The Speed Of Resiliency

GSAW 2018
Rob Andzik

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> Resilience is the ability of an architecture to support the functions necessary for mission success in spite of hostile action or adverse conditions. An architecture is "more resilient" if it can provide these functions with higher probability, shorter periods of reduced capability, and across a wider range of scenarios, conditions, and threats. Resilience may leverage cross-domain or alternative government, commercial, or international capabilities.
>
> *– DoD Fact Sheet, Resilience of Space Capabilities*

Alternate Government Networks

International

Commercial

Resilient Ground Network

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Time
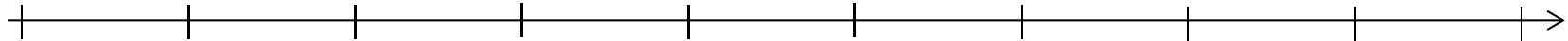
• **Resiliency Must Be Designed In And Tested**

• **Detect and Seamlessly Handle Disruptions**

• **Recover as Fast as Possible**
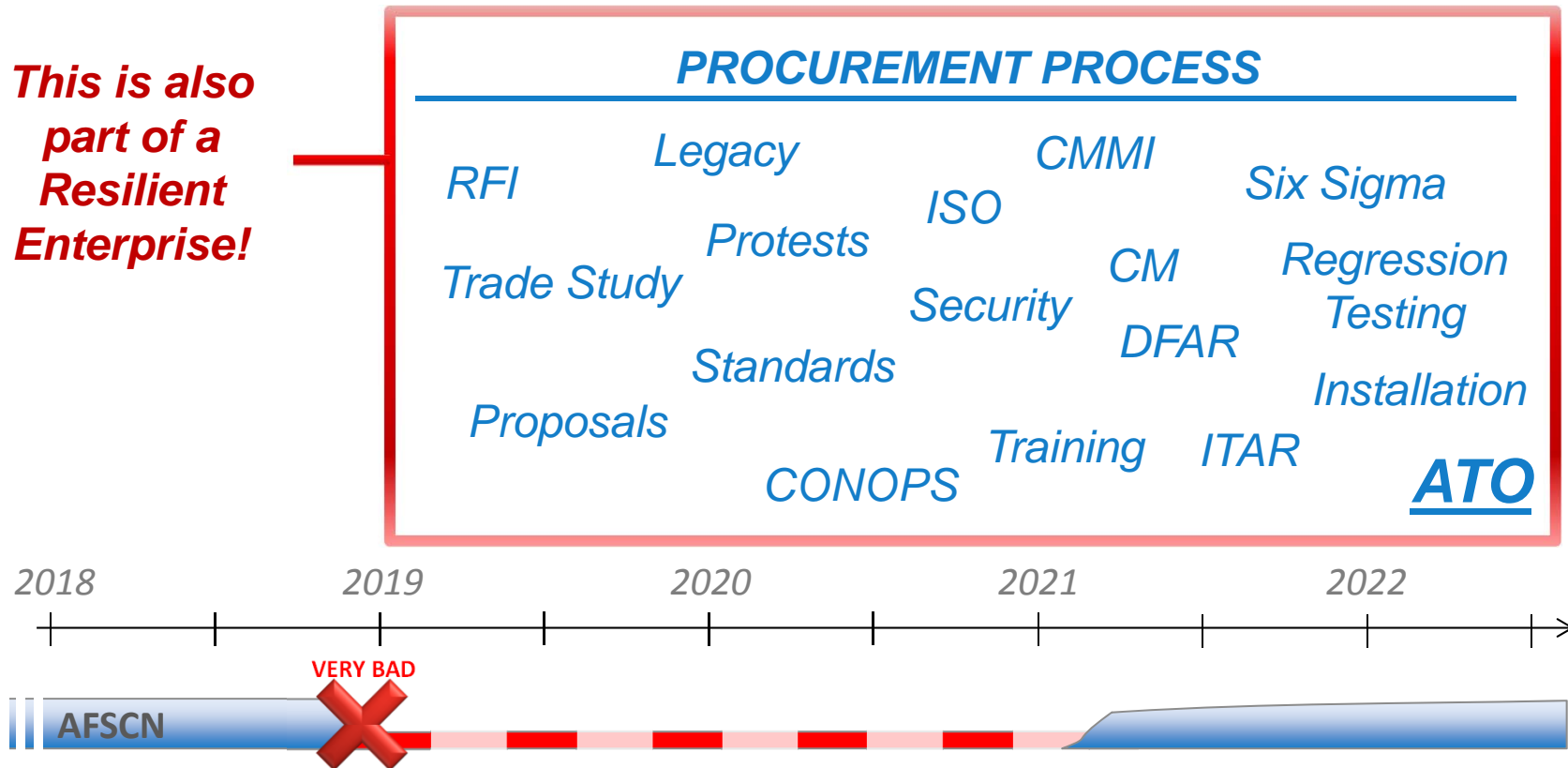
Resiliency

Responsive

Reconstitute

Let's Work Through A Scenario

⚠ Cyber Attack!

PROCUREMENT PROCESS

Fortunately Our Resiliency Plan Worked!

Critical System Must Be Replaced At Every Site

RFI

Legacy

CMMI

Six Sigma

ISO

Protests

Trade Study

CM

Regression Testing

Security

DFAR

Standards

Installation

Proposals

Training

ITAR

CONOPS

ATO

DEGRADED STATE

2018   *2019*   *2020*   *2021*   *2022*

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The Three R's Are A Bigger Challenge
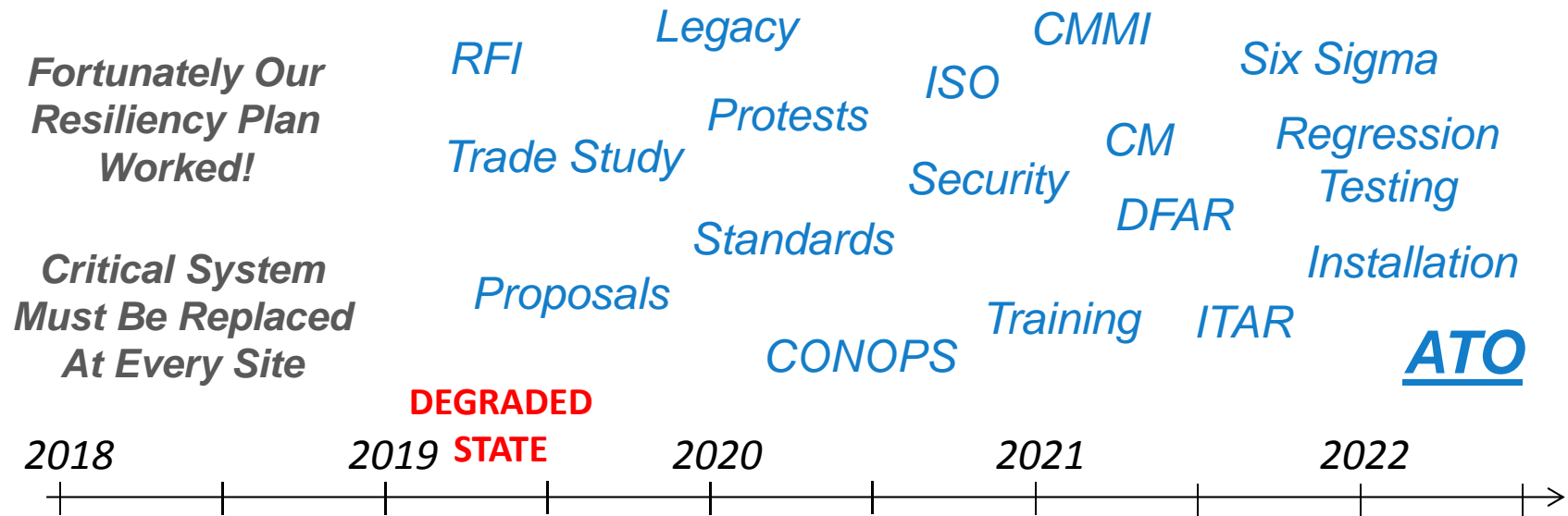
This is also part of a Resilient Enterprise!

PROCUREMENT PROCESS

RFI   Legacy   CMMI   Six Sigma

ISO

Trade Study   Protests   CM   Regression Testing

Security   DFAR

Standards   Installation

Proposals

Training   ITAR

CONOPS

ATO

2018   2019   2020   2021   2022

VERY BAD

AFSCN

What choices will be made in a crisis situation?

It is then that we discover our real priorities

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- **Technical Architecture**
  - Design for Resiliency
  - Software & Virtualization
  - Keep it simple!

*We Must
Get Here Quickly!*

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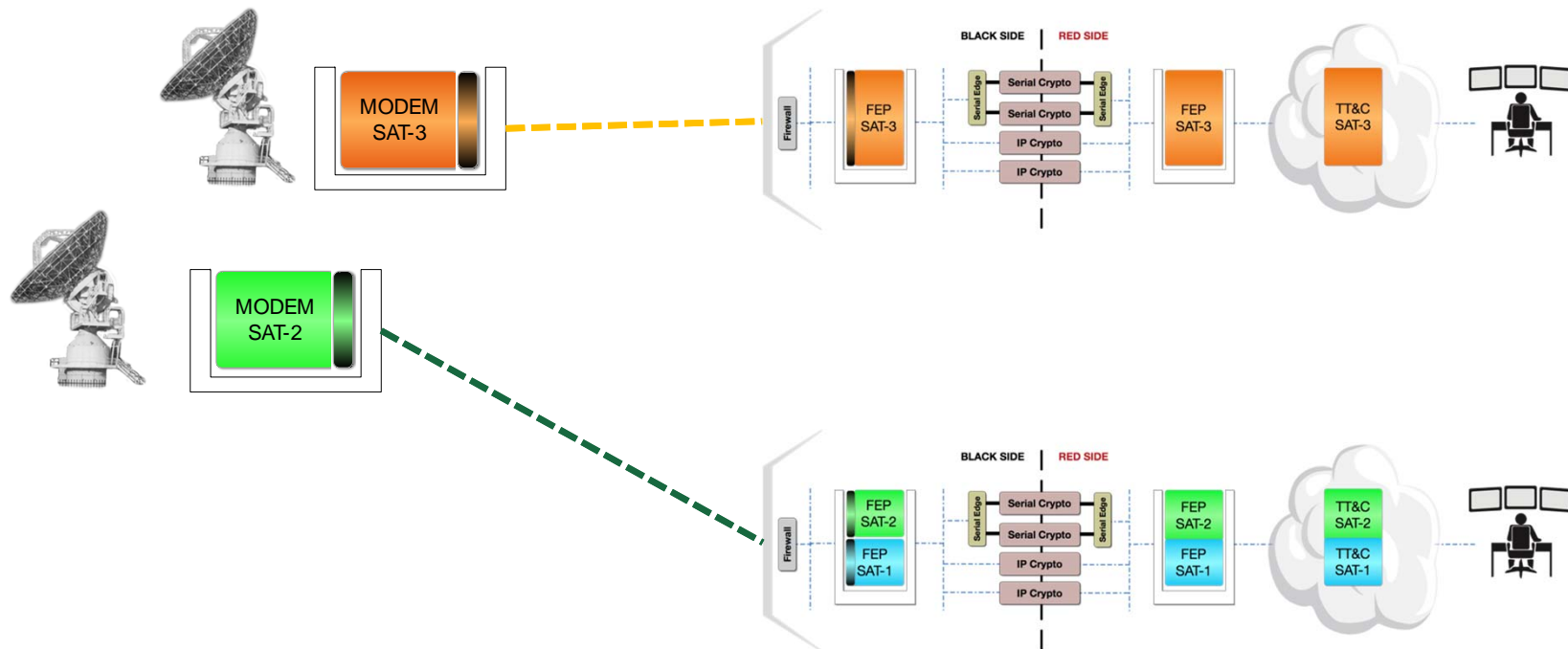
- **Consider The Non-Technical Roadblocks To Responsiveness**
  - Lengthy procurement processes
  - Regulations
  - Existing contracts
- **Plan For Reconstitution**
  - We cannot know where the failure will occur
  - Is Industry ready to quickly provide alternatives?

WARNING

STOP

CHALLENGES AHEAD

*Imagine that future disastrous event
and consider how you would prioritize
when you desperately need
capability restored.*

www.amergint.com