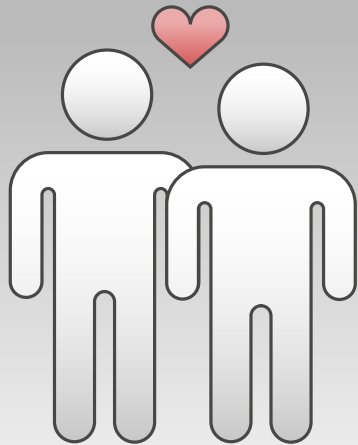


Lock-in and the Lifecycle of Dependencies



Choosing, Using and Losing

Adrian Cockcroft

What is the return on investment (ROI) for each phase?



Choosing



Using



Losing

What is the ROI
for each phase?

How has ROI changed
with advances in
technology and
practices?



Choosing



Using



Losing



Choosing



Using



Losing



Choosing



Investments

Negotiating, learning, experimenting

Hiring experts, building

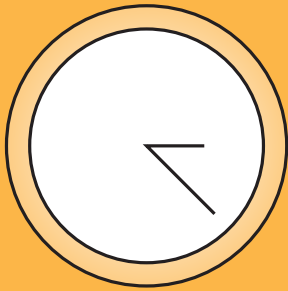
Installing, customizing

Developing, training



Choosing

How much
time elapses?



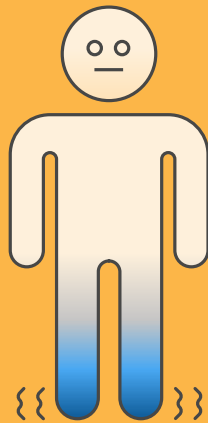
“The best decision is the right decision. The next best decision is the wrong decision. The worst decision is no decision.”

—Scott McNealy



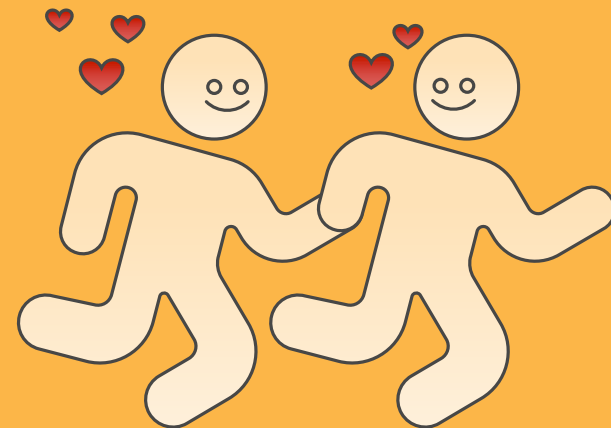
Choosing

Analysis Paralysis



vs.

Snap Judgement





Choosing



Making a commitment

Whenever development is frozen,
and the operations team takes over,
the key is turned in the lock



Choosing—What Changed?

Old World

Monolith—all in one

Proof of concept install

Enterprise purchase cycle

Months

\$100K–\$Millions

New World

Microservice—fine grain

Web service/Open source

Free tier/free trial

Minutes

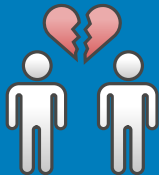
\$0–\$1000s



Choosing



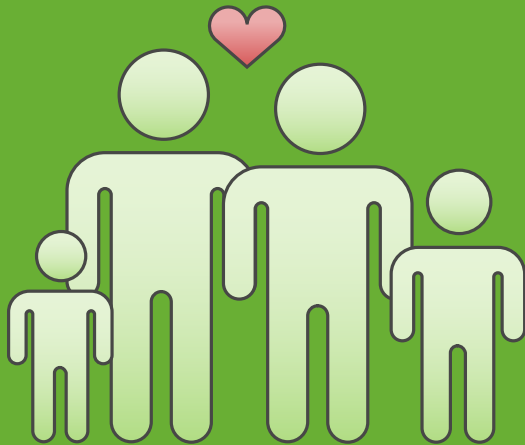
Using



Losing



Using



Investments

Cost of setup

Cost of operation

Capacity planning

Scenario planning

Incident management

Tuning performance and utilization



Using



Returns

Service capabilities

Availability, functionality

Scalability, agility

Efficiency



Using - What Changed?

Old World

Frozen installation

Ops specialist silo

Capacity upgrade costs

Low utilization

High cost of change

New World

Continuous delivery

Dev automation

Elastic cloud resources

High utilization

Low cost of change



Choosing



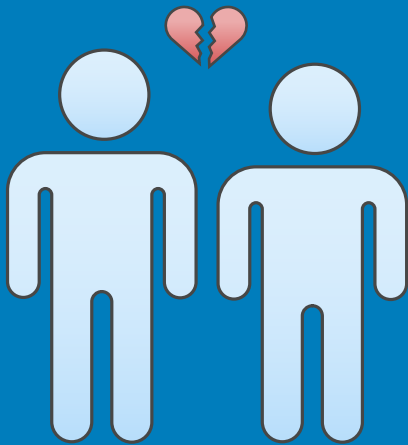
Using



Losing



Losing



Investments

Negotiating time

Contract penalties

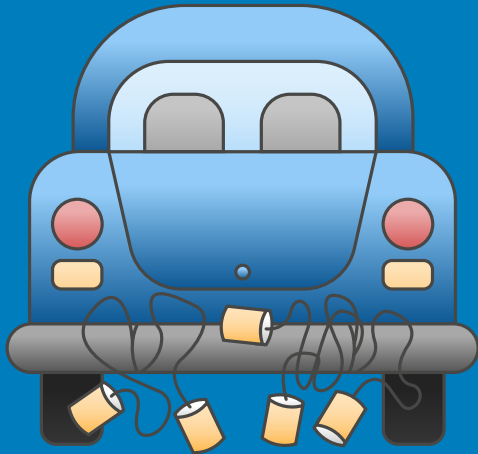
Replacement costs

Decommissioning effort

Archiving, sustaining legacy



Losing



Returns

Reduced spending

More advanced technology

Better service, agility, scalability

Choose again, the cycle continues...



Losing—What Changed?

Old World

Monolithic—all or nothing
Frozen waterfall projects
Long term contracts
Local dependencies

New World

Microservices—fine grain
Agile continuous delivery
Pay as you go
Remote web services



Old World

Monolithic on-prem waterfall lock-in

Years

Millions of dollars

100s of dev years

Lock-in

Lawyers and contracts



New World

Agile cloud-native micro-dependencies

Weeks

Hundreds of dollars

A few dev weeks

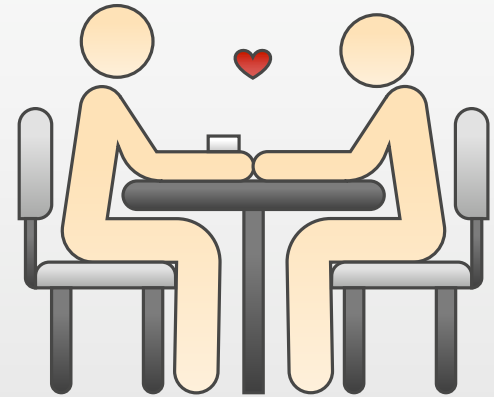
Refactoring

Self service

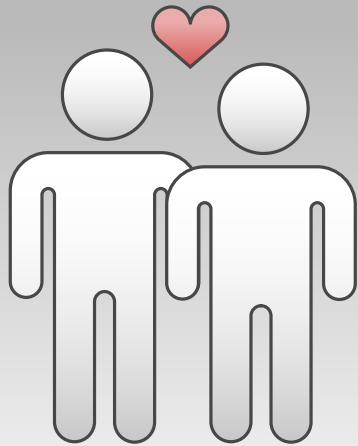
Bottom line

ROI for choosing, using, losing has changed radically. Stop talking about lock-in, it's just refactoring dependencies

The cost of each dependency is far lower
Frequency of refactoring is far higher
Investment and return is much more incremental



Lock-in and the Lifecycle of Dependencies



Choosing, Using and Losing