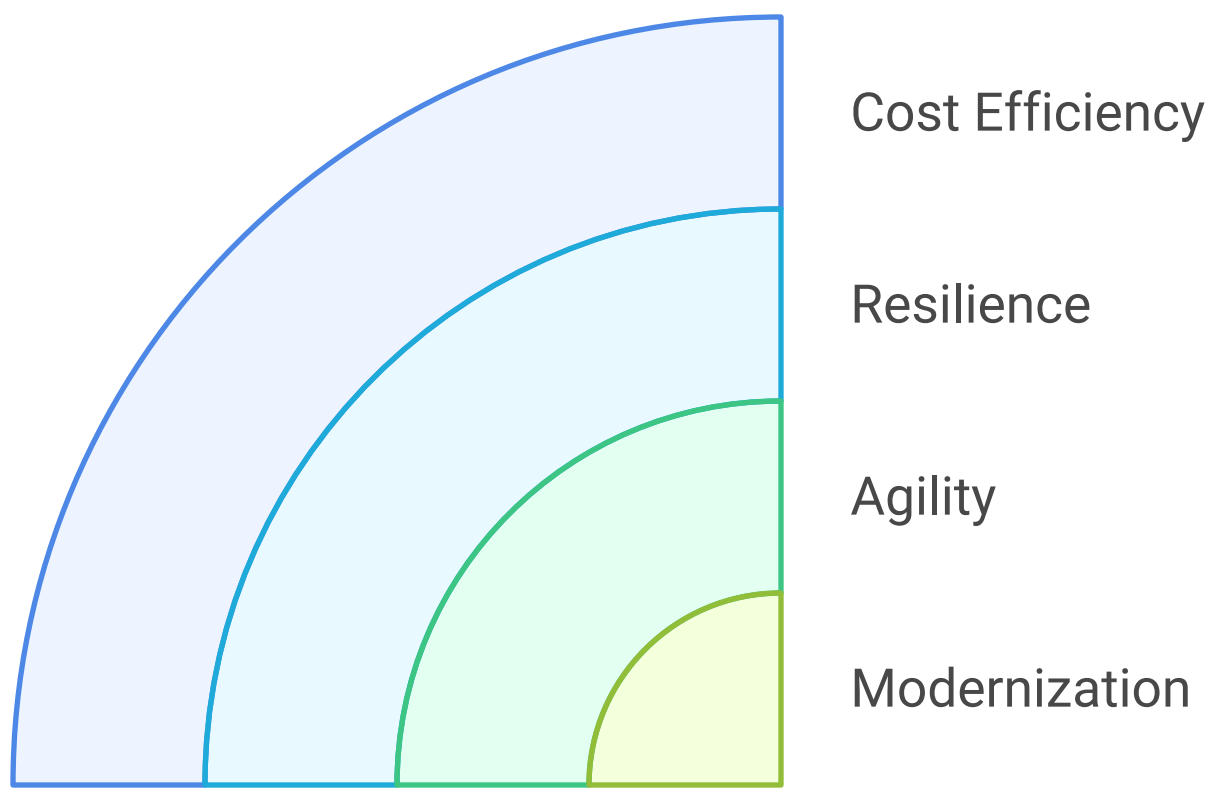


# Mainframe Application Modernization

Unlocking Agility, Resilience, and Cost Efficiency

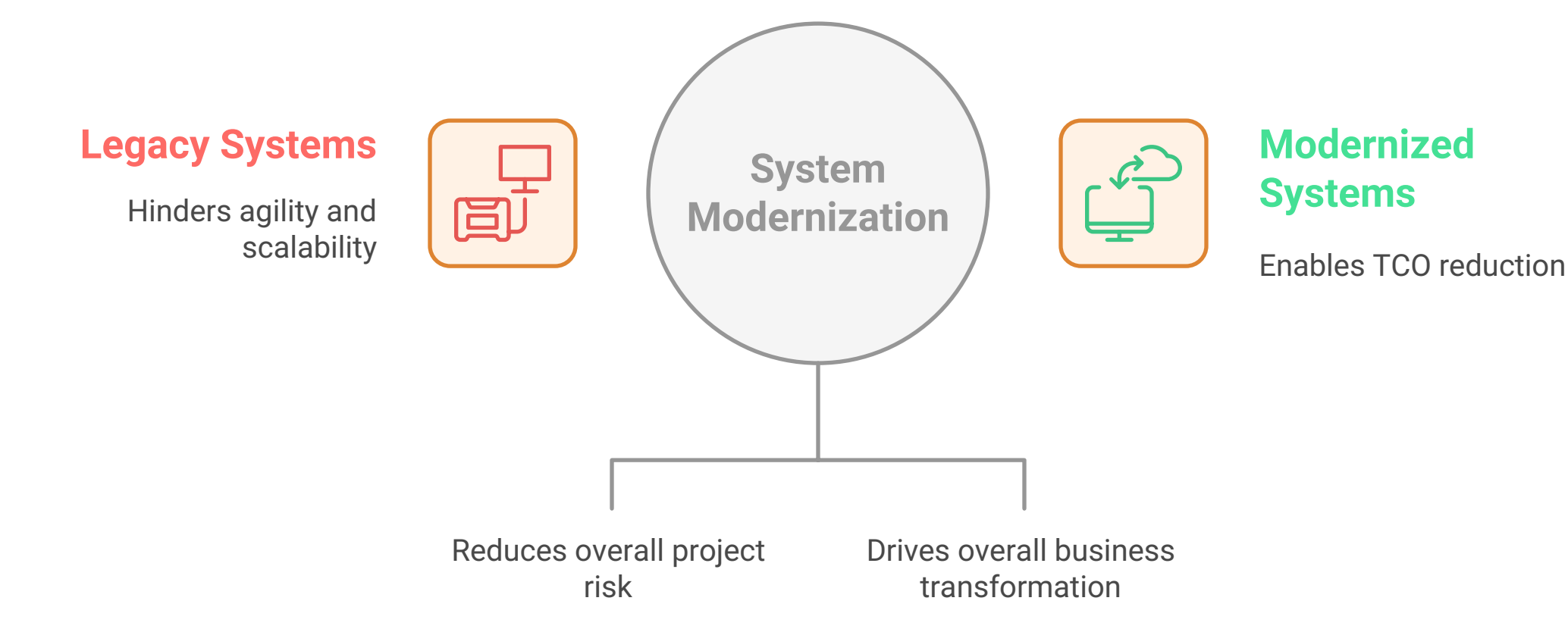
## Mainframe Modernization Strategy



## Executive Summary

- Legacy systems hinder agility and scalability.
- Modernization enables >30% TCO reduction.
- Phased approach reduces risk.
- Cloud-native systems drive transformation.

# Modernization enables TCO reduction

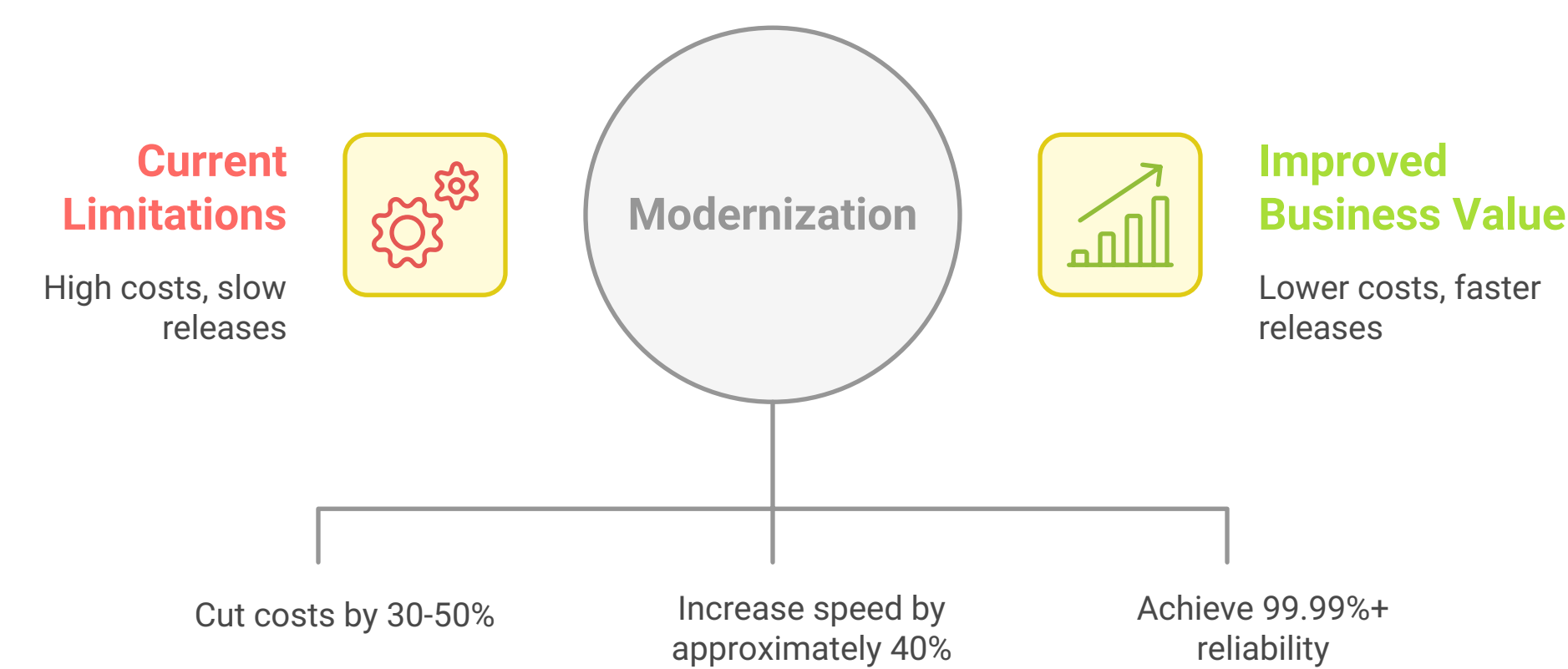


## Why Modernize Now?

### Drivers:

- Cost, talent scarcity, compliance, agility
- Value at Stake:
- TCO cut by 30–50%
- Time-to-market boost ~40%
- 99.99%+ reliability

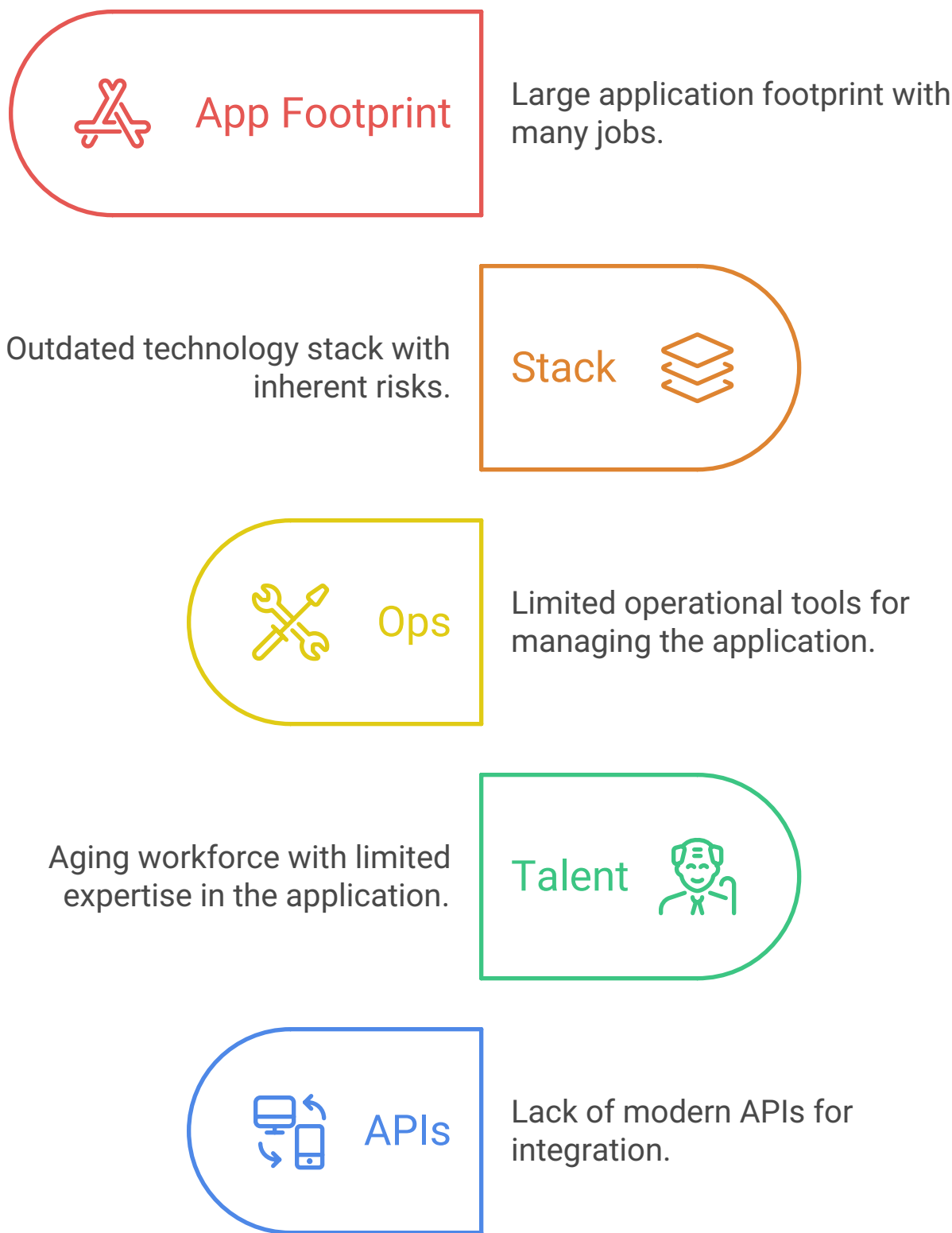
# Modernization for Business Value



## Current State Assessment

- App Footprint: ~1.2M LOC, 450+ jobs (High Risk)
- Stack: COBOL, JCL, VSAM (High Risk)
- Ops: Limited tools (Med Risk)
- Talent: Aging (High Risk)
- APIs: Lacking (High Risk)

## Application Risks



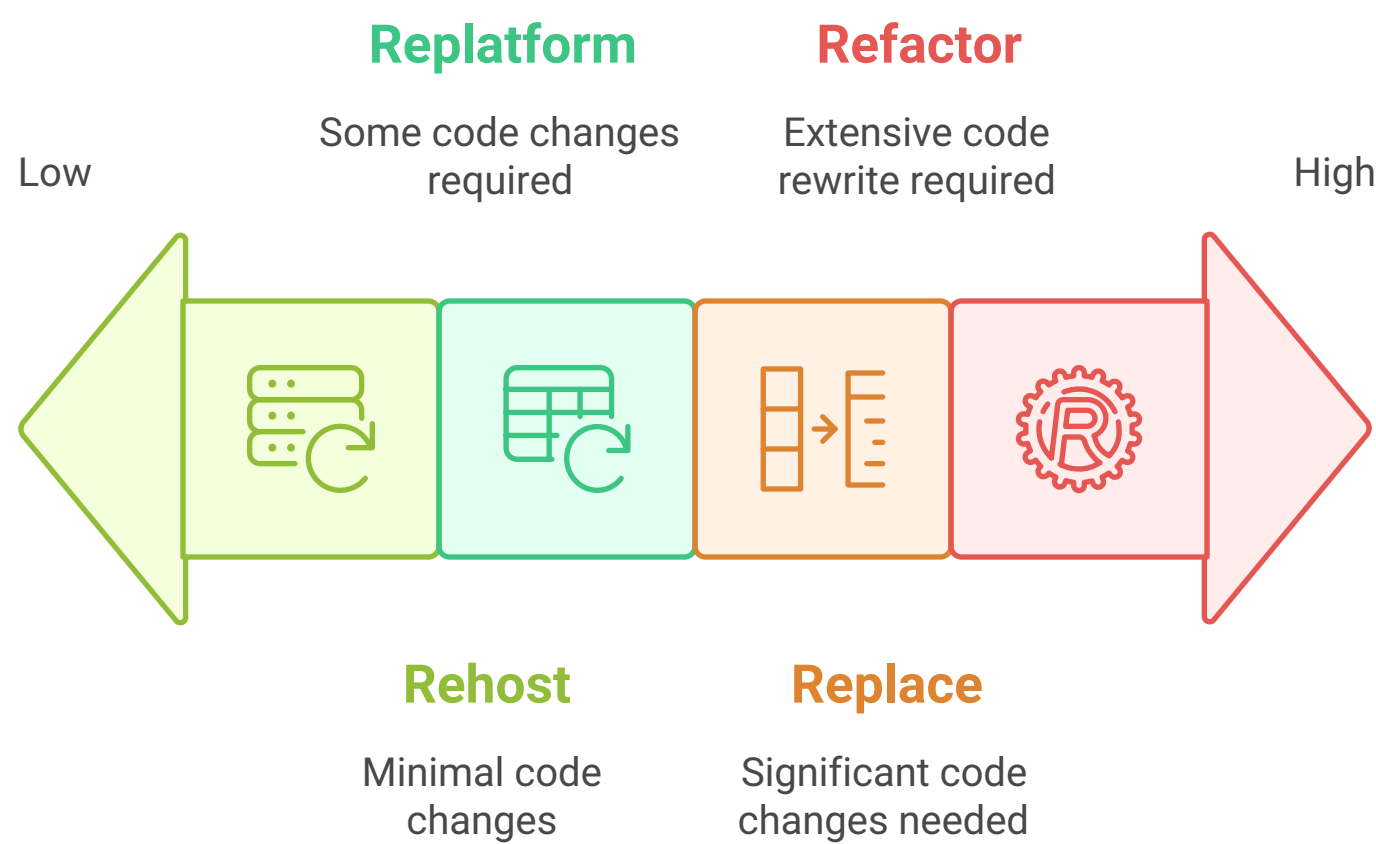
## Modernization Options – Framework

Options:

- Rehost (low risk)
- Replatform (balanced)
- Refactor (high risk)
- Replace (medium risk)

Recommended: Hybrid approach

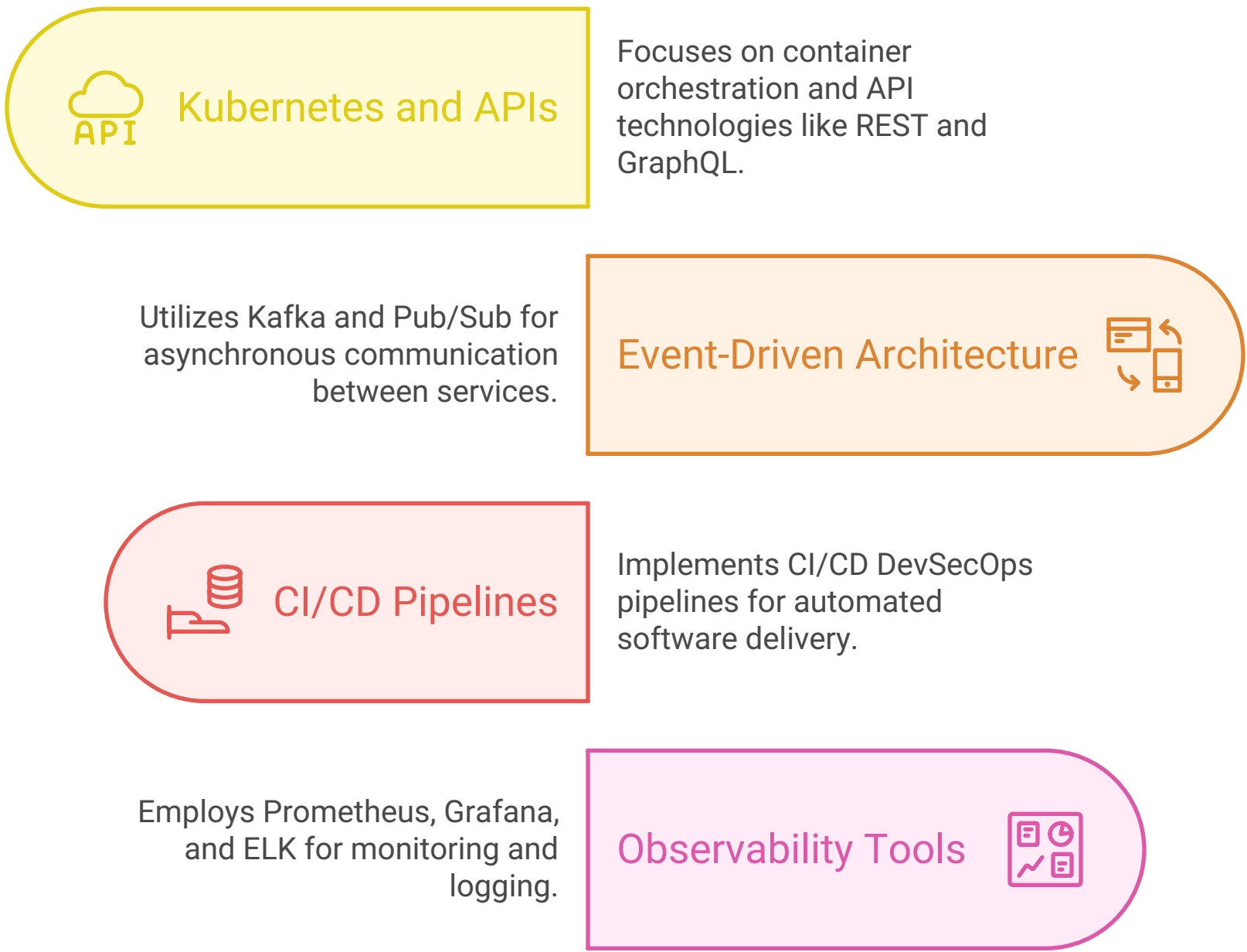
Modernization options ranked by risk level.



Target State Vision (Architecture)

- Kubernetes, APIs (REST, GraphQL)
- Event-driven (Kafka, Pub/Sub)
- CI/CD DevSecOps pipelines
- Observability: Prometheus, Grafana, ELK

Architecture components

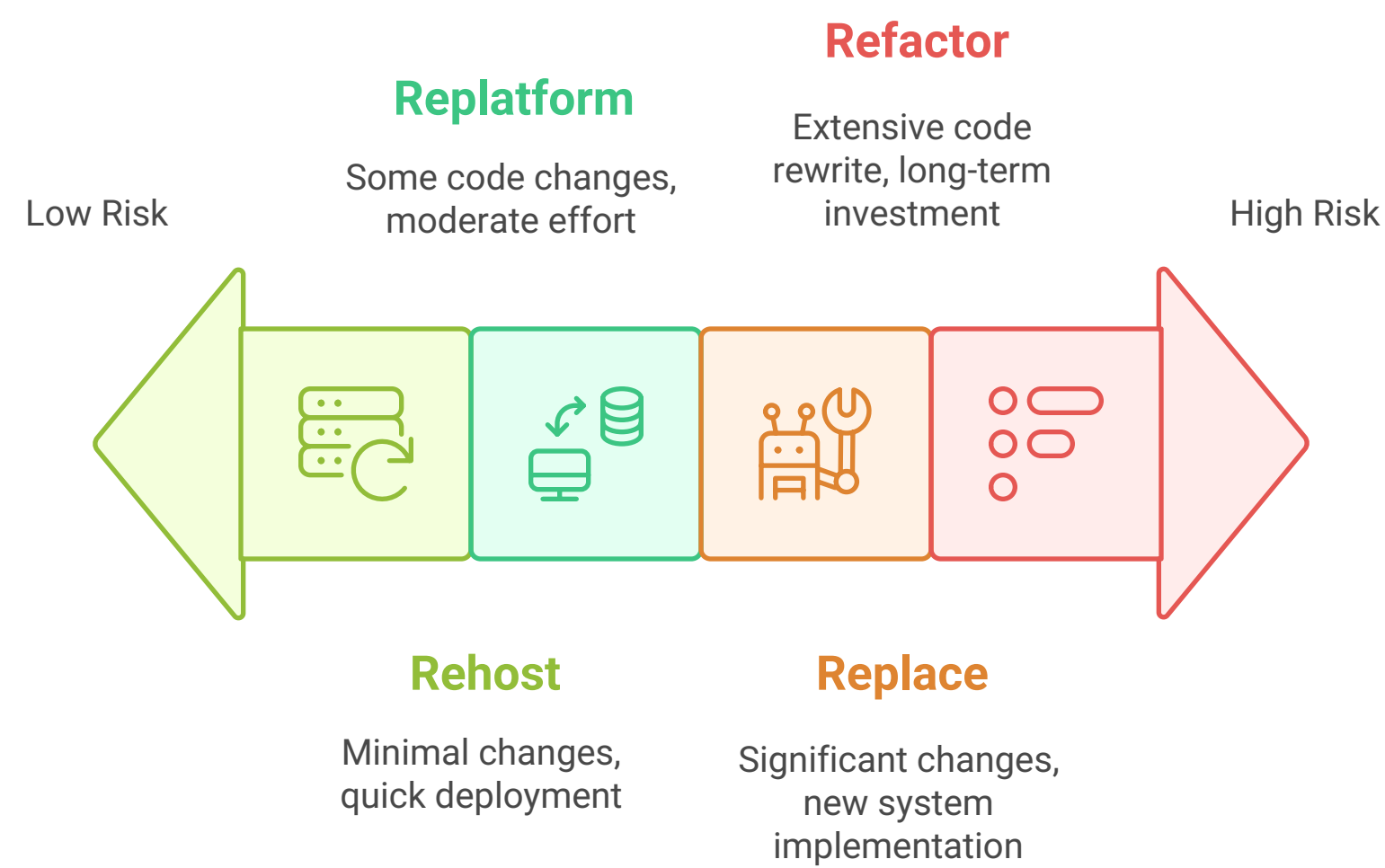


# Modernization Options – Framework

Options:

- Rehost [low risk]
- Replatform [balanced]
- Refactor [high risk]
- Replace [medium risk]
- Recommended: Hybrid approach

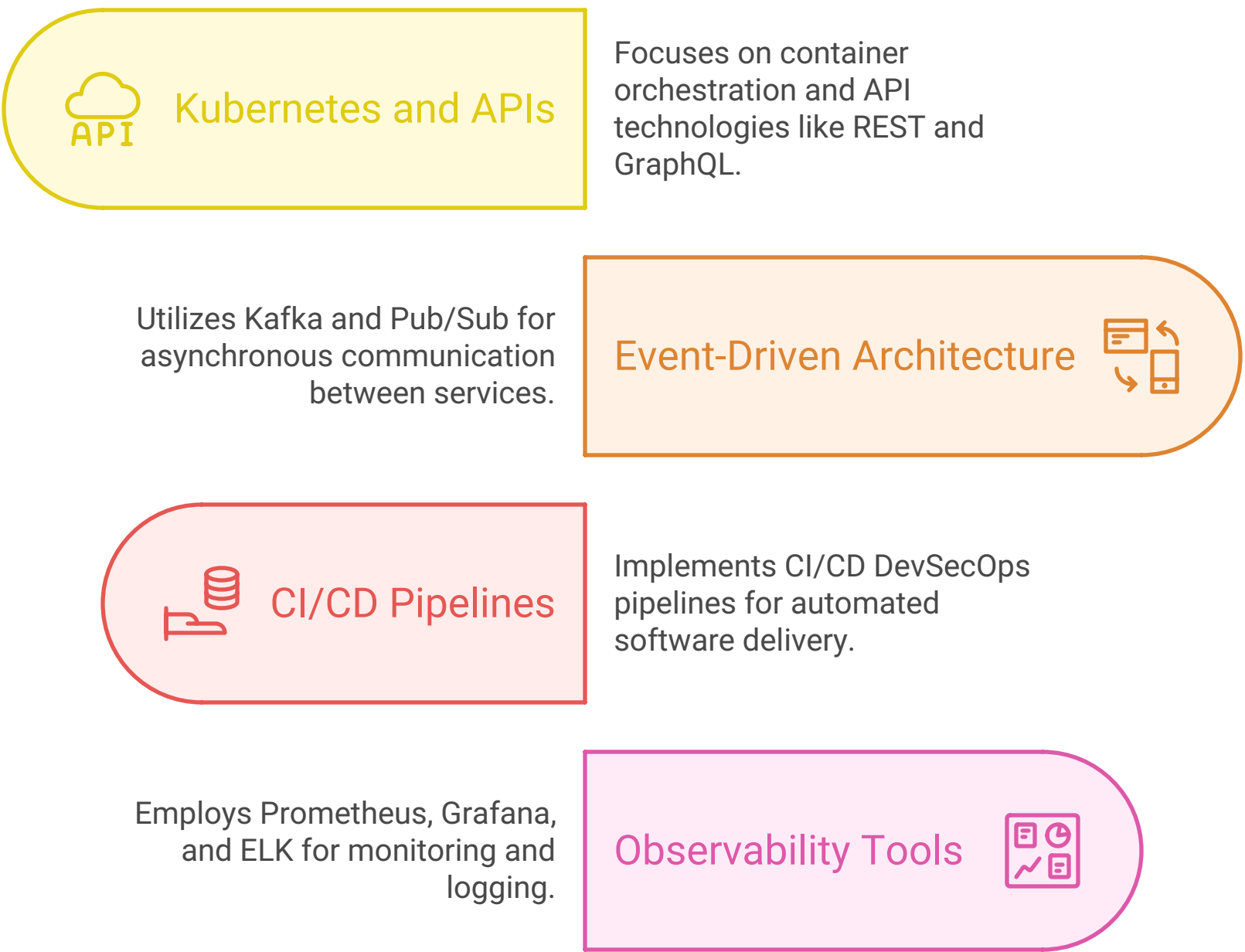
## Modernization options ranked by risk level.



## Target State Vision (Architecture)

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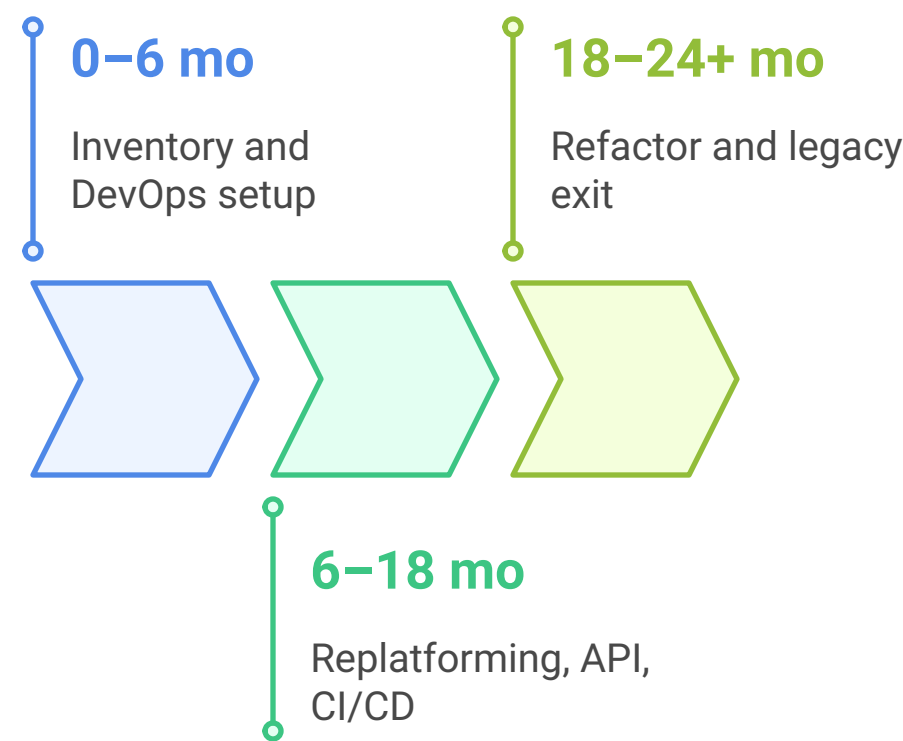
## Architecture components



## Transformation Roadmap

- Phase 1 [0–6 mo]: Inventory, DevOps setup
- Phase 2 [6–18 mo]: Replatforming, API, CI/CD
- Phase 3 [18–24+ mo]: Refactor & legacy exit

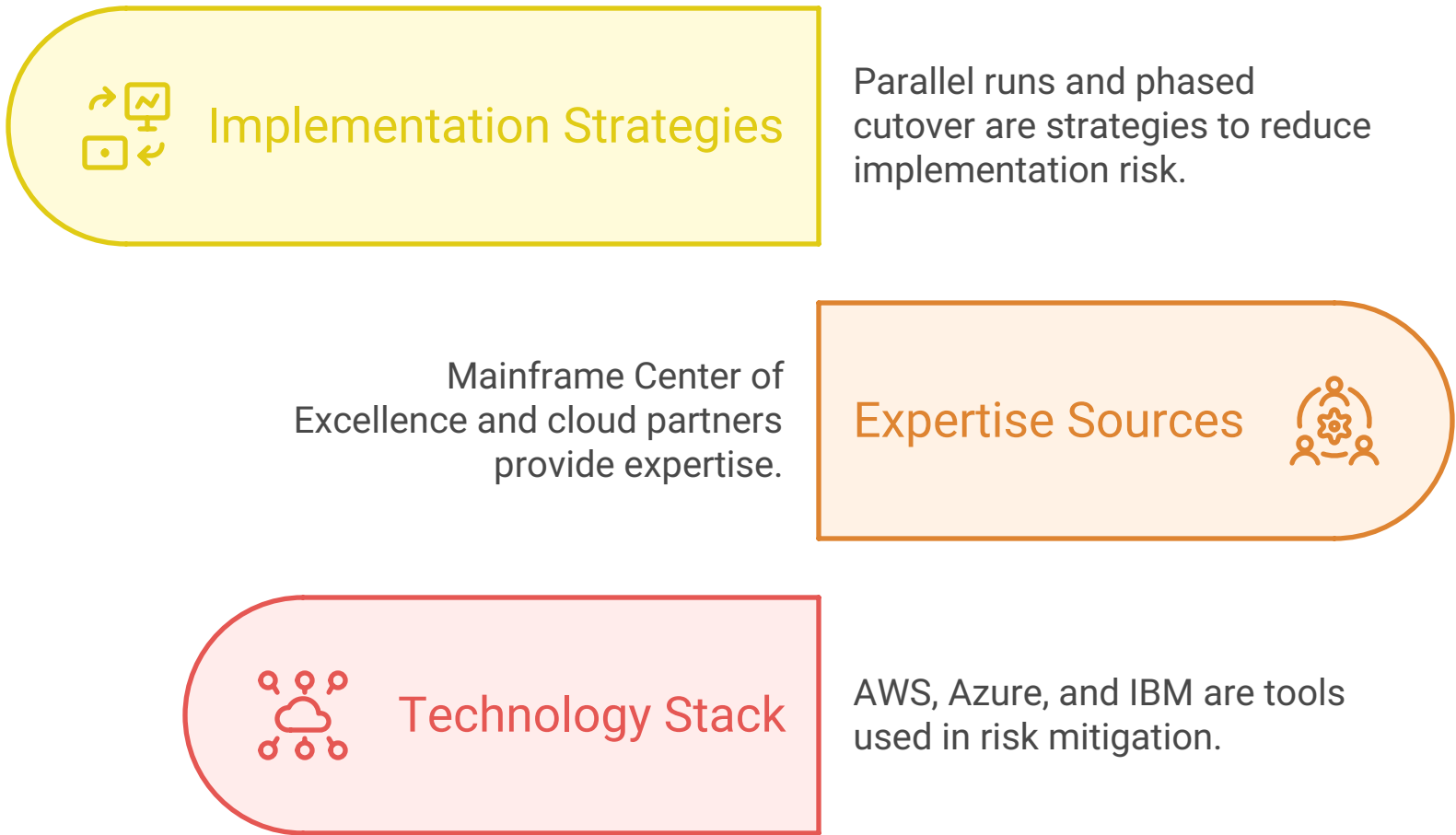
## Strategic Transformation Roadmap



## Risk Mitigation & Governance

- Parallel runs, phased cutover
- Mainframe CoE, cloud partners
- Tools: AWS, Azure, IBM

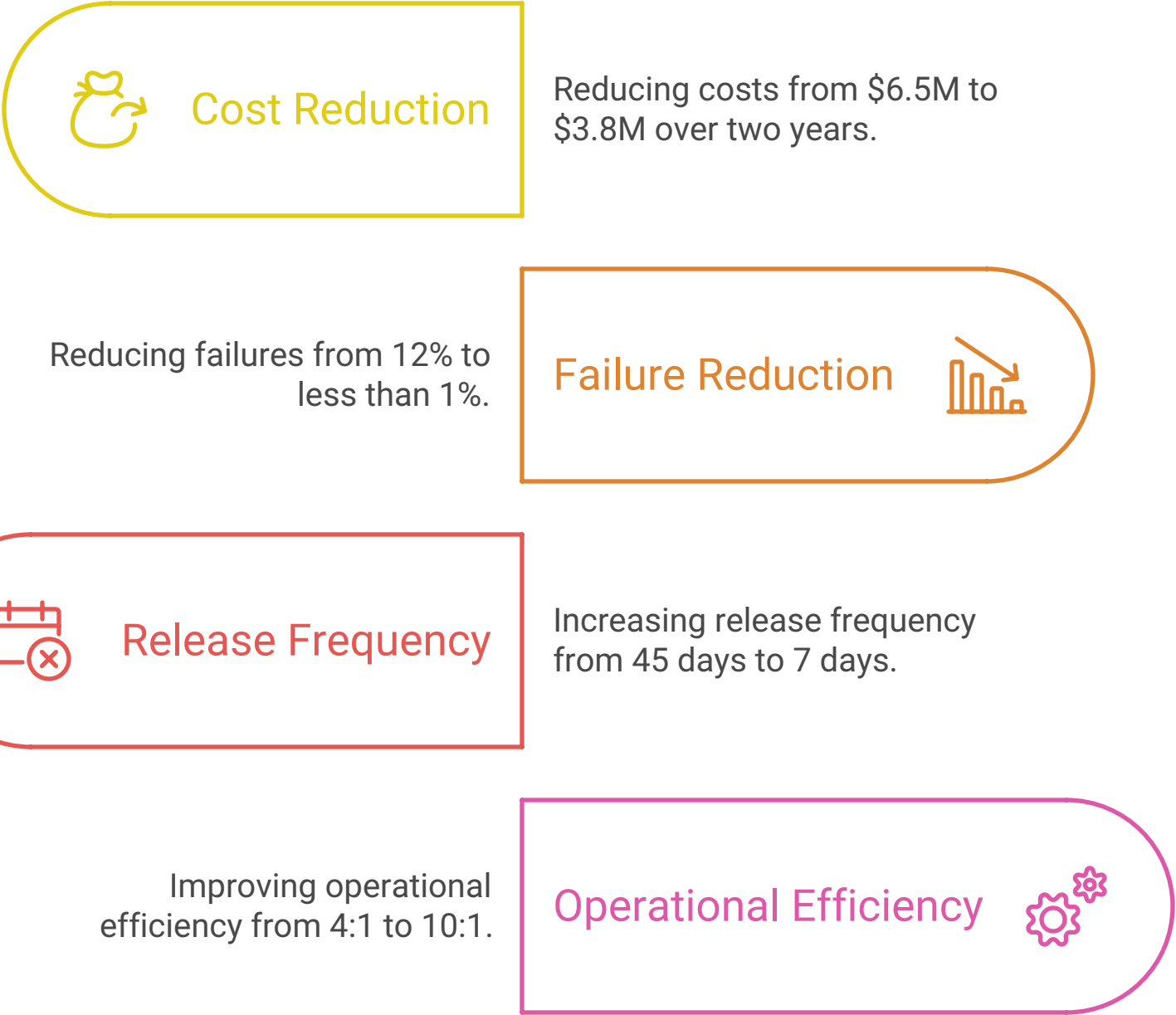
### Risk Mitigation and Governance Elements



## Success Metrics & KPIs

- Cost: \$6.5M -> \$3.8M [2Y]
- Failures: 12% -> <1%
- Releases: 45d -> 7d
- Ops: 4:1 -> 10:1

# Performance improvements



## Next Steps & Ask

- Fund discovery phase
- Form squad
- Confirm partner
- Launch PoC

## Project Development Sequence

