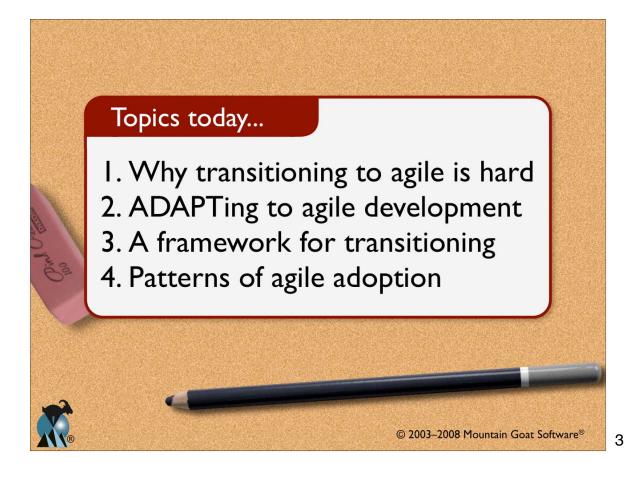
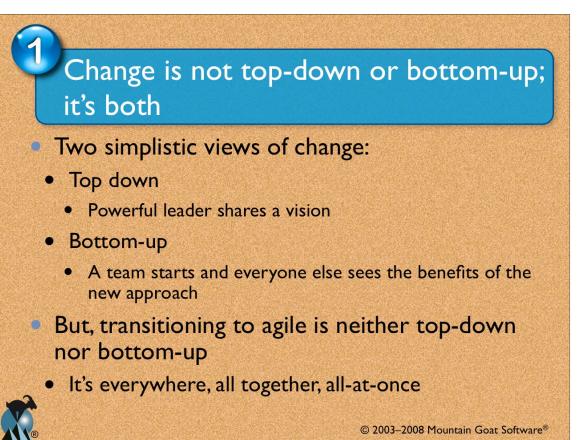
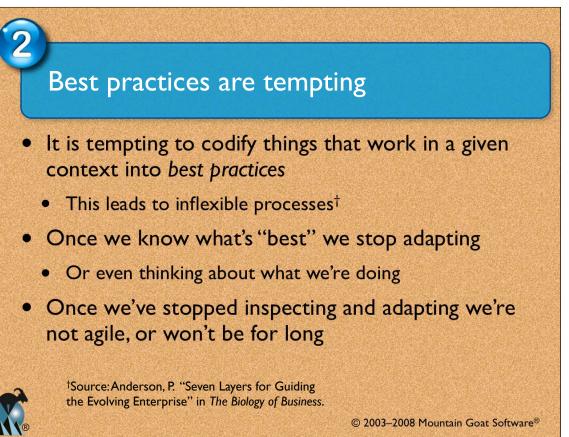


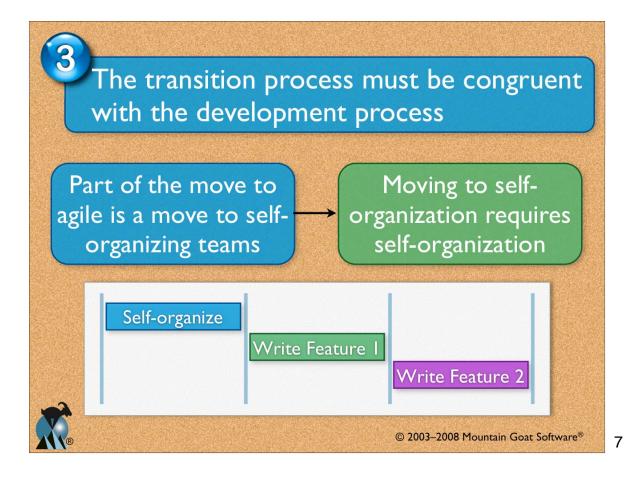
Mike Cohn - background Agile coach and trainer • Founding member and Jser Stories director of Agile Alliance and Scrum Alliance O Founder of Mountain Agile Estimating and Planning Goat Software O Ran my first Scrum project in 1995 • Typical programmer to manager etc. progression Mike Cohn © 2003–2008 Mountain Goat Software®

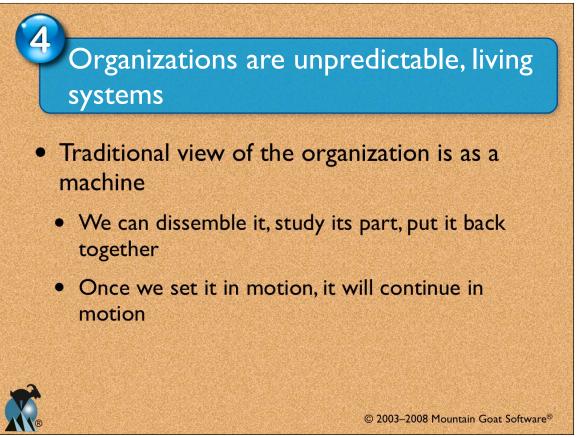


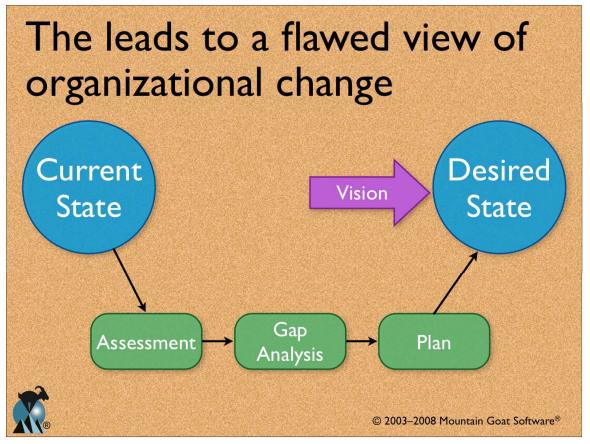












We need a different mental model

- The organization as a Complex Adaptive System (CAS)
- A dynamic network of many agents
 - acting in parallel
 - acting and reacting to what other agents are doing
- Control is highly dispersed and decentralized
- Overall system behavior is the result of a huge number of decisions made constantly by many agents

John Holland in *Complexity:The Emerging Science at* the Edge of Order and Chaos by Mitchell Waldrop



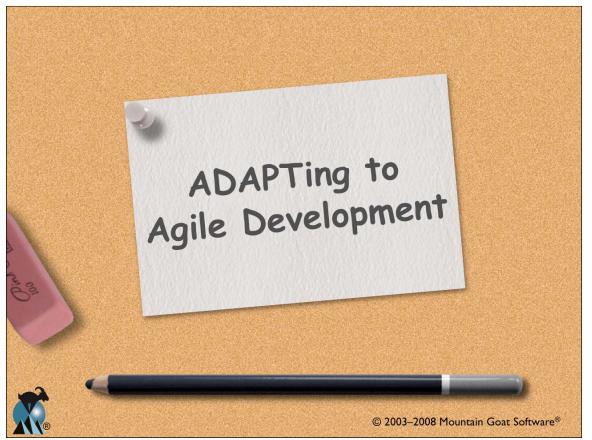


Traditional model of change	Complex, adaptive model of change
Behavior is predictable and controllable	Behavior is unpredictable and uncontrollable
Direction is determined by a few leaders.	Direction is determined through emergence and by many people
Every effect has a cause	Every effect is also a cause
Relationships are directive	Relationships are empowering
Efficiency and reliability are measures of value	Responsiveness to the environment is the measure of value
Decisions are based on facts and data.	Decisions are based on patterns and tensions.
Leaders are experts and authorities.	Leaders are facilitators and supporters.

Adapted from Olson and Eoyang, Facilitating Organization Change.

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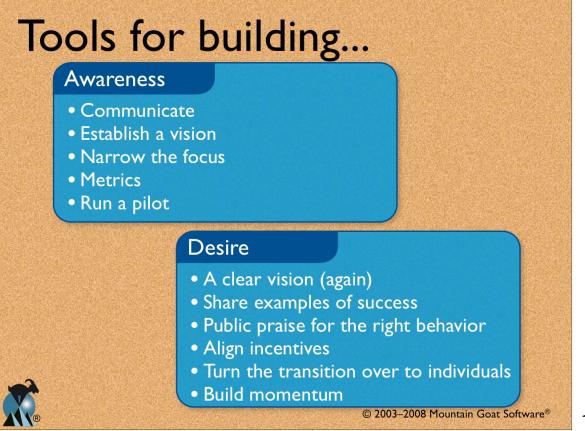


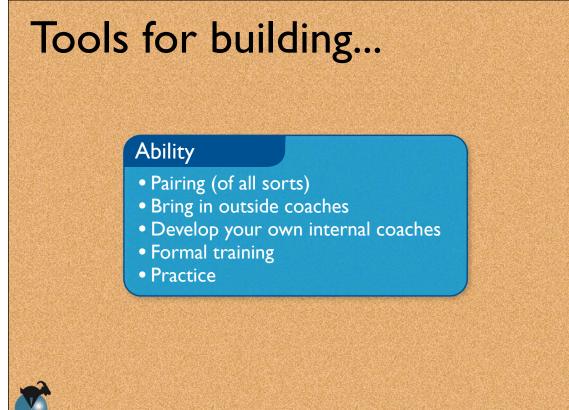


I'm the ScrumMaster and...

...the developers are not meeting expectations for code quality. One of our challenges is that we're still hacking our way through lots of legacy code that isn't unittestable or automated yet, but is mission critical and the person who has been working mostly on that area of code consistently leaves holes in the design and implementation of new pieces of that code. We also have the issue with at least one other developer as well.

I.Is this a problem of Awareness, Desire or Ability?2.Thinking about ADAPT, what might you try?





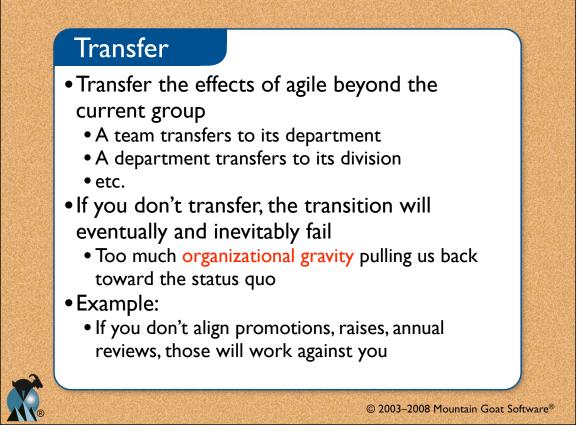
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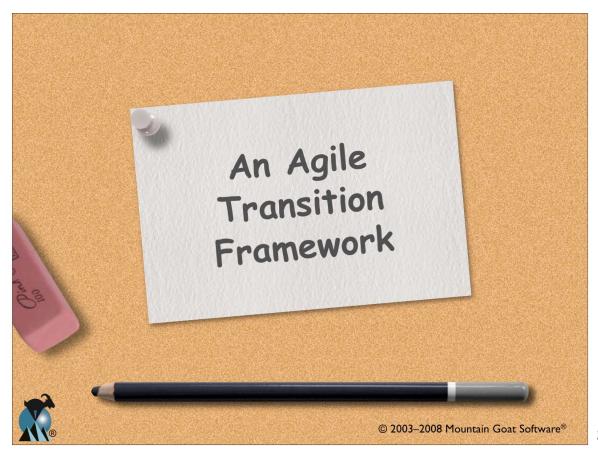
Promote

- Celebrate and share even small, early wins
- Goal is to build momentum
 - Want a feeling of inevitability around the transition
- Reduce upcoming resistance before it starts
- Send people on an agile safari
- Attract attention and interest

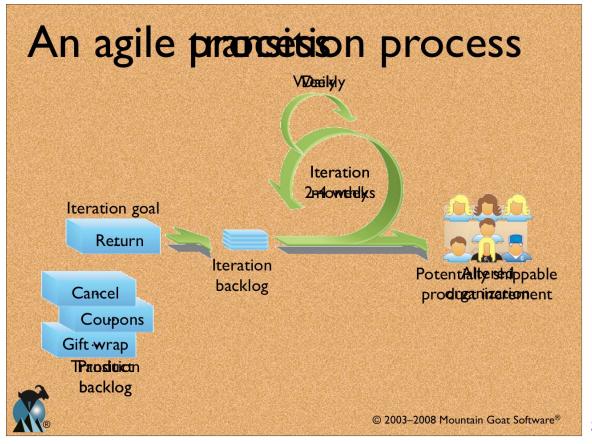
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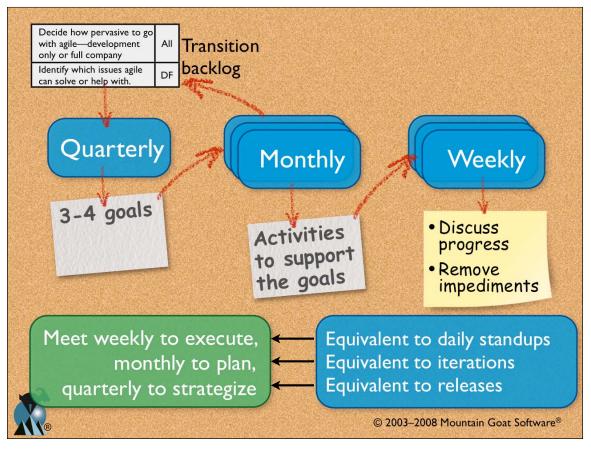
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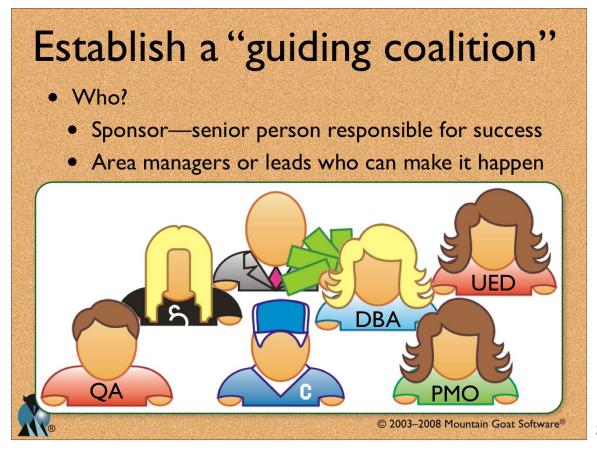






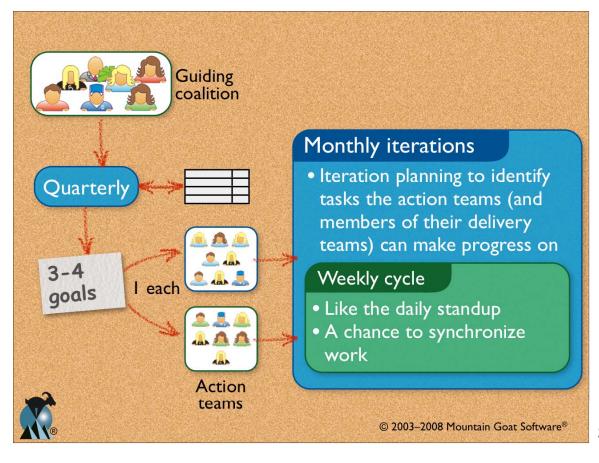






<section-header> Action teams 9. Usually more than one at any time 6. ach focused on a different goal 9. Organized around achieving specific organizational goals 6. e.g., test automation or user experience design 9. Some teams in an organization will be organic 6. Individuals notice something needs to be achieved 9. Others will be formally-sponsored 9. Guiding coalition puts someone in charge of achieving a goal that hasn't been picked up 9. Usually best only if an organic team doesn't form





Action team members Action team members Try to form these teams organically Possible with a point person to start the team True product owner for the team is the guiding coalition But this starting person acts as a combination day-to-day product owner and ScrumMaster Initial membership Start with 1-3 members who "get it" Ask each of those members to pick 1-2 more

Action team member considerations

- Think about
 - Who has the power to make or break the transition to agile?
 - Who controls critical resources or expertise?
 - How will each be affected?
 - How will each react?

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Additional considerations

- Who will gain or lose something by the transition to agile?
- Are there blocs likely to mobilize against or in support of the transition?
- Do team members have sufficient credibility that the teams' opinions and results are taken seriously?
- Can team members put their personal interests aside in favor of the organizational goal?



Leading an agile transition

- Action team and other formal leaders must lead the transition
 - but cannot do so in the usual ways
- Self-organizing groups still require leadership
- Lead through example, questions, and focus
 - "Nudge" the organization; Poke and prod;
 - See how the organization responds

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Pre-requisites of self-organization

Container

- A boundary within which self-organization occurs
 - Company, project, team, city, role, nationality

Differences

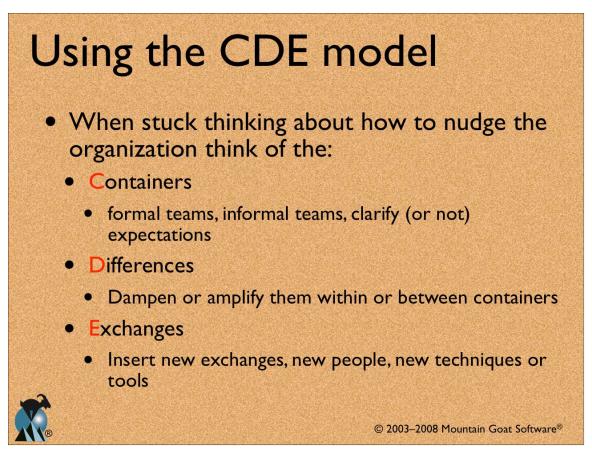
- There must be differences among the agents acting in our system
 - Technical knowledge, domain knowledge, education, experience, power, gender

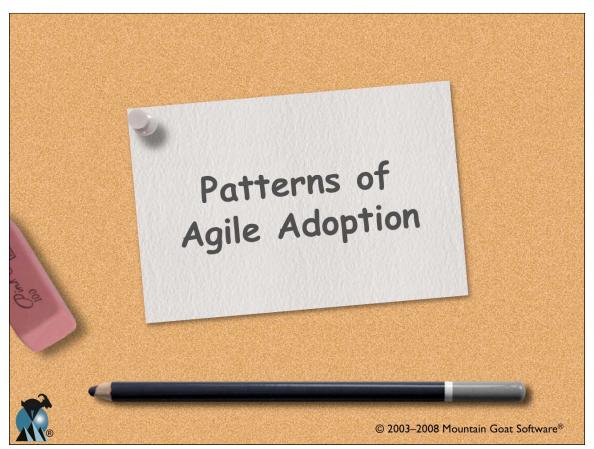
Transforming Exchanges

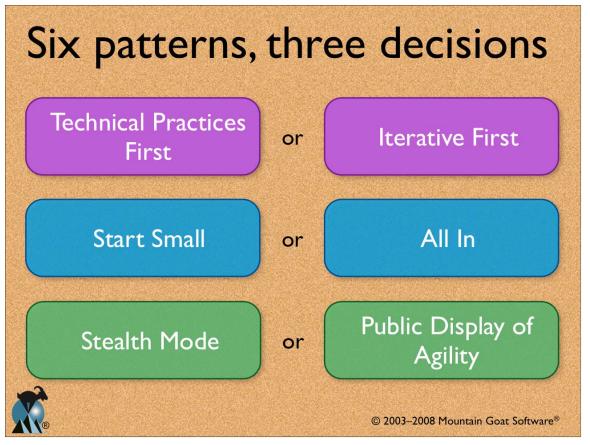
- Agents in the system interact and exchange resources
 - Information, money, energy (vision)

Glenda Eoyang: Conditions for Self-Organizing in Human Systems

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Technical Practices First

Advantages

- Very rapid improvements are possible
- The transition can be quick

Disadvantages

- Technical practices support each other in subtle ways
- There is likely to be strong resistance to some practices
- Outside coaching will likely be needed

Useful when

- The most pressing issues facing the project are ones that can be solved with technical practices.
- You aren't starting a huge number of teams at once
- Team members have solid technical backgrounds
- There is a desperate need to improve



- You want to transition more than a handful of teams
- You are starting with a stalled
- Lots of different technologies are in use by various teams

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Start Small

Advantages

- Cost of mistakes is minimized
- You can almost guarantee success

Disadvantages

- Conclusions may not be compelling
- It takes a lot of time
- Agile teams will need to work with non-agile teams

Useful when

- There is reluctance to commit fully to agile
- The risks of failing an all-atonce transition outweigh the advantages
- You can afford the time it takes

All In

Advantages

- It's over quickly
- There's no organizational dissonance from using two processes at once
- It can reduce some resistance

Disadvantages

- It's risky
- It's costly
- It will likely require a reorganization

Useful when

- You want to send a clear message
- Time is critical
- Your team isn't too small or too big

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Stealth Mode

Advantages

- There's no additional pressure
- No one knows about it until you tell them
- No one can tell you not to do it

Disadvantages

- You won't have any organizational support
- Skeptics will only hear about success, they won't witness it

Useful when

- You want to experiment
- You don't have any
 - organizational support
- You expect strong resistance

Public Display of Agility (PDA)

Advantages

- Everyone knows you're doing it so you're more likely to stick with it
- It establishes a vision to work toward
- Makes a firm statement that you are committed to transitioning

Disadvantages

- Announcing something before you do it can make you look foolish
- Resistors will come out of the woodwork

Useful when

- You are confident in the approach and committed to achieving it
- You are likely to face stiff resistance and want to face it all at once

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