GENEDGE

Cyber (In)security

A Risk Management Approach to Improve Security Posture and Prioritize Mitigation Efforts

I **Presented by**:

Roy Luebke - GENEDGE
Innovation and Growth Consultant

Baan Alsinawi, President, Founder
TalaTek

August 23, 2017

What is GENEDGE?

MEP • MANUFACTURING EXTENSION PARTNERSHIP

NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

U.S. DEPARTMENT OF COMMERCE

GENEDGE

We are the Manufacturing Extension Program of Virginia

An Economic Development unit of the Commonwealth of Virginia

Part of the Department of Commerce / NIST network of Centers across the country (60 centers, 1500 staff nationally)

20 years of success supporting Virginia businesses

Since 2000, the #1 Bottom-Line and Top-Line Impact Producer in the system – over $3.5 Billion of business impact reported

Over 10,500 industrial jobs created / retained

32 staff including two sub-recipient partners, The Manufacturing Technology Center in SW VA and Old Dominion University in Hampton Roads

What Does GENEDGE Do?

Strategic Innovation and Growth

Continuous Process Improvement

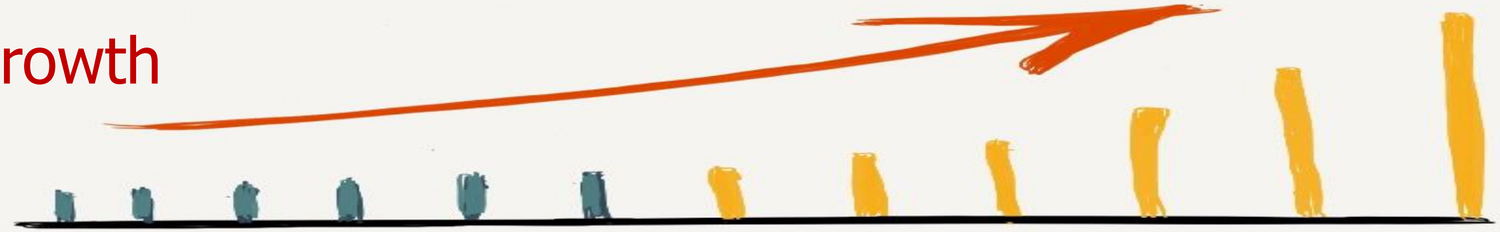
Sustainability

Supply Chain Optimization

Technology Acceleration

Export Assistance

Market Commercialization



Growth

What Is "Cybersecurity" Anyway?

Confidentiality

Integrity

Availability

Non-repudiation

Authentication

Security is a Combination of Things

Behaviors

(social media, email)

What Is Risk?

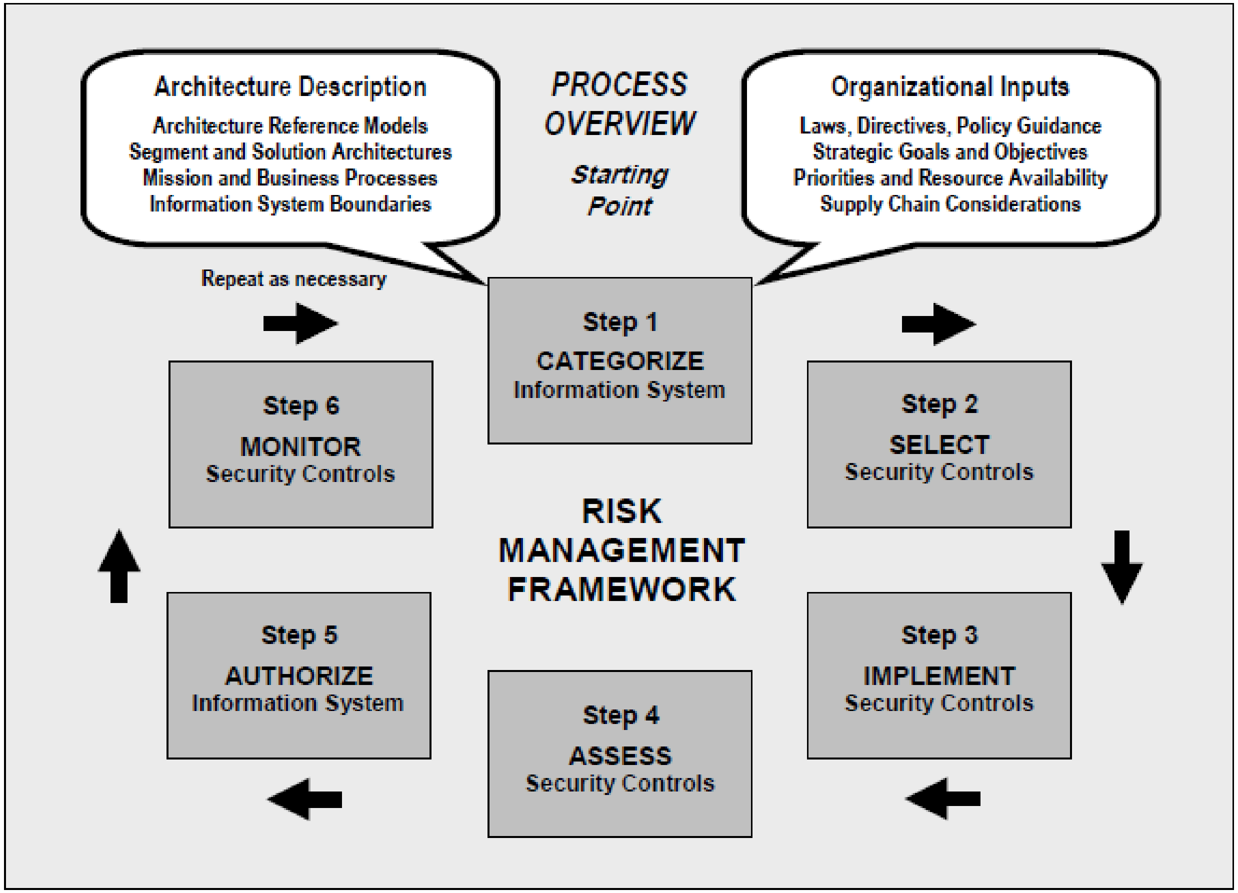
Probabilities

100 %

Outcomes

Impact

Risk Management Framework



Architecture Description

Architecture Reference Models
Segment and Solution Architectures
Mission and Business Processes
Information System Boundaries

PROCESS OVERVIEW

Starting Point

Organizational Inputs

Laws, Directives, Policy Guidance
Strategic Goals and Objectives
Priorities and Resource Availability
Supply Chain Considerations

Repeat as necessary

Step 1
CATEGORIZE
Information System

Step 2
SELECT
Security Controls

Step 3
IMPLEMENT
Security Controls

Step 4
ASSESS
Security Controls

Step 5
AUTHORIZE
Information System

Step 6
MONITOR
Security Controls

RISK MANAGEMENT FRAMEWORK

Risk Management Framework

Categorize the information system and the information processed, stored, and transmitted by that system based on an impact analysis.

Select an initial set of baseline security controls for the information system based on the security categorization; tailoring and supplementing the security control baseline as needed based on an organizational assessment of risk and local conditions.

Implement the security controls and describe how the controls are employed within the information system and its environment of operation.

Assess the security controls using appropriate assessment procedures to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security requirements for the system.

Authorize information system operation based on a determination of the risk to organizational operations and assets, individuals, other organizations, and the Nation resulting from the operation of the information system and the decision that this risk is acceptable.

Monitor the security controls in the information system on an ongoing basis including assessing control effectiveness, documenting changes to the system or its environment of operation, conducting security impact analyses of the associated changes, and reporting the security state of the system to designated organizational officials.

Baan Alsinawi

TALATEK, LLC

Downloadable Self-Assessment

http://www.genedge.org/cybersecurity-assessment-request

Summary of Support:

- GENEDGE services can help identify your weak spots, decrease the costs of increasing your security
- We work with technical firms to conduct a vulnerability assessment
- Provide you with a gap analysis
- Work with you to prioritize the gaps and target spending to protect “Crown Jewels”
- Help develop an implementation plan to close the gaps
- Provide guidance on completing an Information Security Plan

Thank You For Attending

Contact GENEDGE

To Help Improve Your Security Posture

And Reduce Cyber Risks

Roy Luebke

Email: rluebke@genedge.org

Cell: 276-732-8372