



# ORYX

— ERP —



# 1 | TECHNOLOGY ARCHITECTURE



A Secure, Scalable and Integrated Platform Built on Oracle Technologies



## CENTRALIZED ORACLE DATABASE

Single source of truth ensuring data integrity, consistency and high performance.



## WEB-BASED MULTI-TIER ARCHITECTURE

Scalable, secure and accessible from anywhere.



## ORACLE APEX PLATFORM

Low-code rapid development with enterprise-grade capabilities.



## DEPLOYMENT OPTIONS

On-Premise, Government Cloud or Oracle Cloud Infrastructure (OCI).



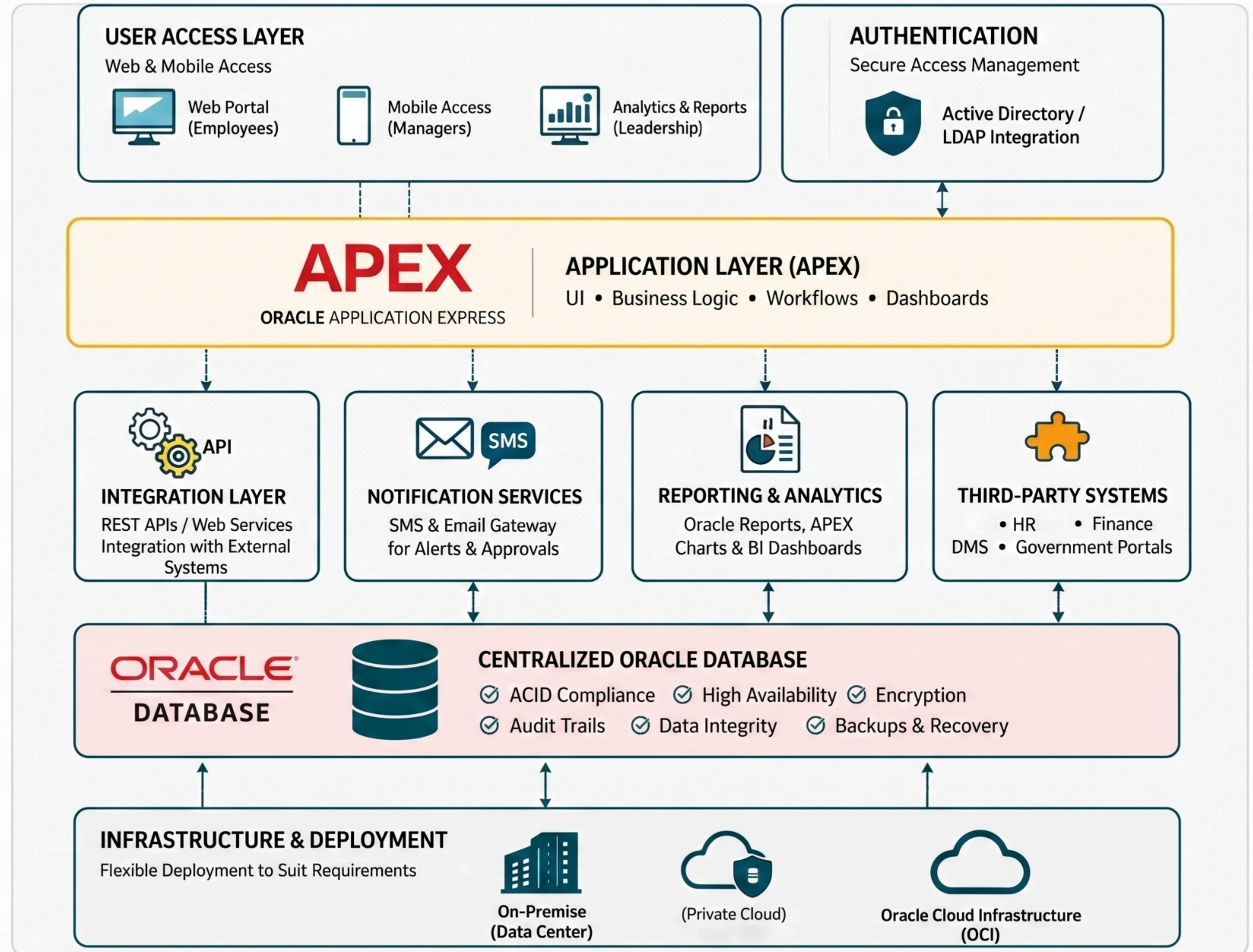
## SECURITY BY DESIGN

Role-based access, encryption, auditing and compliance built-in.



## SUPPORTS MULTIPLE ENVIRONMENTS

Production, Testing and Disaster Recovery (DR).



## SECURE

Built on Oracle security best practices



## SCALABLE

Designed to grow with your needs



## INTEGRATED

Seamless connectivity across systems

# 2 | WHY ORACLE & ORACLE APEX

A Government-Proven, Enterprise-Grade, and Cost-Effective Solution



## GOVERNMENT-PROVEN PLATFORM

- Widely used across ministries & public sector
- Compliant with audit, security & governance standards



## ORACLE APEX PLATFORM

- Low-code rapid development with enterprise-grade capls.



## WHY APEX?

- Runs inside the database → fewer layers
- Faster development (low-code)
- Higher performance & security

ORACLE  
DATABASE

APEX

ORACLE APPLICATION EXPRESS



INTEGRATION  
LAYER  
REST AP<sub>i</sub> /  
Web Services



NOTIFICATION  
SERVICES  
SMS & Email ~  
Alerts -Approvals



REPORTING &  
ANALYTICS  
Oracle-Reports PEX  
Charts & BI Dashboards



## ENTERPRISE-GRADE CAPABILITIES

- ACID-compliant transactions
- Built-in encryption & auditing
- High-volume processing (Finance, Procurement, Inventory)



## COST ADVANTAGE

- Unlimited users
- No per-user licensing
- Lower Total Cost of Ownership (TCO)



## COST-EFFECTIVE

- Unlimited users
- No per-user licensing
- Lower Total Cost of Ownership (TCO)



**SECURE** → Trusted Oracle security, encryption & auditing



**COST-EFFECTIVE** → No per-user licensing, lower TCO



### SECURE

Trusted Oracle security best practices



### GOVERNMENT-PROVEN

Used by ministries globally



### COST-EFFECTIVE

No per-user licensing, lower TCO

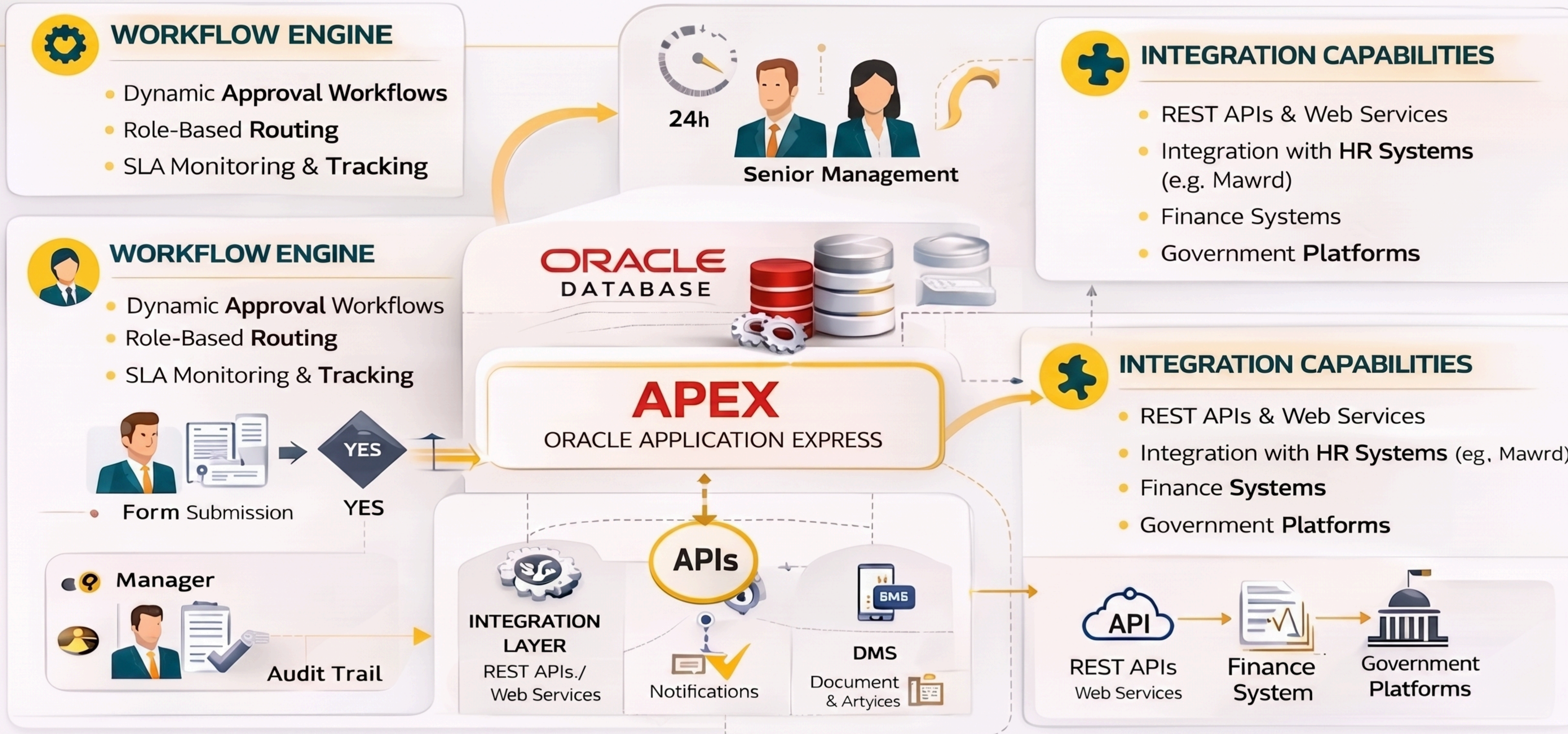


### INTEGRATED

Seamless connectivity across systems

# 3 | WORKFLOW ENGINE & INTEGRATION IN APEX

Automated, Transparent, and Auditable Business Processes Built Inside the ERP



## TRANSPARENT

- Multi-level Approvals & SLAs



## EFFICIENT

- Seamless Integration with core Systems

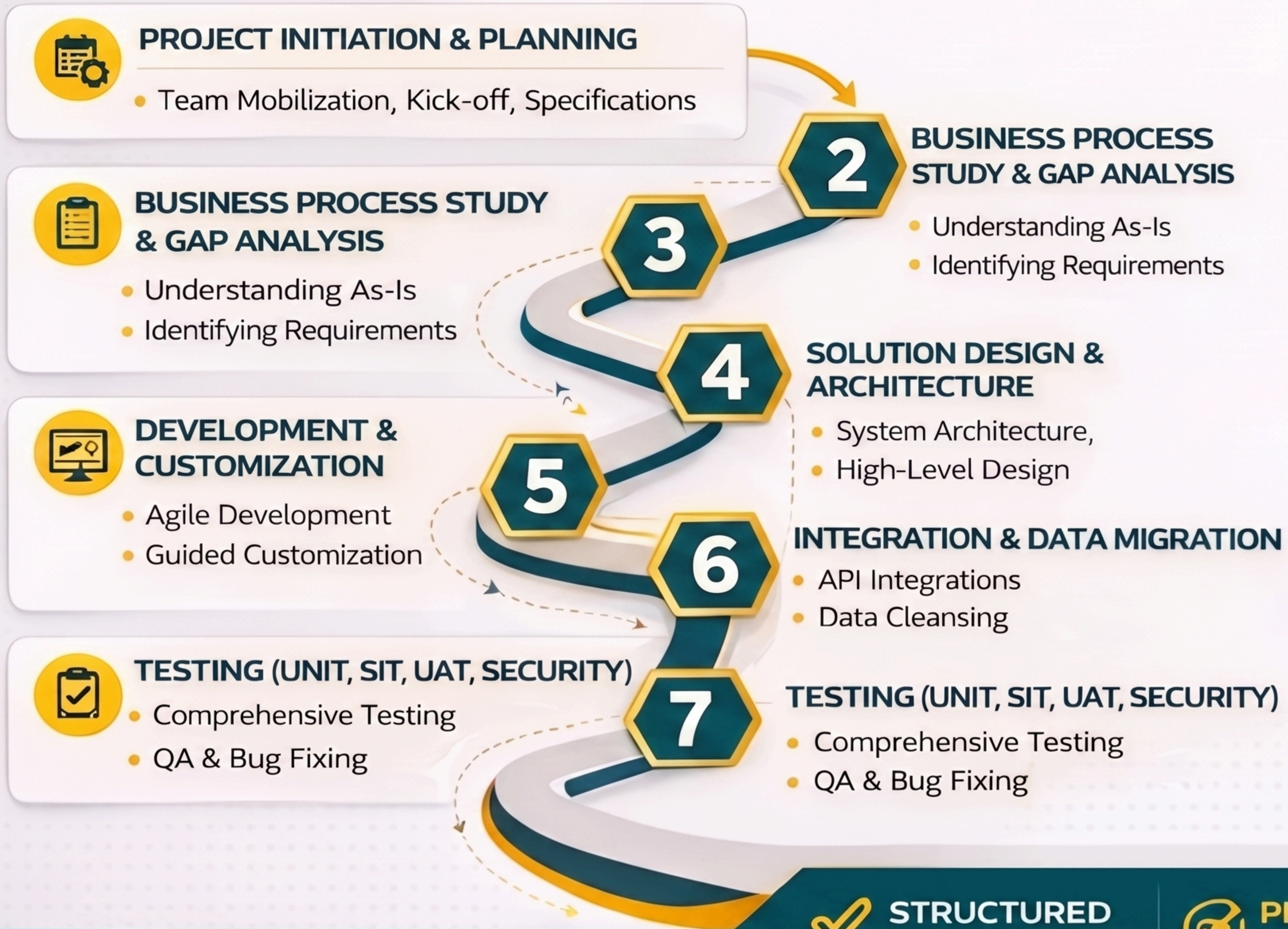


## AUDITABLE

- Complete Visibility & Traceability

# 4 | IMPLEMENTATION METHODOLOGY

Structured, Phased, and Iterative Approach for ERP & Internal Portal Projects



**ITERATIVE DELIVERY**

- Phased rollouts, continuous feedback

**COLLABORATIVE APPROACH**

- Close engagement with NABG stakeholders

**QUALITY ASSURANCE**

- Rigorous testing and quality control

**STRUCTURED**  
Phased rollouts ensuring step-by-

**PHASED DELIVERY**  
Stages aligned with project milestones

**STRUCTURED**  
Phased rollouts ensuring step-by-step success

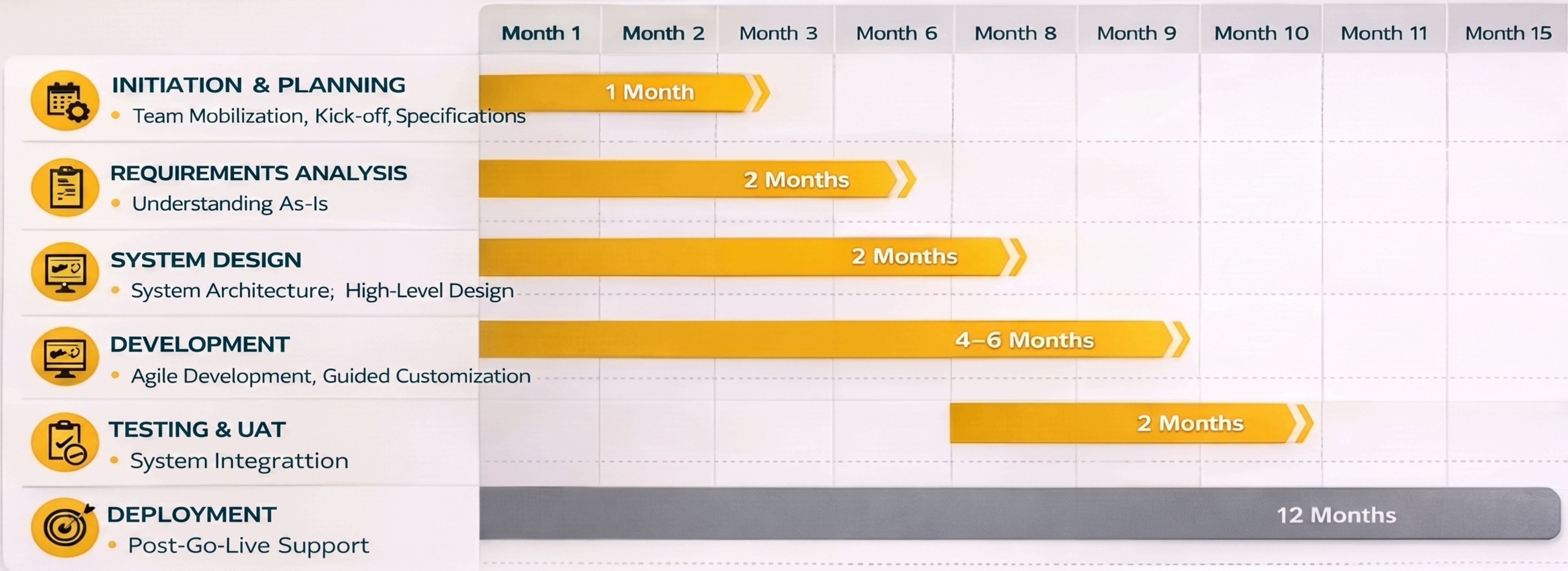
**PHASED DELIVERY**  
Stages aligned with project milestones

**FOCUSED ON QUALITY**  
QA embedded into every phase & iteration

# 5 | IMPLEMENTATION TIMELINE


Step-by-Step Timeline Ensuring Successful ERP Deployment

Estimated Duration: **12–15 Months**



Step-by-Step Timeline Ensuring Successful ERP Deployment

 **DEVELOPMENT FOCUS**  
• Development is the longest and most intensive phase

 **COMPREHENSIVE TESTING**  
• System Integration Testing (SIT), User Acceptance Testing (UAT), Security Testing

 **DEDICATED SUPPORT**  
• 12 Months of Post-Go-Live Support & Optimization

# 6 | DATA MIGRATION

Structured Approach to Move Legacy Data to the Modern ERP System

## KEY CONSIDERATIONS

- DATA ACCURACY & INTEGRITY**
  - Data cleansing & validation to ensure correct migration
- MINIMAL DOWNTIME**
  - Migration during off-peak periods

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- DATA ACCURACY & INTEGRITY**
  - Data cleansing & validation to ensure correct migration
- MINIMAL DOWNTIME**
  - Migration during off-peak periods
- SECURE TRANSFER**
  - Encrypted transfer using Oracle Data Pump

### ASSESS & ANALYZE

- Detailed Assessment of Legacy Data
- Identify Data Sources
- Mapping Fields to New System

### CLEANSING & VALIDATION

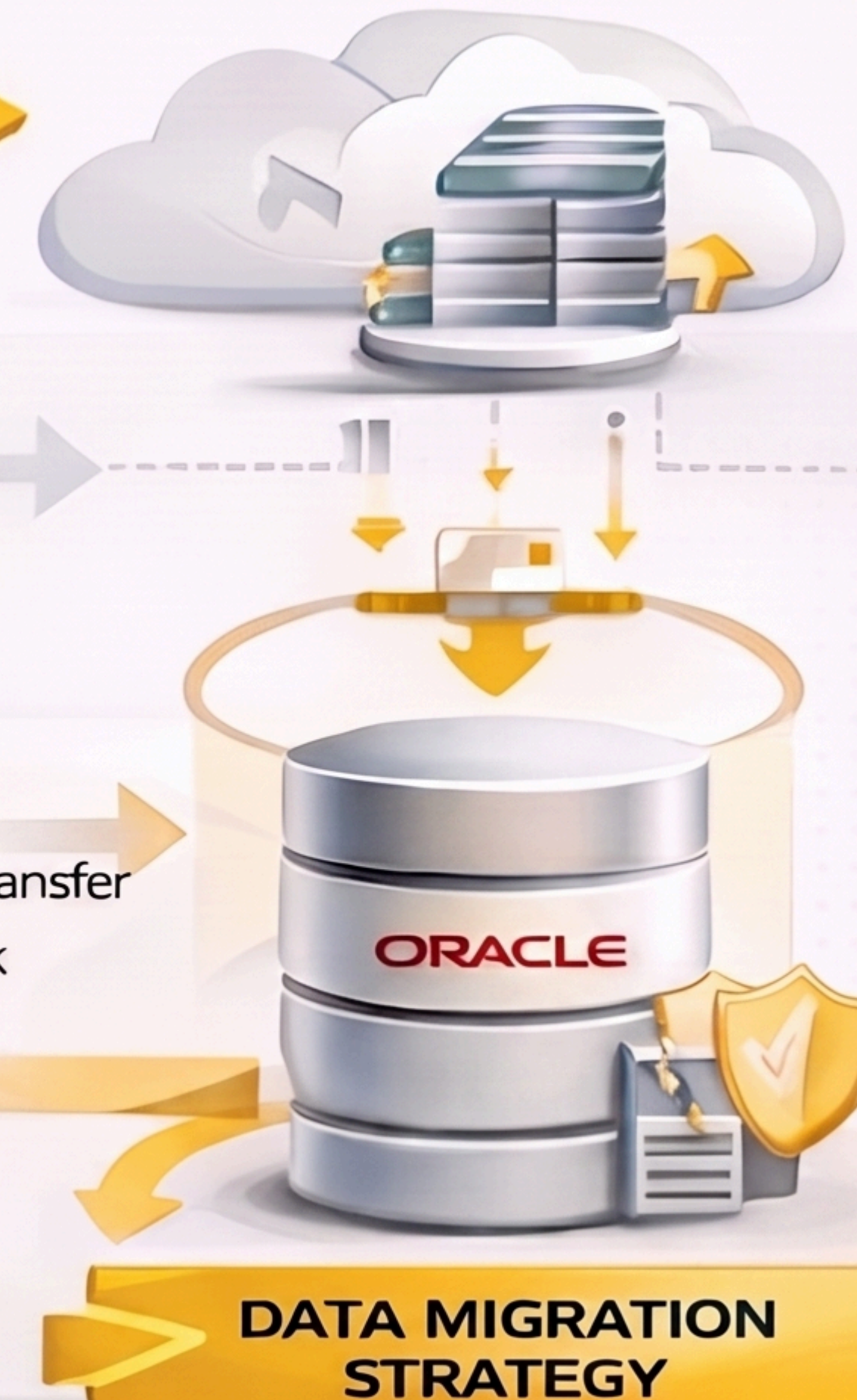
- Data Cleansing and Transformation
- Identify & Fix Data Quality issues
- Validate Data Consistency & Accuracy

### SECURE MIGRATION

- Oracle Data Pump for High-Speed Data Transfer
- Transfer via Secure Links or Govt Network
- Adheres to Security Best Practices

### FINAL RECONCILIATION & SIGN-OFF

- Compare Migrated Data vs. Legacy Data
- Adheres to Security Best Practices



Clean, Validated, and Reliable Data in the New ERP System

- CLEAN & VALID**
  - Valid data ensuring seamless ERP processes

- SECURE & COMPLIANT**
  - Secure, government-compliant data transfer

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- USER-APPROVED**
  - Final checks and approval by stakeholders

# 7 | SUPPORT & MAINTENANCE

Long-Term, Reliable, SLA-Driven Post-Implementation Support

## SUPPORT MODEL



### 1-YEAR WARRANTY

Comprehensive support covering bugs & issues



### 3-YEAR AMC (ANNUAL MAINTENANCE CONTRACT)

Ongoing technical support & system optimization


## SLA COVERAGE


- Defined Response & Resolution Times
- Incident Management
- Continuous Monitoring

## ONGOING SERVICES

- Preventive Maintenance
- System Updates & Enhancements
- Performance Optimization


## RELIABILITY & PERFORMANCE:


 **DEPENDABLE**  
Defined SLAs ensuring prompt, quality support


 **ONGOING SUPPORT**  
Maintenance & updates for optimal performance



Long-Term *Reliable, and Reliable Data in the New ERP System*

 **CLEAN & VALID**  
You are ensuring even better & secure

 **ONGOING SUPPORT**  
Maintenance & updates for optimal performance

 **PERFORMANCE**  
Focus on system stability & efficiency

# 8 | HARDWARE REQUIREMENTS

Optimal Hardware Specifications for Virtual Data Centre Hosting with ORYX ERP



## HIGH-PERFORMANCE CPU

32 Virtual CPUs allocated for optimal processing power



## LARGE MEMORY

96GB RAM for fast data processing and multitasking



## HIGH-CAPACITY STORAGE

3000GB SSD Storage for high-speed and reliable data storage

**Key Features** – Including Dual Public IPv4fs & Virtual Data Centre



## MANAGED SERVICES

- OS Updates & Server Monitoring



## HIGH NETWORK SPEED

- 20 Mbps Internet Connectivity



## 24/7 SECURITY

- Dual Public IPv4 Addresses & 24/7 Support