Service Virtualization CA LISA introduction

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agility
made possible™

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terms of this presentation
for information purposes only

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innovate or die

- The Product is the entire brand and customer experience

- Service oriented products are delivered late, over budget and with questionable quality...WHY?

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changes in software development

Constraints ↑
Complexity ↑
Costs ↑

Composite
(Custom Applications, SOA, Cloud)

Client/Server
(Packaged Apps such as SAP, Siebel, Oracle...)

Mainframe

… 1980 … 1985 … 1990 … 1995 … 2000 … 2005 … 2010 … 2015

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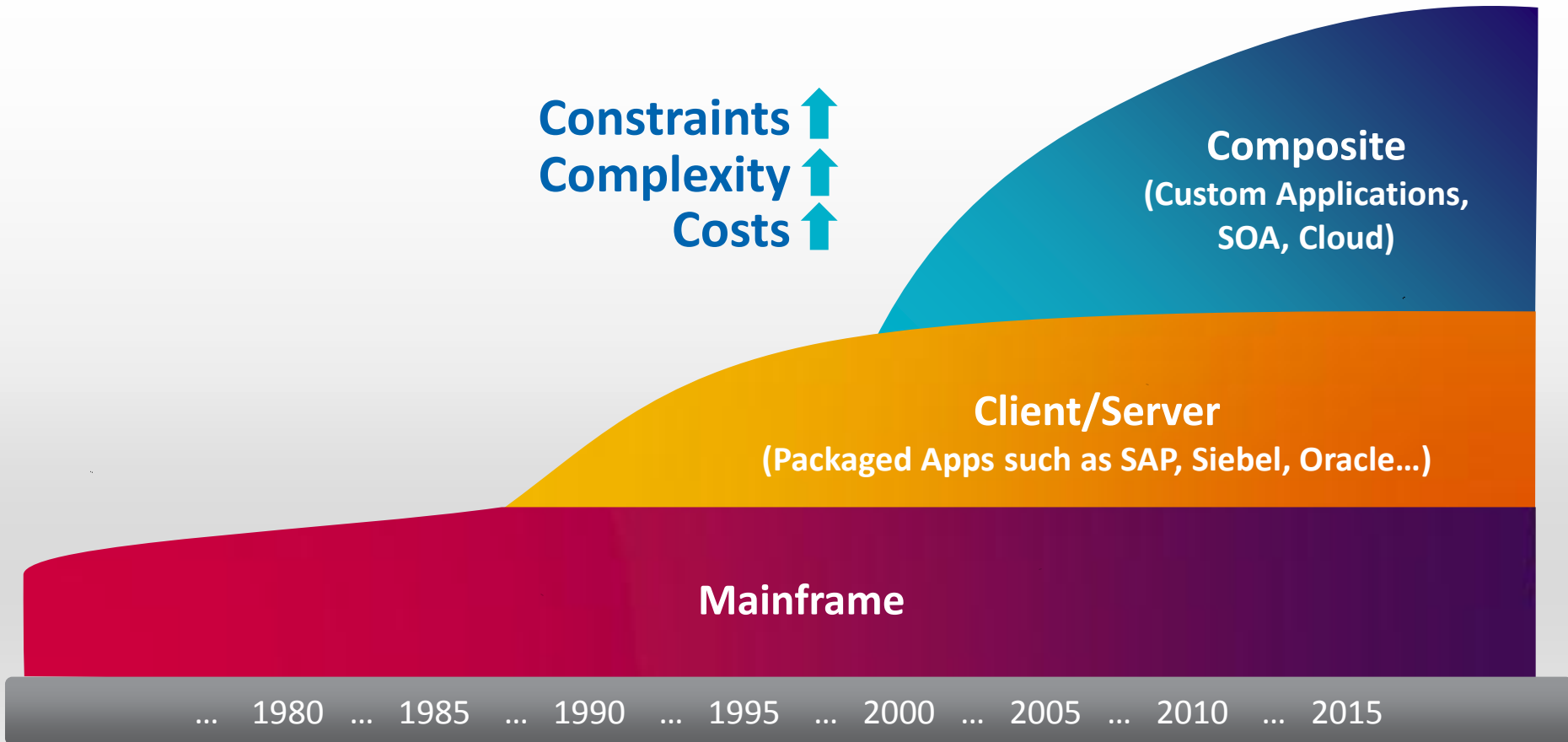
the big problem: constraints

INCOMPLETE DEVELOPMENT

ESB

SYSTEM UNAVAILABLE

MAINFRAME

DATA

LEGACY

EXTERNAL

ACCESS FEES

INVALID DATA
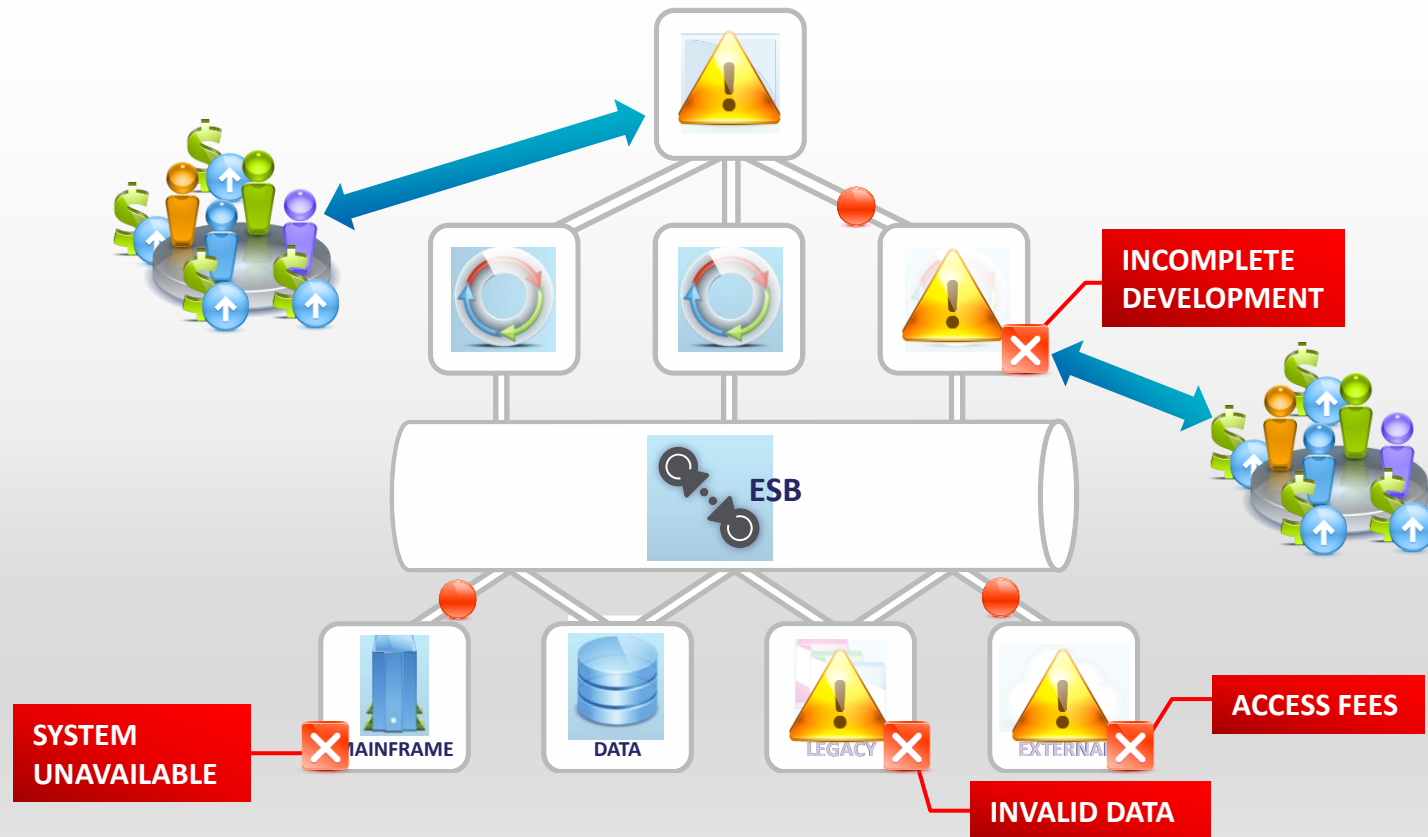
"I can't do anything until I have everything… and I never have everything!"

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solution: service virtualization
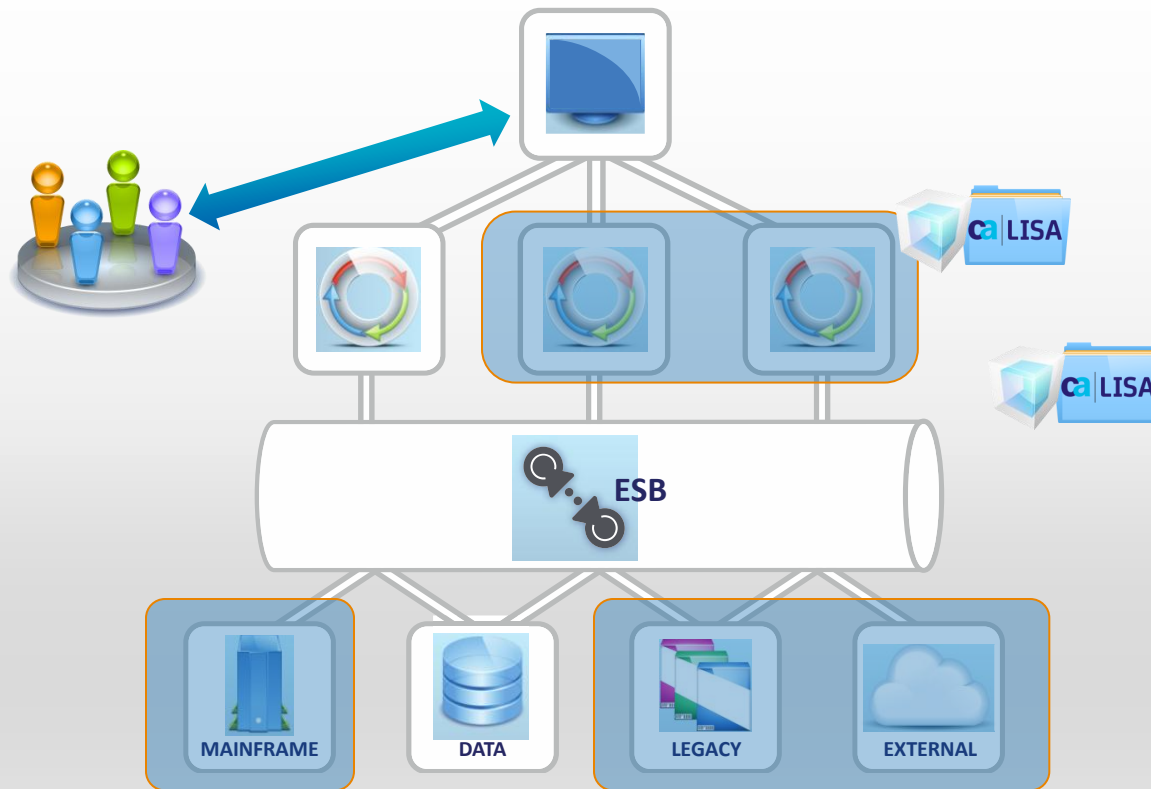
constraint: schedule dependencies
1- "shift-left" the SDLC

Without LISA   Uncertain delivery schedule – defects persist until UAT

Dev 1	Dev 2	Dev 1	Dev 2	Dev 1	Dev 3	Dev 2	Dev 3	System Test	Integration

With **CA LISA** more effort
moved sooner in the lifecycle

Typical composite app today waits
for whole assembly to begin

With LISA

Dev1

Dev2

Dev3

System Test

Integration

UAT

**Reduction in SDLC
Faster Rollout**

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constraint: infrastructure availability
2- infrastructure requirements reduction

BEFORE

Dev 1-*n*
- Contention for access between on-shore and off-shore teams

Integration 1-*n*
- Constrained mainframe and complex coordination cycles stunted agility
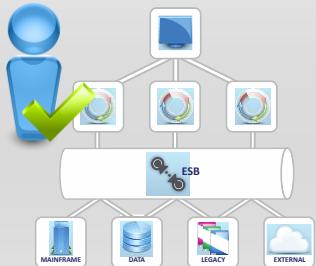
Test 1-*n*
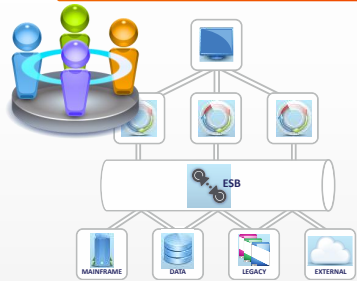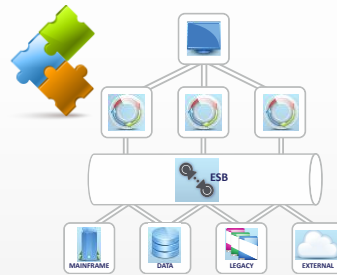- Environments not realistic and require manual data and maintenance
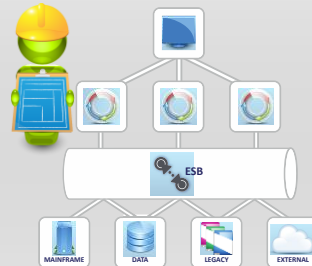
Pre-Prod 1-*n*
- Mainframe access required for any testing

AFTER

Virtual Environments for Dev/Integration/Test/Pre-Prod

- Eliminates need for enterprise systems (mainframe, CRM, ERP, etc.) in many cases
- One customer avoided $30M infrastructure cost by eliminating test lab expansion

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constraint: system availability
3- performance readiness

BEFORE

Shared Mainframe Service

Or similar heavy-weight implementation environment
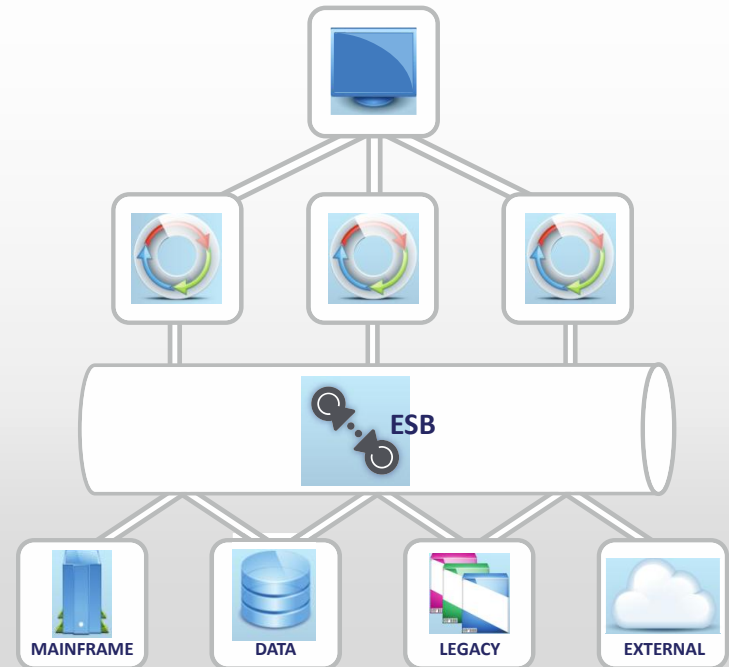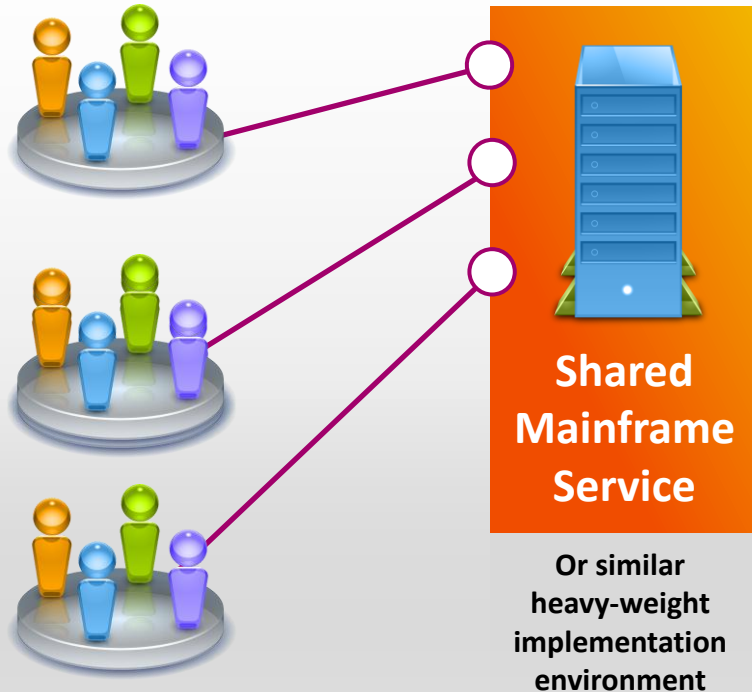
AFTER

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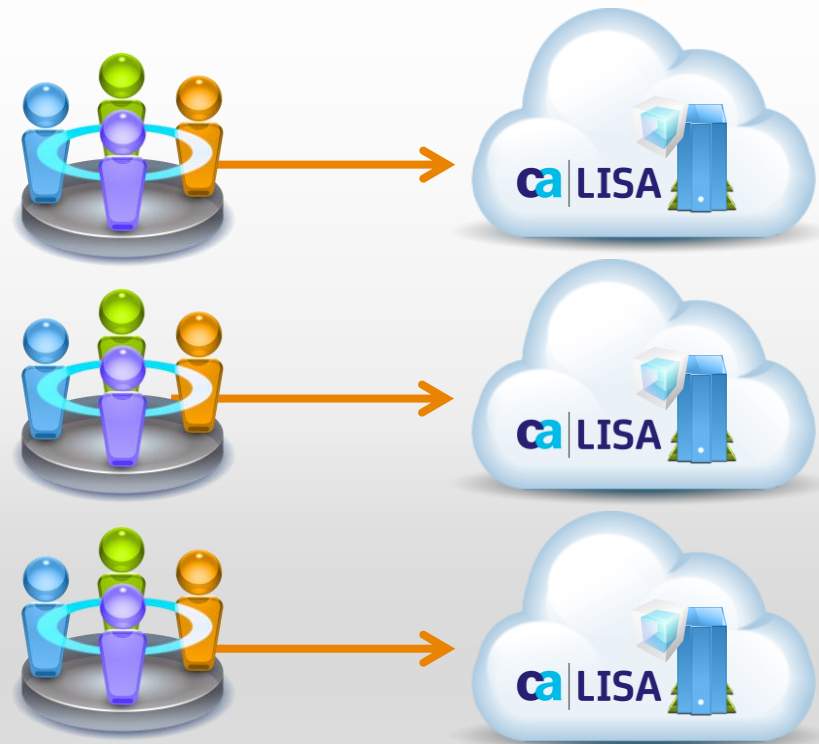
ca|LISA

- Constraints affecting performance team productivity, with inability to isolate flaws
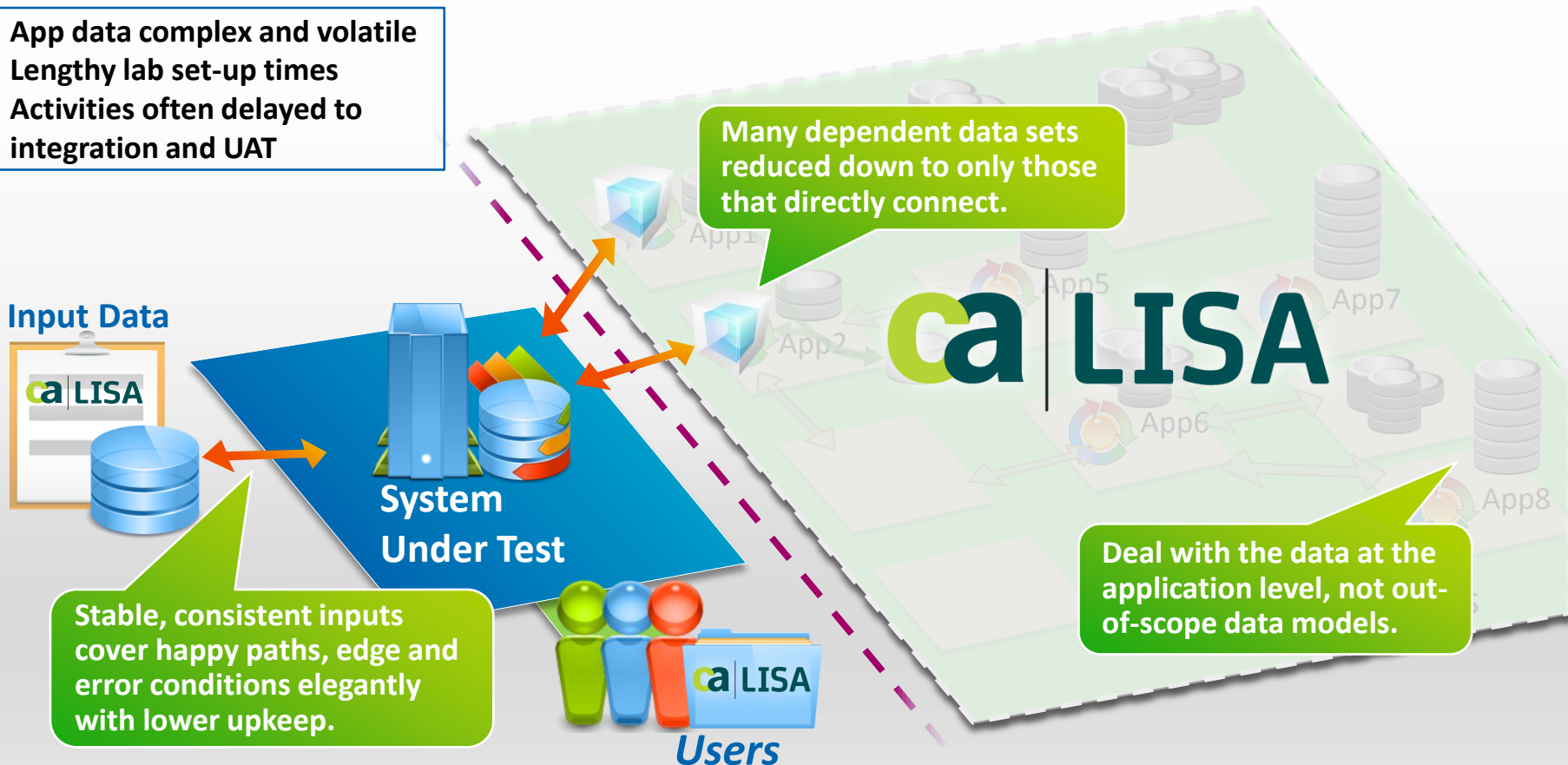- High costs to build and maintain stubs with only limited functionality

- One customer achieved 300% more performance coverage and avoided $30+ million in new infrastructure investment

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constraint: data volatility
4- data & scenario management

Before

- App data complex and volatile
- Lengthy lab set-up times
- Activities often delayed to integration and UAT

Input Data

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System Under Test

Many dependent data sets reduced down to only those that directly connect.

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App1
App2
App5
App7
App6
App8

Stable, consistent inputs cover happy paths, edge and error conditions elegantly with lower upkeep.

Users

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Deal with the data at the application level, not out-of-scope data models.

One Customer's Outcome:
- 30-day sprints for this implementation were reduced by 15-25 %
- Data setup time reduced by 68% by providing smart data

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questions

thank you