

# Core Principles

## Software Project Management

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T++ Technical Skills Training Program

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# Three P's

- Process
- Project
- People

# What is Process?

- Method/Methodology
- A systematic procedure for creating a product
- A project succeeds if it creates a working product that meets customer needs
- A useful process leads to successful projects

# Process Scales

- Formal vs. Informal
- Explicit vs Implicit
- Autocratic vs Anarchic

## Pithy Sayings about Methods

- 'An ecosystem that ships software' - Alistair Cockburn (Complex)
- 'A social construction' - Ralph Hodgson (Human Centric)
- 'Theory building' - Peter Naur (Creative)

## Project Constraints/Limits

- Match Product Expectations - Scope Constraint
- Allocate Finances - Budget Constraint
- Keep to Schedule - Time Constraint
- Keep People Productive - People Constraint
- Allocate Resources - Resource Constraint
- Risk

# Project Activities

- Planning - Create Estimates
- Tracking - Estimate vs. Actual
- Communications
- Quality Control

# People Factors Dominate Software Development

- Problem Complexity
- Social Interactions
- Creative Work

# People Constraints

- Leadership
- Motivation
- Interaction
- Ability
- Training

# People Activities

- Communications
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