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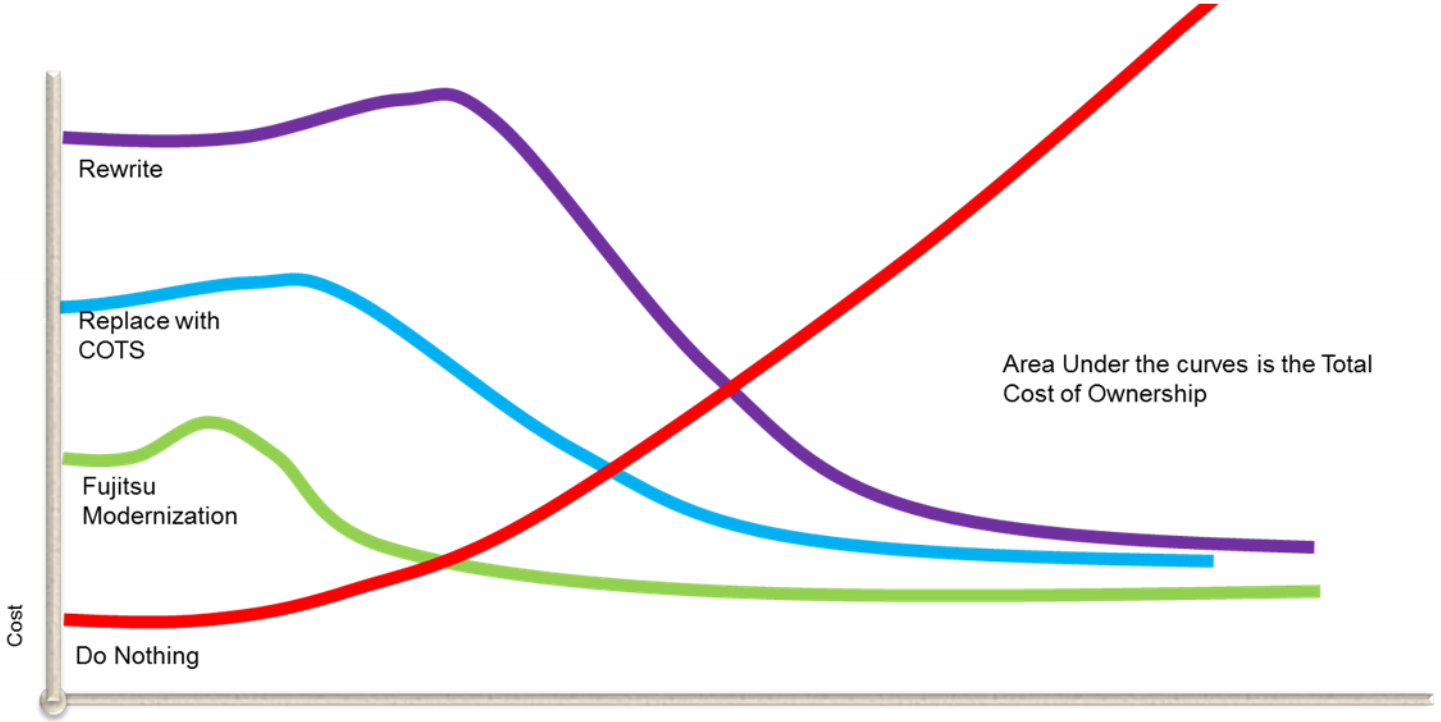
shaping tomorrow with you

Application Modernization

Technical Solution

Modernization Options and Costs



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Ref. Standish Group Modernization White Paper

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RESOLUTION RESULTS COMPARISON

RESOLUTION	CASE 1: APPLICATION DEVELOPMENT	CASE 2: PACKAGE APPLICATION	CASE 3: MODERNIZATION
Successful	4%	30%	53%
Challenged	47%	54%	39%
Failed	49%	16%	8%

The resolutions of projects in all three cases.

COST OVERRUN COMPARISON

RESOLUTION	CASE 1: APPLICATION DEVELOPMENT	CASE 2: PACKAGE APPLICATION	CASE 3: MODERNIZATION
Below 20%	43%	22%	46%
20% to 50%	21%	36%	29%
51% to 100%	10%	29%	14%
Over 100%	26%	13%	11%
Our Estimate	44%	47%	34%
Current Estimate	$10,000	$5,000	$3,500
Parallel Testing	$1,230	$1,230	$1,230
Average Overrun	$4,000	$2,000	$1,000
Estimate with Overrun	$15,230	$8,230	$5,730

The cost overruns in all three cases.

TIME OVERRUN COMPARISON

RESOLUTION	CASE 1: APPLICATION DEVELOPMENT	CASE 2: PACKAGE APPLICATION	CASE 3: MODERNIZATION
Below 20%	28%	27%	59%
20% to 50%	19%	32%	21%
51% to 100%	30%	31%	12%
Over 100%	23%	10%	8%
Our Estimate	44%	45%	29%
Estimate in Months	36	24	18
Average Overrun	16	11	6
Estimate with Overrun	52	35	24

The time overruns in all three cases.

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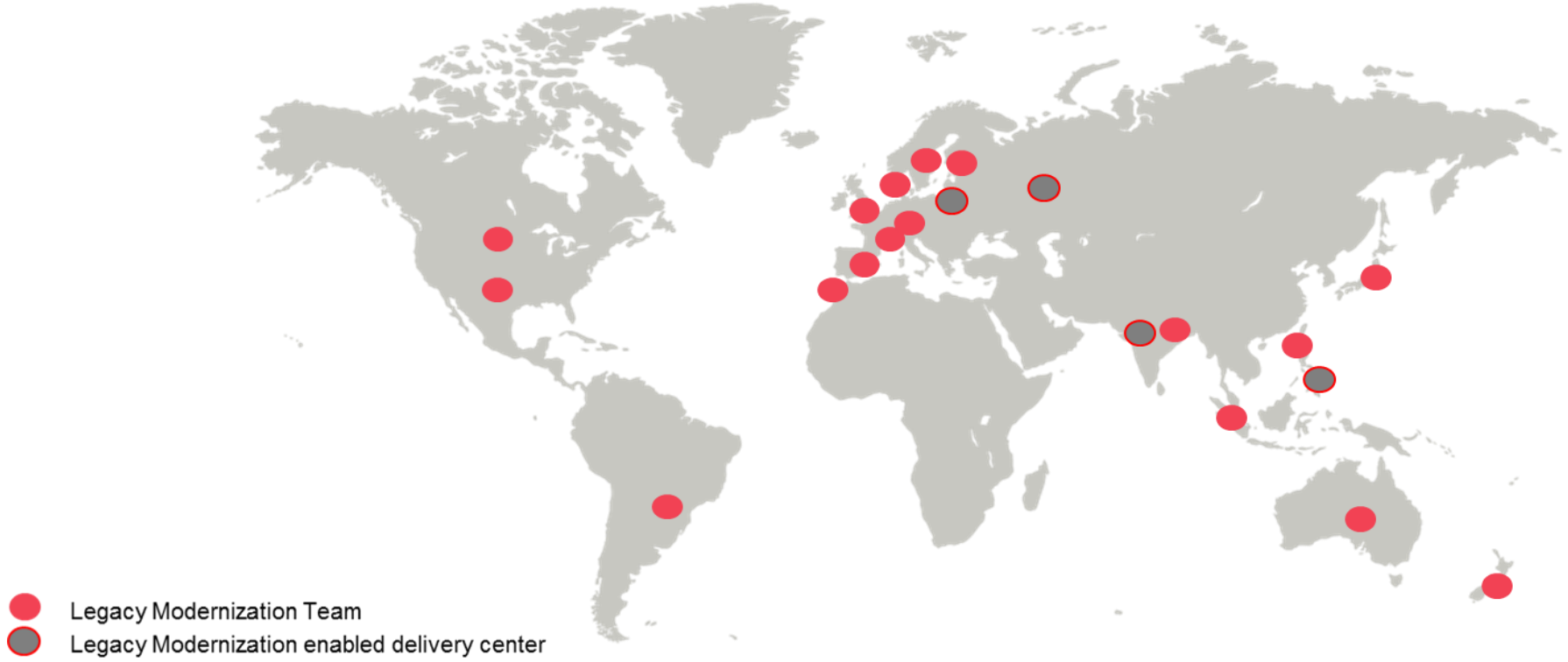
Global Application Modernization Offering



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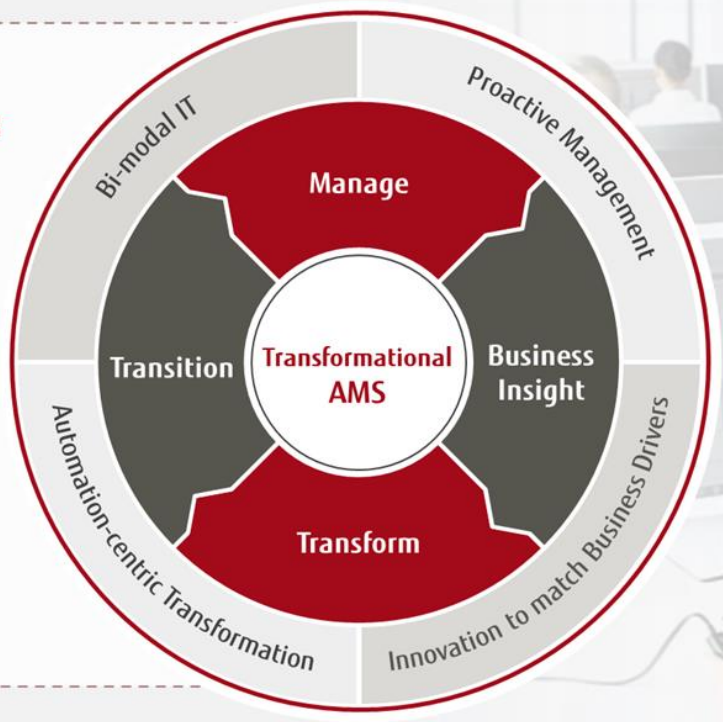
Fujitsu's Global Offering

FUJITSU Transformational Application Managed Services

FUJITSU Transformational Application Managed Services ('Transformational AMS') is a full lifecycle solution providing proactive end-to-end management of the application landscape, with underlying support for **business insight** and **next generation** aspirations.



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Transform

Revitalize and reinvigorate

3

The Top 3 customer outcomes:

1. Reduced Total Cost of Ownership.
2. Improved customer experience and agility.
3. Integration of the application estate onto a digital platform.

- Application Modernization
- Cloud Integration
- ERP Modernization
- Digital Transformation
- Performance Optimization

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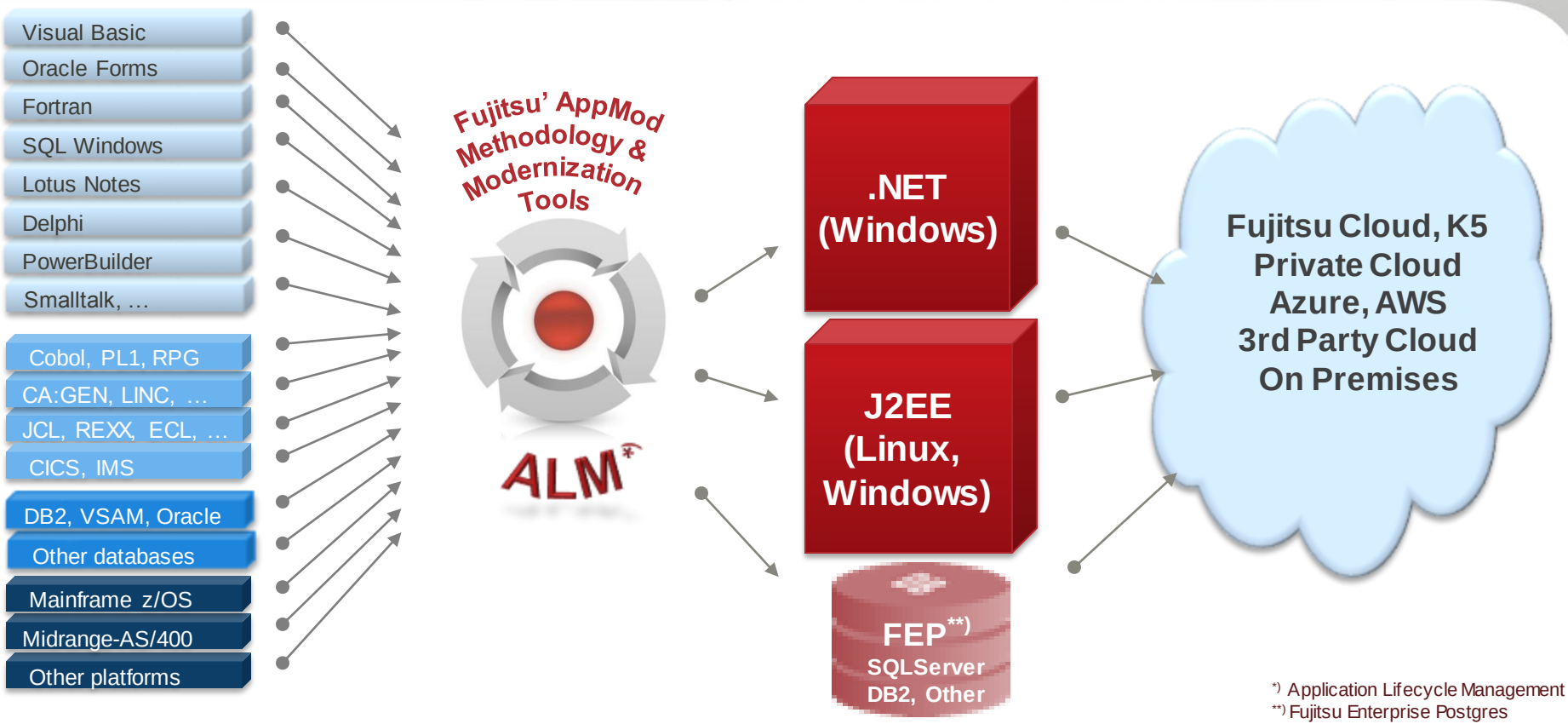
Fujitsu Application Modernization Solutions



*) Application Lifecycle Management
**) Fujitsu Enterprise Postgres

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Mainframe Modernization – Software Defined Mainframe

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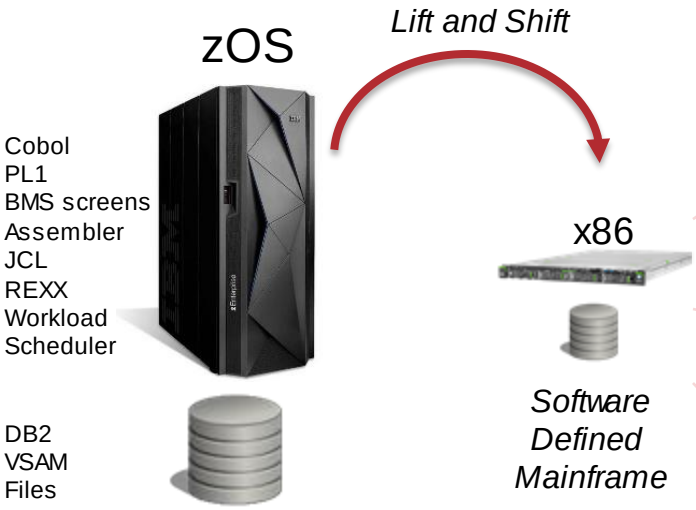

5-10€ → 1€

Fast cost savings!

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Mainframe Modernization – Software Defined Mainframe

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Faster digital business growth and change agility!

zOS

Lift and Shift

Cobol
PL1
BMS screens
Assembler
JCL
REXX
Workload Scheduler

DB2
VSAM
Files

x86

Software Defined Mainframe

Windows .NET

- Rehost – FJ Netcobol Suite, PL1 Compiler
- Migrate to C# - FJ Progression Suite
- OpCon Scheduler - SMA Solutions

Linux

- Rehost – FJ NetCobol Suite, PL1 Compiler
- Migrate to Java – Freesoft, LzLabs
- OpCon Scheduler - SMA Solutions

Database Files

- FEP Fujitsu Enterprise Postgres
- MS SQLServer
- DB2 / Linux
- …

x86

x86

5-10€ → 1€

Fast cost savings!

Cost savings!

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Mainframe Modernization Options

FUJITSU

Faster digital business growth and change agility!

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Database Files

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Cost savings!

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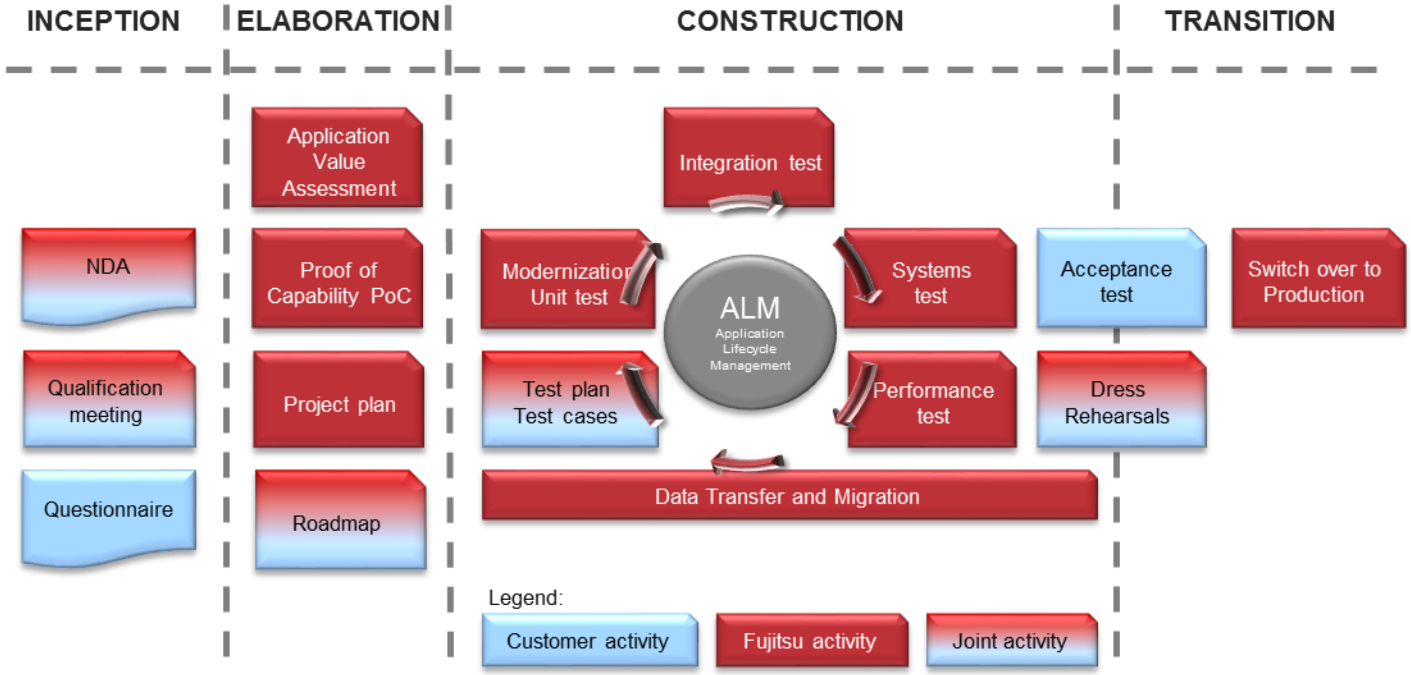
Fujitsu Methodology, Project Overall Structure



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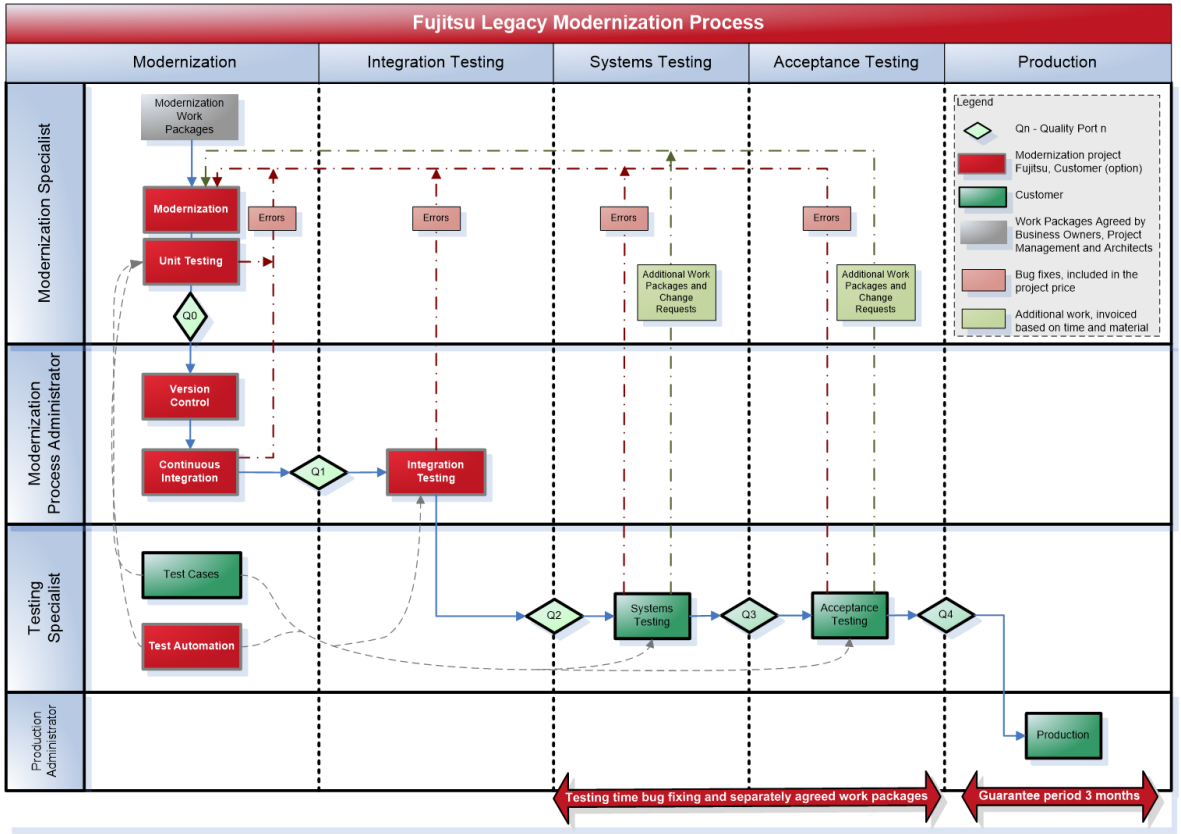
Fujitsu Methodology, Modernization Process



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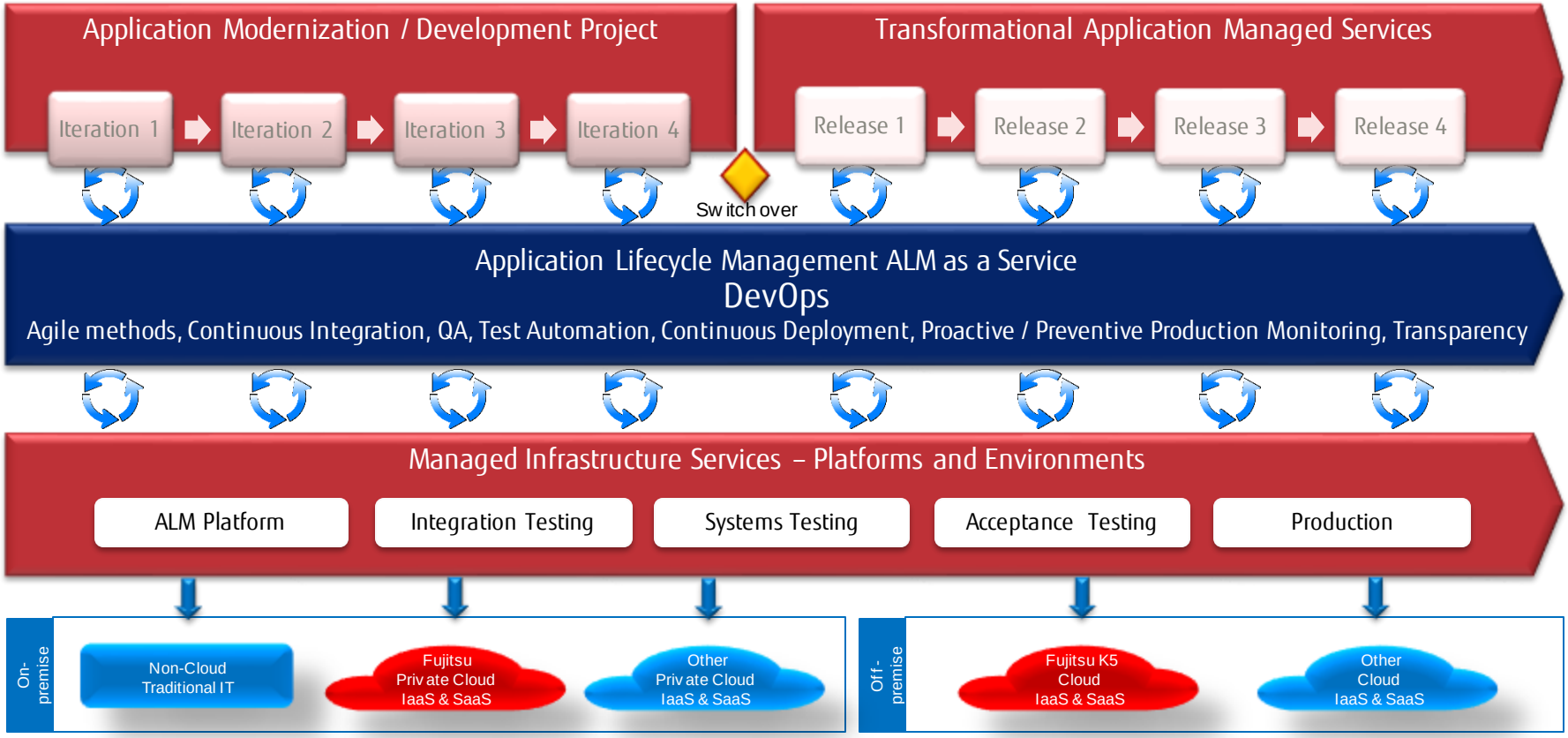
Application LifeCycle Management as DevOps Enabler for Application and Infrastructure Management



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How to go forward - Consultancy Driven Approach

- Questionnaire & Qualification Meeting
  - Introduction to the Legacy Modernization offer
  - What are the applications?
  - Size / structure / programming languages?
  - Operational criticality?
  - What is the technology stack?
  - Partial code analysis, proposal for the POC
- Proof of Concept (POC)
  - Migration of a selected code slice
  - Analysis of full code base
  - In depth – technical, planning, approach, responsibilities discussion, risk area identification
  - Possible options available
  - Migration strategy for each application
  - Outline design of target system
  - Tailored approach & methodology for full project
  - Planning (Detailed cost, plan & risk analysis, Agree responsibilities)
  - A outline proposal for the Full Migration Project
  - The outcome is: Full approval to migrate

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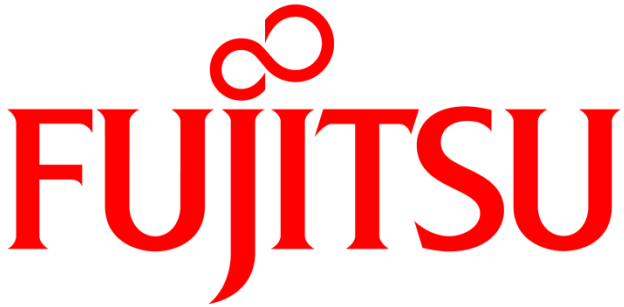

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