

Breaking

Bad

Integration

Projects

Past
10 yrs



How to avoid
this list in
2016

Large IT Modernization Projects Often Fail

What goes wrong?

According to the [2011 Institute for Defense Analysis report \(pdf\)](#) business transformation projects are routinely “over budget, behind schedule, & have not met performance expectations.”



Large IT Modernization Projects Often Fail

What goes wrong?



- Large projects are complex, both technologically and financially
- Reporting negative findings is perceived as weakness; obstacles are therefore not removed
- Focus is often on technology instead of business needs
- Difficult for smaller, more agile companies to access government projects
- Lack of incentives that encourage completion versus stretching the project (cost plus arrangement)

Overcoming Government IT Failure

According to
PMI
(May, 2015)

The annual cost of failed U.S. government IT projects is estimated to be as high as **US\$20 billion.**



Overcoming Government IT Failure

To overcome challenges:

- Make it easier for smaller companies to bid
- Reduce project size – if it takes too long, it may be obsolete before completed
- Provide training so the teams are skilled at what they do – both technologically and financially



Complexity Makes Large Legacy Modernization Projects Risky

"There is going to be so much more complexity and unperceived risk associated with larger projects as compared to smaller ones . . . and they are more likely to fail."

[Niam Yaraghi, a fellow at the Brookings Institution's Center for Technology Innovation](#)

There are many examples of Failed IT projects over the last decade



HP has had trouble with large projects. Losing over \$266M



U.S. Air Force Spends \$1 Billion on Failed ECSS project (pdf)



Avantor Sues IBM – \$13M project



California's DMV IT Project Cancelled (\$134M)



Healthcare has many similar examples

HP has had trouble with large projects

- HP - Department of Motor Vehicles [projects cancelled](#), Michigan State (\$49M), [Rhode Island](#) (\$16M+), California (\$135M), Minnesota (\$48M), Vermont (\$18.5M), [New Jersey](#), and more
- Lengthy timelines as well.
Michigan State cancelled project lasted over 10 years!!!



U.S. Air Force Spends \$1 Billion on Failed ECSS project

According to [Spectrum](#), between 2004-11 the US Air Force failed to complete an ambitious and risky effort to replace 240 outdated Air Force computer systems with a single integrated system.

8 years!!!

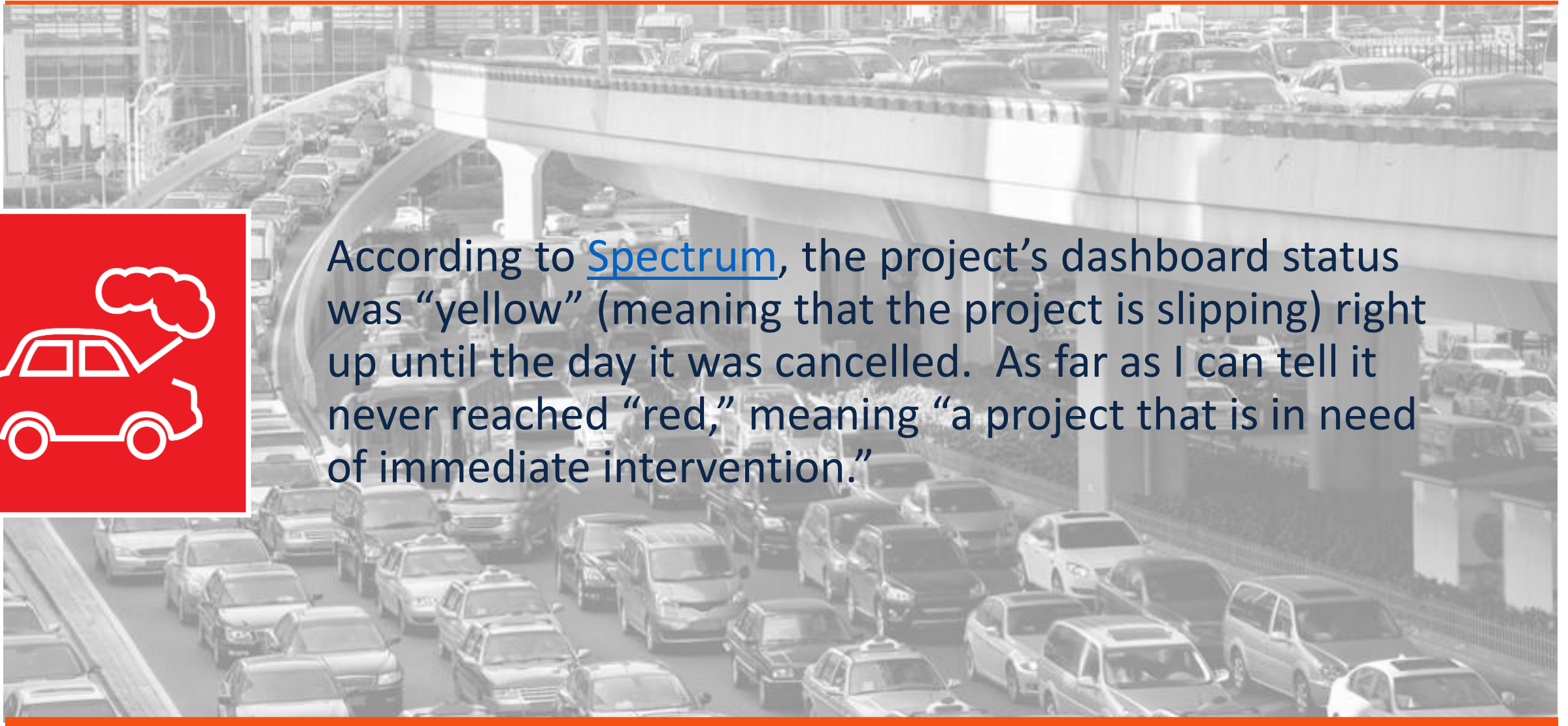


Avantor Sues IBM – 13M\$ project



- According to [Reuters](#):
- IBM – SAP's solution did not meet needs, as promised
- Avantor is claiming disastrous damages, including:
 - Lack of crucial functionality that Avantor needed to run its core business processes
 - Errors ranging from failure to track or process orders correctly to directing "that dangerous chemicals be stored in inappropriate locations".

California's DMV IT Project Cancelled (\$134M)



According to [Spectrum](#), the project's dashboard status was "yellow" (meaning that the project is slipping) right up until the day it was cancelled. As far as I can tell it never reached "red," meaning "a project that is in need of immediate intervention."

There is evidence from Canada too

**In Ontario,
for example** >



- An \$80M laboratory information system that costs at least \$15M annually to operate has languished largely unused for years
- A \$46M diabetes information system that was intended to serve as the centerpiece of a \$150M chronic disease registry has proven impossible to build.
- Progress is dependent on the implementation of health information plans

Invested Time and Money May Not Yet Be Paying Off in Ontario

According to the [Globe and Mail](#):

- Projects were centered first on constructing massive provincial databases rather than on the basic need to connect physicians to each other and to patients.
- New technologies, like using tablets to enable patients to do their own data entry, are waiting, despite being proven effective.



Time and Money Costs

From these case studies, it is difficult to know exactly how much longer or how much more expensive the projects actually were



They share

- multiple attempts
- at multiple-year projects
- with budgets ranging from millions to hundreds-of-millions and billions of dollars.

Today's solutions

Take forever



7% Average schedule overrun, out of that 33% for software projects

Costly



45% of IT projects go over budget

Risky



Projects deliver 56% less value than predicted

“17 percent of large IT projects go so badly that they can threaten the very existence of the company,,

OpenLegacy makes it easy and fast



One-click model Generation
One-click Deployment



IN DAYS INSTEAD OF MONTHS

Benefits

Rapid Days instead of months	Risk Free No changes to existing applications	Out of the Box content-aware Security and API management	Workload/ MIPS Reduction ("Deep caching")	Effortless Scalability automatically deploys to Docker cloud containers	Leverages existing assets: presentation, business, data or service	Fully customizable, rule based, completely open standards
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But exactly how do we compare to the competition



Provides automated integration and multi-tenant delivery

- Content and context aware security
- Platform agnostic
- Out-of-the-box API management
- Deep caching can reduce existing / future workloads
- Automatically deploys to Docker based cloud containers or on premise
- No changes to your applications
- Leverage your existing assets: presentation, business or data
- Open source based, completely open standards
- Fully customizable, rules based

TIBCO™

WebSphere®

ORACLE®
WEBLOGIC

IBM

JBoss®
by Red Hat

Traditional ESBs

Provide integration and governance

- Some API interface, no API architecture
- Hard to migrate
- Standard security
- No automation
- Black-box design
- Not cloud ready

TIBCO™

MuleSoft™

ORACLE®
CLOUD SOLUTIONS

IBM

DELL Boomi

Cloud Based ESBs & Multi-tenants

Provide integration and cloud deployment

- Vendor locked and Cloud-platform locked
- API interface, no API architecture
- Hard to migrate
- Standard security
- No automation
- Black-box design

LAYER 7

apigee

3scale
Infrastructure for the programmable web

API platforms

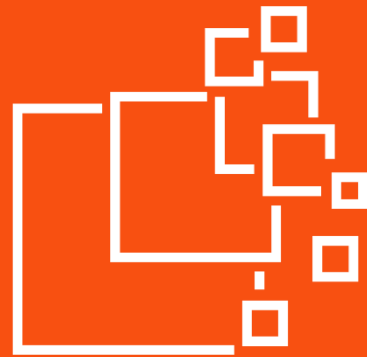
Provide API management, analytics, security

- No integration
- No delivery
- Existing governance investment not used

How to Avoid Failure in 2016



Focus on current business needs not technology



Reduce complexity by scoping smaller, shorter term, less expensive projects



Encourage discussion of obstacles, not covering them up



Provide training to the relevant teams

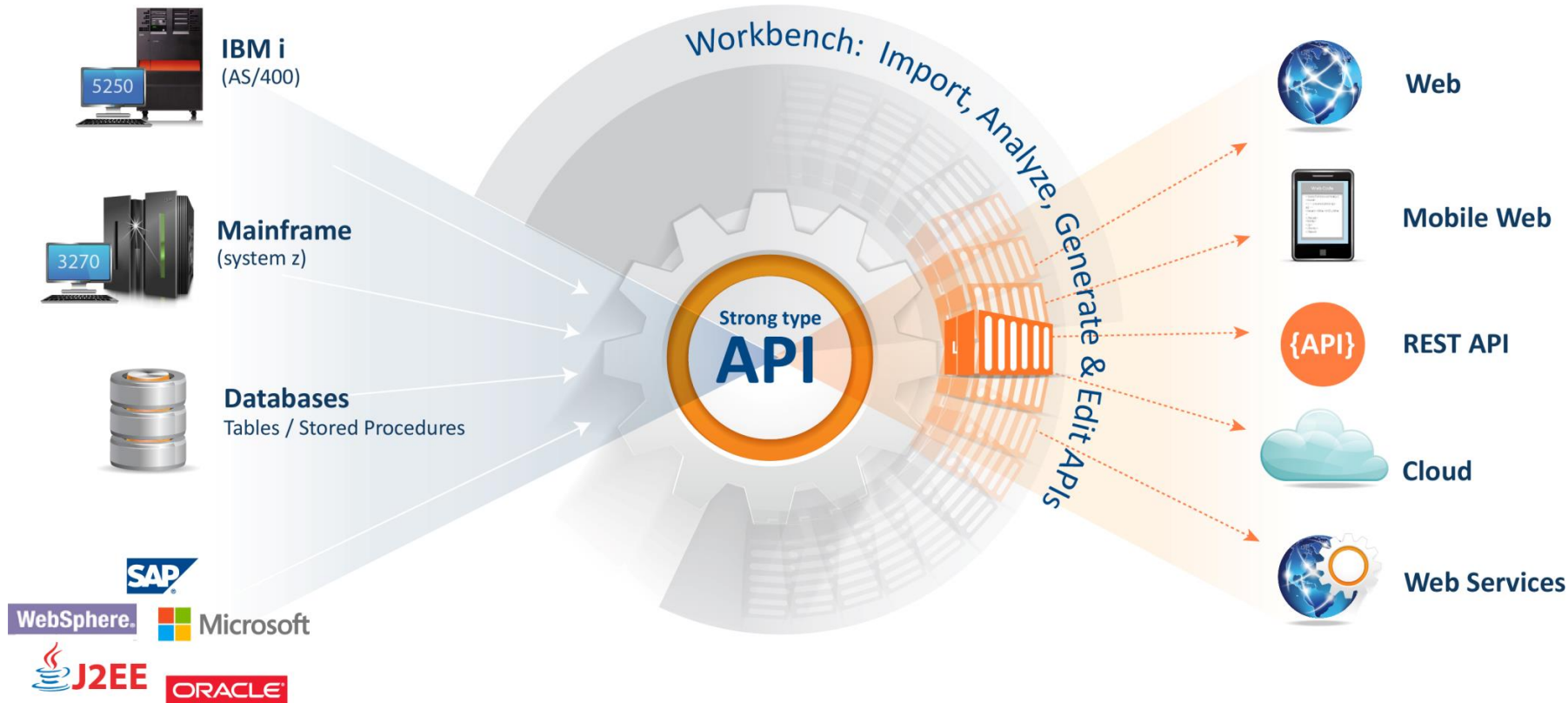


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Email Rolin.z@openlegacy.com
Call. +1.844.OPENAPI ([844.673.6274](tel:844.673.6274))

USA

103 Carnegie Center,
Suite 300,
Princeton, New Jersey
08540 USA



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