

Architecture Review Board (ARB)

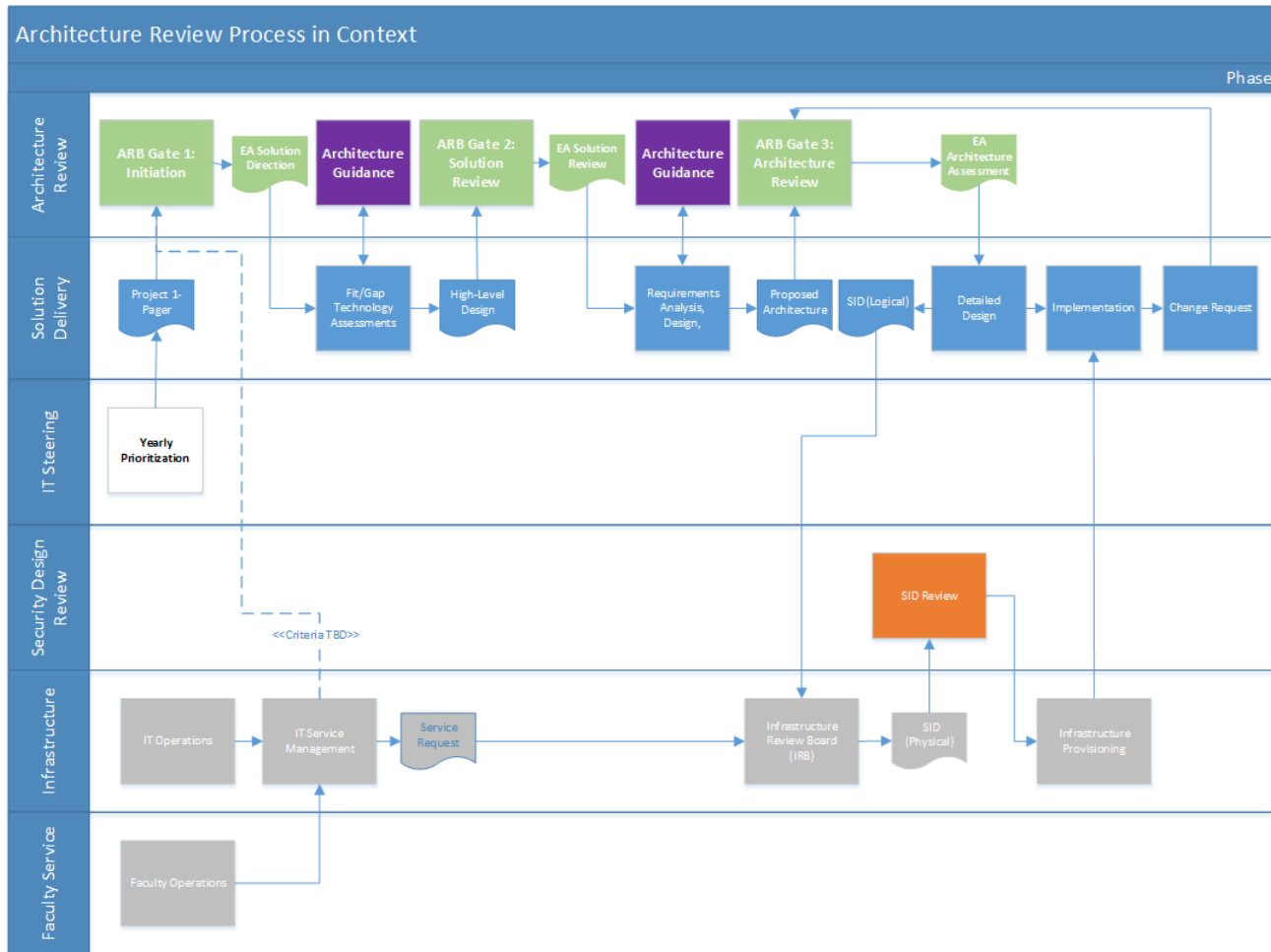
Presentation Outline

- ARB – Goals
- ARB – Big Picture
- ARB – Membership
- ARB – 3 Steps
 - Gate 1: *Initiation*
 - Gate 2: *Solution Review*
 - Gate 3: *Architecture Review*

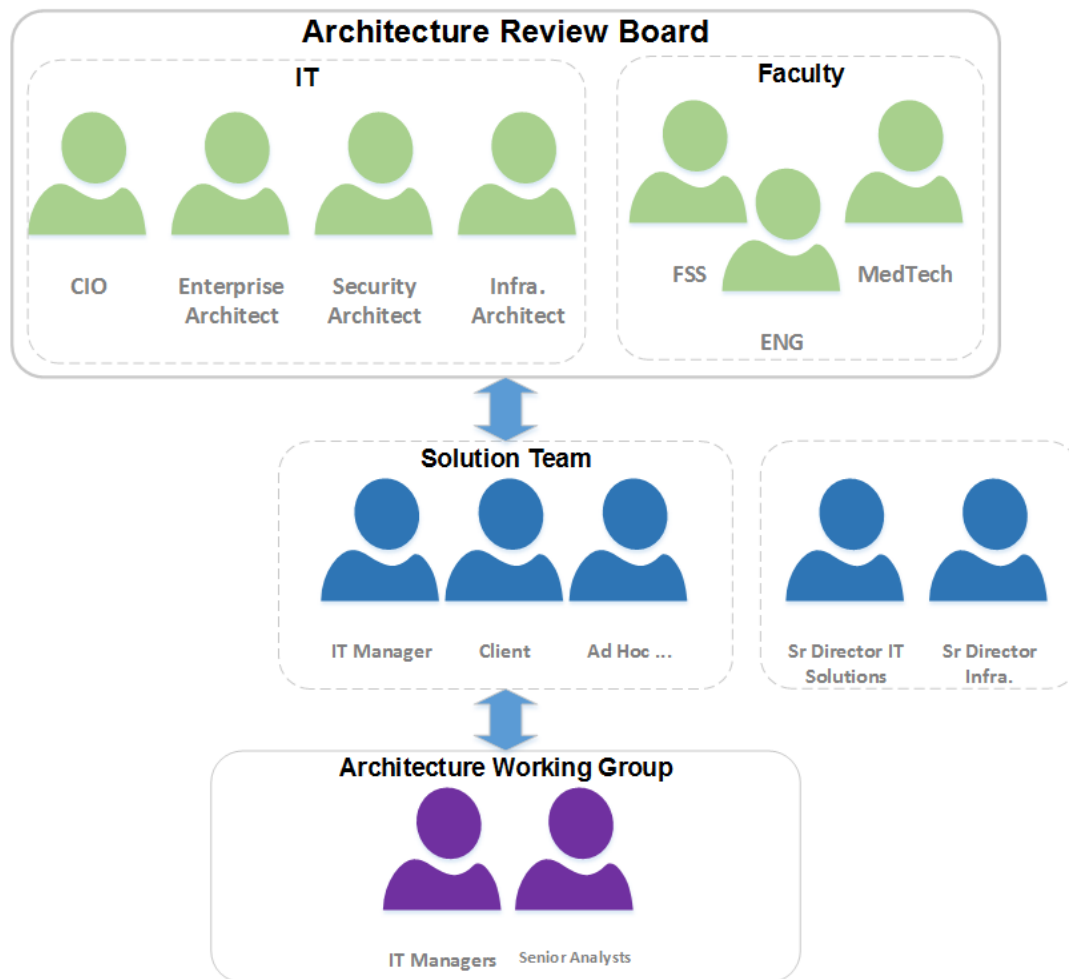
ARB - Goals

- Support Client Objectives
 - Identifying opportunities for reuse early
 - Identifying risks early
 - Opening new communication channels among stakeholders
- Support EA Objectives
 - Alignment of IT project to EA principles, strategies and roadmaps
- Support IT Objectives
 - Cooperation: work with each other, with our clients, and our partners
 - Efficiency: to streamline the technology architecture review process
 - Quality: to ensure the technology architecture reflects our joint commitment to quality

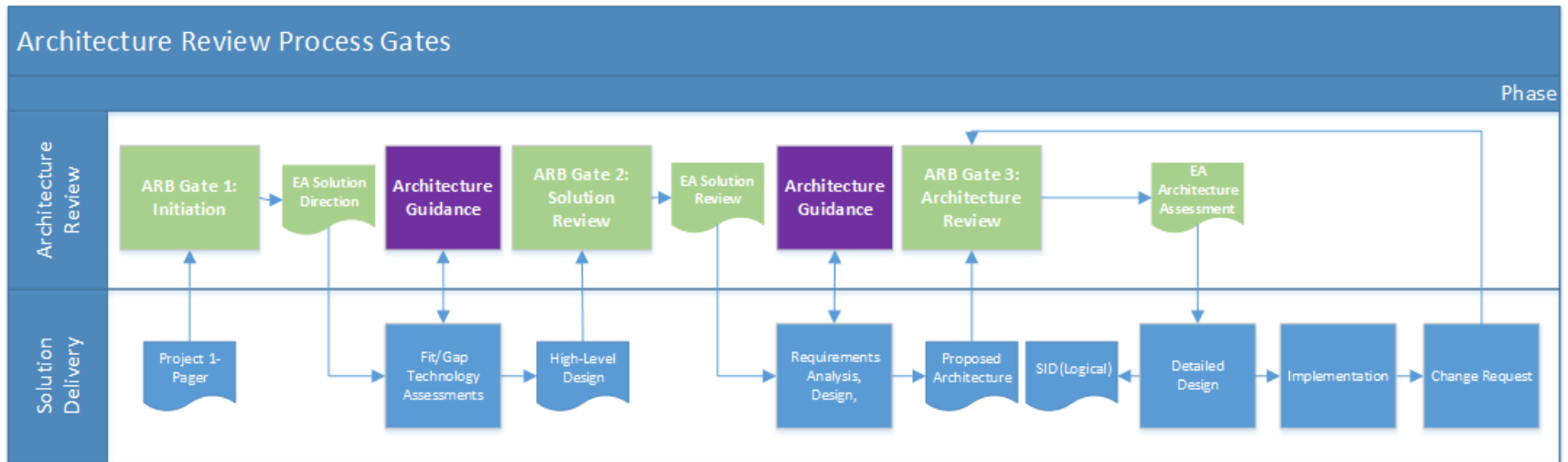
ARB – Big Picture



ARB - Membership



ARB – 3 Steps



- Gate 1: Initiation
 - Initiation Presentation (Client and IT Manager)
 - The ARB will recommend specific solutions and technology directions that the project team will include in their options analysis
- Gate 2: Solution Review
 - Solution Review Presentation (IT Manager)
 - The ARB will make a recommendation based on a fit/gap assessment of the proposed solution against EA principles and target-state roadmaps
- Gate 3: Architecture Review
 - Architect Review Presentation (IT Manager)
 - The ARB will make a recommendation based on security risk assessment, alignment with technology standards, and operational feasibility.

Architecture Review Board – Gate Details

INITIATION

ARB Initiation

Input: 1-Pager Presentation

Item	Description
Project Details	Project Name, Sponsor, Budget
Project Context	Timelines / Constraints / Special Considerations
Current Situation	Current state process, data/information, and business application.
Problems Statement	Problem or opportunity prompting this project activity - in customer terms
Business Case	Desired state process, data/information, and business application
Approach	Sole-Source, RFI / RFP Internal
Key Clients	Impacted internal or external clients
Outcomes	Expected outcomes or metrics
Strategic Alignment	<ul style="list-style-type: none">Student Experience, Research Excellence, International, Bilingualism

ARB Initiation

Outcome: Solution Direction

ARB Outcomes	Description
ARB Delegate	<ul style="list-style-type: none">Identify an IT lead for the project
Solution Review Period	<ul style="list-style-type: none">Period at which the project is expected to present at Gate 2 (Solution Review)Alternatively, explicitly stating that this requirement is waived.
Solution Direction	<ul style="list-style-type: none">Specific solution and technology direction that the project team will include in their options analysis.

Architecture Review Board – Gate Details

SOLUTION REVIEW

ARB Solution Review

Input: High-Level Design Presentation

Solution	Description
Key Client Impacts	<ul style="list-style-type: none">Internal and external clients and stakeholders
Key Data Impacts	<ul style="list-style-type: none">Data elements and classification
Proposed Technology Solution	<ul style="list-style-type: none">What is the proposed technology solution, including existing or evolved application and services.
Options Analysis	<ul style="list-style-type: none">How does the proposed architecture compare to other options?
Use Case Realization	<ul style="list-style-type: none">How are architecturally significant use cases realized by the solution?
Viewpoints	<ul style="list-style-type: none">Describe the architecturally significant viewpoints such as business process, security, information/data, and technology.
Exceptions to Existing Standards	<ul style="list-style-type: none">Any known exceptions to existing standards

*Include opportunities / risks from Architecture Guidance

ARB Solution Review

Outcome: Solution Review

Solution Review Aspect	Details
Architectural Review Period	<ul style="list-style-type: none"> • Period at which the project is expected to present at Gate 3 (<i>Architectural Review</i>) • Alternatively, explicitly stating that this requirement is waived.
EA Fit/Gap	<ul style="list-style-type: none"> • Alignment to EA Principals • Expected alignment to the target-state with respect to: Security, SOA, Mobile, Business Intelligence (BI), and Operational Simplicity
EA Architecture Review Criteria (as applicable)	<ul style="list-style-type: none"> • Applicable TOGAF Checklists • Applicable Security Checklists • PCI DSS Compliance • FIPPA Compliance • SOC 2 Type 2
Recommendation	<ul style="list-style-type: none"> • The ARB will make a recommendation based on a fit/gap assessment of the proposed solution against EA principles and target-state roadmaps.

Architecture Review Board – Gate Details

ARCHITECTURE REVIEW

ARB Architecture Review:

Input: Architecture Presentation

Architecture Design	Specific Elements
Users	<ul style="list-style-type: none"> • Internal / External • User / Administrative Roles
Systems and Data (SIS, ERP, CRM, Faculty / Service System)	<ul style="list-style-type: none"> • Confidentiality, Volume • Integration Patterns (ETL) / Analytics (BI) • Transmission / Storage Encryption
Security	<ul style="list-style-type: none"> • Authentication / Federation • Authorization / Access Control • Network Zoning
User Interface	<ul style="list-style-type: none"> • Web, Mobile
Platforms	<ul style="list-style-type: none"> • Portal • Document Management / Collaboration • Datacenter / Virtualization • Cloud (IaaS, PaaS, SaaS)
Application Integration	<ul style="list-style-type: none"> • Integration patterns (i.e. ESB/SOA) • Services
Operationalization	<ul style="list-style-type: none"> • Supported Technology • Availability and Monitoring • Resilience and High Availability(RPO,RTO) • Backup / Restore and Disaster Recovery

*Include opportunities / risks from Architecture Guidance

ARB Architecture Review

Outcome: Architecture Review

Evaluation Criteria	Evaluation Details
Security Risk Assessment	<ul style="list-style-type: none"> • What is the assessment of the proposed architecture from a security perspective.
EA Architecture Review Criteria	<ul style="list-style-type: none"> • Architecture alignment to technology standards operational feasibility requirements <ul style="list-style-type: none"> • Identity Provisioning, Authentication, Authorization • Network, Transport encryption, and zoning • Storage, Backup, Recovery • Integration SOA/ESB, ETL
Standards and Building Blocks	<ul style="list-style-type: none"> • Update to standards and building blocks as required
EA Application Inventory	<ul style="list-style-type: none"> • Update assets inventory and health as required
Recommendation	<ul style="list-style-type: none"> • The ARB will make a recommendation based on security risk assessment, alignment with technology standards, and operational feasibility.

Architecture Review Board – Gate Details

ARCHITECTURE GUIDANCE

Architecture Guidance

Input

Agenda	Discussion Points
Users	<ul style="list-style-type: none"> • Internal / External • User / Administrative Roles
Systems and Data Options (SIS, ERP, CRM, Faculty / Service System)	<ul style="list-style-type: none"> • Confidentiality, Volume • Integration Patterns (ETL) / Analytics (BI) • Transmission / Storage Encryption
Security Options	<ul style="list-style-type: none"> • Authentication / Federation • Authorization / Access Control • Network Zoning
User Interface Options	<ul style="list-style-type: none"> • Web, Mobile
Platforms Options	<ul style="list-style-type: none"> • Portal • Document Management / Collaboration • Datacenter / Virtualization • Cloud (IaaS, PaaS, SaaS)
Application Integration Options	<ul style="list-style-type: none"> • Integration patterns (i.e. ESB/SOA)
Operationalization Options	<ul style="list-style-type: none"> • Supported Technology • Availability and Monitoring • Resilience and High Availability(RPO,RTO) • Backup / Restore and Disaster Recovery

Architecture Guidance

Outcome: Guidance

Agenda	Discussion Points
Architecture Guidance	<ul style="list-style-type: none">• Recommendations that may guide, influence, or change the proposed architecture
Opportunities	<ul style="list-style-type: none">• Opportunities to be presented to the ARB
Risks	<ul style="list-style-type: none">• Risks to be included in the presentation to the ARB