

WSO2con2025

Tech Strategy for Modernization



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The Need for Modernization

The background is a rich, multi-colored space scene. It features a gradient from a bright orange-red on the left to a deep purple and blue on the right. The sky is filled with numerous stars of varying sizes and colors, some with prominent four-pointed diffraction patterns. In the lower-left quadrant, there is a large, glowing greenish-blue planet with a prominent ring system. In the lower-right quadrant, there is a smaller, glowing purple planet, also with a ring system. The overall atmosphere is one of vastness and cosmic wonder.

Technical Trends



INNOVATION

Top 10 Technology Trends For 2025



By [Ivan Shkvarun](#), Forbes Councils Member.
for [Forbes Technology Council](#), COUNCIL POST | Membership (fee-based)

Feb 03, 2025, 09:00am EST

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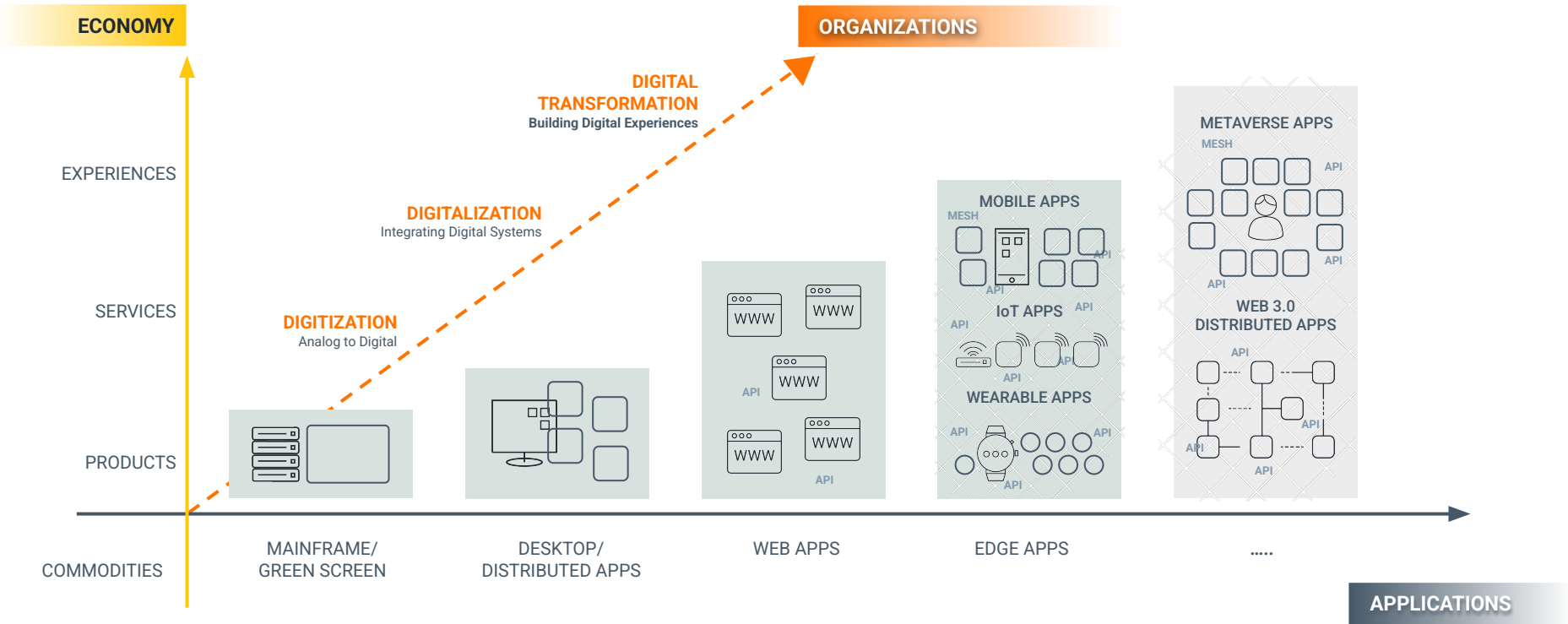
Ivan Shkvarun is the CEO and Co-founder of the data-driven investigation company Social Links (USA).



GETTY

As we enter 2025, technology continues to reshape our world in ways that would have seemed like science fiction just a few years ago. From AI-powered nuclear facilities to invisible intelligent assistants that anticipate our needs, this year's technological

Shift from Product based to Experience based selling





Your Typical Customer...

**The greatest danger in times of
turbulence is not the turbulence – it is
to act with yesterday's logic.**

- Peter Drucker -



Why businesses need to Modernize?



Competitive Advantage



Innovate



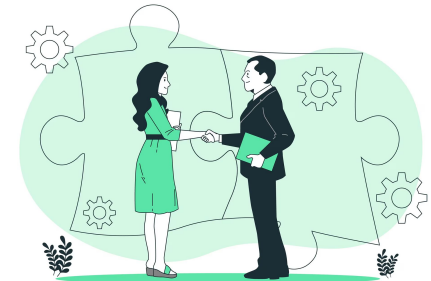
Reduce Tech Debt



Improve Customer Experience



Employee Satisfaction



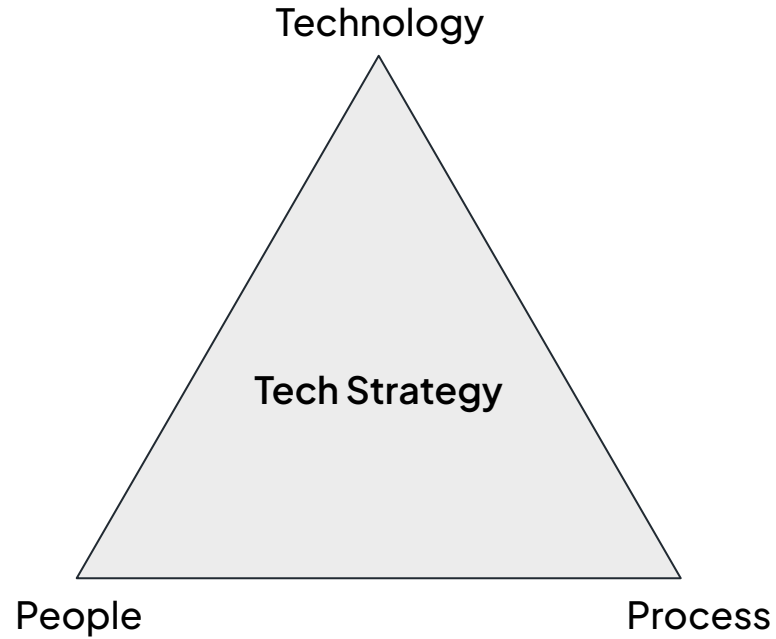
Improved Partner Engagement

Tech Strategy

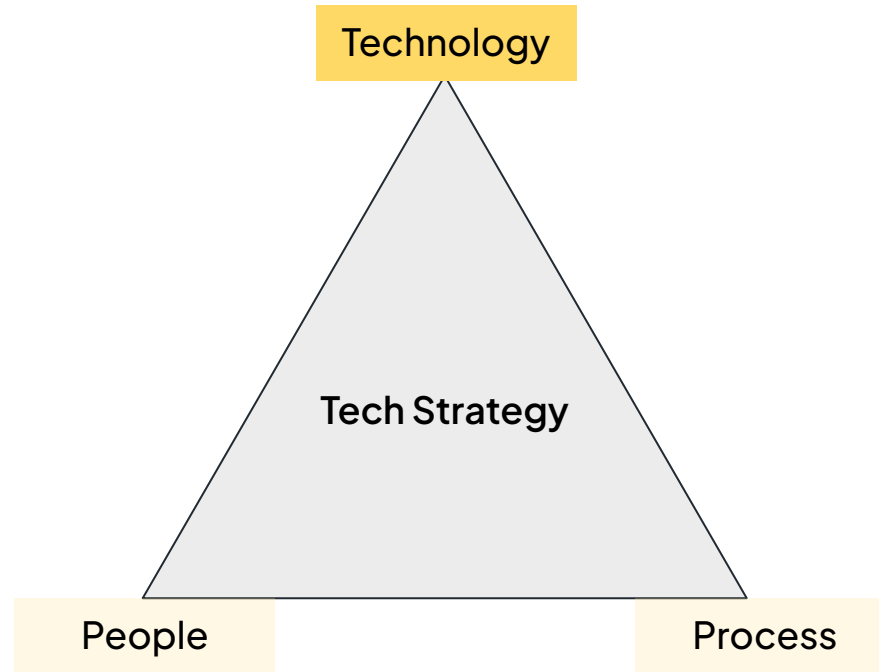
Having a Technical Strategy will allow you to achieve your Business Strategy and Goals, (through Modernization)



Tech Strategy



Tech Strategy



Modernize the Tech Landscape

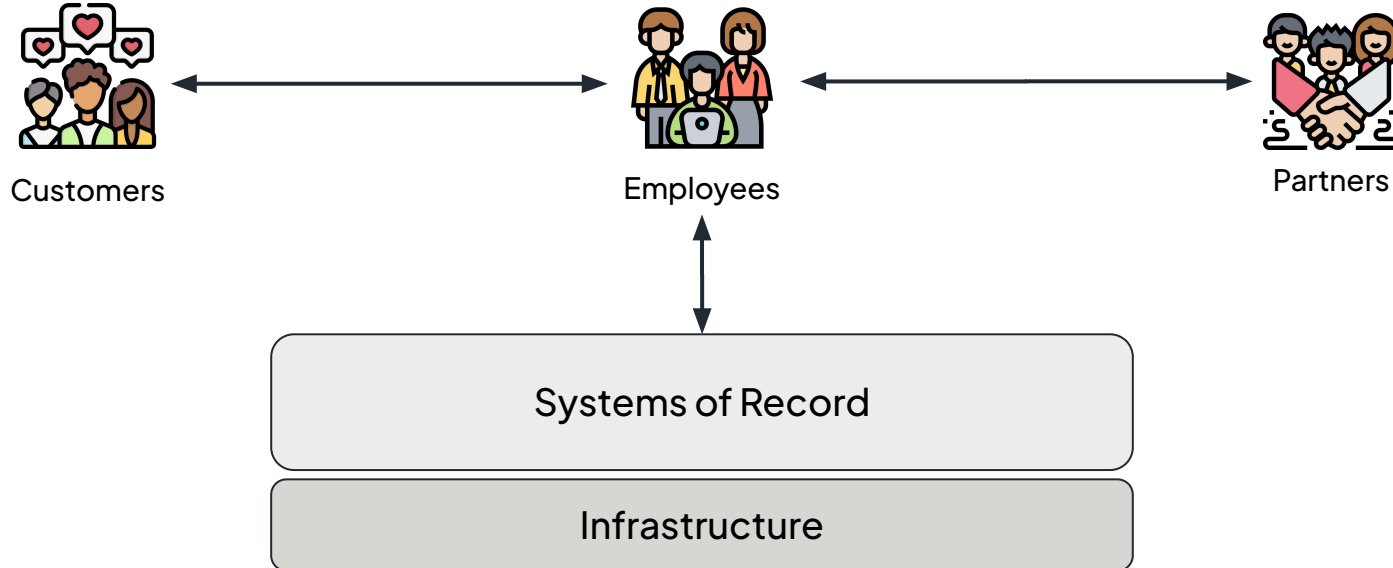
The background is a rich, multi-colored gradient transitioning from a bright orange-red on the left to a deep purple and blue on the right. It is filled with numerous small, white, star-like specks of varying sizes. Several larger, stylized celestial bodies are scattered throughout: a large, glowing orange-red planet with a thin ring system is positioned in the lower-left quadrant; a smaller, glowing purple planet with a thin ring system is in the lower-right quadrant; and a large, glowing orange-red planet is partially visible at the top center. The overall aesthetic is futuristic and cosmic.

Tech Strategy for Modernization

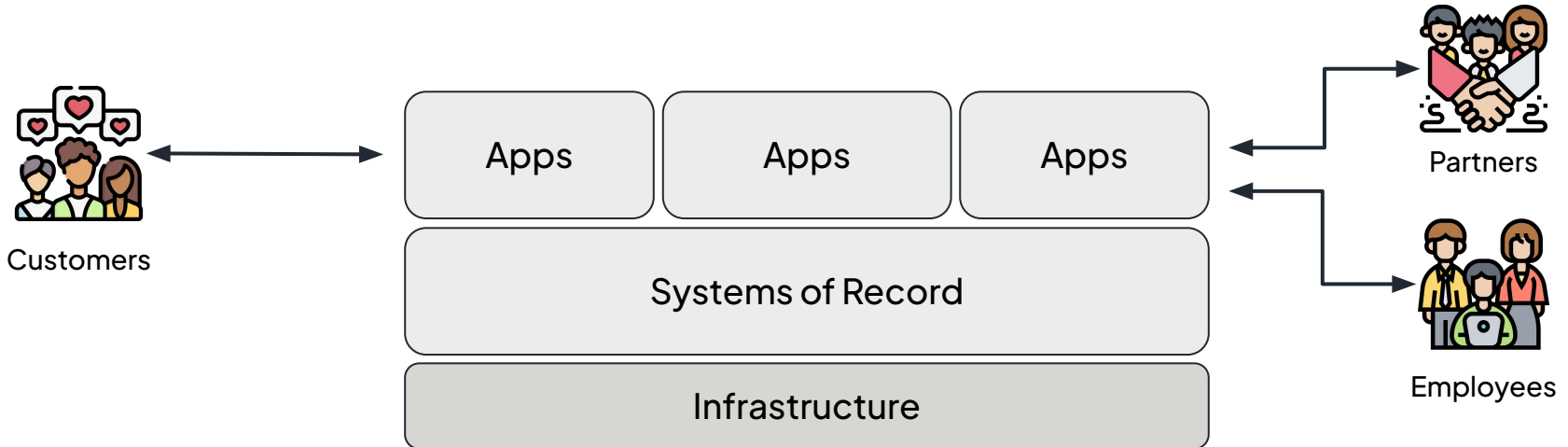
1. Analyze Current State
 - a. Existing Tech Landscape
 - b. Business Objectives
 - c. Risk Assessment



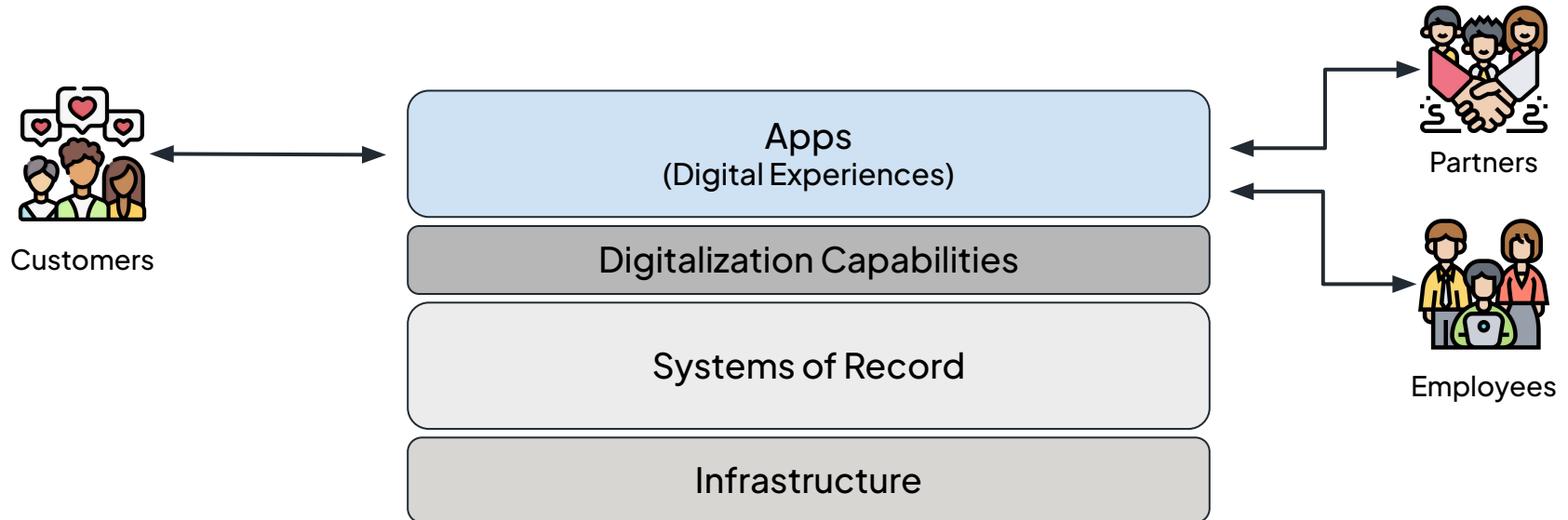
Maturity of Existing Tech Landscape



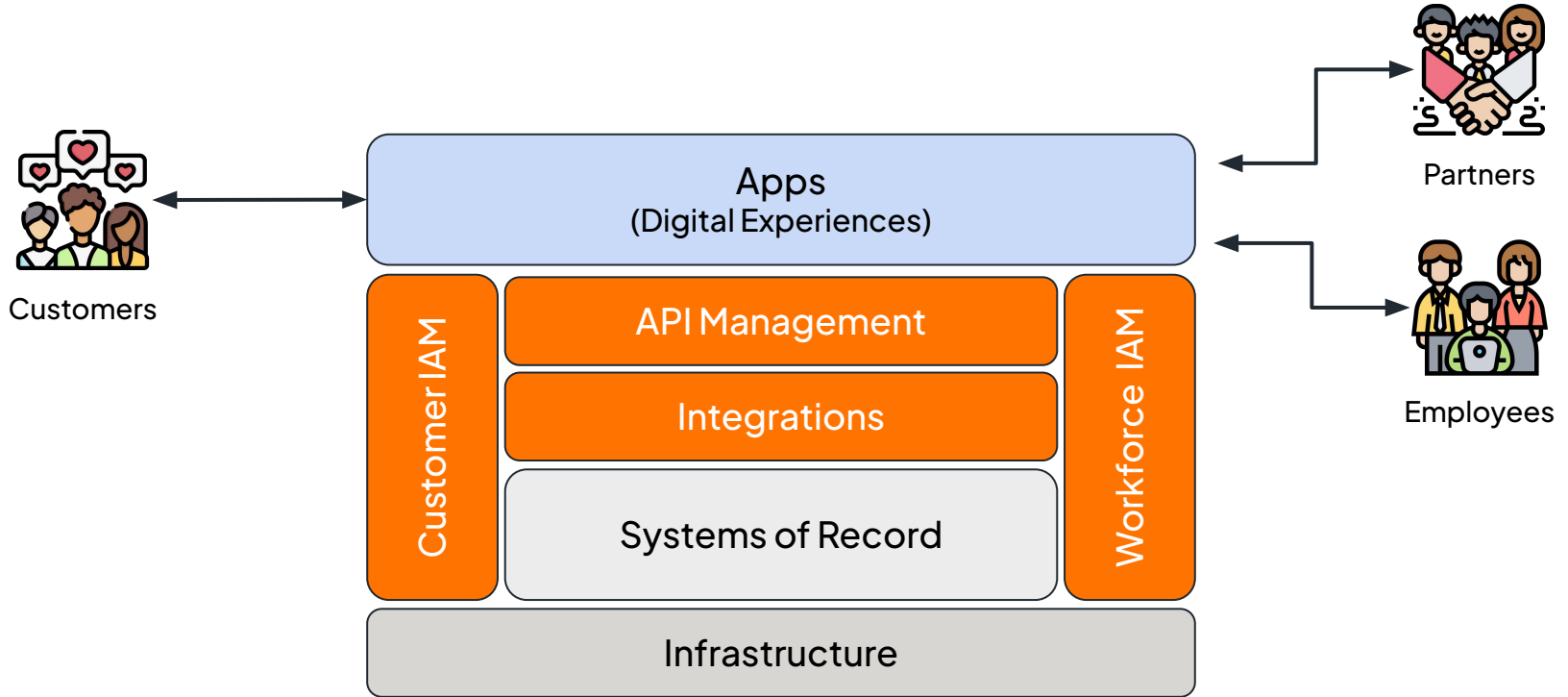
Maturity of Existing Tech Landscape



Maturity of Existing Tech Landscape



Maturity of Existing Tech Landscape



Tech Strategy for Modernization

1. Analyse Current State
2. Future State
 - a. Business Objectives
 - b. Technology Roadmap
 - c. Flexibility for Change



Tech and Business Strategy Alignment

The background is a vibrant space-themed gradient transitioning from orange-red on the left to dark blue and purple on the right. It is filled with numerous small white stars and several larger, stylized planets. One large planet with a ring system is visible in the lower-left quadrant, and a smaller ringed planet is in the lower-right quadrant. The overall aesthetic is futuristic and high-tech.

Tech Strategy for Modernization

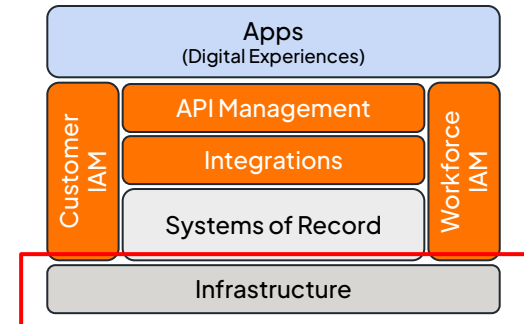
1. Analyse Current State
2. Future State
3. Technology Alignment
 - a. Technology Considerations
 - b. Alignment with Business Objectives



Technology Considerations

On-prem vs Cloud

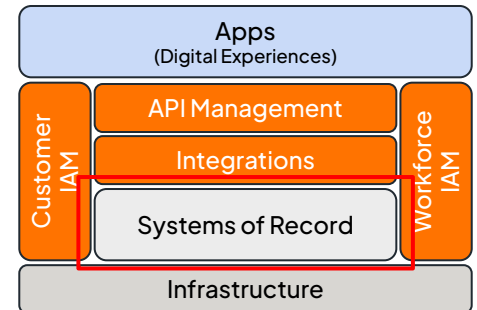
- User base (Employees, Customers, Partners)
- Scalability
- High-Availability
- Required platform capabilities (Data Storage, Analytics, AI, Serverless)
- Manageability of the Infrastructure
- Cost



Technology Considerations

Systems of Record

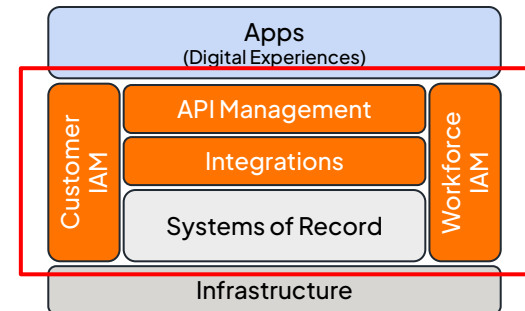
- Reducing Technical Debt
- Lifespan of Legacy Systems
- Reuse Existing Systems
- Interfaces for Integration



Technology Considerations

Technology Platform

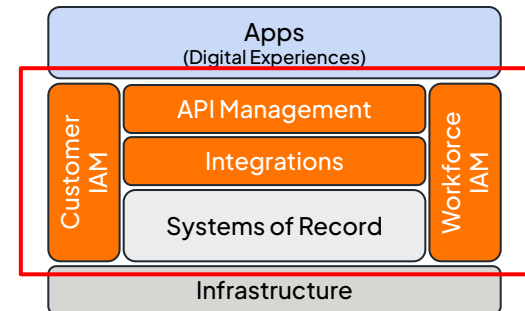
- Developer efficiency through the use of AI
 - AI Assisted Development
 - AI Assisted API Design
 - AI Assisted Implementation (i.e. Policies, Documentation, Testing)
- Separation of Concerns
- Composability -> Breaking down monoliths, MSA
- Integration capabilities -> Low code vs pro-code
- API-First Development
- API Governance
- DevOps -> APIOps practice



Technology Considerations

Technology Platform

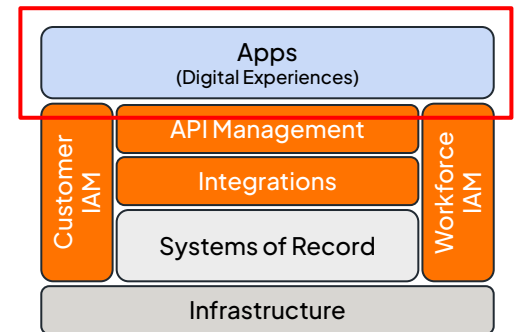
- Customised Authentication Journeys by user
- Authorization -> RBAC, ABAC, PBAC
- eKYC - 360° view of the Customer
- Zero Trust Architectures
- Defence-in-Depth
- Microsegmentation
- DevSecOps



Technology Considerations

Applications

- Frameworks for building WebApps, Mobile Apps
- Front end Architectures – Component Based, BFF, Micro Frontends
- Responsiveness
- Personalization and Customizability
- Self-service



Execution

The background is a rich, multi-colored space scene. It features a gradient from a bright orange-red on the left to a deep purple and blue on the right. The sky is filled with numerous stars of varying sizes and colors, some with prominent four-pointed diffraction patterns. In the lower-left quadrant, there is a large, teal-colored planet with a prominent ring system. In the lower-right quadrant, there is a smaller, purple-colored planet, also with a ring system. The overall atmosphere is that of a vast, colorful universe.

Tech Strategy for Modernization

1. Analyse Current State
2. Future State
3. Technology Alignment
4. Execution
 - a. Technology Selection
 - b. Implementation Approach
 - c. Change Management and Adoption

Technology Selection

- **Vendor Selection**
 - ⦿ Research and Compare different technology vendors
 - ⦿ Specific requirements and budget
- **Proof of Concept**
 - ⦿ Pilot projects to test and validate solution before full-scale implementation



Implementation Approach

- **Opt for a Phased Approach**
 - ⦿ Minimize disruptions
 - ⦿ Manage Risks
- **Integration**
 - ⦿ Seamless integration of new technologies with existing systems
 - ⦿ Start using them for new projects before migrating existing ones
- **Artifact and Data Migration**
 - ⦿ Plan for data migration
 - ⦿ Ensure consistency, data integrity and security

Change Management and Adoption

- Keep stakeholders informed and engaged
- Adequate training and support
- Leadership Buy-in
- Employee empowerment
- Continuous Learning



Governance

The background is a rich, multi-colored space scene. It features a gradient from a bright orange-red on the left to a deep purple and blue on the right. The space is filled with numerous stars of varying sizes and colors, some with prominent four-pointed diffraction patterns. Two ringed planets are visible: a larger, teal-colored one on the left and a smaller, purple one on the right. The overall effect is a dynamic and colorful cosmic environment.

Tech Strategy for Modernization

1. Analyse Current State
2. Future State
3. Technology Alignment
4. Execution
5. Governance
 - a. Roles and Responsibilities
 - b. Decision Making Framework
 - c. KPIs

Governance

- **Roles and Responsibilities**
 - ⦿ Clear definition of R&R for overseeing the modernization process
- **Decision Making Framework**
 - ⦿ Alignment with Business Goals and risk management
- **Key Performance Indicators (KPIs)**
 - ⦿ Track progress with measurable goals
 - ⦿ Regular Reporting

Tech Strategy for Modernization

1. Analyse Current State
2. Future State
3. Technology Alignment
4. Execution
5. Governance



Tech Strategy for Modernization

If the Business is still active?

```
while (true) {
```

1. Analyse Current State
2. Future State
3. Technology Alignment
4. Execution
5. Governance

```
}
```

Modernization is not a one time activity !

Key Takeaways

The background is a vibrant space scene with a color gradient from orange-red on the left to dark blue and purple on the right. It is filled with numerous stars of varying sizes and colors, some with prominent four-pointed diffraction patterns. In the lower-left quadrant, there is a large, teal-colored planet with a thin, dark ring. In the lower-right quadrant, there is a smaller, purple-colored planet with a thin, dark ring. The overall aesthetic is clean and futuristic.

Key Takeaways

- Businesses must modernize to keep up with the technology changes
- To stay ahead of the competition and keep stakeholders engaged
- Having a Tech Strategy ensures Modernization aligns with Business goals
- Tech Strategy must include Technology, People and Process
- Modernization is not a one time activity
- { Analyze -> Select Tech -> Align -> Execute -> Govern } : Repeat !
- You could depend on **WSO2** to always give you a platform with features that sets you up for the future

The background features a dark, space-like environment with a nebula in shades of red and orange. Scattered throughout are various 3D geometric shapes, including cubes and rectangular prisms, rendered in a blue-to-purple gradient. Some shapes have a glowing effect, and there are also some smaller, fainter shapes. A large, dark sphere is visible on the left side.

Thank you!

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