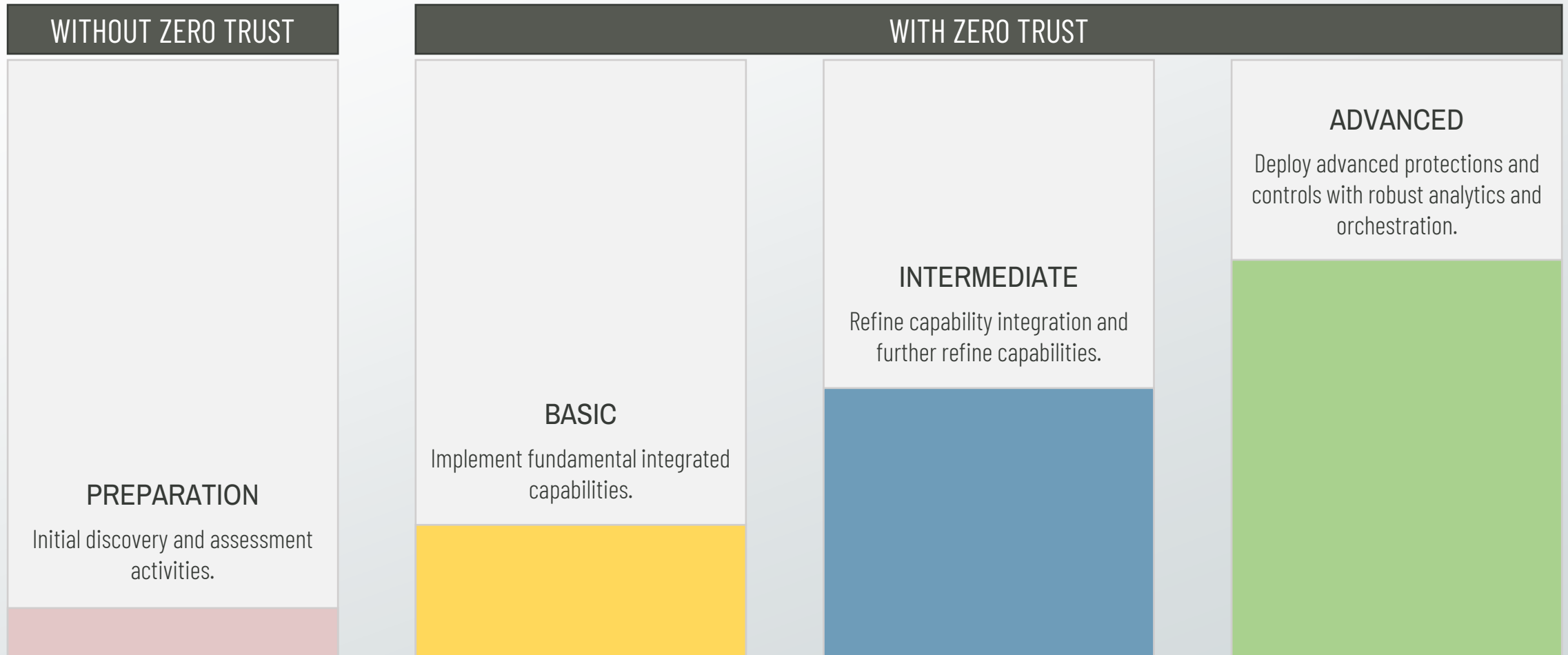
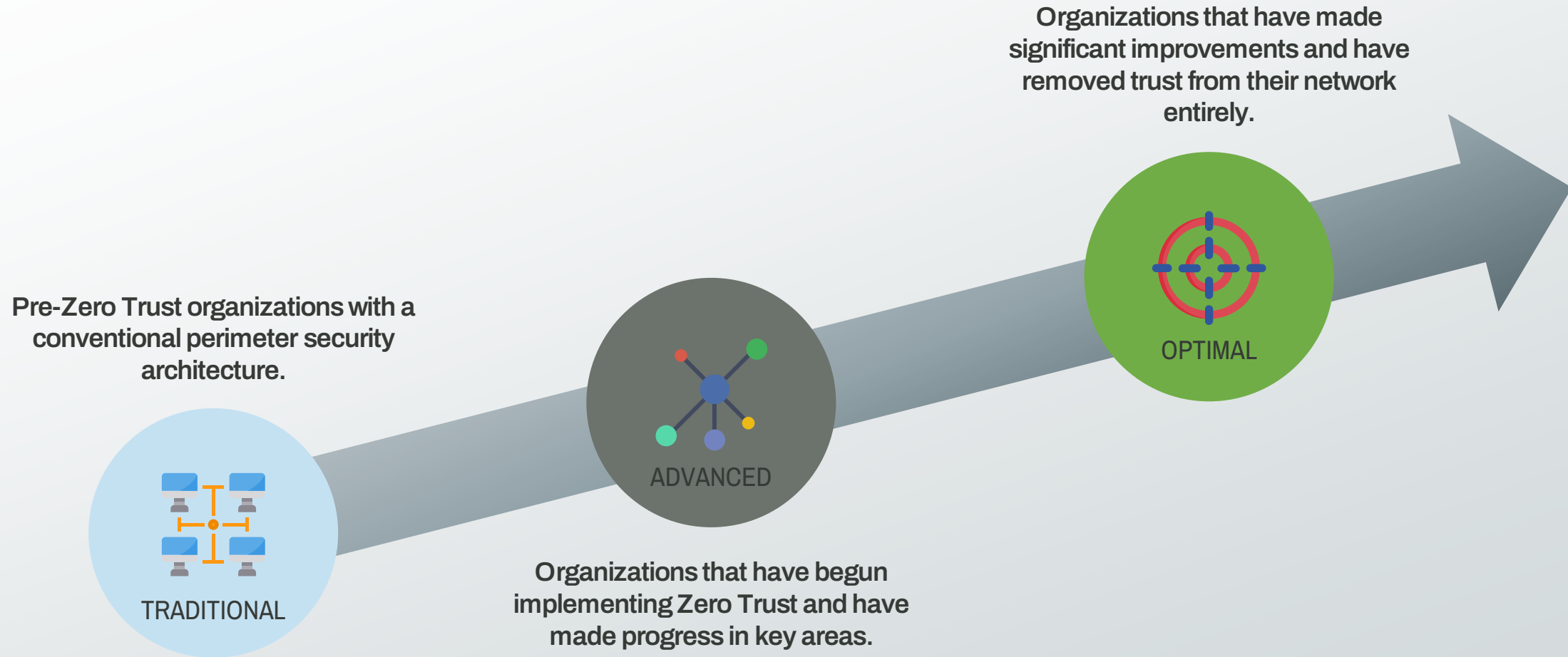


Zero Trust Maturity Models

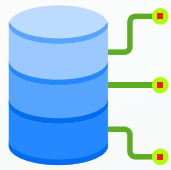
NSA Zero Trust Maturity Model



Microsoft Zero Trust Maturity Model



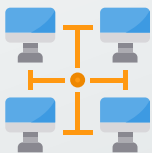
Microsoft Zero Trust Maturity Model



Data



Identity





Network

	TRADITIONAL	ADVANCED	OPTIMAL
Data	Access is controlled by perimeter-based security, not data sensitivity.	Data is classified and labeled based on sensitivity.	Data classification is improved by machine learning and artificial intelligence.
Identity	Visibility into identity-based risks is very limited.	Data analytics improve visibility into identity-based risks.	User, device, location, and behavior are analyzed in real-time to determine risk and provide ongoing protection.
Network	Designed using minimal network security perimeters with a flat open network architecture.	Designed utilizing ingress and egress cloud micro-perimeters with some network micro-segmentation.	Designed utilizing fully distributed ingress and egress cloud micro-perimeters and deeper micro-segmentation.

CISA Zero Trust Maturity Model



IDENTITY	DEVICE	NETWORK/ ENVIRONMENT	APPLICATION WORKLOAD	DATA
<ul style="list-style-type: none"> • Password or Multi-Factor Authentication (MFA) • Limited Risk Assessment 	<ul style="list-style-type: none"> • Limited Visibility into Compliance • Simple Inventory 	<ul style="list-style-type: none"> • Large Macro-Segmentation • Minimal Internal or External Traffic Encryption 	<ul style="list-style-type: none"> • Access Based on Local Authorization • Minimal Integration with Workflow • Some Cloud Accessibility 	<ul style="list-style-type: none"> • Not Well Inventoried • Static Control • Unencrypted
 <p>ADVANCED</p> <ul style="list-style-type: none"> • MFA • Some Identity Federation with Cloud and On-Premise Systems 	<ul style="list-style-type: none"> • Compliance Enforcement Employed • Data Access Depends on Device Posture on First Access 	<ul style="list-style-type: none"> • Defined by Ingress/Egress Micro-Perimeters • Basic Analytics 	<ul style="list-style-type: none"> • Access Based on Centralized Authentication • Basic Integration into Application Workflow 	<ul style="list-style-type: none"> • Least Privilege Controls • Data Stored in Cloud or Remote Environments are Encrypted at Rest
 <p>OPTIMAL</p> <ul style="list-style-type: none"> • Continuous Validation • Real-Time Machine Learning Analysis 	<ul style="list-style-type: none"> • Constant Device Security Monitor and Validation • Data Access Depends on Real-Time Risk Analytics 	<ul style="list-style-type: none"> • Fully Distributed Ingress/Egress Micro-Perimeters • Machine Learning-Based Threat Protection • All Traffic is Encrypted 	<ul style="list-style-type: none"> • Access is Authorized Continuously • Strong Integration into Application Workflow 	<ul style="list-style-type: none"> • Dynamic Support • All Data is Encrypted

VISIBILITY AND ANALYTICS | AUTOMATION AND ORCHESTRATION | GOVERNANCE

DoD Target & Advanced Zero Trust Activities

