

# Zero Trust journey in the Government & Public Sector

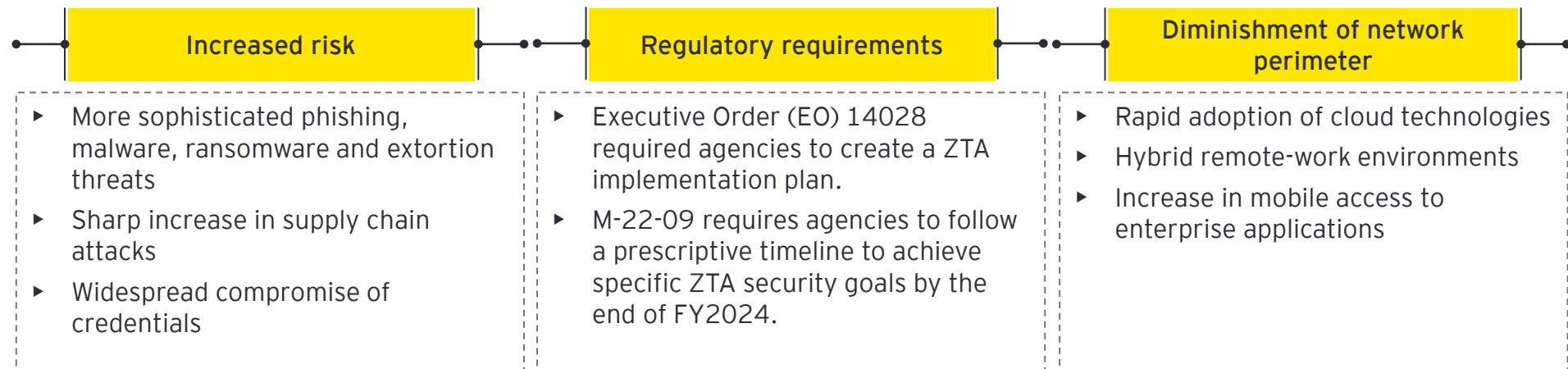
## Supporting your zero trust architecture transformation journey

### What is Zero Trust and Zero Trust Architecture?

Zero Trust is a security model that moves from static, network-based cyber defenses to a continuously validated security configuration across 5 key pillars: identity, device, network/environment, application workload and data. Zero Trust enforces the cybersecurity concept of “never trust, always verify.”

Zero Trust Architecture (ZTA) is a security framework that defines how Zero Trust services, including network infrastructure (physical and virtual), access workflows and operational policies, are structured to enable a Zero Trust security model.

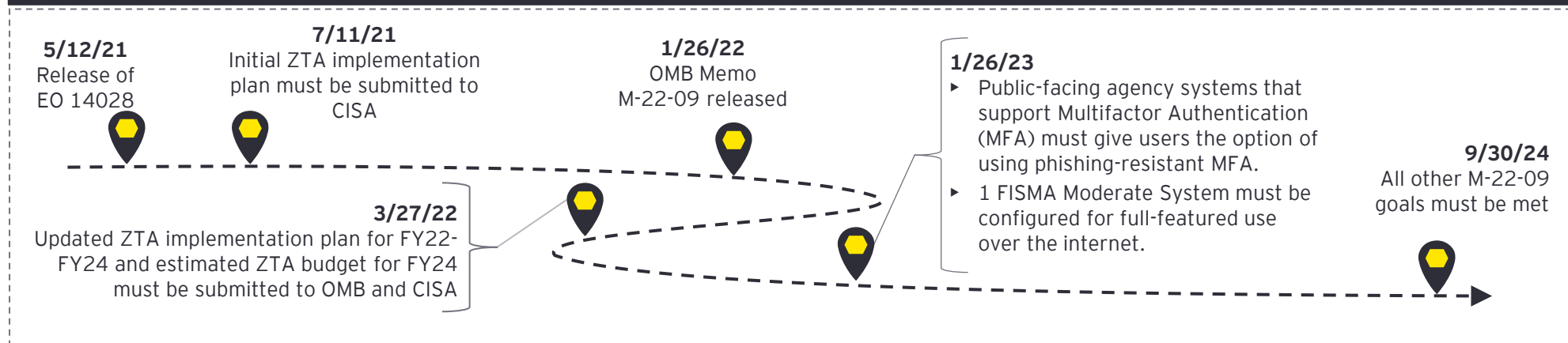
### The need for Zero Trust in the Government & Public Sector



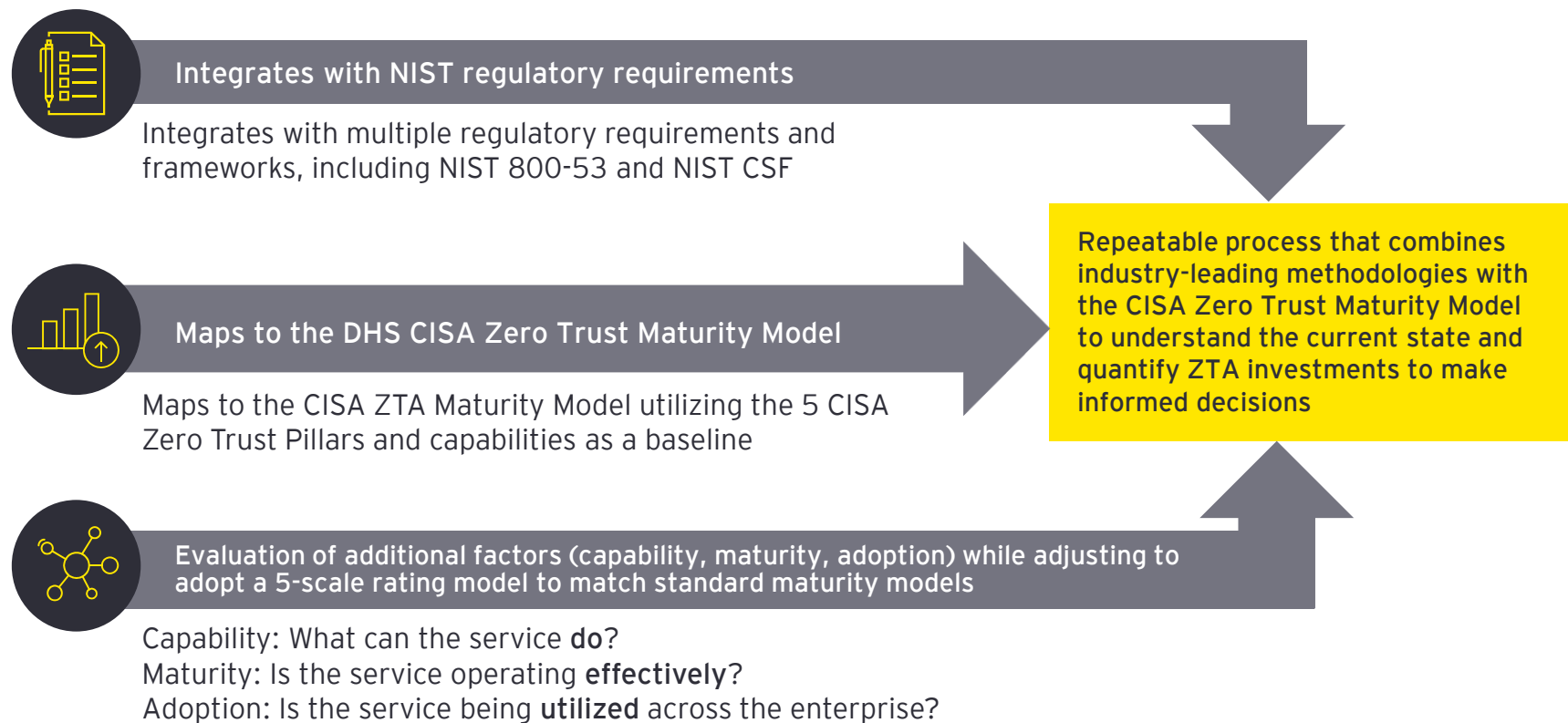
### M-22-09 Zero Trust Strategic Goals aligned with the 5 Pillars of the CISA Zero Trust Maturity Model

- Identity**
  - ▶ Access to enterprise resources managed by a centralized identity access and management system
  - ▶ Phishing-resistant MFA enforced at the application layer
- Device**
  - ▶ Complete and accurate device inventory
  - ▶ Device health and compliance is ensured prior to enabling authorization
  - ▶ Installation of endpoint detection and response (EDR) tools and established information sharing capabilities
- Network/environment**
  - ▶ Strategically segmented networks with monitoring to identify behavioral anomalies
  - ▶ Encryption of all Domain Name System requests, HTTP traffic and emails in transit
- Application workload**
  - ▶ Applications treated as internet-connected
  - ▶ Applications routinely subjected to rigorous testing
  - ▶ Repeatable, immutable workload deployment
- Data**
  - ▶ Data identified, inventoried, classified, labeled and protected
  - ▶ Enterprise-wide logging and information sharing

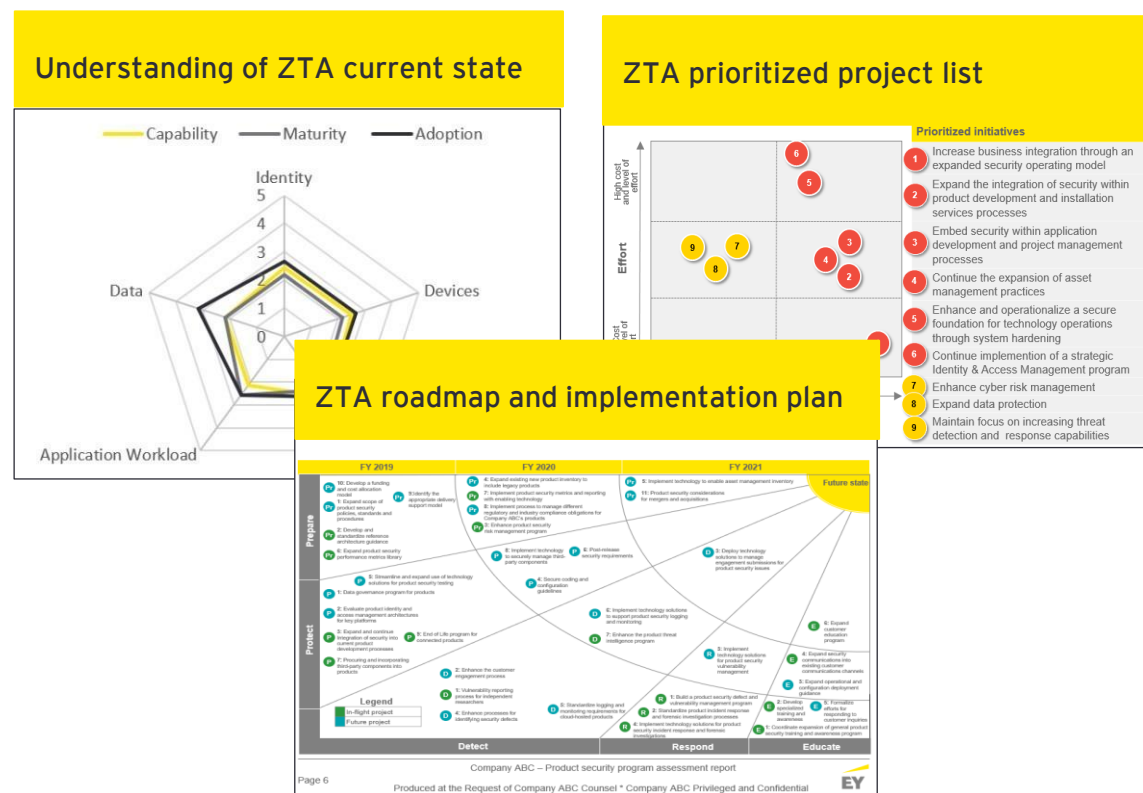
### Federal timeline for ZTA implementation



The EY ZTA Approach expands upon the CISA Zero Trust Maturity Model to provide a robust understanding of your ZTA current state and to help you plan to meet M-22-09 goals.



## EY Zero Trust key outcomes



## EY Zero Trust Services

We offer the full scope of Zero Trust services to support your transformation, including assessment, design, implementation and management.

Assessment	Identity	Device	Networking/environment	Application workload	Data
<ul style="list-style-type: none"> <li>ZTA assessments</li> <li>Cyber program assessment</li> <li>System assessments</li> <li>Penetration testing</li> <li>Cloud-readiness assessment</li> <li>Software security assessment</li> </ul>	<ul style="list-style-type: none"> <li>Identity and access management</li> <li>Privileged access management</li> <li>MFA</li> <li>Context-aware and conditional access</li> <li>Zero Trust policy engine deployment</li> <li>User behavior analytics</li> </ul>	<ul style="list-style-type: none"> <li>Device and asset management</li> <li>Device trust and compliance</li> <li>High-value asset identification</li> <li>EDR tool deployment and configuration</li> </ul>	<ul style="list-style-type: none"> <li>Software-defined networking</li> <li>Micro-/macro-segmentation design and deployment</li> <li>Network visibility and analytics</li> <li>Network management</li> <li>SOC services, security monitoring</li> </ul>	<ul style="list-style-type: none"> <li>DevSecOps</li> <li>Software supply chain</li> <li>Granular access control</li> <li>Service mesh</li> <li>Authentication/authorization models</li> </ul>	<ul style="list-style-type: none"> <li>Data inventory, classification and identification of critical data</li> <li>Broad data loss prevention</li> <li>Automated data classification and discovery</li> <li>Security orchestration and automation</li> </ul>

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