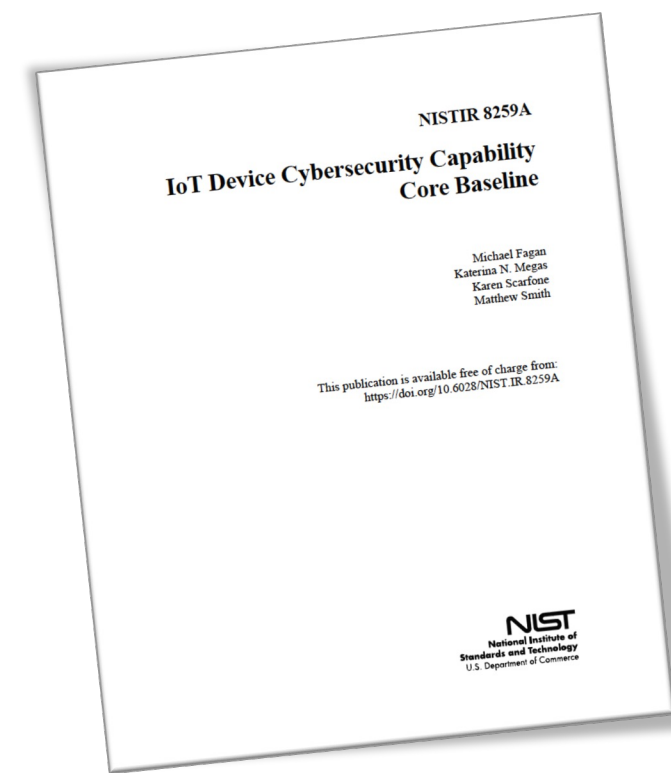
IOT CYBERSECURITY ACT - DOCUMENTATION

GOVERNMENT
Primary

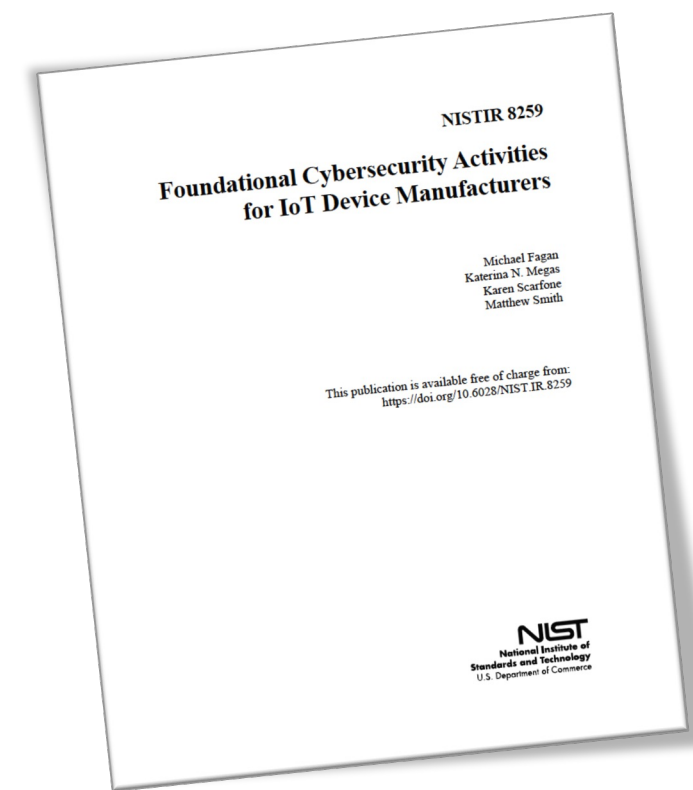
- 6 Documents

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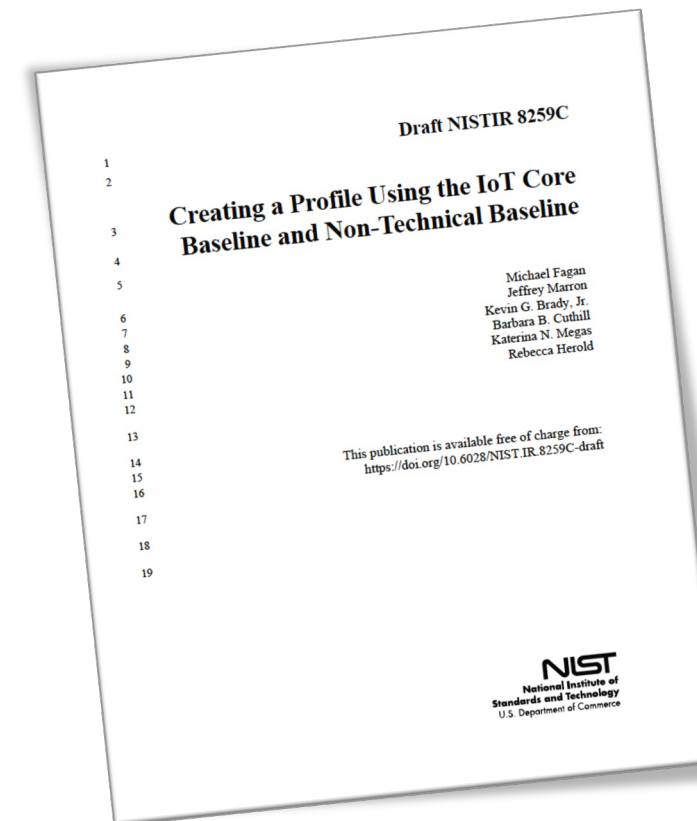


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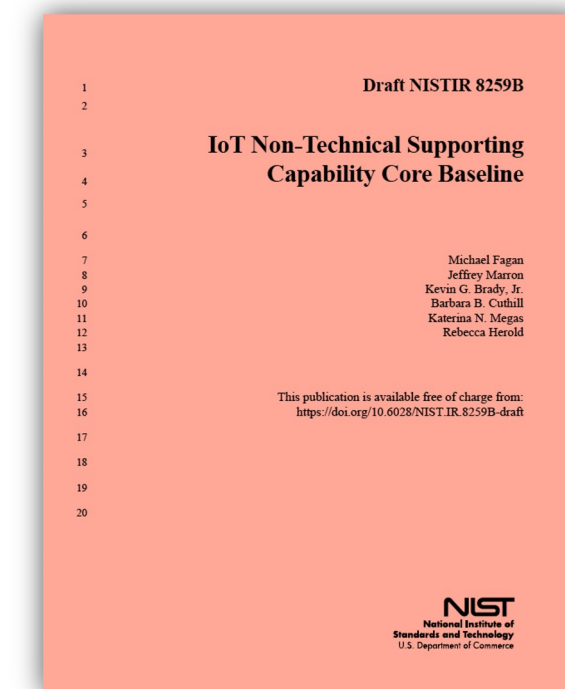


IoT Core
Consumer

6

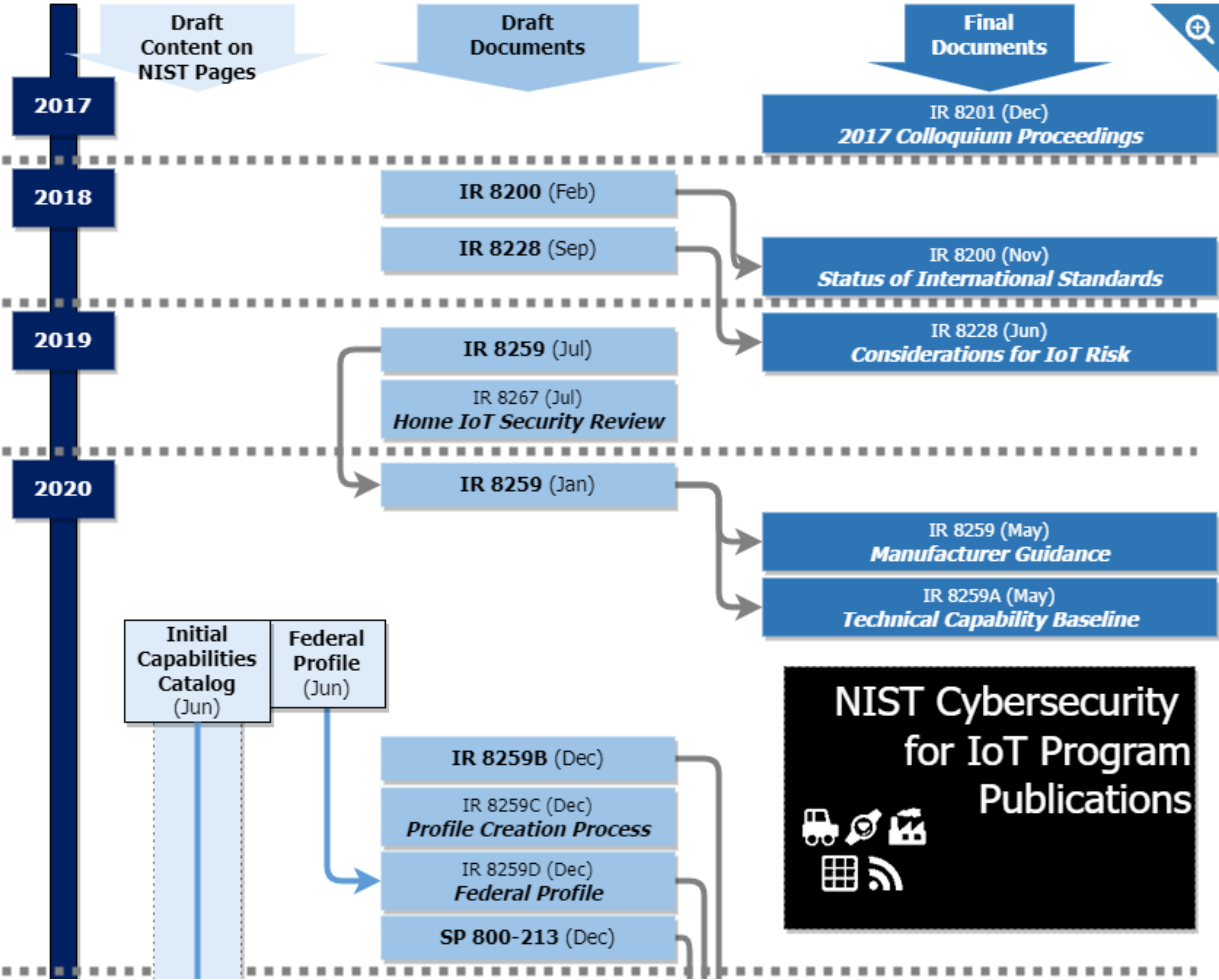


IoT
Consumer
Labeling

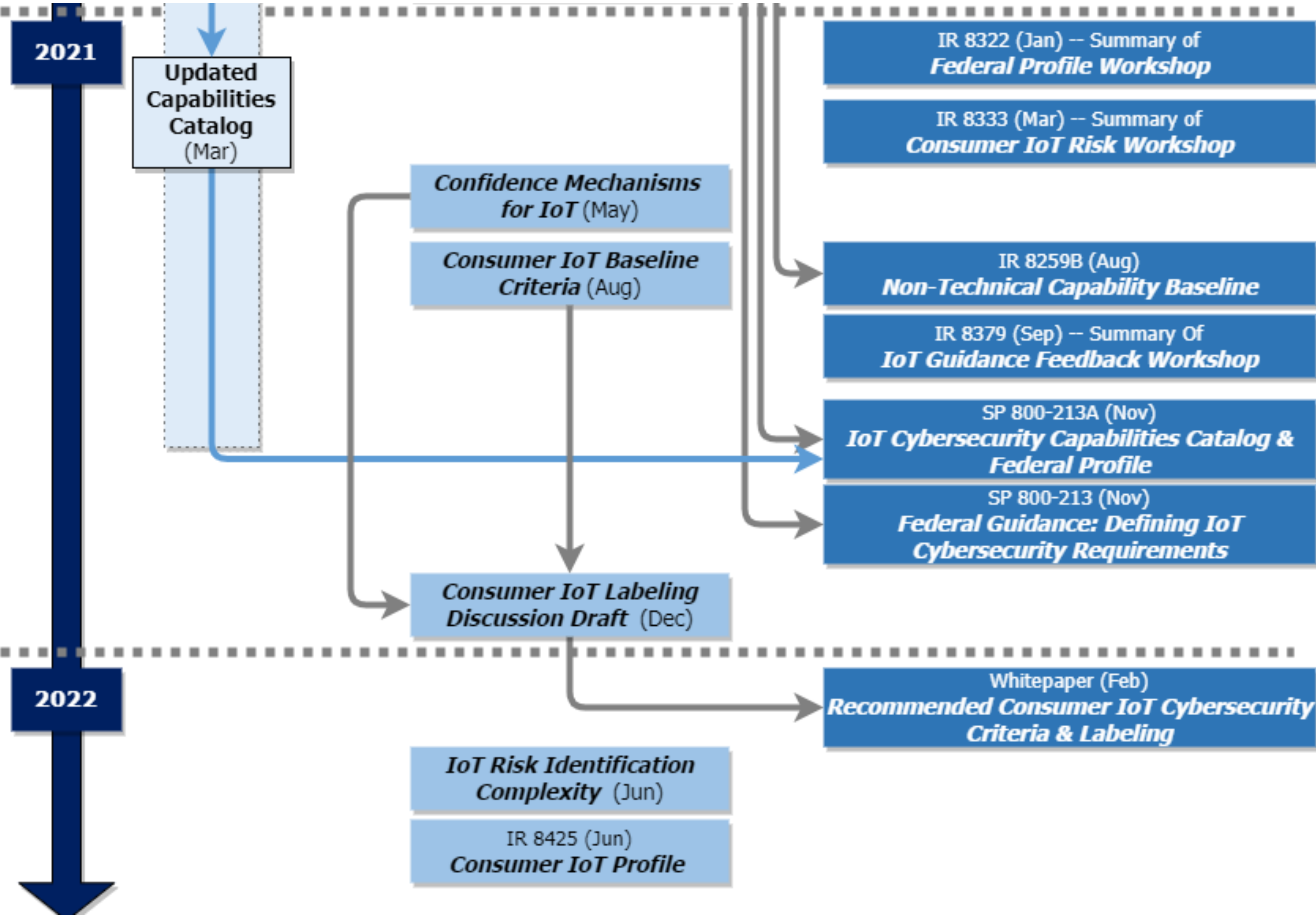


Baseline
Security
Consumer

IOT CYBERSECURITY ACT - PROGRESS



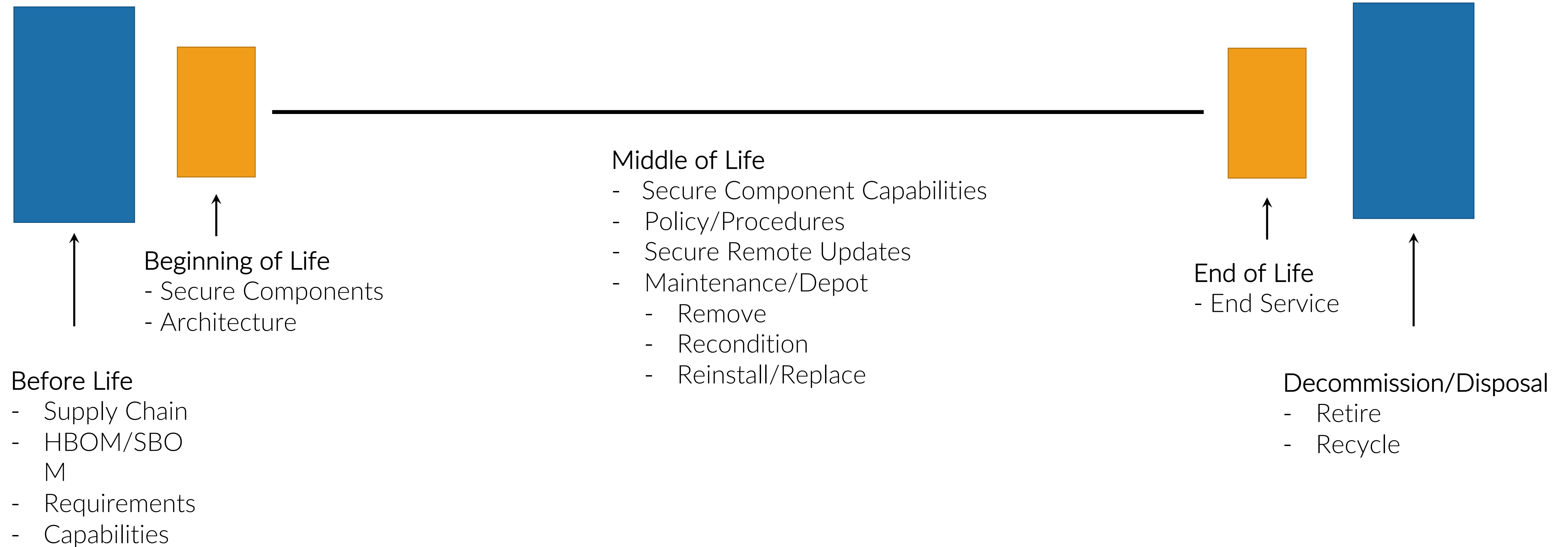
IOT CYBERSECURITY ACT - PROGRESS



IOT ENDPOINT SECURITY – LIFECYCLE

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IOT LIFECYCLE



IOT ENDPOINT SECURITY – EXAMPLE

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CONNECTED
HOSPITAL BED



IOT ENDPOINT SECURITY – LIFECYCLE – BEFORE LIFE

11

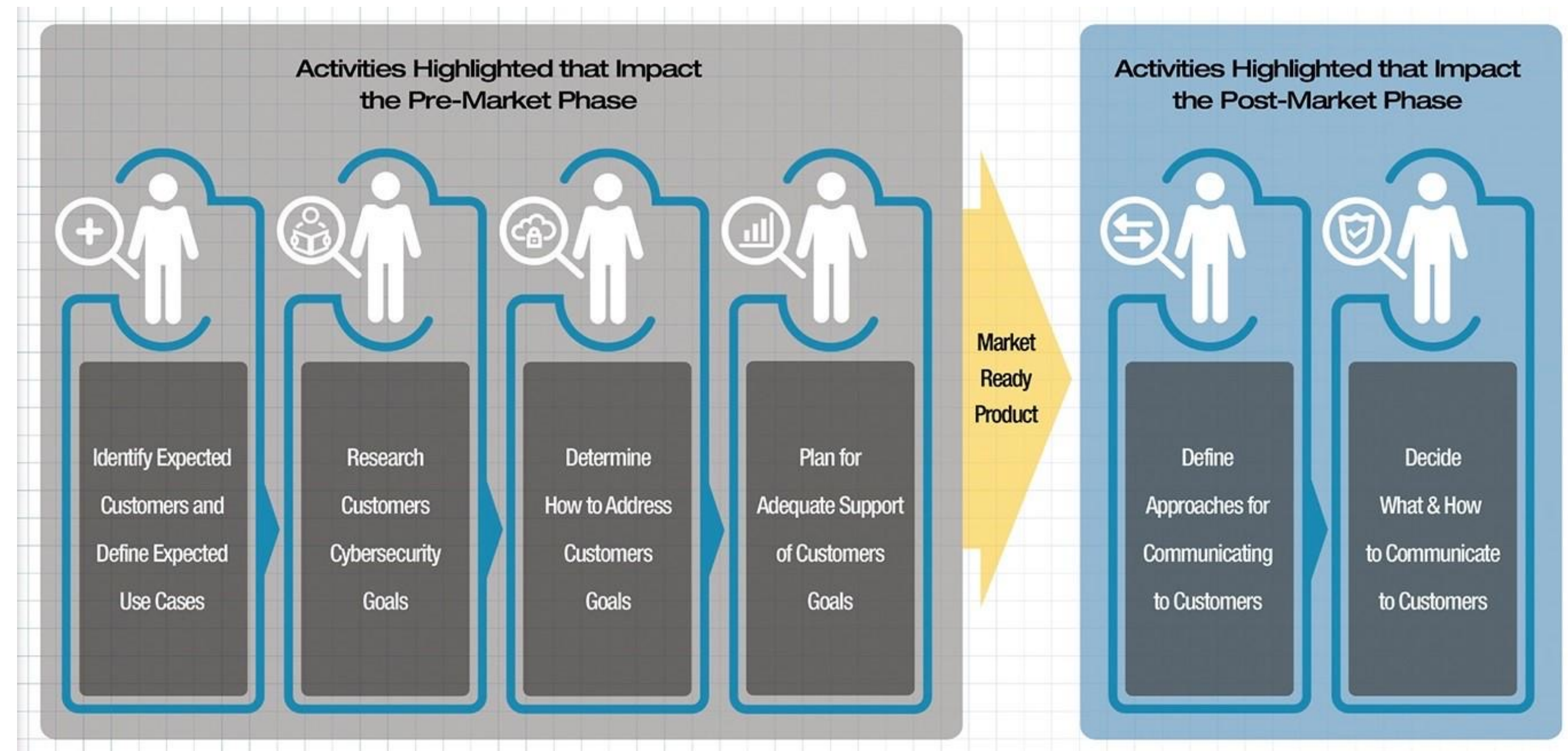
IOT LIFECYCLE



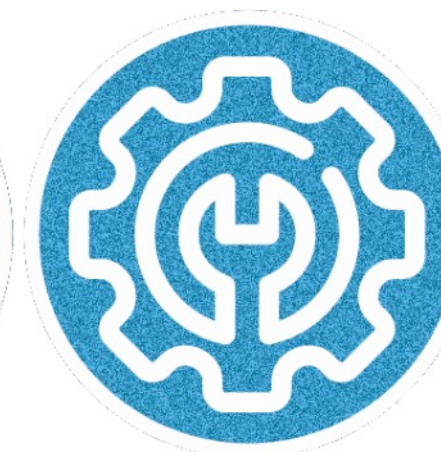
NISTIR 8259
NISTIR 8259A
NISTIR 8259B
SP-800-213

Before Life

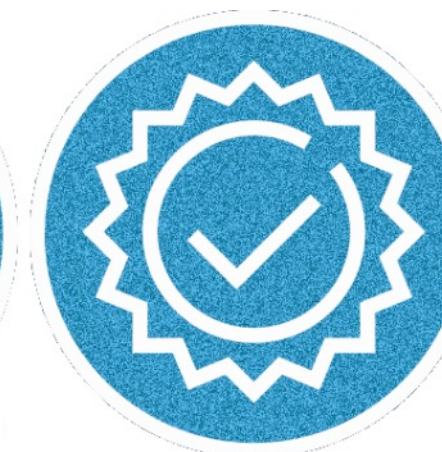
- Supply Chain
- HBOM/SBOM
- Requirements
- Capabilities



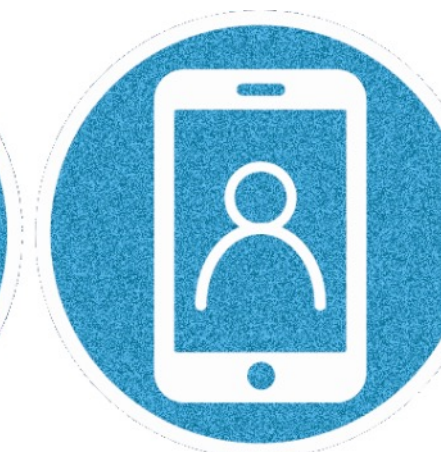
Device Identification



Device Configuration



Data Protection



Logical Access
to Interfaces



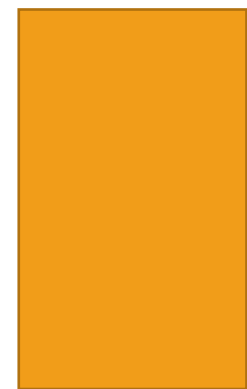
Software Update



Cybersecurity State
Awareness

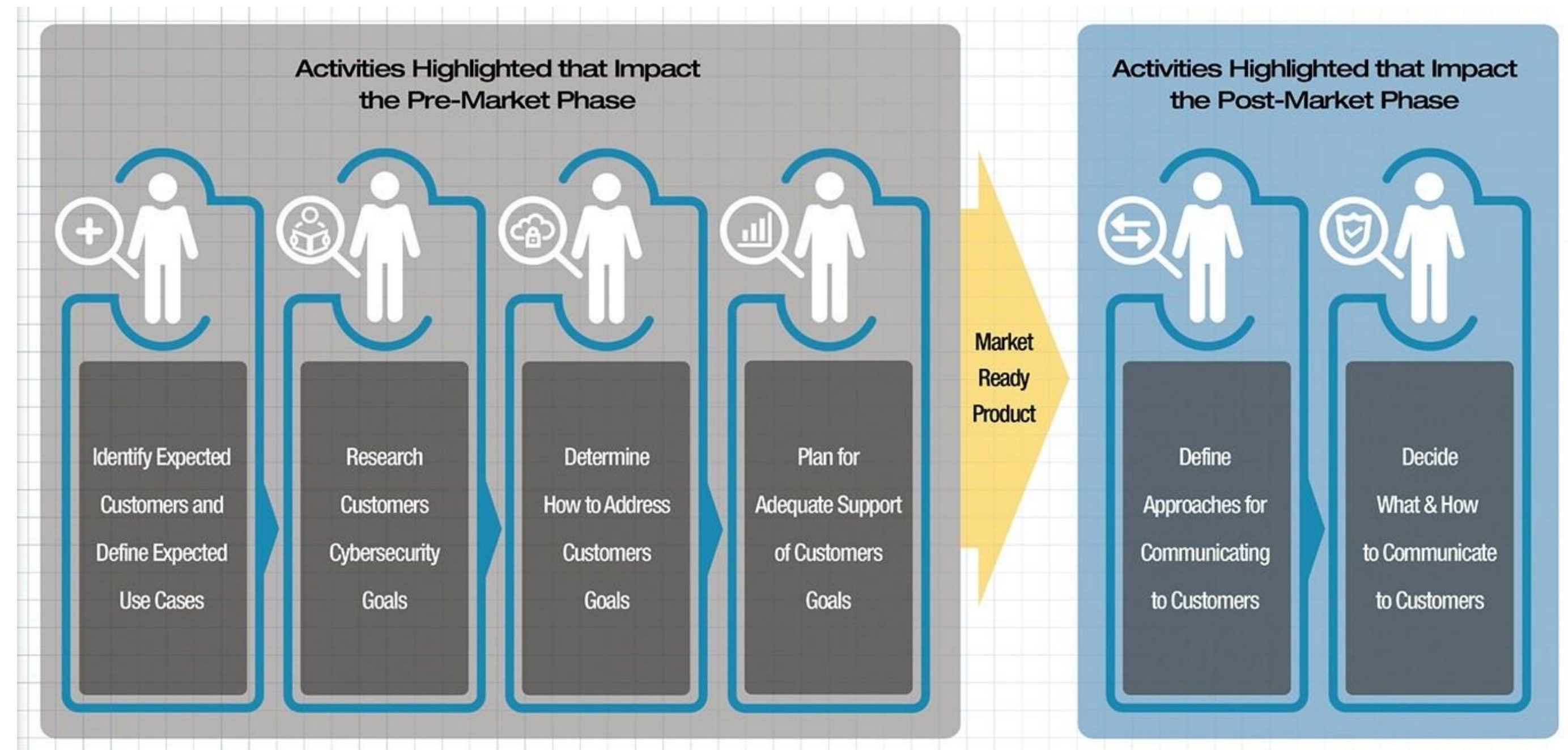
IOT ENDPOINT SECURITY – LIFECYCLE – BEGINNING OF LIFE

IOT LIFECYCLE



Beginning of Life
- Secure Components
- Architecture

NISTIR 8259A
NISTIR 8259B
NISTIR 8259C
NISTIR 8259D
SP-800-213
SP-800-53 R5
FIPS 140-3



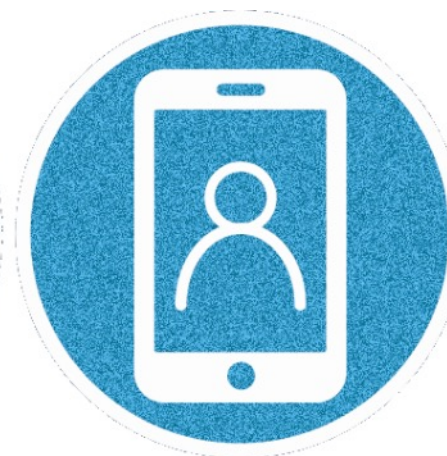
Device Identification



Device Configuration



Data Protection



Logical Access
to Interfaces



Software Update



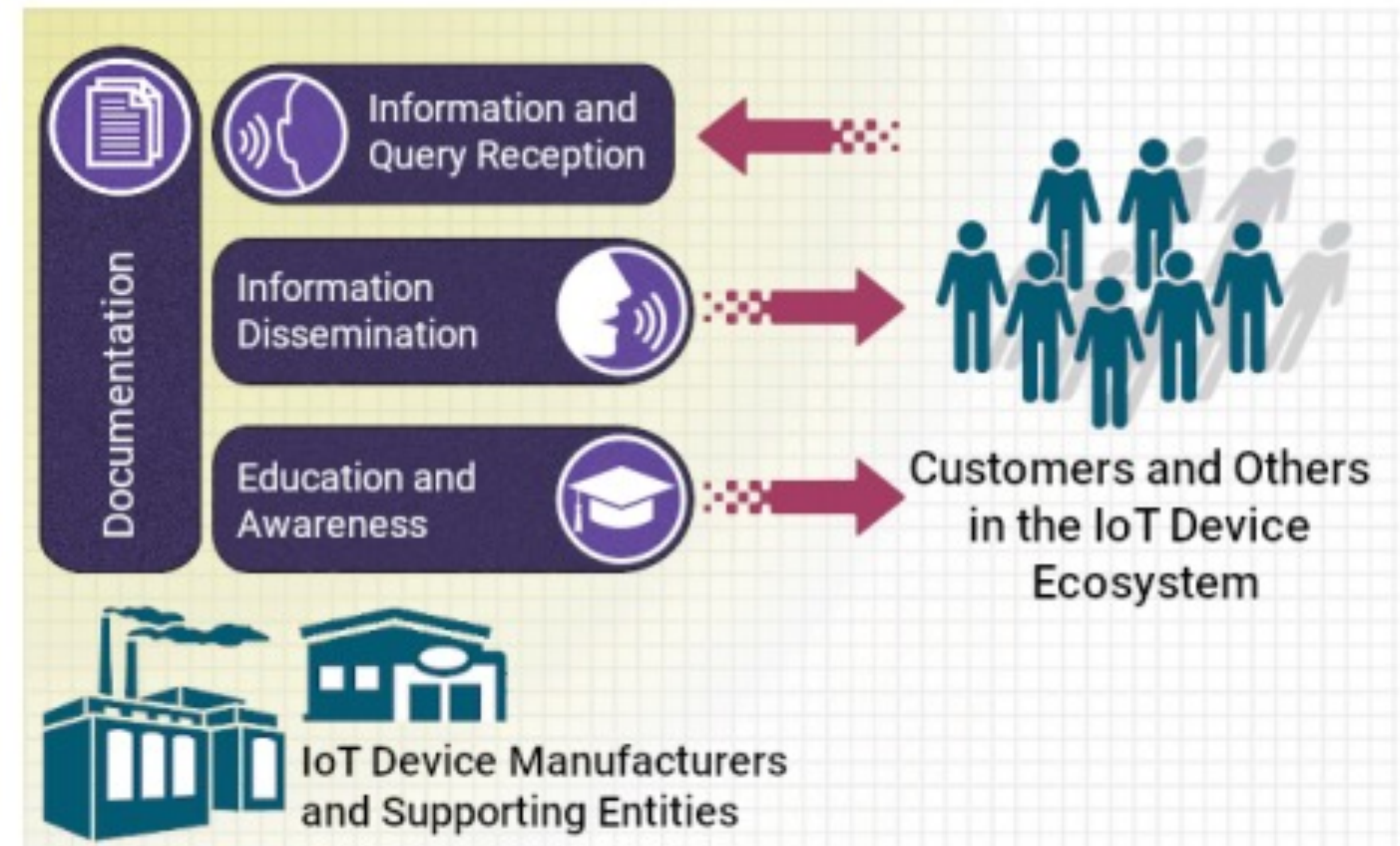
Cybersecurity State
Awareness

IOT LIFECYCLE

Middle of Life

- Secure Component Capabilities
- Policy/Procedures
- Secure Remote Updates
- Maintenance/Depot
 - Remove
 - Recondition
 - Reinstall/Replace

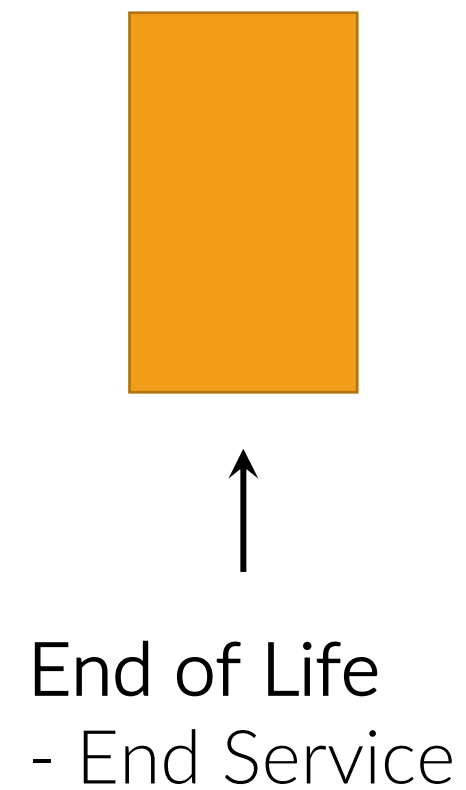
NISTIR 8259D
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FIPS 140-3



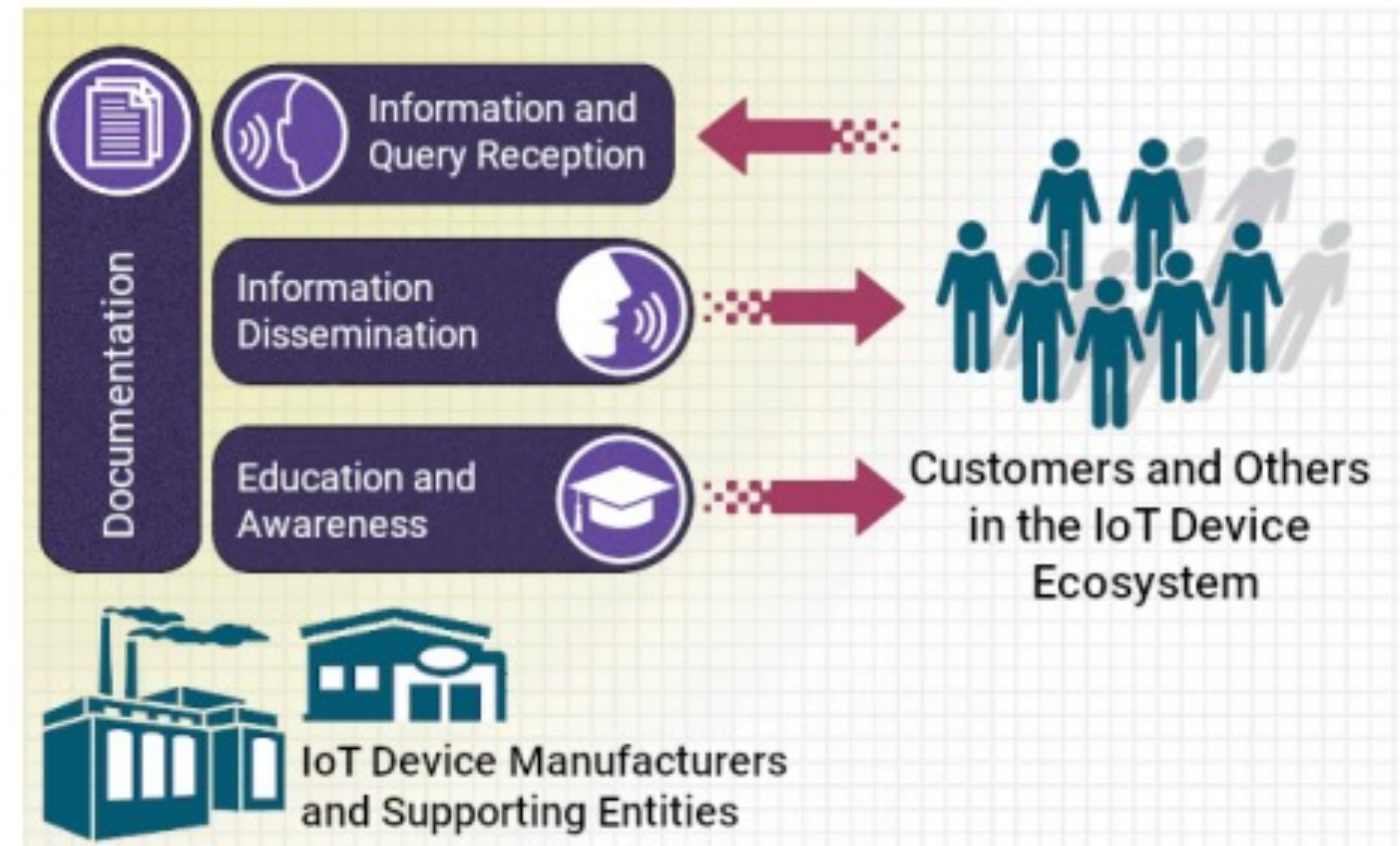
IOT ENDPOINT SECURITY – LIFECYCLE – END OF LIFE

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IOT LIFECYCLE



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NISTIR 8259A
NISTIR 8259B
NISTIR 8259D
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FIPS 140-3



IOT ENDPOINT SECURITY – LIFECYCLE – DECOMMISSION

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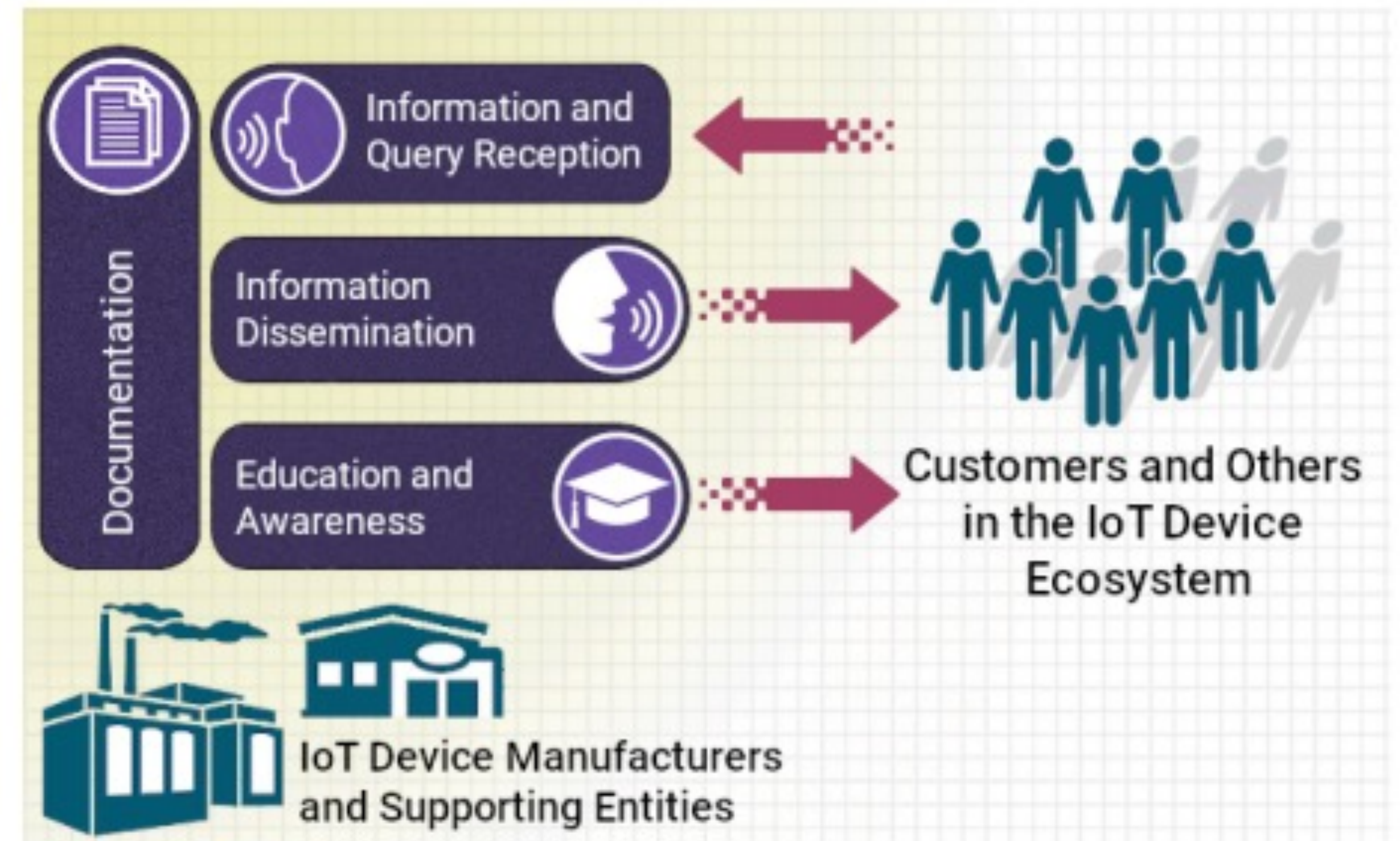
IOT LIFECYCLE



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NISTIR 8259D
SP-800-213
SP-800-53 R5
FIPS 140-3

Decommission/Disposal

- Retire
- Recycle





UNDERSTANDING DATA RISK

2 VOLUNTEERS

Represent 2 Different
IoT Vendors & Products

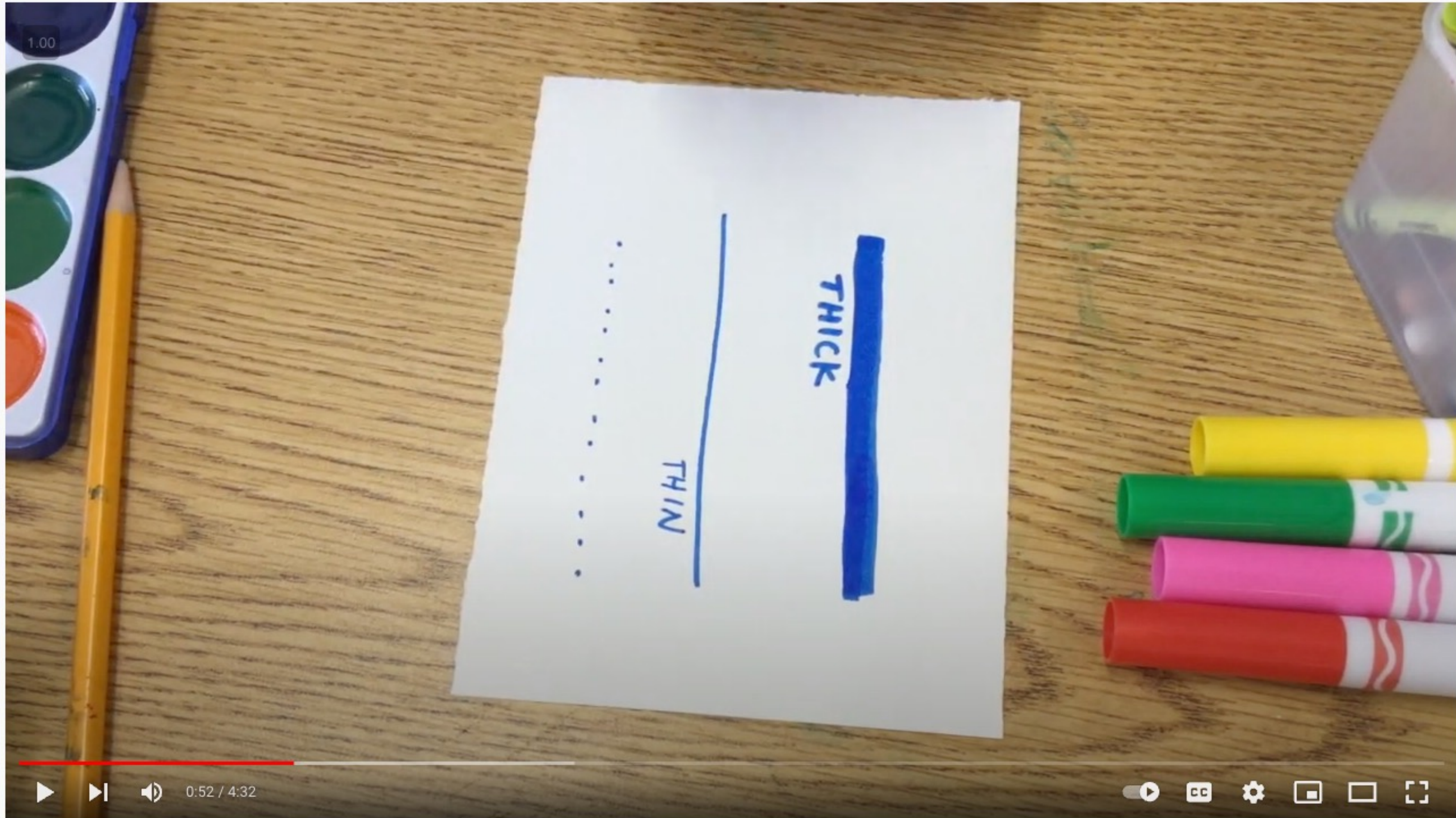


REFERENCES - TRAINING

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