Building technology mid-flight

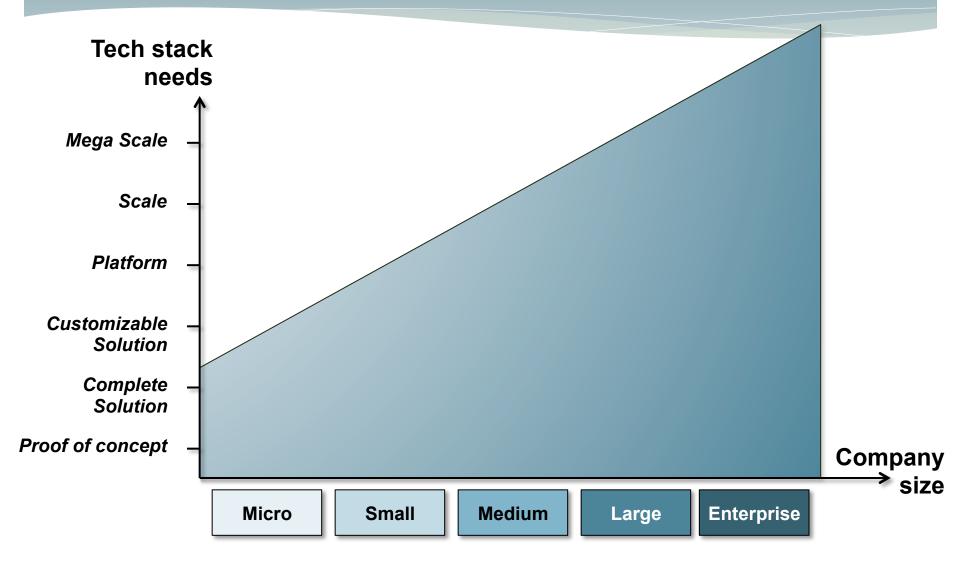
Sam Hamilton, March 2012

Tech Stack Expectations...

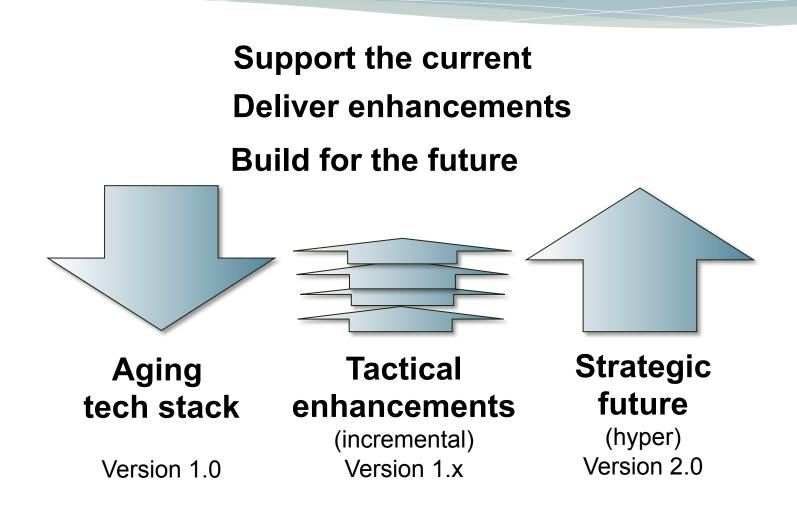


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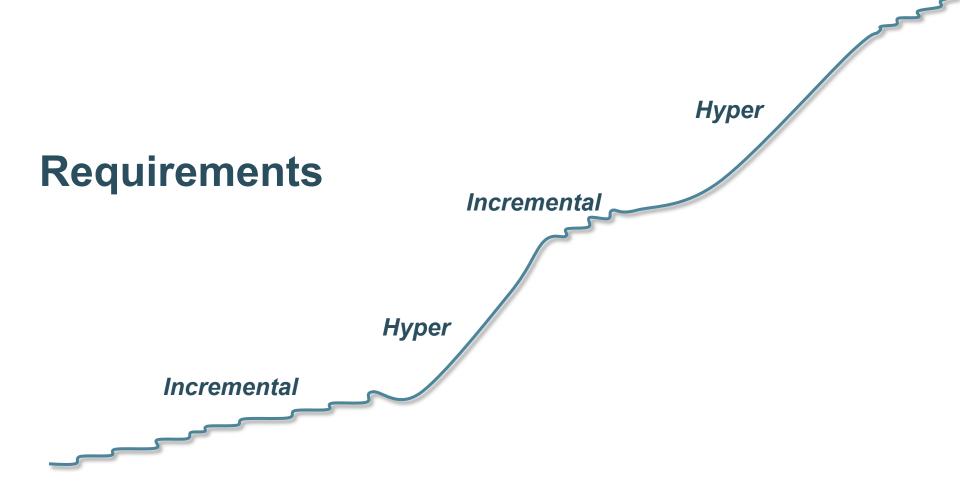
Evolve along with company



Growth is good...



Most often unpredictable...



...generates growing pains

Pain for the Business

- Successful enterprises make money with yesterday's technology
- Business growths are constrained by technology limitations
- Not enough tech investment for the future

Pain for the Technology

- Focus
- Scalability

Maintainability

How do we address? Mid-flight build

Support the *Necessary* present

Minimize the incremental

Leapfrog capabilities for the future

Migrate Smartly

Mid-flight build

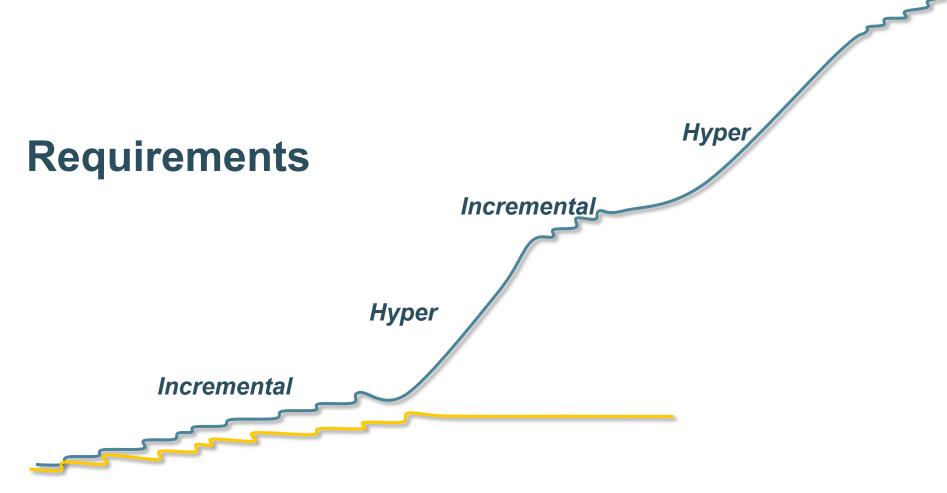
Support the necessary present

Minimize the incremental

Leapfrog capabilities for the future

Migrate smartly

Necessary to deliver on commitments...



Mid-flight build

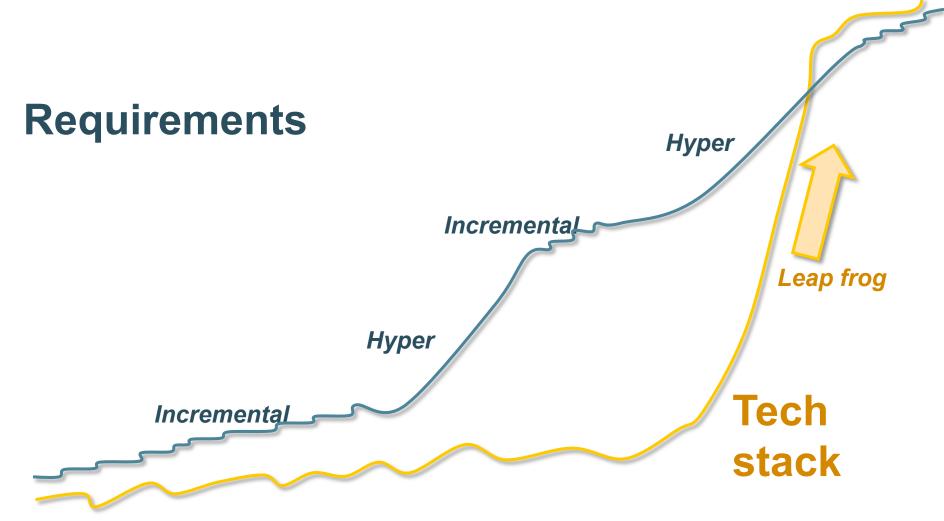
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Leapfrog capabilities



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Mid-flight build

Support the necessary present

Minimize the Incremental

Leapfrog capabilities for the future

Migrate smartly

Smart migration

Define Success

Smart mapping

Process redesign

Migrate

Measure and monitor

Building technology mid-flight







A Technology choices

• Address needs

Not limited by the current knowledge or skills

Adopt standards; Innovate for differentiation

B Architectural principles

AFK's 12 Principles N+1 Design **Service Oriented Availability Design to Rollback Design for redesign** Design to be Disabled 3 12) Use Right Design to be **fechnologies** Monitored 6 Async Design Design for 5 Multiple Live Sites **Stateless Systems** Scale Out Not Up 8 11) Buy When Non Core 10 Design for at least two axes of scale 9 Use Commodity Hardware **Scalability** Cost

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Source: AFK'S (Abbot, Fisher, and Keevan) twelve Architectural Principles

• Organizational considerations

- Resource Allocation
- Clarity in Responsibility
- Engagement
- Agility



Mid-flight build is hard but essential

