

MICROLAND®
Making digital happen

Ahead
since
1989

Microland Cloud Services

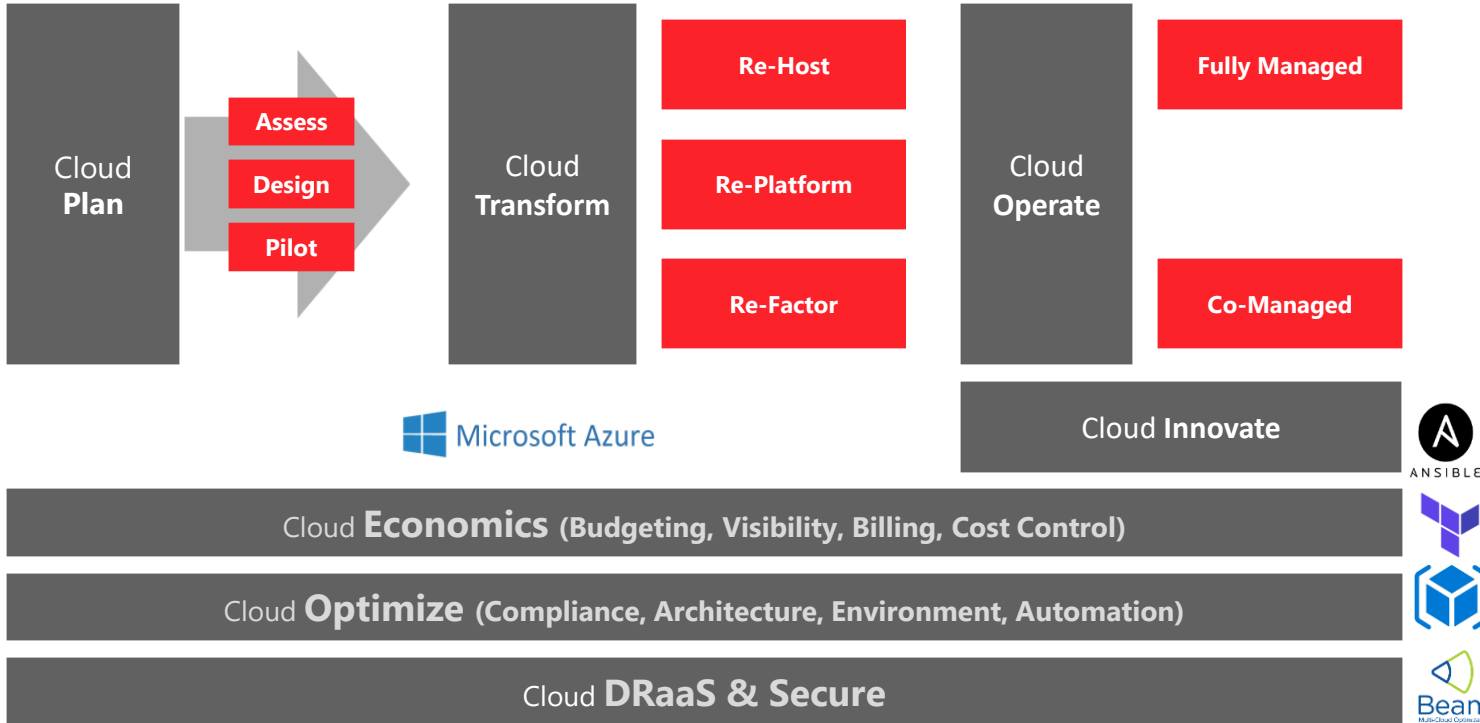
Now2Cloud – Helping Enterprises Adopt
Cloud at Optimal Cost & with Zero Risk

Our Azure Service Offerings

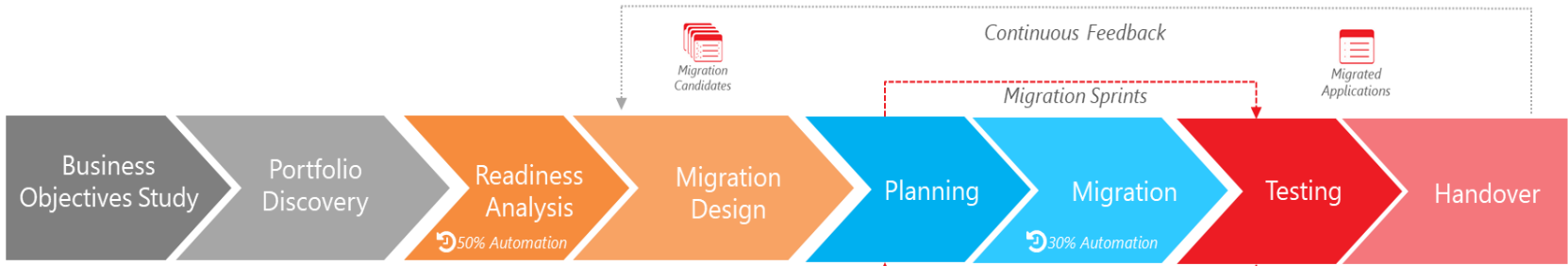
Helping enterprises define the roadmap for their cloud journey - **Now2Cloud** Assessment framework

Helping to build in-house private cloud or migrate to public cloud leveraging our efficient **SmartMigrate** factory

Helping manage both private and public cloud environments leveraging our **SmartGovern** & **SmartCloudOps** solutions



Now2Cloud – Migration Assessment Approach



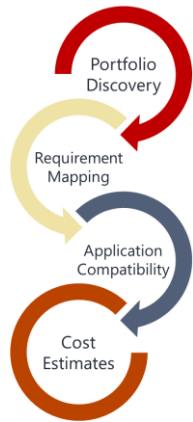
Inventory source applications / workloads, servers to determine readiness

Gather performance statistics & requirements that impact cost, compliance, performance

Discover application, server dependencies and assess the readiness to migrate to Azure

Provide estimates on compute, storage and network, data requirements and provide detailed report on Azure costs estimates

Readiness Assessment Services



Plan and schedule migration with business / workload owners and technical teams

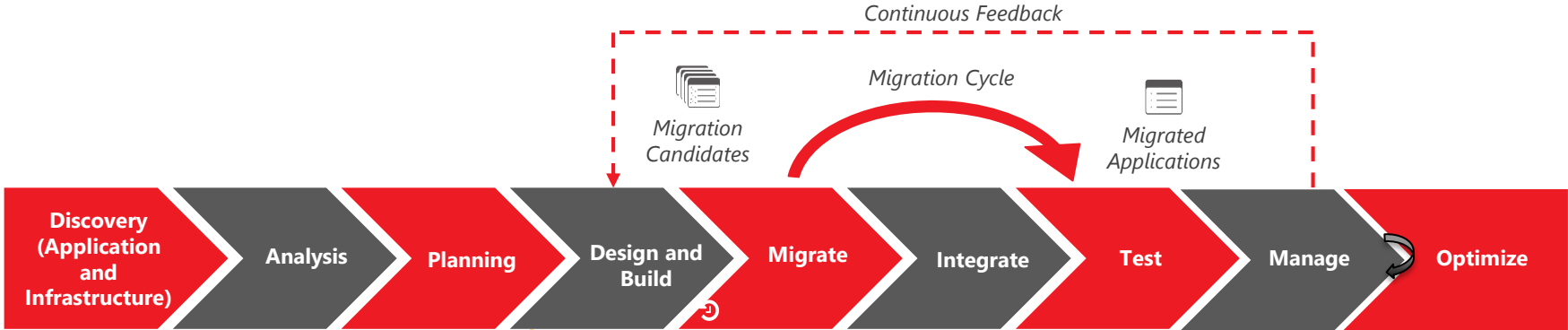
Deploy agents / processing servers and prepare the source servers / workloads and communicate / confirm migration initiation

Carryout workload migration using tools and conduct post migration configuration and testing

Coordinate workload owner verification, cutover finalization, traffic redirect and early life support

Workload Migration Services





Now2Cloud

SmartMigrate

SmartCloudOps

Plan

Comprehensive cloud readiness assessment

- Assessment of app and infra components
- Application Dependency mapping
- Migration strategy and roadmap determination

Transform

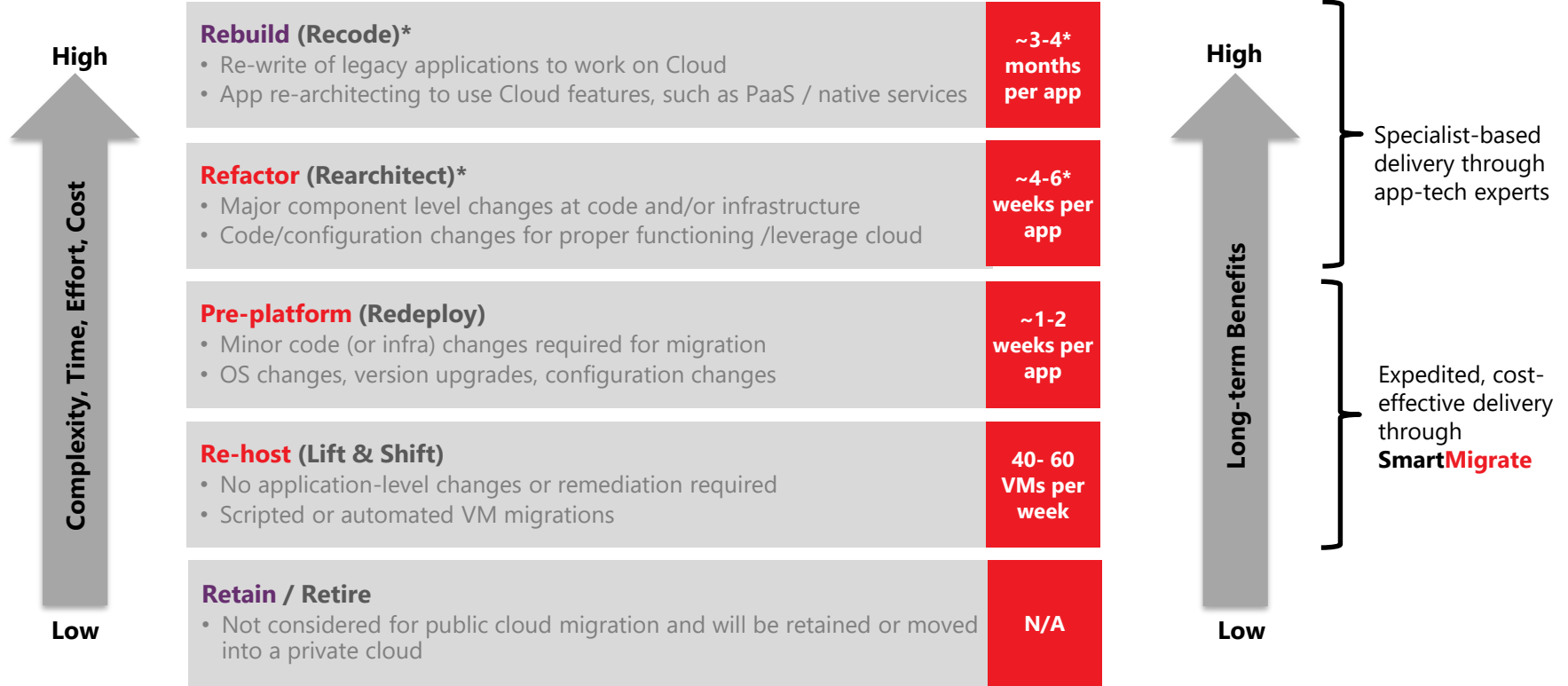
End-to-end migration to target hybrid environment

- Factory-led Lift-and-shift model
- Focused transformation groups for re-factor, re-architect activities

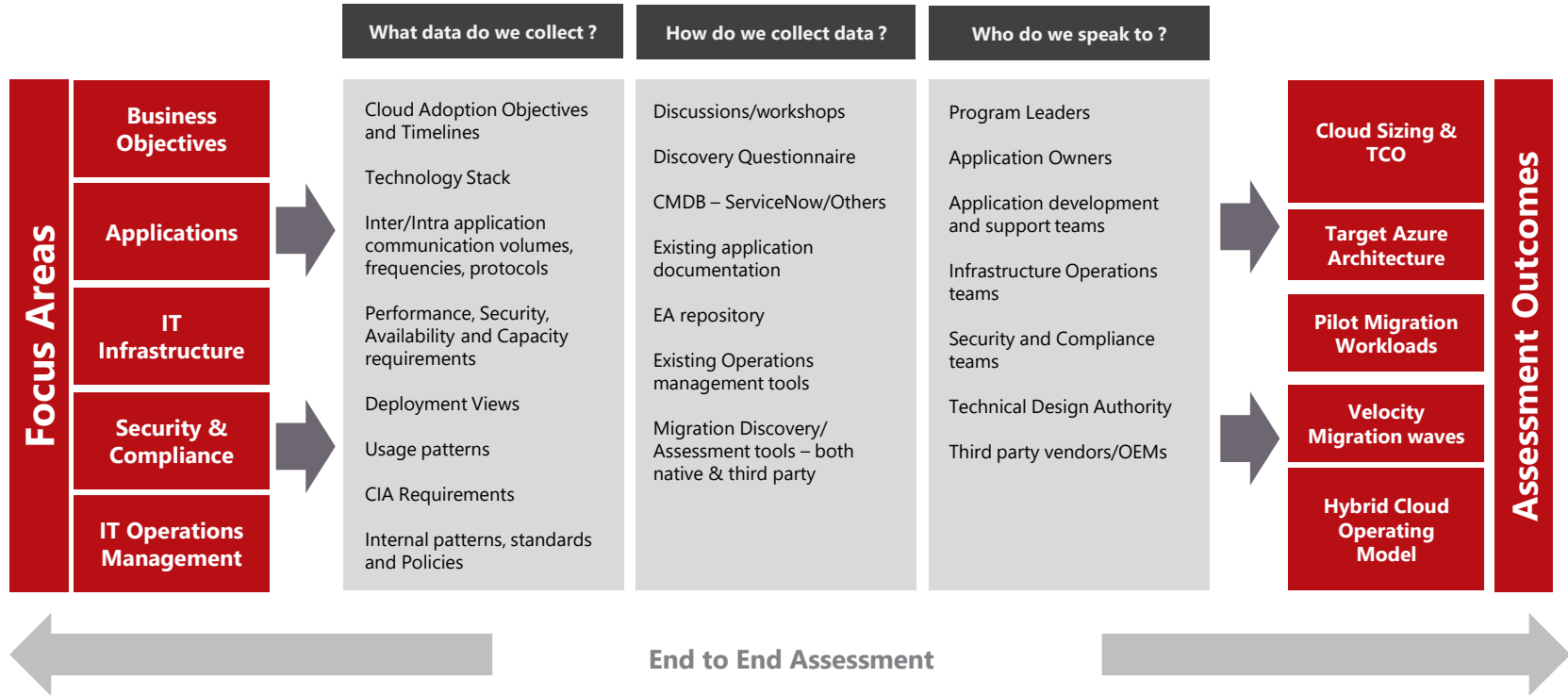
Operate

Optimized management of applications on cloud

- SRE style Operations
- Emphasis on Automation, Governance, Compliance & Cost



* Will depend on size, complexity and partner leveraged



Plan

Transform

Operate

01

Automated tool based discovery

- Network Equipment
- Server Type (Physical, Virtual)
- Server OS (Windows, Linux, Unix)
- Server configuration (CPU, RAM, Storage)
- Server utilization (CPU, RAM, Storage)
- App-server mapping
- App/Server dependencies

Methodology



02

Non-Automated based discovery

- Business expectations, operational processes and governance model
- Enterprise architecture; Application functionality/ architecture clarifications.
- BU mapping, Application type, roadmap,
- Non functional parameters: BC, DR/ HA, Licensing; Security & Compliance; Cost.
- BC, SLA, Ticket dump
- Validating app-server mapping and server/app dependencies
- Other data validation

Methodology



Interviews;
Workshops



Offline
documentation



CMDB, SNOW, Other
data repositories

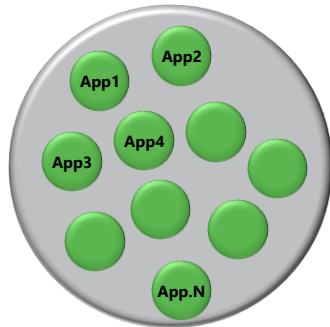
Discovery activities are flexible based on available information and strategy

Discovery

Cloud Fitment Assessment

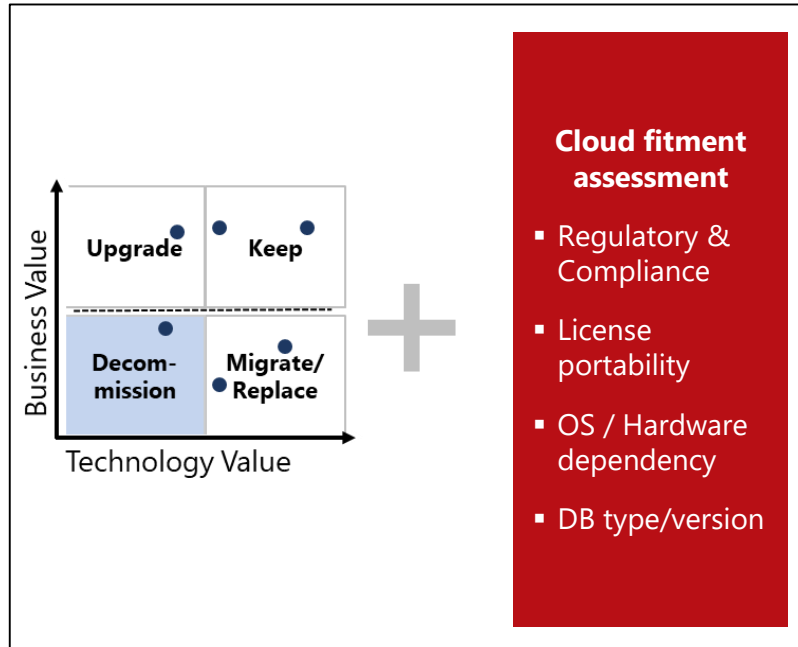
Fitment Result

Application Portfolio



Full Stack Discovery

Functional	Infrastructure
Non-Functional	Operations
Security	Compliance



Not Fit for Migration

Not suitable for public cloud

Suitable for public cloud

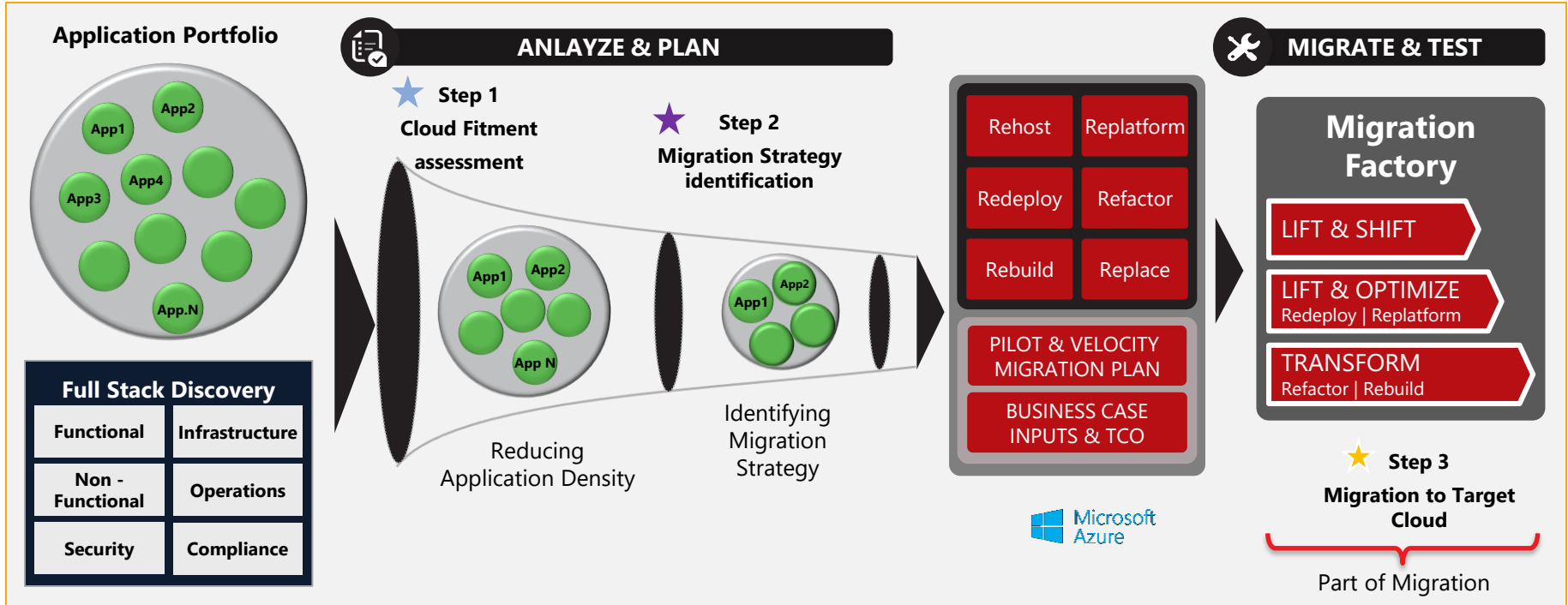
Rationalized Portfolio

Retain / Retire?

On-Prem
Private cloud



Step1:
Cloud viability assessment



- ★ Powered by Now2Cloud framework, Azure Native Assessment Tools
- ★ Powered by Now2Cloud assessment framework
- ★ Powered by Now2Cloud Migrate, Cloud Native Migration Tools

Assess

Transform

Operate

Parameters	Weighted Average	Very low (score = 0)	Low (score = 5)	Moderate (score = 7)	High (score = 10)
Infrastructure- OS, HW, NW	20%	Non X86 physical, unsupported OS,, high Data Bandwidth req	X86 physical ,P2V not feasible, high Data Bandwidth req	X86 physical ,P2V feasible , moderate/high Data Bandwidth req.	X86 virtualized, supported as-is in the cloud, low/moderate Data Bandwidth req
Application dependency & Integrations	20%	Dependency with real-time systems on-premise, with low latency requirement. Dependency with hardware components on-premise	Dependency with on-premise systems requiring high bandwidth connectivity	Dependency with on-premise systems that are scheduled jobs (non-real time), other integrations satisfied with VPN connectivity	Dependency only within applications that are hosted on cloud. Simple FTP/HTTP connections with On-premise for data/file transfer
Business Criticality-Availability, RPO/RTO	20%	Zero RPO/RTO requirement and availability greater than 5 9's	RPO/RTO close to zero. Availability of 5 9's	RPO / RTO of few hours. Can be satisfied with a backup and restore approach. Availability of 99.95	Non-critical workloads with no DR requirement, no stringent RPO/RTO for business continuity
Security	20%	Current security measures cannot be established in cloud	Equivalent security applications may be available in the cloud	Security setup on-premise for data/access can be setup in the cloud	Security services available in the cloud can be consumed for use
DB type, Version /Database Setup	20%	DB type not supported by the cloud vendor Complex shared database, Proprietary NOSQL	DB type supported by the cloud vendor but needs to be upgraded DB re-engineered to the cloud	Federated DB setup or clustered DB	DB type and version supported by the vendor or backward compatible (Lift/shift) Simple DB setup – not shared, clustered or federated

Assess

Transform

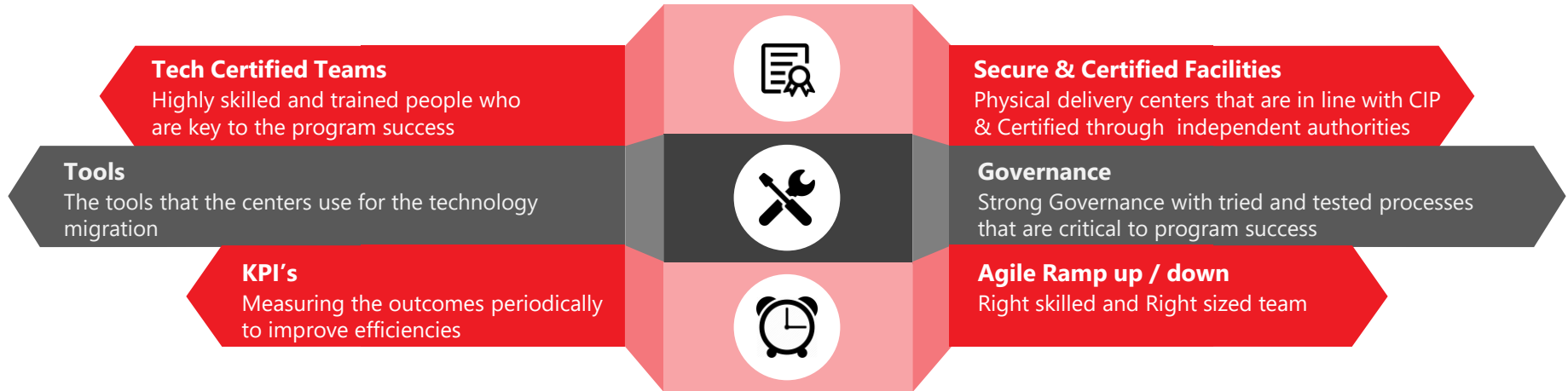
Operate

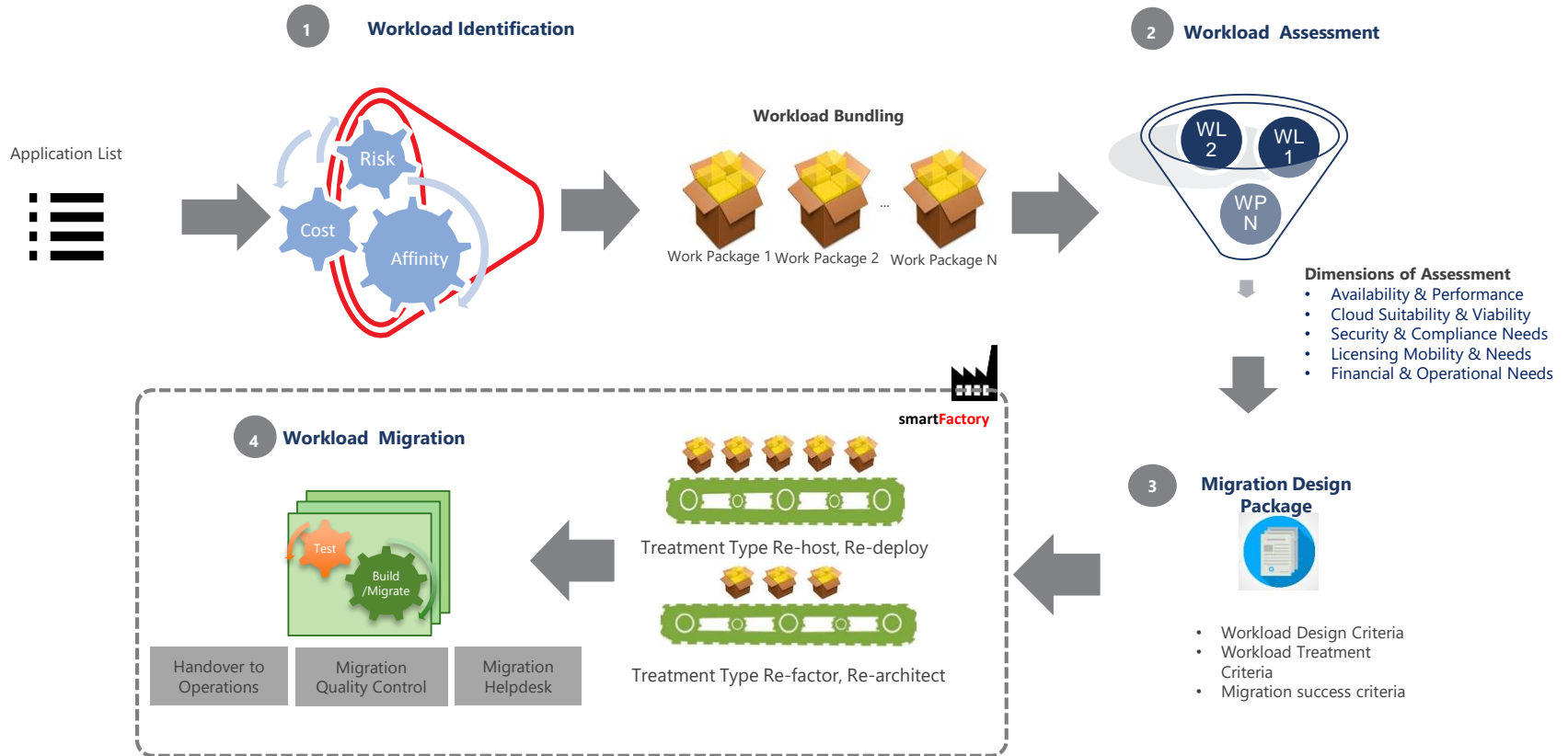
Parameters	Weighted Average	Very low (score = 0)	Low (score = 5)	Moderate (score = 7)	High (score = 10)
Compliance	25%	Any compliance not satisfied by the cloud vendor. Including requirement of dedicated infra		PCI-DSS, SOC	No Compliance
Regulatory		Geo location requirement is not available (either)		Geographical location requirement (both Primary, Sec) is satisfied by the cloud provider	No Regulatory
Operating System (Dependency)	25%	OS dependent and not supported by the cloud vendor	OS not supported by the cloud; No dependency hence can be replatform	OS type supported, version needs to be upgraded	All OS types, versions that are supported in cloud
HW Platform(Dependency) - includes physical servers		HW dependent and not supported by the cloud vendor.		HW not supported by the cloud; but no dependency and hence can be migrated to the cloud instance	HW supported on cloud
Support for Technology-Application Stack, OS	25%		Application stack needs to be re-engineered to enable it to be setup on cloud	Upgraded version of the middleware/app software are supported in the cloud	App, Web software/applications are supported as-is in the cloud
SW Licensing	25%	Vendor does not support running the application on cloud	New licensing agreement needs to be bought/amended to support cloud	Vendor supports carrying over the existing license to cloud	Home grown - No License requirement

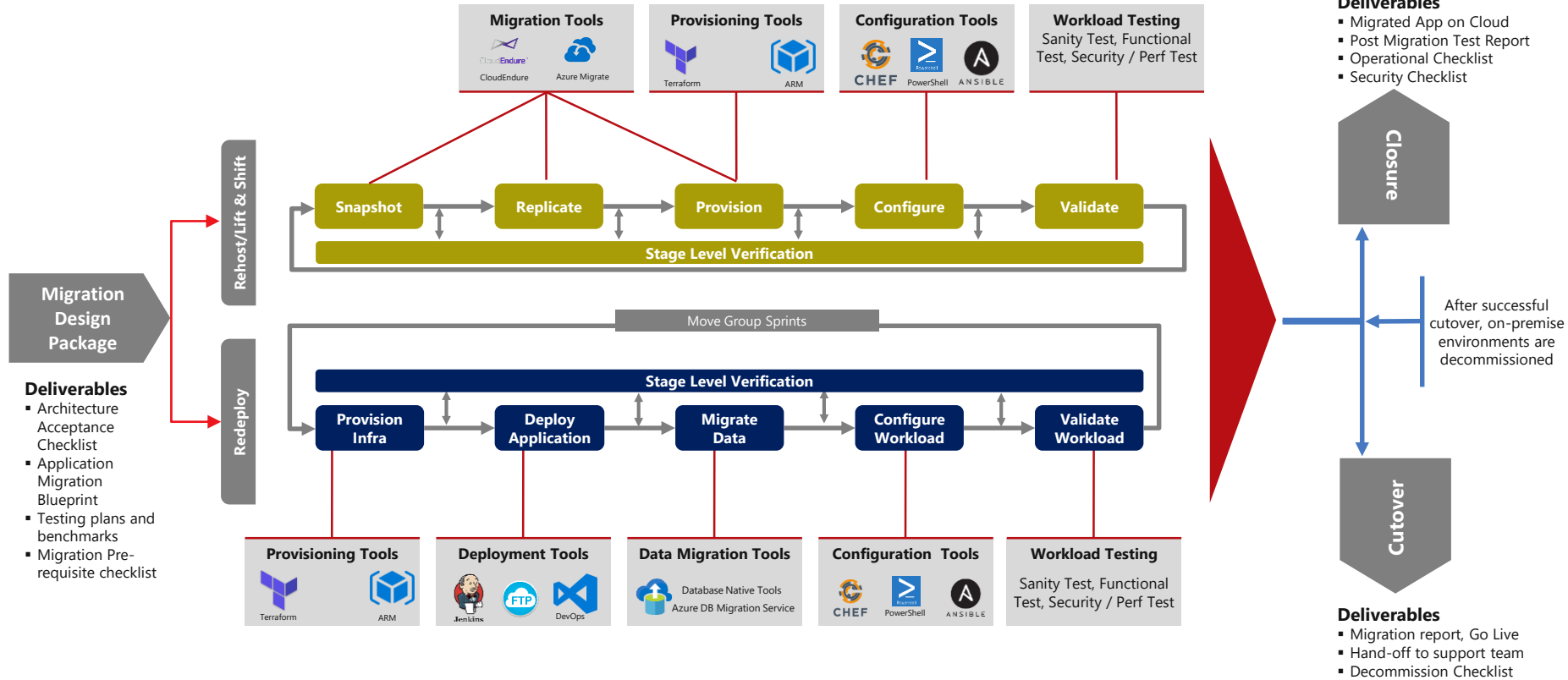
Now2Cloud – Factory Based Migration Model

Migration Factories

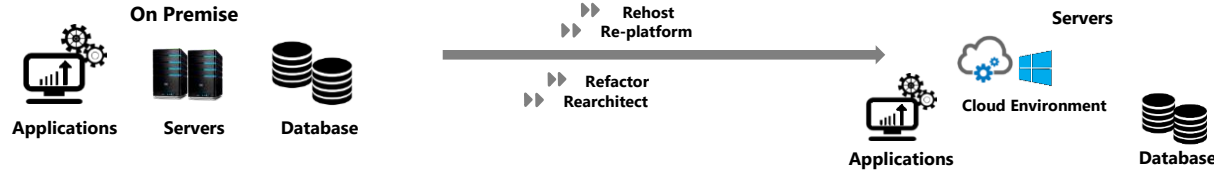
We have over the past few years migrated
Thousands of VMs for Global customers leveraging
our Migration Factory



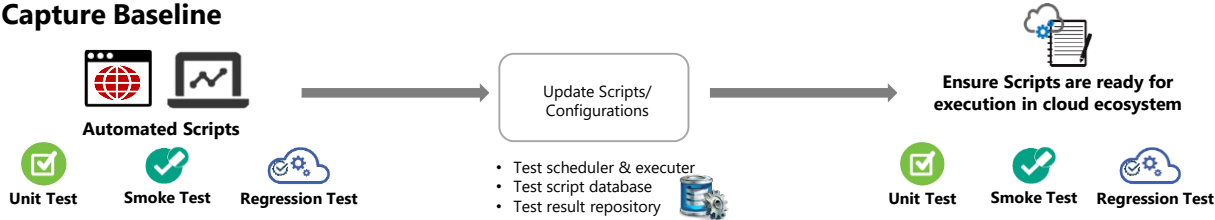




1. Application Migration



2. Capture Baseline



3. Post Migration Validation



PRE-MIGRATION PHASE

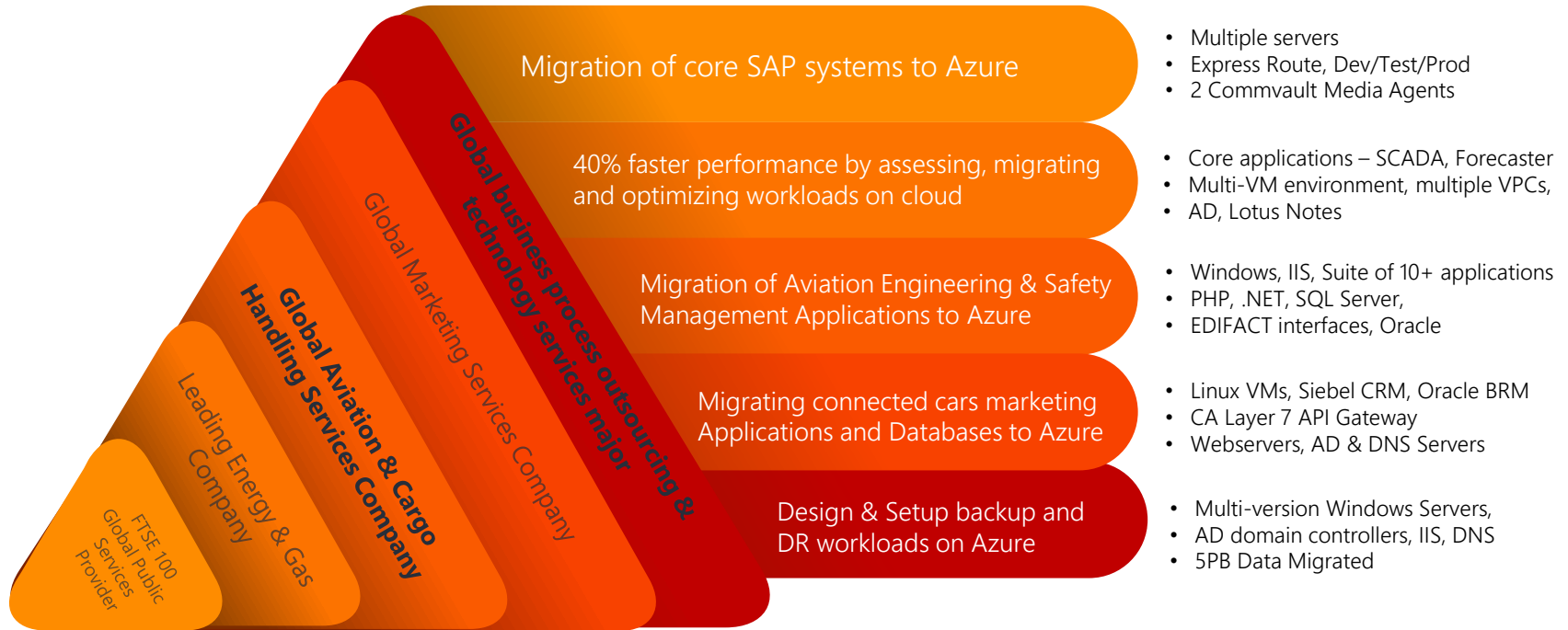
- Conduct automated test feasibility study
- Create automated smoke test, end to end regression tests scripts on premise environments (where applicable)
- Execute tests and create baseline results

MIGRATION PHASE

- Update configuration to run tests on applications deployed in cloud environment
- Run smoke test and Critical path (regression) tests

POST-MIGRATION PHASE

- Run end to end regression tests
- Compare results with baseline / expected results
- Validate against migration success criteria



Exhaustive & Proven Methodology

- ❖ **Microland's Now2Cloud Readiness Assessment Framework** to help in cloud transformation journey
- ❖ **Robust and proven framework used** for many successful assessment and migration engagements



30+ years of Consulting Experience & Best Practices

Cloud Native & Home-Grown Tools

- ❖ **Best in class tools with rich capabilities** for Assessment, right sizing and extensive reporting
- ❖ **Home grown scripts/toolsets** proved and extensively used successfully for various engagements



- ❖ **Long term partnership with Microsoft** will bring in trust, advisory and effective delivery



- ❖ **Qualified and Experienced and Certified** team of Architects & Consultants



Gold Cloud Platform
Gold Cloud Productivity
Gold Application Development
Gold Collaboration and Content
Gold Datacenter

- ❖ **Complete transparency** on process and outcomes
- ❖ **Well defined Milestones,** checkpoints and governance

Agnostic, Yet Partnership Backed

Experienced & Certified & Delivery Model

THANK YOU