

NTT DATA Application Modernization Services Mainframe Application Re-hosting on Azure We get it right the first time!

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NTT DATA Services

More than your traditional IT services provider

NTT Group

275,000 professionals | \$105B #15 World's Most Valuable Brands¹

NTTDATA

110,000 professionals | \$16B Top 10 global business & IT services provider



50,000 professionals #9 on Consulting Magazine's "Best Firms to Work For" List²

- NTT Group operates 240+ data centers worldwide
- Process 100 million healthcare claims annually
- Serve 25 of the leading financial institutions in North America
- Apply 45+ years of applications experience
- Serve the top 10 automotive companies worldwide
- Support 3.9+ million end users and 11+ million service desk contacts annually
- Manage 300+ million security identities
- Serve more than **50 federal agencies** and military branches

¹Source: "Brand Finance Global 500 (2017) ²Source: "The 2017 Best Firms to Work For," *Consulting Magazine*, Sep 12, 2017

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Application Portfolios Need to Evolve

Great CX is mandatory



"...by 2020, **customer experience** will overtake everything, including price and product quality as the top brand differentiator."

CIO.com, Nov. 2017

Enabling innovation through technology

- 1. Lower IT/business costs
- 2. Improve IT sustainability
- 3. Improve customer service
- 4. Introduce new IT-led products and services
- 5. Make business processes more efficient

What are the primary ways your org. plans to innovate in 2017? InteropITX Research Report, Mar. 2017



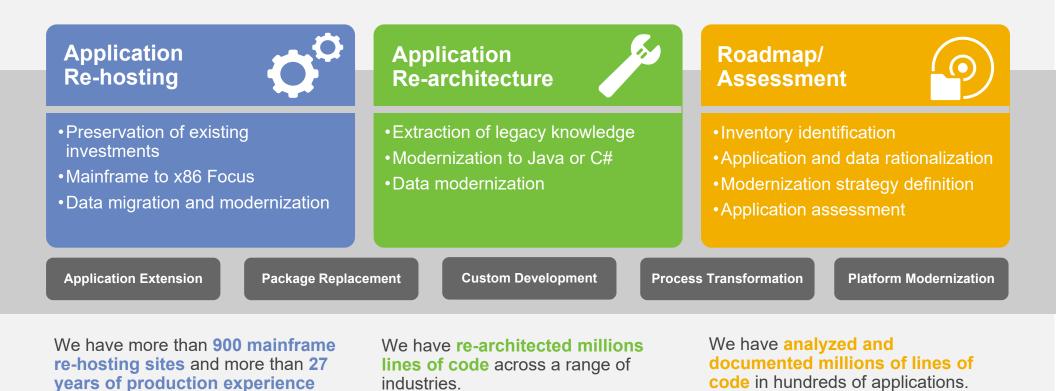
of IT and business leaders say outdated technologies are an existing or emerging barrier to achieving expected results from digital technology initiatives.

2017 Global Digital IQ[®] Survey, PWC

CIOs are under constant pressure to maintain an application portfolio that enables digital initiatives, drives analytics and insights, and operates at an optimized level.

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NTT DATA: An experienced successful modernization practice



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worldwide.

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Application Re-hosting



NTT DATA Application Re-Hosting Services

Migrate legacy mainframe applications onto cost-effective, standard platforms while protecting valuable business logic and data investments

Principles

- Preserve existing business logic and application investments while reducing costs
- Minimize disruption; reuse existing application development skills & end-user interfaces
- Use products and services intended to minimize changes in the application on the new Linux / UNIX platform
- Address the complete environment, including thirdparty tools, to reduce risk and enable success
- Leverage and integrate with new applications

Results

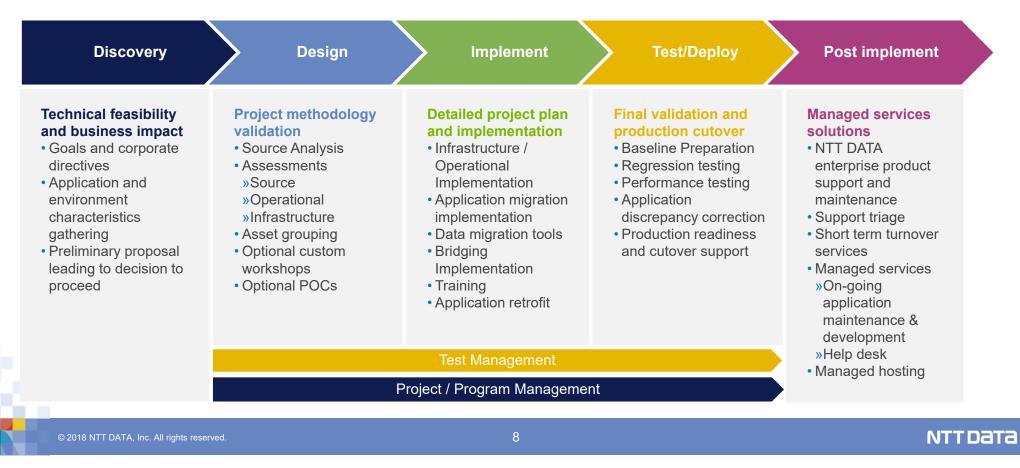
- Significant cost savings potential
 - Many customers cut costs 30-70% (HW, SW, mainframe specific support)
 - Fund future innovation by lowering operating costs
- Re-hosted applications run natively on updated target platform
 - > Cloud, physical or virtualized servers
- Evolutionary step forward
 - Destination or part of larger journey

NTT DATA Re-hosting Product Suite: UniKix

| Development Tools | | Runtime Components | | Management Tools | |
|-------------------|--|--------------------|--|------------------|---|
| IDE | NTT DATA Re-Hosting IDE for Visual Studio and Eclipse allows development of COBOL/CICS/SQL/ JCL applications, including those deployed on the Cloud. | TPE | NTT TPE provides an execution environment for CICS and IMS online applications using BMS, MFS, VSAM, IMS-DB, SQL, MQ, and other interfaces. | TPE Manager | NTT TPE Manager allows for the administration and monitoring of multiple TPE regions through a centralized graphical console. |
| File Edito | NTT File Editor is used to do direct maintenance of VSAM and sequential | BPE | NTT BPE provides an execution environment for JCL using steps that run programs, utilities (SORT, FTP, EMAIL, COPY), interfacing with job schedulers. | BPE Manager | NTT BPE Manager allows for the administration and monitoring of multiple batch subsystems in on-premise servers or the Cloud. |
| Map Editor | NTT Map Editor is used for maintenance of existing BMS or MFS screens and for development of new BMS maps for CICS or MFS maps for IMS. | TSF | NTT TSF implements the security provided by RACF for CICS, using LDAP or RDBMS as the repository. | TSF Admin | NTT TSF Admin provides administration of the security environment (password reset, account unlocks, user maintenance) |
| | | COBOL | NTT COBOL provides a compiler and runtime environment for COBOL applications. | | |

NTT DATA Re-hosting Approach

Proven project methodology & risk mitigation process: NTT DATA follows a proven migration methodology consisting of many flexible service offerings that are tailored to meet the business objectives and technical needs of an organization. The image below shows many of the services that NTT DATA can offer, including many that will be proposed for the mainframe re-hosting project.



NTT DATA Application Modernization Services



Unique and patented NTT DATA IP

• Broad range of market-tested tools and software



End-to-end solutions

- Software and services
- Flexible engagement model
- Integrated with NTT DATA Services IT outsourcing, maintenance, testing and development teams



25+ years of experience

- Proven track record of success
- Established methodologies
- Trusted partner network
- Single point of accountability
- Domain and package expertise
- Global and local resources



NTT DATA Services Expertise



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