



IT Transformation  
6.3 - IAM

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## Refine IAM Governance Framework

## Implement a Modern IAM Solution

*Establishes automated lifecycle and access governance capabilities across University systems.*

**Current Risk:** Proliferation of ad-hoc (not standardized) IAM implementations is magnifying security risks and end-user experience issues.

**Current Risk:** Significant deficiencies in foundational IAM capabilities required to support institutions strategic objectives.

**Impact:** Implementing an IAM solution and integrating it with the University systems can enforce policy/standards-based access control.

# └ IAM Governance Framework

# Refine IAM Governance

## Problem statement

- No policy oversight that covers all IAM functions at VT.
- No formal/structured approach to comprehensive oversight of IAM functions at VT.
- No defined comprehensive vision and roadmap for IAM functions at VT.
- No documented current and future architecture for IAM at VT.
- No clarity regarding roles and responsibilities between central and distributed IAM services.
- Struggles with obtaining adequate funding for critical initiatives.

Given that IAM is a critical layer of cyber security the above problems constitute a significant risk.

# Refine IAM Governance

- IAM Governance Framework

- Roles and Responsibilities
- Vision
- Roadmap
- Architecture
- Business Case
- Projects and Initiatives

- IAM Governance Work Groups

- IAM Advisory
- IAM Policy
- IAM Architecture
- IAM Risk Management

# Refine IAM Governance

- IAM Policy Work
  - Expand 7040 to address IAM in general
  - Expand and revise standards to address subjects including:
    - Accounts other than the PID (Hokies, Service Accounts, others, etc)
    - Identity and accounts lifecycles
    - Authorization
    - Provisioning/De-provisioning
    - Authentication
    - Etc.

# Refine IAM Governance

- IAM Architecture Work
  - Expand current SIS Architecture Group to include others outside SIS
  - Document current state architecture
  - Define and Document future state architecture
    - Overall, Groups, Access Policy, Authorization
    - Provisioning/Deprovisioning
    - Identity lifecycles, Entity registry/person matching
    - Access Request Processing
- IAM Risk Management Work
  - Inventory and score IAM risks
  - Recommend mitigations



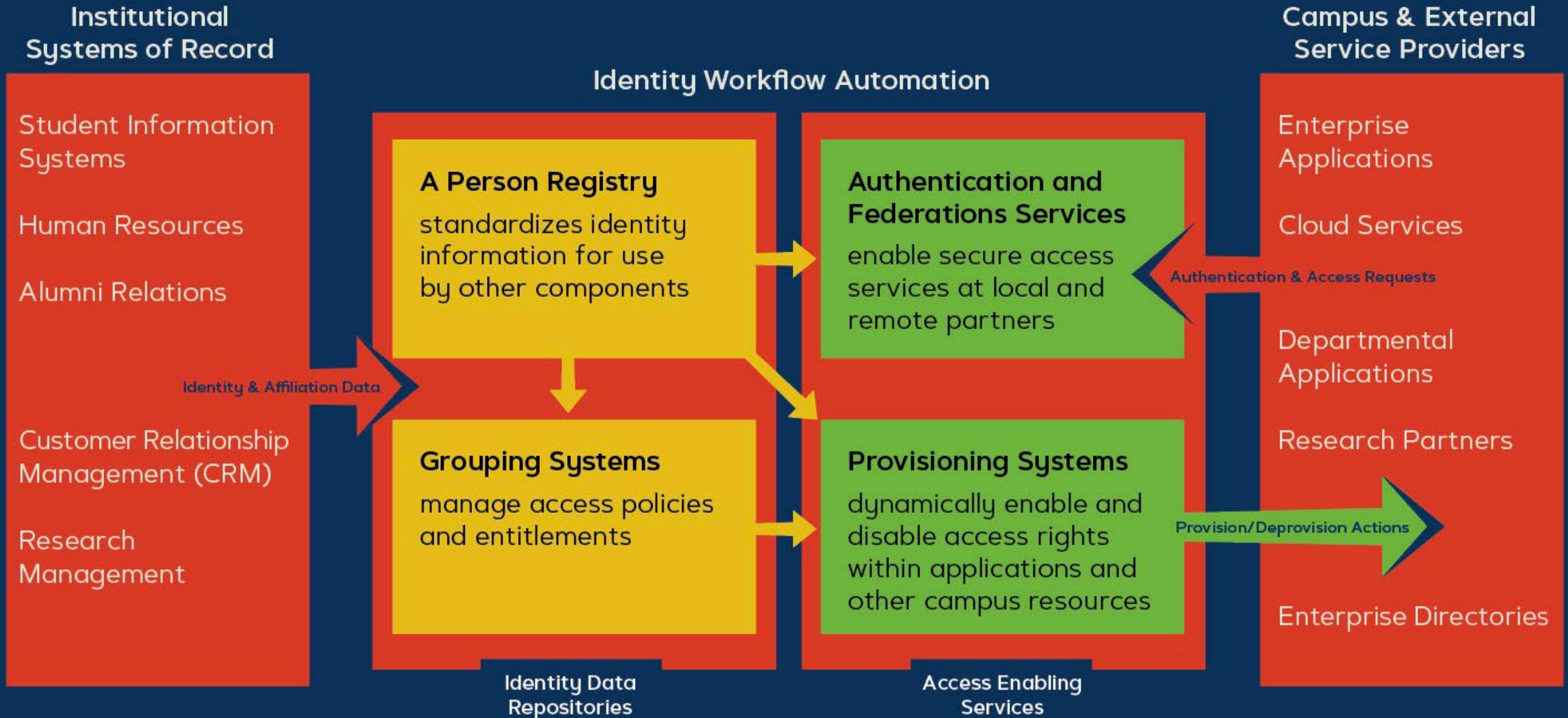
# Modern IAM Solution



# Modern IAM Solution

- Problem Statement:
  - No enterprise provisioning/deprovisioning solution
    - Ad-hoc provisioning solutions across IT services
    - Current capabilities are custom/home grown
  - No enterprise access request processing solution
    - No good/central way to request access
    - Current capabilities are custom/home grown
- “Modern IAM Solution” = Identity Governance & Administration
  - ***Access Request Processing***
  - ***Provisioning/Deprovisioning***
  - Attestation, Audit and Reporting
  - Identity Lifecycle Governance
  - Access Policy Management

# THE BUSINESS CONTEXT FOR THE TRUSTED ACCESS PLATFORM



# Modern IAM Solution

VT Solution = Implement MidPoint

- InCommon TAP Architecture @ VT:

- Shibboleth – HAVE
- Grouper – HAVE
- MidPoint – COMING SOON!
- CoManage – NO THANKS!

- Why MidPoint:

- InCommon TAP Architecture
- Open-Source Solution
- Mature product
- <https://evolveum.com/>



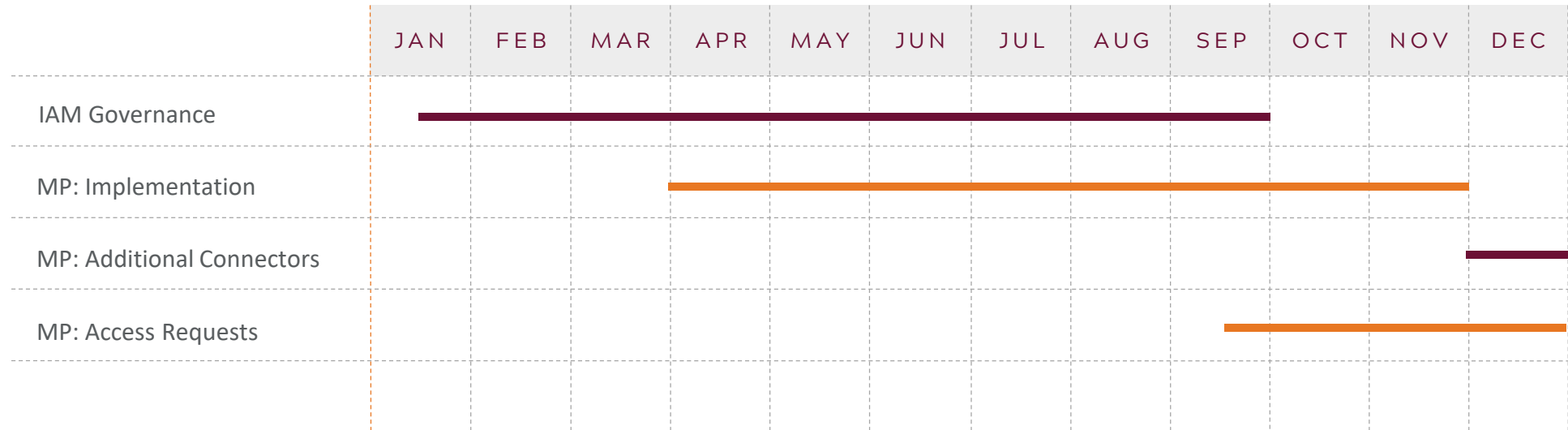
- MidPoint for what?

- Access Request Processing
- Provisioning/Deprovisioning Engine!

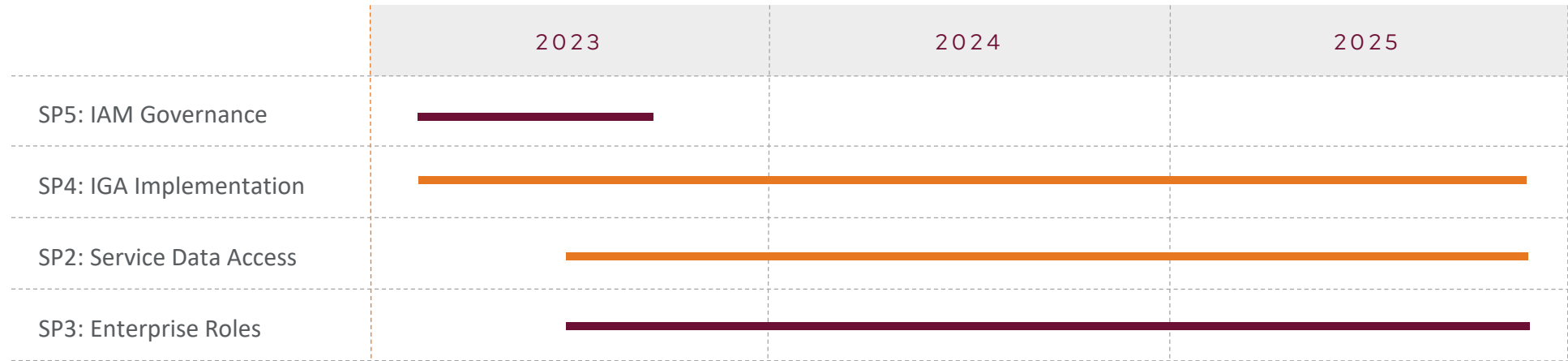
# IT Transformation 6.3

- 4 Sub-Projects (DSAAP)
  - Sub-Project 1 – Grouper Implementation – DONE 2021
  - Sub-Project 2 – Service Data Access Mapping Administration Framework
  - Sub-Project 3 – Enterprise Roles Administration Framework
  - Sub-Project 4 – Implement IGA (MidPoint) – In Progress
- 1 Sub-Project (IAM Governance)
  - Sub-Project 5 – IAM Governance Framework - In Progress
- SIS Changes
  - Identity Strategy & Solutions (ISS) now fully staffed.

# 2023 Timeline



# Project Timeline



# IT Transformation 6.3

# Q&A

IT Transformation Open House

Monday 4/3 3:00pm-4:00pm

<https://virginiatech.zoom.us/j/8521674>

[9811](https://virginiatech.zoom.us/j/8521674)