





# ESG Next Generation: Developing Enterprise Capabilities through ESG Modernization

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**December 4, 2023** 



# Agenda

- 1. ESG Background
- 2. ESG Next Generation Vision
- 3. Modernize Enterprise Services & Capabilities through ESG NextGen

- A. Increase Business Alignment
- B. Scale Operations
- C. Increase Digital Maturity
- D. Improve Customer Experience
- E. Modernize FDA Cybersecurity Defenses
- F. Reduce Technology Debt
- 4. Summary
- 5. Q's and A's



# Background – ESG High Level Overview





Industry Submitter



Receive Receipt / ACK

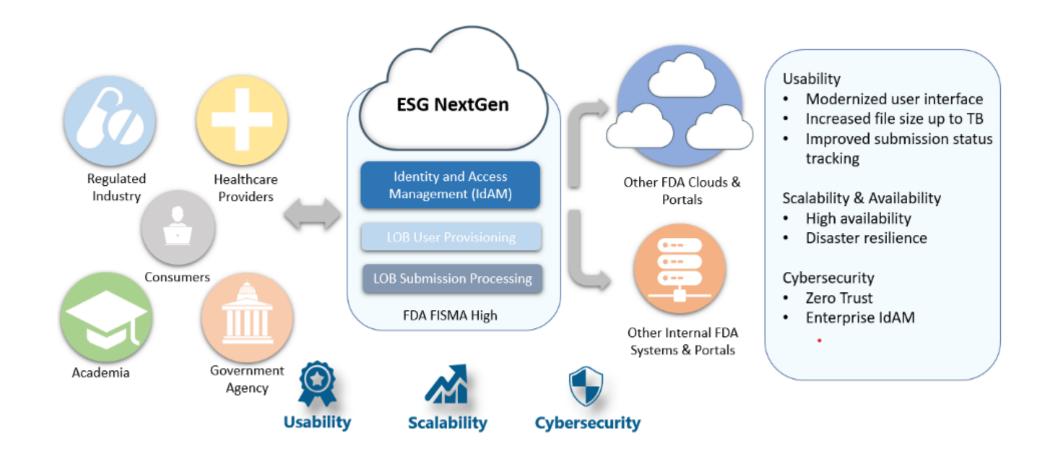




Downstream Systems

### FDA

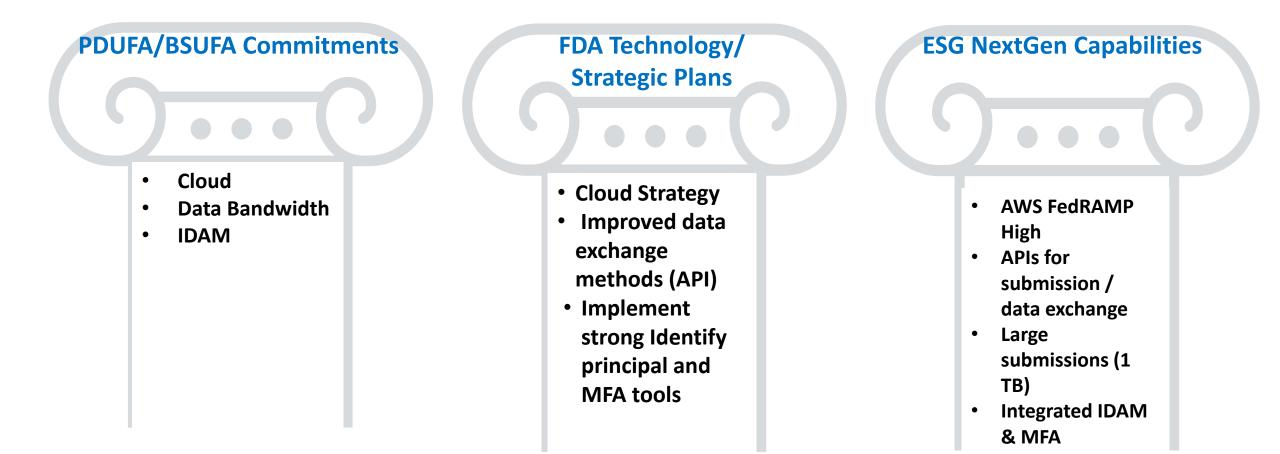
## **ESG NextGen Vision**





FDA Digital Transformation Symposium

### **Increase Business Alignment**



# **Scale Operations**



- Scalability is difficult and expensive to achieve under Hybrid Cloud infrastructure
- Does not align well with FDA's Modernization Strategy

#### <u>To be:</u>

- Cloud capabilities and scalability align to FDA's Modernization Strategy
- Provide flexibility for responding to unexpected influx of data/submissions
- Ability to react at a faster rate and lower cost

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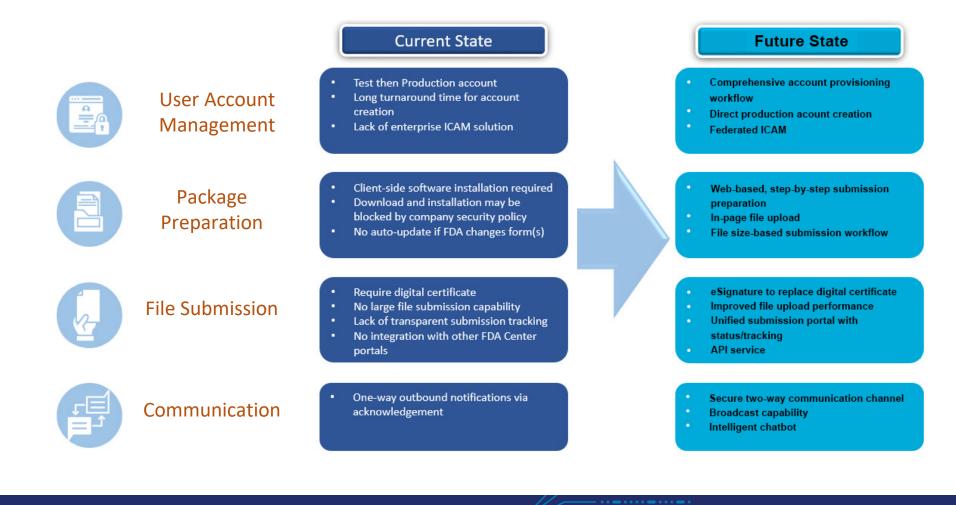
FDA

# **Increase Digital Maturity**



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### **Improve Customer Experience**





# Modernize FDA Cybersecurity Defense

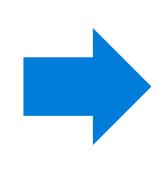
- Unified submission portal reducing number of intake portals reduces the risk of security vulnerabilities and threats
- Enterprise, Identity, Credential and Access Management (ICAM) Solution
  - Modernize the FDA's IT infrastructure to protect against threats, protect sensitive data, provide user and access provisioning and enable digital transformation at a faster rate
  - Complies with Federal Cybersecurity mandates
  - Solution for Multi-Factor Authentication (MFA) and Single Sign-On (SSO) capability
  - Enterprise solution standardize security implementation and reduces costly siloed Identity and Access Management (IDAM) solutions





## **Reduce Technology Debt**





Current State – ESG

- Building custom code on top of COTS to address additional business needs
- Developing work around or short-term solutions to address deficiencies
- Greatly limit the ability to enhance functionality to meet the changing needs of the business
- Legacy technology
- OS Dependency (i.e. Windows Based PC)
- Lacks security standard integration



- Future State ESG NextGen
  - Aligns with the latest FDA IT Strategic Plan
  - Implement a web-based solution to provide a more enhanced user experience
  - Leverages modern software development and cloudbased technologies
  - Enterprise IDAM solution
  - IT solution is device independent





### **Summary - Benefits of ESG NextGen**

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Aligns with FDA Modernization Action Plans (i.e., TMAP, DMAP, EMAP, etc.)

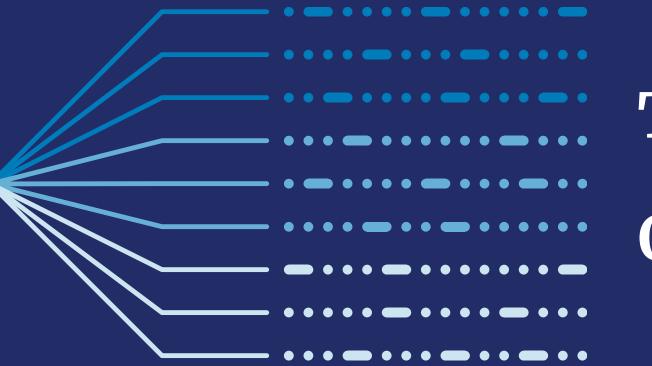
Facilitates the transition of silo/duplicate IT capabilities into Enterprise level while being supportive of center's schedules & priorities

Reduces both capital and FTE support costs on long term basis

Minimizes exposure and promotes uniformity in security compliances







Thank you! Questions?

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