



Outline

- Mhat Contributes to a Team's Success?
- n Team Models
- Motivation Factors and Killers
- n The Roles in Your Team

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Resources

Lectures from winter 2005 (Doug Johnson) and spring 2005 (Richard Anderson)

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- Guest lecture (summer 2003), David Schmaltz& Amy Schwab
- Agile Software Development, Alistair Cockburn, ch 1
- n Rapid Development, Steve McConnell, ch.12-13

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Why Teams?

- Having more people has benefits (that can be exploited)
 - n Attack bigger problems in a short period of time
 - n Utilize the collective experience of everyone
- n Having more people has risks too
 - Miscommunication of expectations
 - Flowing by inertia; not planning ahead
 - "Fluid" (or lack of) responsibility for tasks
 - $_{\scriptscriptstyle \rm I\! I\! I}$ Conflict/mistrust between team members

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Managing Risks in a Team Setting

- n Risks need to be actively managed
 - by clearly defining the product and its scope
 - » by careful planning and organization
 - $_{\mathtt{n}}$ by continuously monitoring the progress and direction
 - ... and adjusting when necessary
 - n by maintaining an open atmosphere

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Issues Affecting Team Success

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Issues Affecting Team Success

- Presence of a shared mission and goals
 - _n Motivation and commitment of team members
 - Experience level
 - ... and presence of experienced members
 - n Team size
 - ... and the need for bounded yet sufficient communication
 - _n Team organization
 - ... and results-driven structure
 - n Reward structure within the team
 - incentives, enjoyment, empowerment (ownership, autonomy)

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Models of Team Organization

- Who makes the important product-wide decisions in your team?
 - ⁿ One person? All by unanimous consent? All by using the Roman Rule? Other options?...
- Is this an unspoken or an explicit agreement among team members?

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Managerial Structures

- Dominion model
 - ⁿ Pros: clear chain of responsibility; people are used to it
 - Cons: single point of failure at the commander; less or no sense of ownership by everyone
- n Communion model
 - Pros: a community of leaders, each in his/her own domain; inherent sense of ownership
 - Cons: people aren't used to it (and this scares them)

<u>Note</u>: Both models allow for having a point-ofcontact person, responsible for completing a particular task.

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Motivation

- "Motivation is undoubtedly the single greatest influence on how well people perform. Most productivity studies have found that motivation has a stronger influence on productivity than any other factor."
 - -- Boehm (1981)

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Motivation Factors

Think of up to 3 factors that most often affect your motivation

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Motivation Factors for You?

- Achievement
- n Recognition
- n Advancement
- n Salary
- Possibility for growth
- Interpersonal relationships
 - Subordinate
 - SuperiorPeer
- PeerStatus
- 06.1.1.2005

- Technical supervision opportunities
- Company policies
- n Work itself
- Work conditions
- n Personal life
- _n Job security
- n Responsibility
- n Other?
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Motivation Killers (and there are more)



- n Micro-management or no management
- n Lack of ownership
- n Lack of effective reward structure
- n including simple appreciation for completed tasks
- Excessive pressure and resulting "burnout"
- a Allowing "broken windows" to persist
- _n Lack of focus in the overall direction
- Productivity barriers
 - Asking too much; not allowing sufficient learning time; using the wrong tools
- n Too little challenge
- ⁿ Work not in line with personal interests and goals
- $_{\scriptscriptstyle \rm I\! I\! I}$ Poor communication inside the team
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Specifically for Your Team...

- n Who will do the scheduling/planning?
- n Who will do the development?
- n Who will do the testing?
- _n Who will do the documentation?
 - n Includes spec, design, write-ups, presentations, ...
- Mho will do the build/release preparation?
- n Who will take care of inter-team communication?
- Who will do the customer communication?
- Mho will do ...?
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