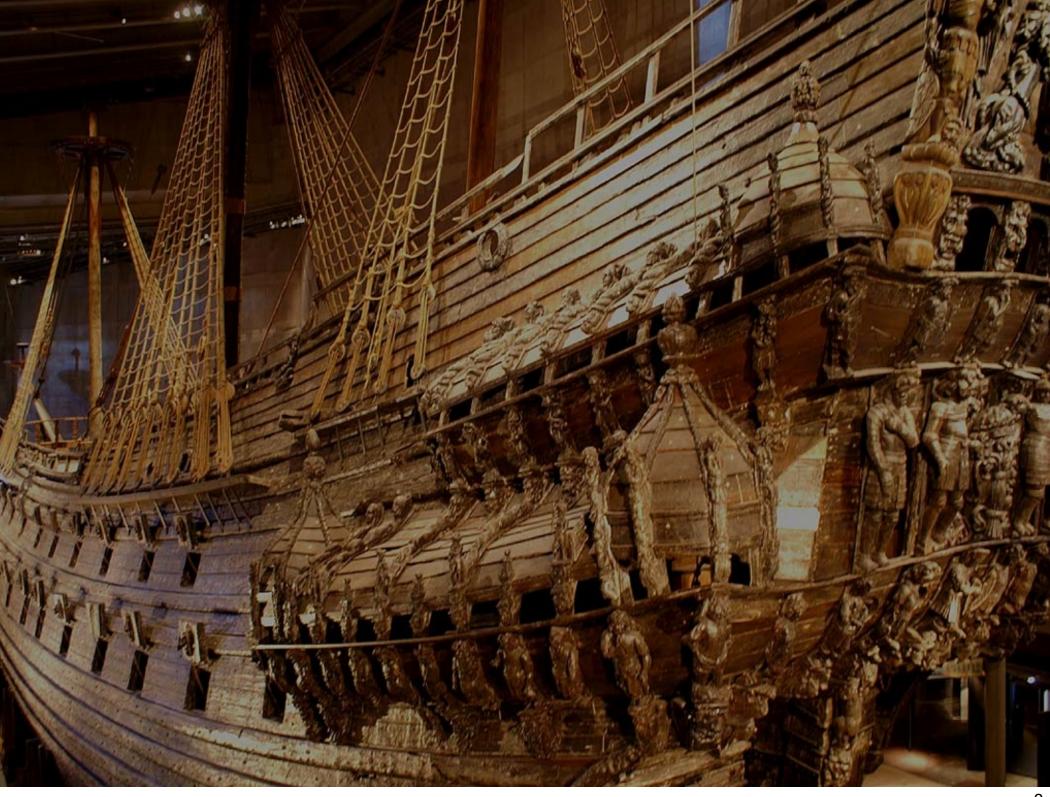
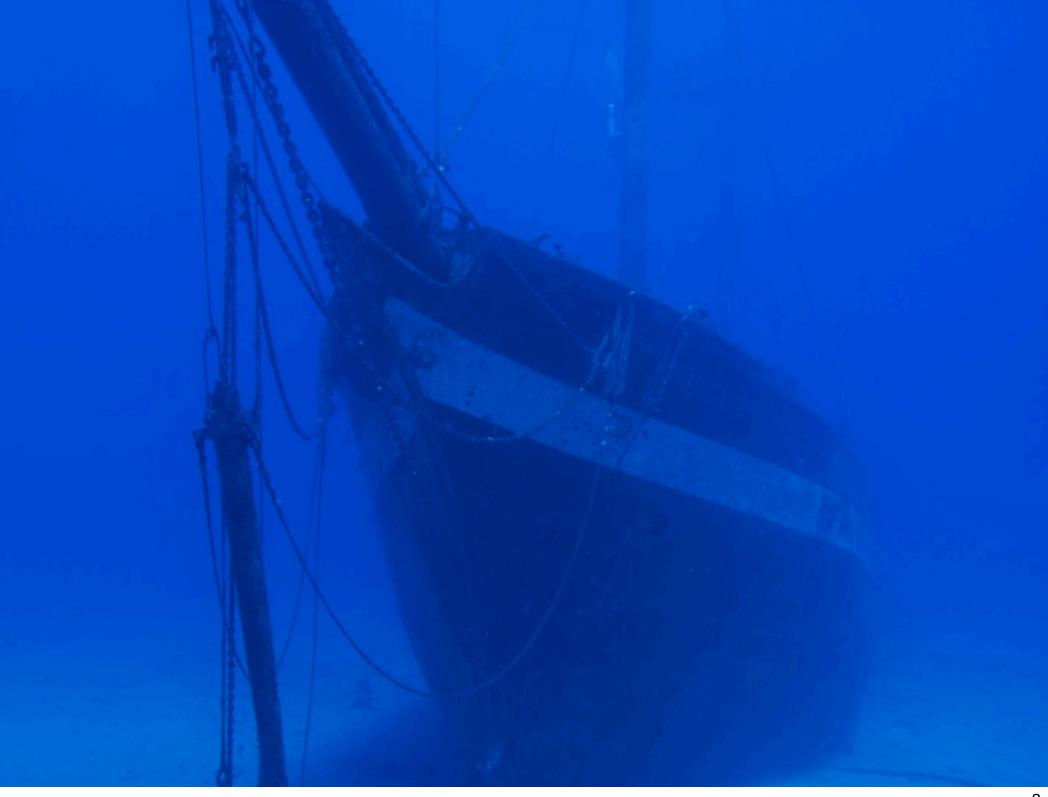
Architecture Tradeoffs





"I don't know the key to success, but the key to failure is trying to please everybody"

- Bill Cosby

architecture tradeoff analysis method



"we need lightning-fast response time to keep up with the backlog of calls"



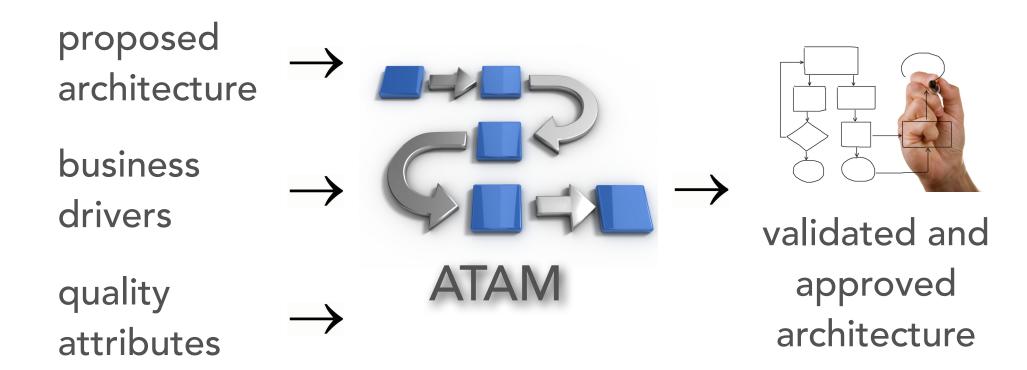
"over time we are expecting the entire company scalability
to use this system"

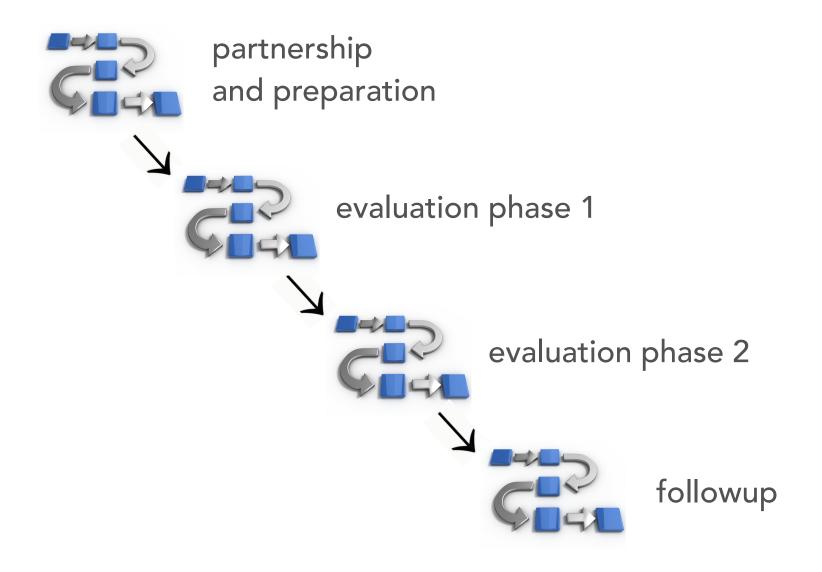


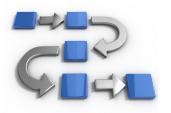


"the budget and timeframe for this system is very, very tight"

architecture tradeoff analysis method





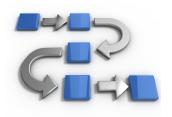


partnership and preparation

introductions and roles

establish agenda, logistics, and rules

explain the ATAM process



evaluation phase 1

present architecture and business drivers

articulate approach and quality attributes

defend architecture through scenarios



prioritize scenarios and business drivers

defend revised architecture against scenarios

discuss tradeoffs and present results



finalize architecture based on scenarios

document and distribute results

document consensus on architecture contract

issues with the formal process

assumes the architecture is complete

stakeholders are busy and often distributed

assumes a one-time process with no change

assumes all scenarios are known up front

focus on the goals, not the process

create an architecture presentation

validate the architecture and establish trade-offs

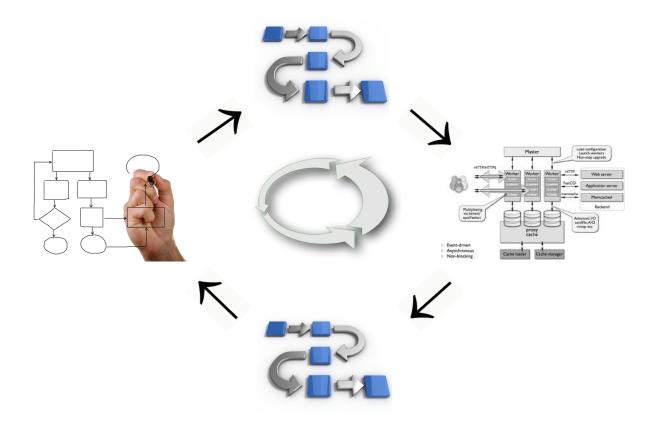
identify and mitigate risk

get stakeholder buy-in

Goals

The desired results plans and commits to achieve the end toward which effort is establishing specific, realistic time-targeted objectives.

begin with a conceptual architecture and repeat throughout the project



meet with smaller subsets of stakeholders more frequently



make ATAM part of the evolutionary architecture process, and keep stakeholders involved early and often

for more information



Software Architecture in Practice 3rd Edition, Bass et.al, Addison Wesley



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Mark Richards

Independent Consultant Hands-on Enterprise / Integration Architect Published Author / Conference Speaker

http://www.wmrichards.com http://www.linkedin.com/pub/mark-richards/0/121/5b9

Published Books:

Java Message Service, 2nd Edition 97 Things Every Software Architect Should Know Java Transaction Design Strategies





Neal Ford

Director / Software Architect / Meme Wrangler

ThoughtWorks[®]

2002 Summit Blvd, Level 3, Atlanta, GA 30319, USA T: +1 40 4242 9929 Twitter: @neal4d E: nford@thoughtworks.com W: thoughtworks.com