Legacy System Modernization





PA TechCon

May 4, 2017



DEFINING LEGACY MODERNIZATION – WHAT IS IT?





The VERY OLD

- Assembler
- 8086
- Natural
- Old COBOL
- Hierarchical Database



The RECENT OLD

- Newer COBOL
- PowerBuilder
- Network Database
- Client Server



NEW... but getting OLD

- New COBOL
- COM+ & VB
- EJB Java
- Web HTML
- C
- Relational Databases





WHAT ARE THE IMPERATIVES – WHY AND WHY NOW?







SIGNIFICANT INVESTMENTS IN LEGACY TECHNOLOGY





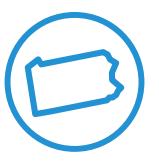
Mainframe & COBOL

- \$2 Trillion dollars
- 300 Billion + lines of code
- 100 Million added each year
- 85% of global business transactions



Non-Mainframe Legacy investment

- 100 Billion lines of code
- 20 Million added each year



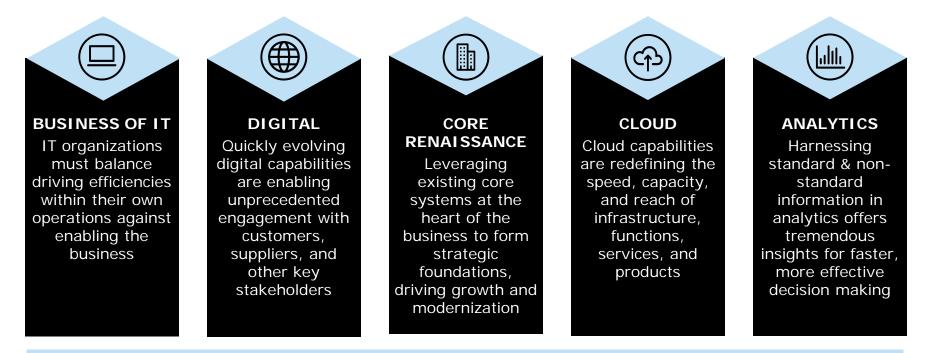
PA Specific Stat

- 494 mission critical applications out of 2100 applications defined as "declined", "obsolete, or "hardware >9 years"
- 78% of the inventory "do not have a modernization plan"

THE MORE MONEY YOU PUT INTO OLD, THE LESS YOU HAVE FOR NEW

DEMANDS ON IT BEYOND SUPPORTING LEGACY SYSTEMS





Cyber Security





WE NEED TO MODERNIZE, BUT IT COMES WITH SOME CHALLENGES





MULTIPLE INCREMENTAL APPROACHES TO LEGACY SYSTEM MODERNIZATION

Legacy System Modernization



MULTIPLE INCREMENTAL APPROACHES TO LEGACY SYSTEM MODERNIZATION

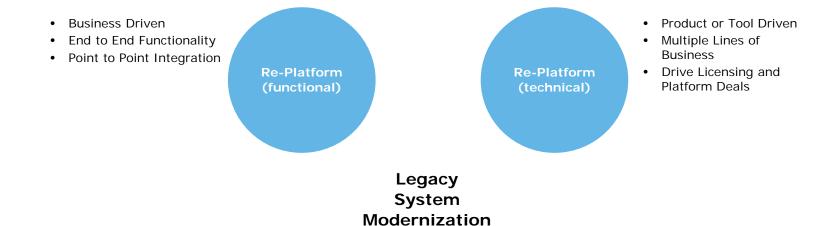


- Business Driven
- End to End Functionality
- Point to Point Integration

Re-Platform (functional)

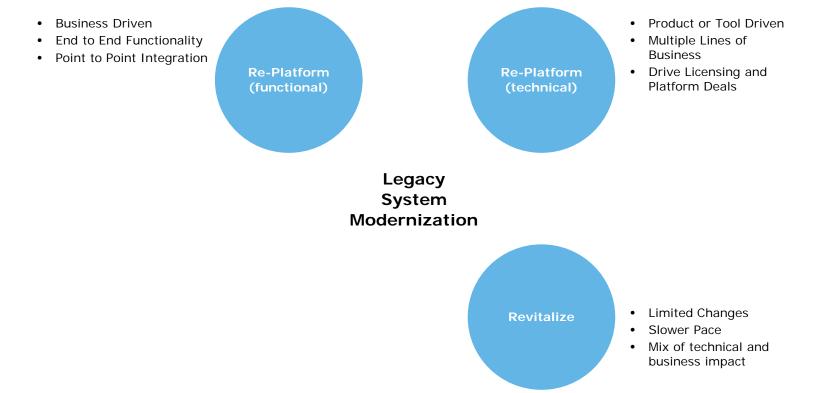
> Legacy System Modernization

MULTIPLE INCREMENTAL APPROACHES TO LEGACY SYSTEM MODERNIZATION



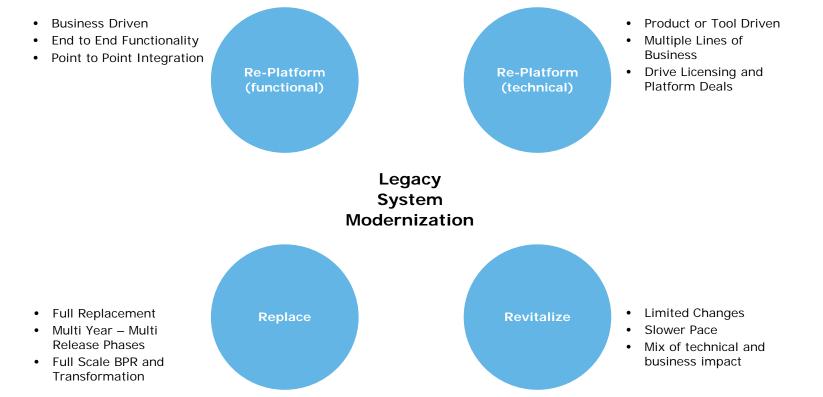


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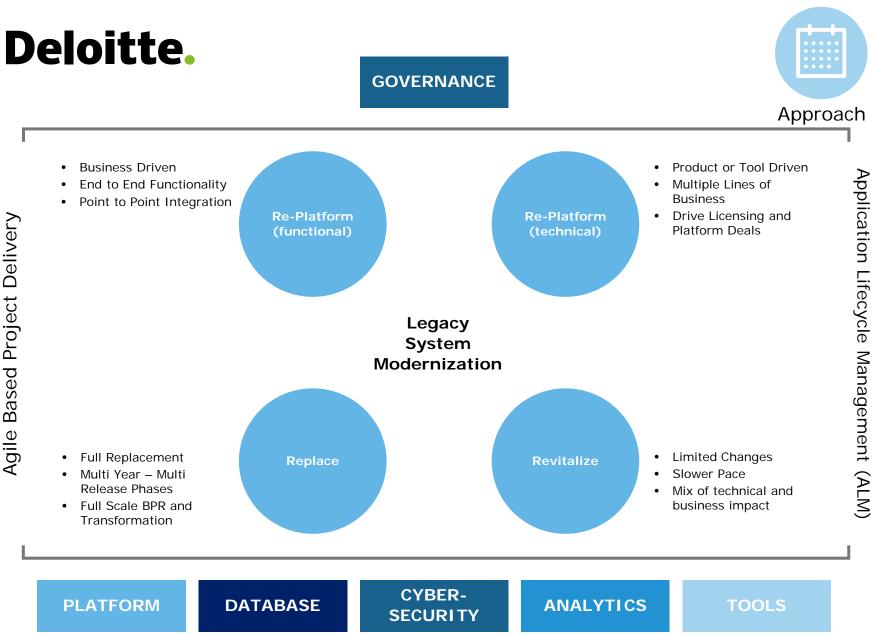




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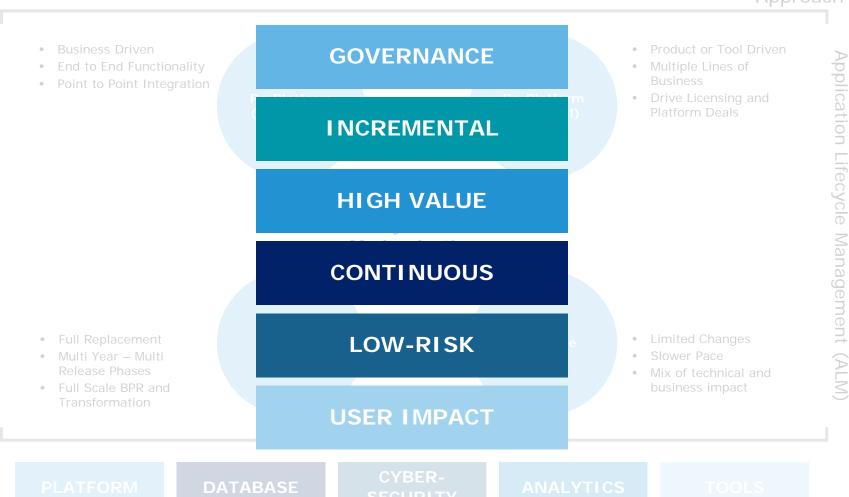




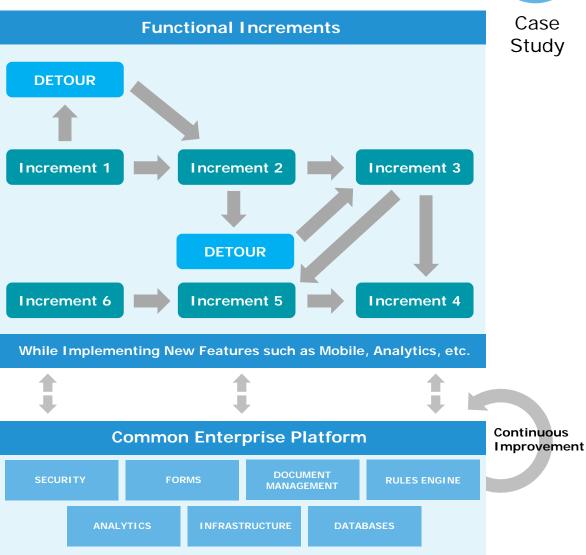
Agile Based Project Delivery

GOVERNANCE



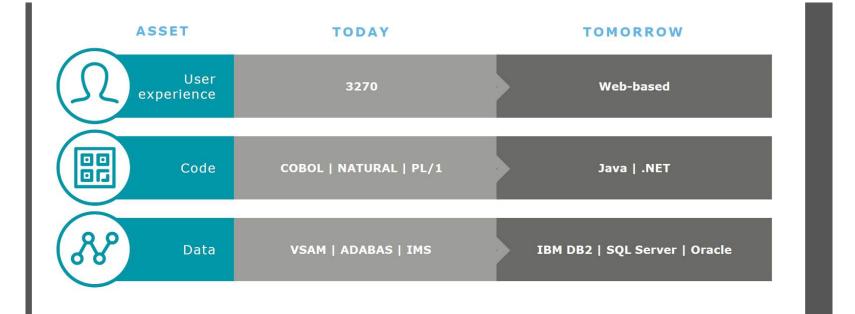


CASE STUDIES – FUNCTIONAL & TECHNICAL





CASE STUDY – LARGE STATE GOVERNMENT CLIENT REPLACE WITH REFACTIONING







CONSIDERATIONS FOR SUCCESS





Culture

Agility

Talent

Sourcing

Accountability



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