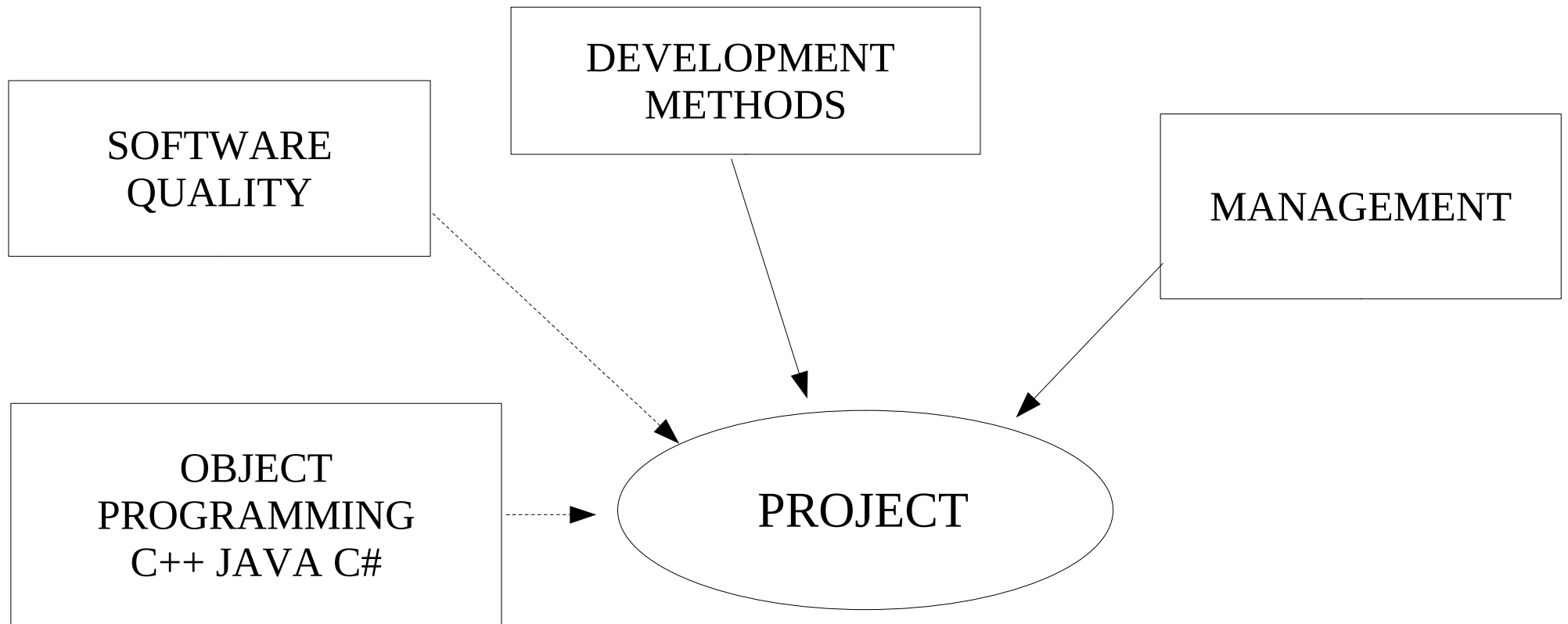


DEVELOPMENT METHODS COURSE ENVIRONMENT



DEVELOPMENT METHODS COURSES

- COURSES (2 h)
 - PRESENTATION – METHODS
 - PRODUCT DEFINITION
 - AGILE METHODS (1)
 - AGILE METHODS (2)
- TP (4 h)
 - RELEASE BACKLOG (1)
 - RELEASE BACKLOG (2)
 - SPRINT BACKLOG

DEVELOPMENT METHODS

COURSE SUPPORT - COURSES

Introduction

Software development method

Software project preparation

Iterative development

Agile methods

Requirements analysis

Architectural design

Software realization and support

Configuration management

Documentation management

DEVELOPMENT METHODS

COURSE SUPPORT -DRAFTING GUIDES

- Introduction to drafting guides
- Product Definition Document (PDD) drafting guide
- Software Development Plan (SDP) drafting guide*
- General Requirements Specification (GRS)drafting guide
- Software Requirements Specification (SRS) drafting guide*
- Release Definition Document (RDD) drafting guide
- Software Architecture Document (SAD) drafting guide*
- Acceptance Procedure (AP) drafting guide

DEVELOPMENT METHODS

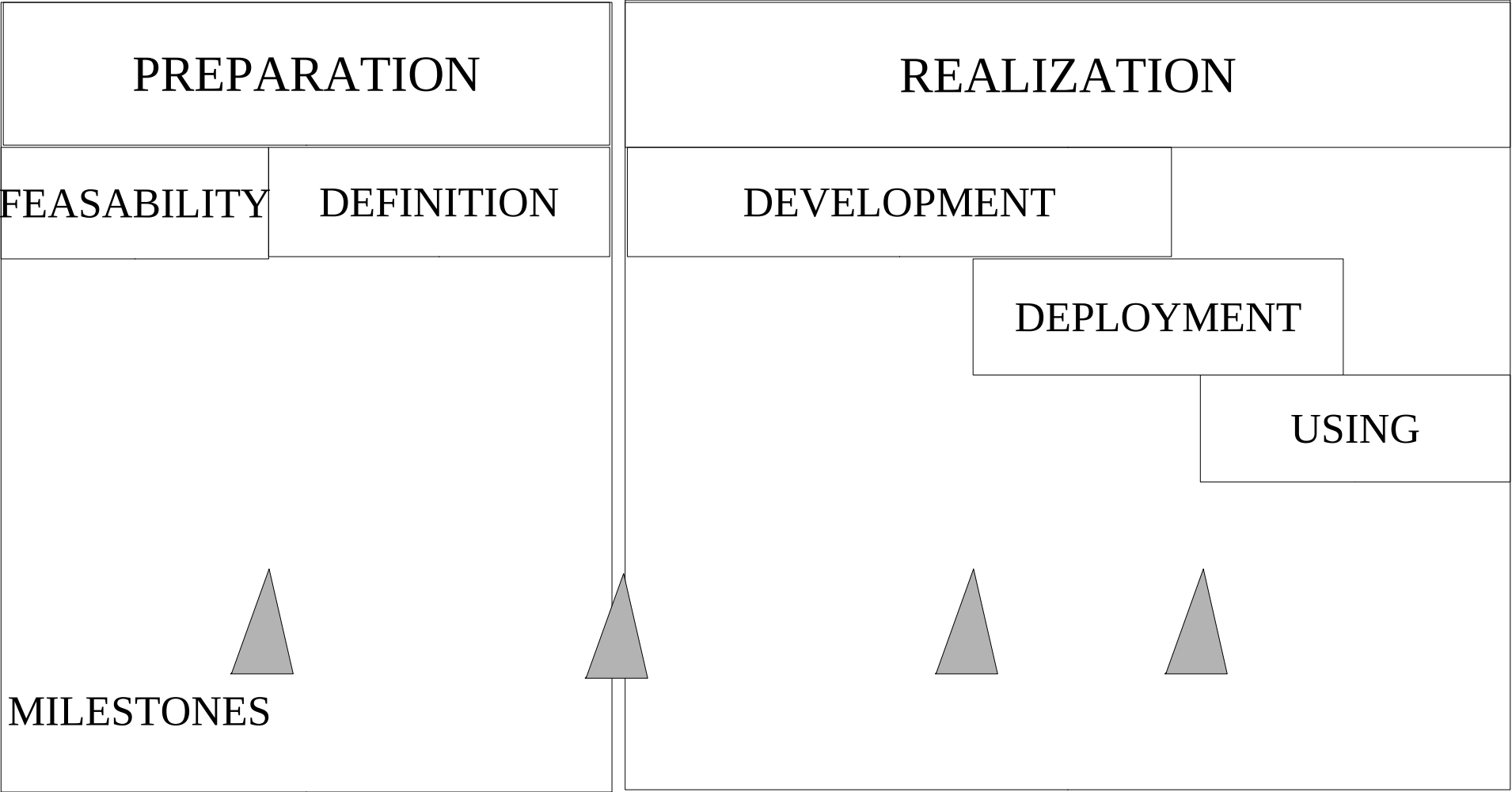
BASE TECHNIQUES

- PROJECT PREPARATION
- PROJECT PLANNING
- PROJECT ORGANIZATION
- ITERATIVE AND AGILE DEVELOPMENT
- REQUIREMENTS ANALYSIS
- DESIGN
- SOFTWARE REALIZATION
- CONFIGURATION MANAGEMENT
- QUALITY ASSURANCE
- DOCUMENTATION
- SUPPORT PREPARATION

DEVELOPMENT METHODS RISKS AND PROBLEMS

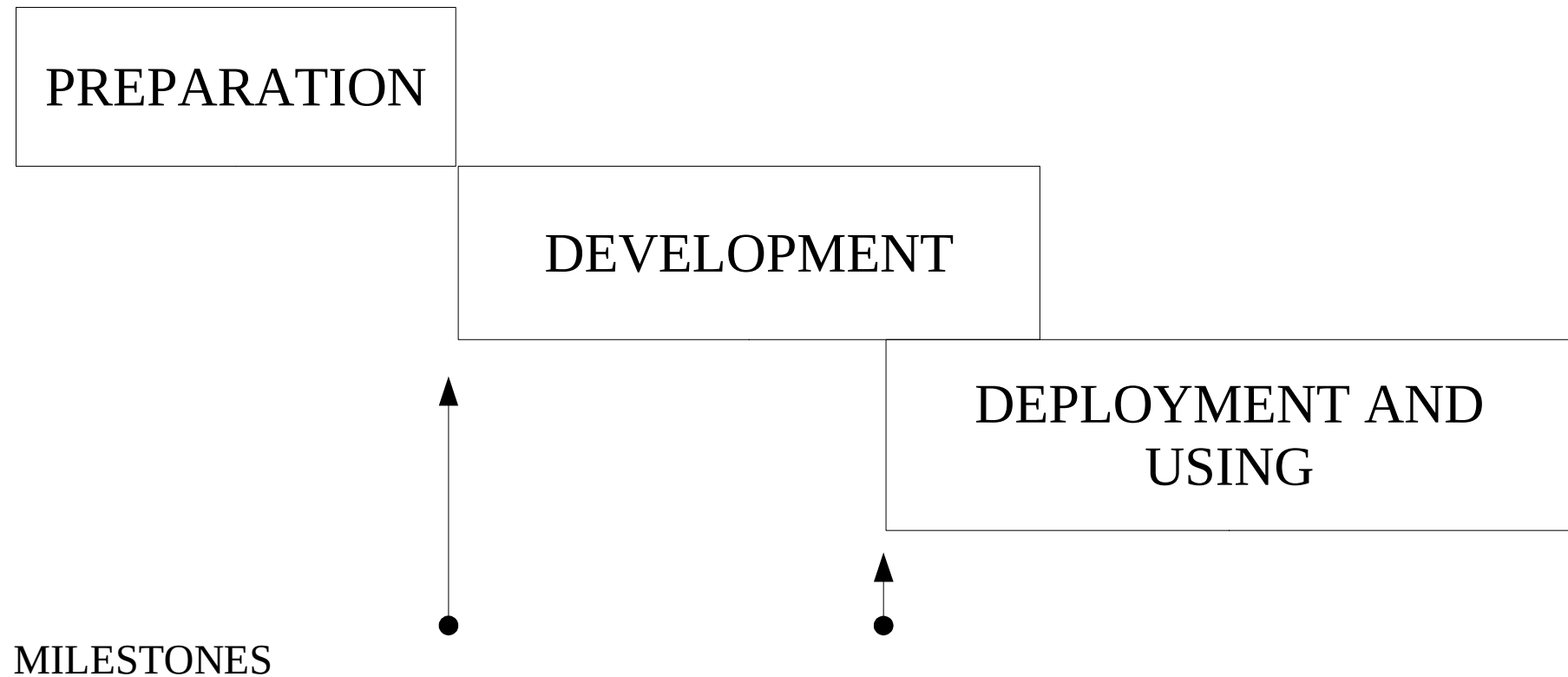
- PROJECT RISKS
 - EXCEEDING DELAYS
 - INCREASING COSTS
 - MALAJUSTED TO CUSTOMER'S NEEDS
 - GREAT NUMBER OF REMAINING ERRORS
- SOFTWARE SPECIFIC PROBLEMS
 - IMMATERIAL,
 - VERY COMPLEX PRODUCT
 - IT ALWAYS REMAINS MANY ERRORS
 - VERY EVOLUTIVE

DEVELOPMENT METHODS
PROJECT PHASING

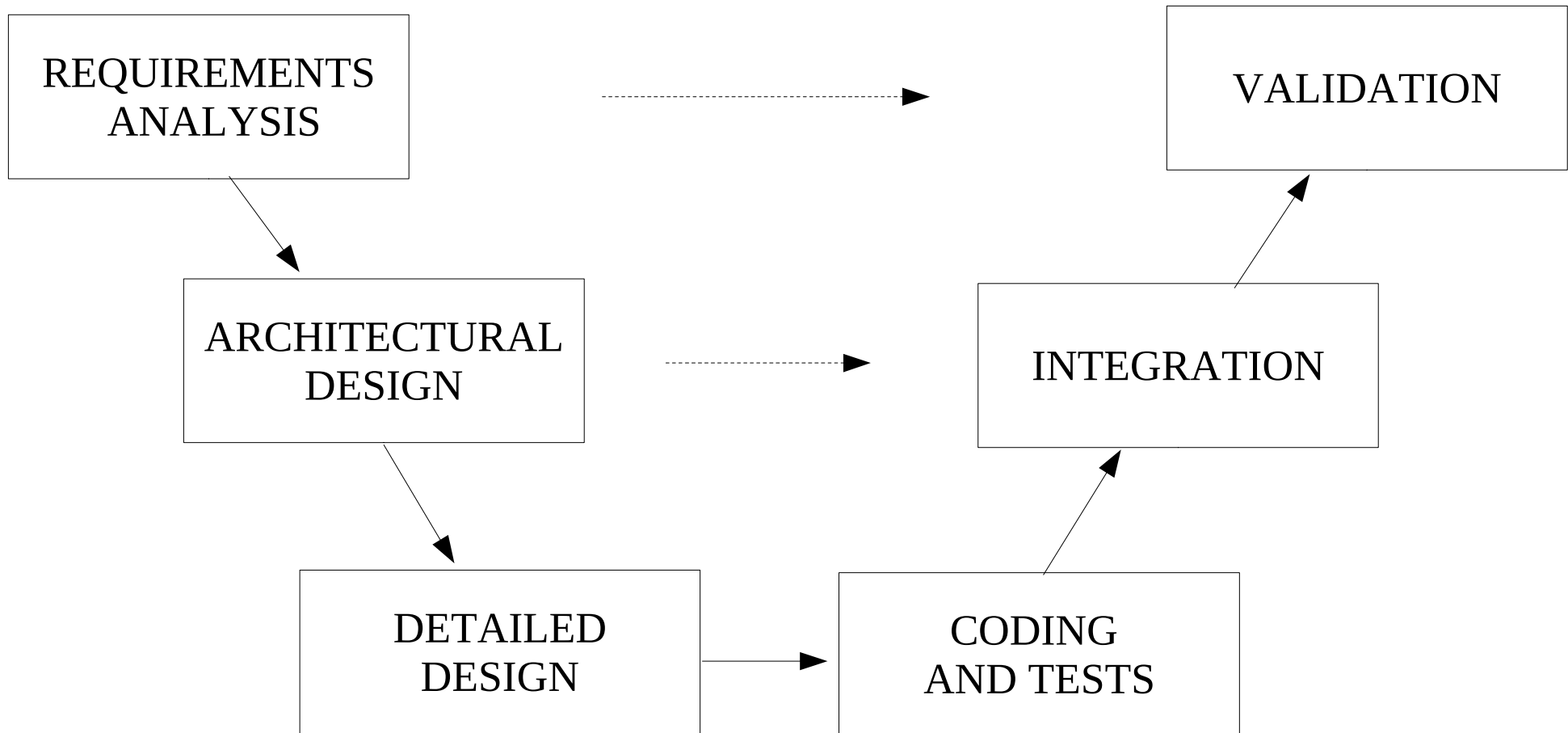


DEVELOPMENT METHODS

SIMPLIFIED PROJECT PHASING



DEVELOPMENT METHODS V CYCLE



DEVELOPMENT METHODS

SEQUENTIAL DEVELOPMENT

REQUIREMENTS
ANALYSIS

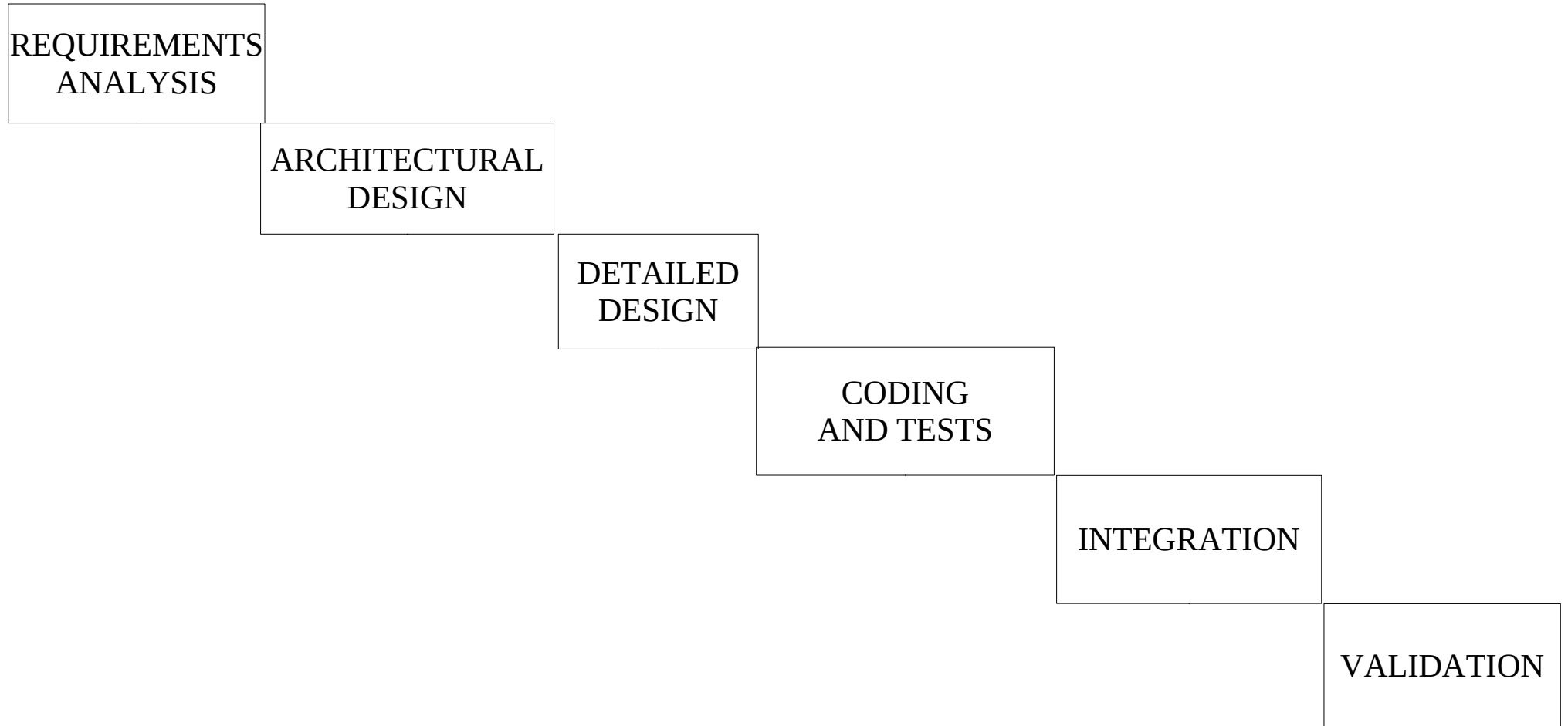
ARCHITECTURAL
DESIGN

DETAILED
DESIGN

CODING
AND TESTS

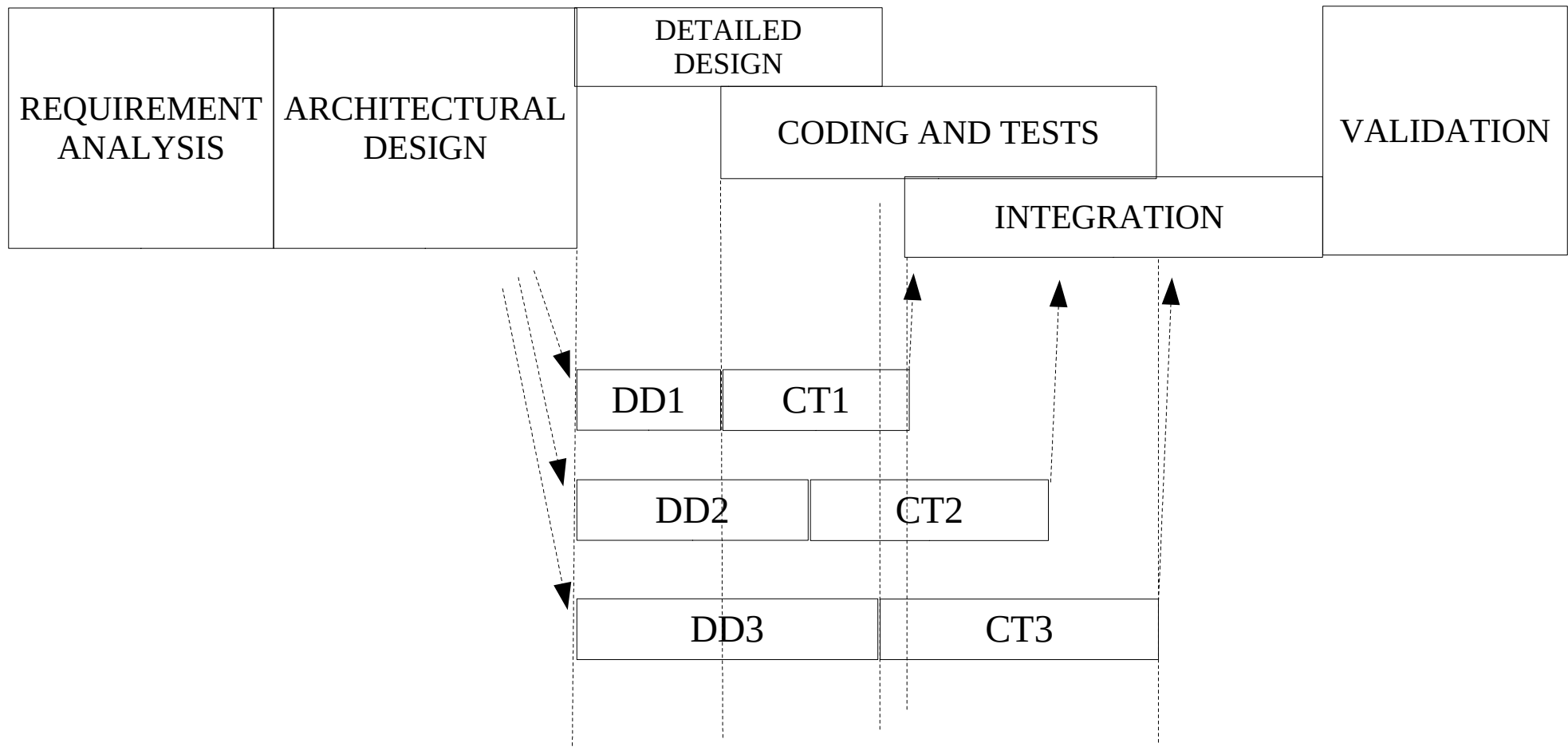
INTEGRATION

VALIDATION



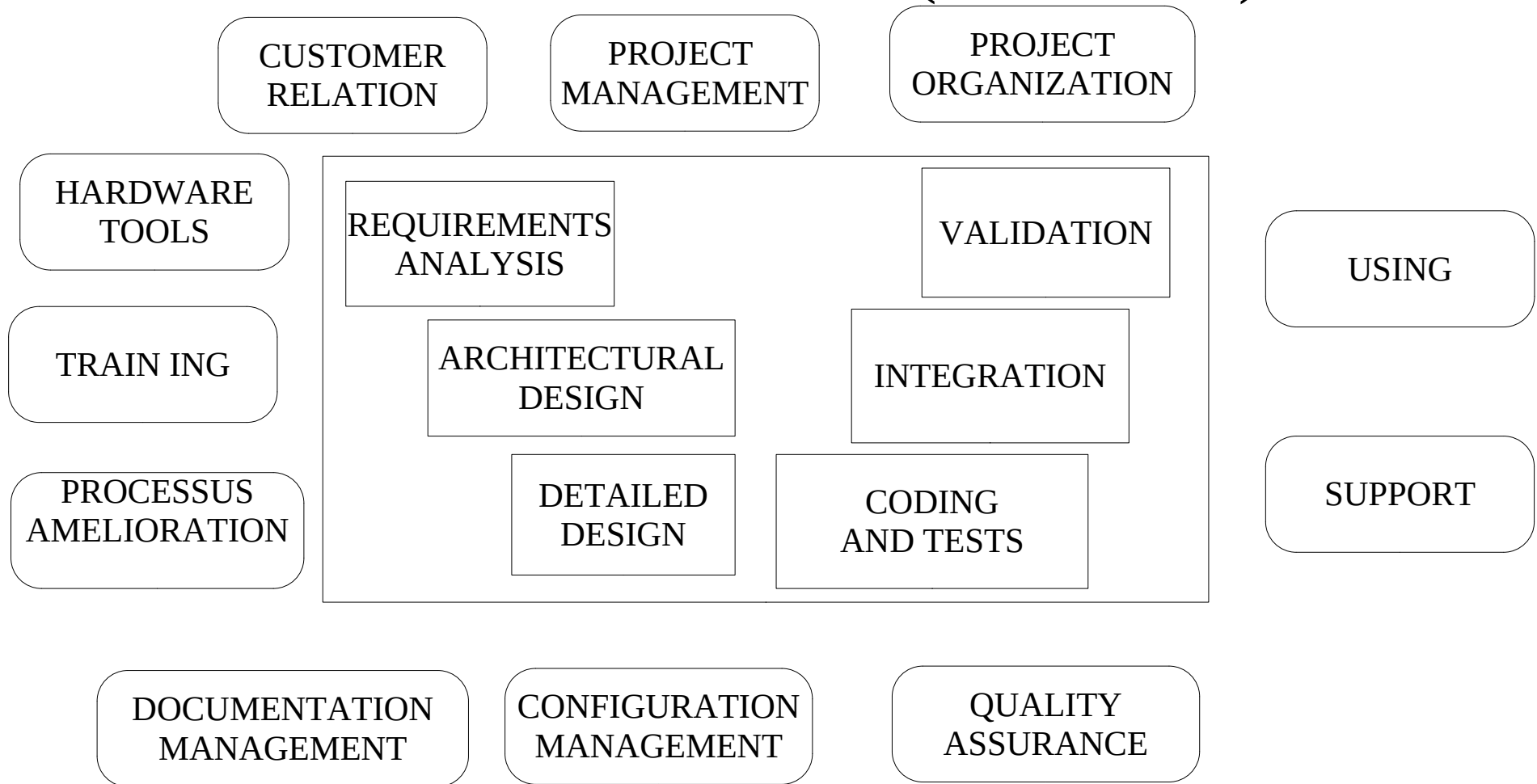
DEVELOPMENT METHODS

TEAM DEVELOPMENT



DEVELOPMENT METHODS

PROJECT ACTIVITIES (ISO 12207)



DEVELOPMENT METHODS

RISKS MANAGEMENT

- RISKS

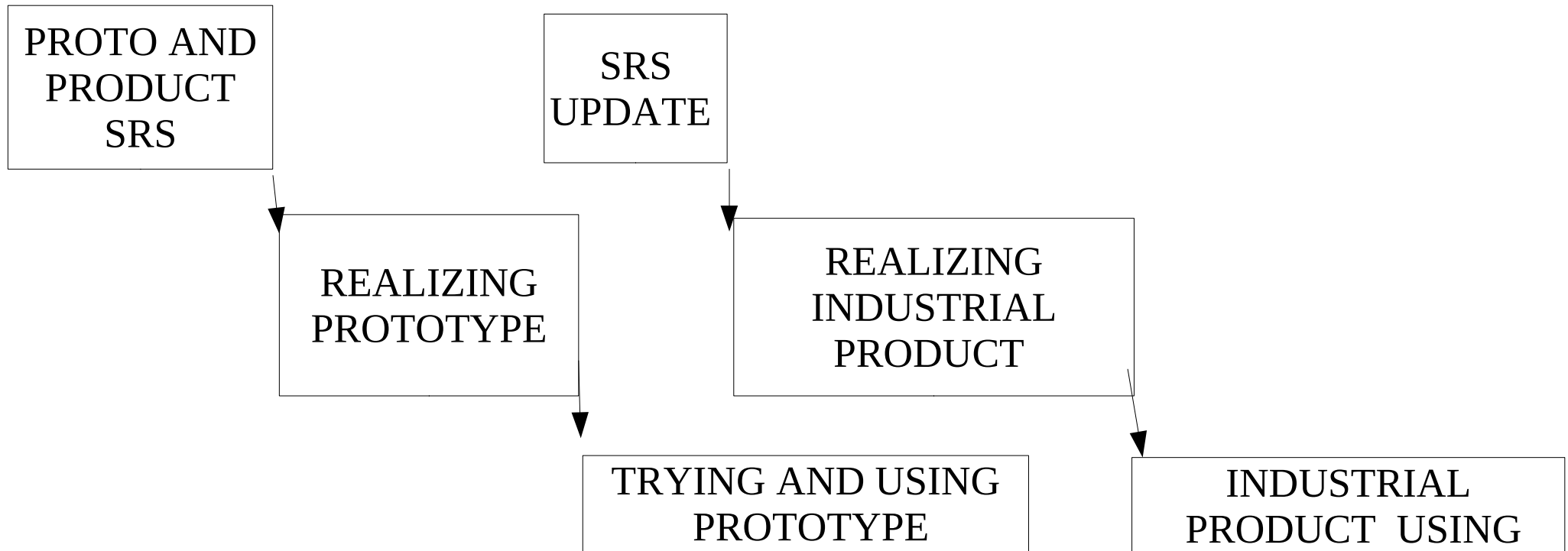
- TOO LONG DELAY
- CUSTOMER UNSATISFIED
- INTEGRATION FAIL

- REPLYS

- DEMONSTRATION MODELS, REVIEWS
- DEVELOPMENT WITH PROTOTYPE
- INCREMENTAL DEVELOPMENT
- ITERATIVE AND AGILE DEVELOPMENTS

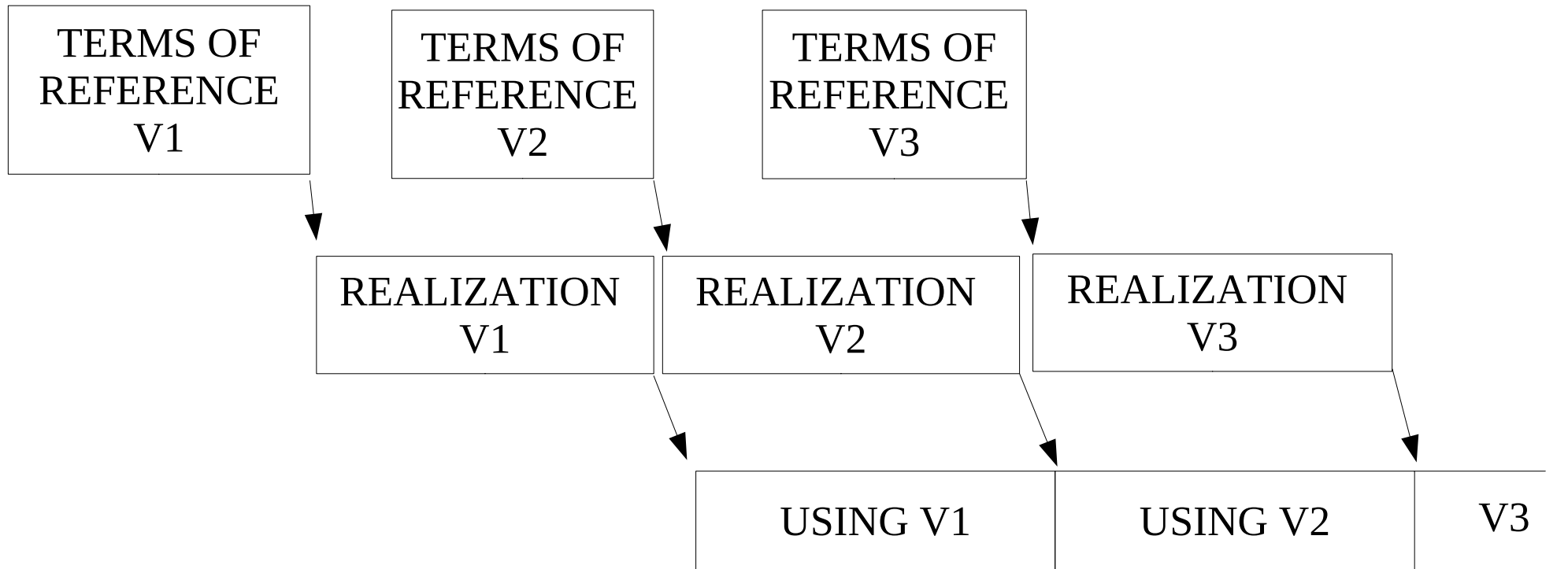
DEVELOPMENT METHODS

DEVELOPMENT WITH PROTOTYPE



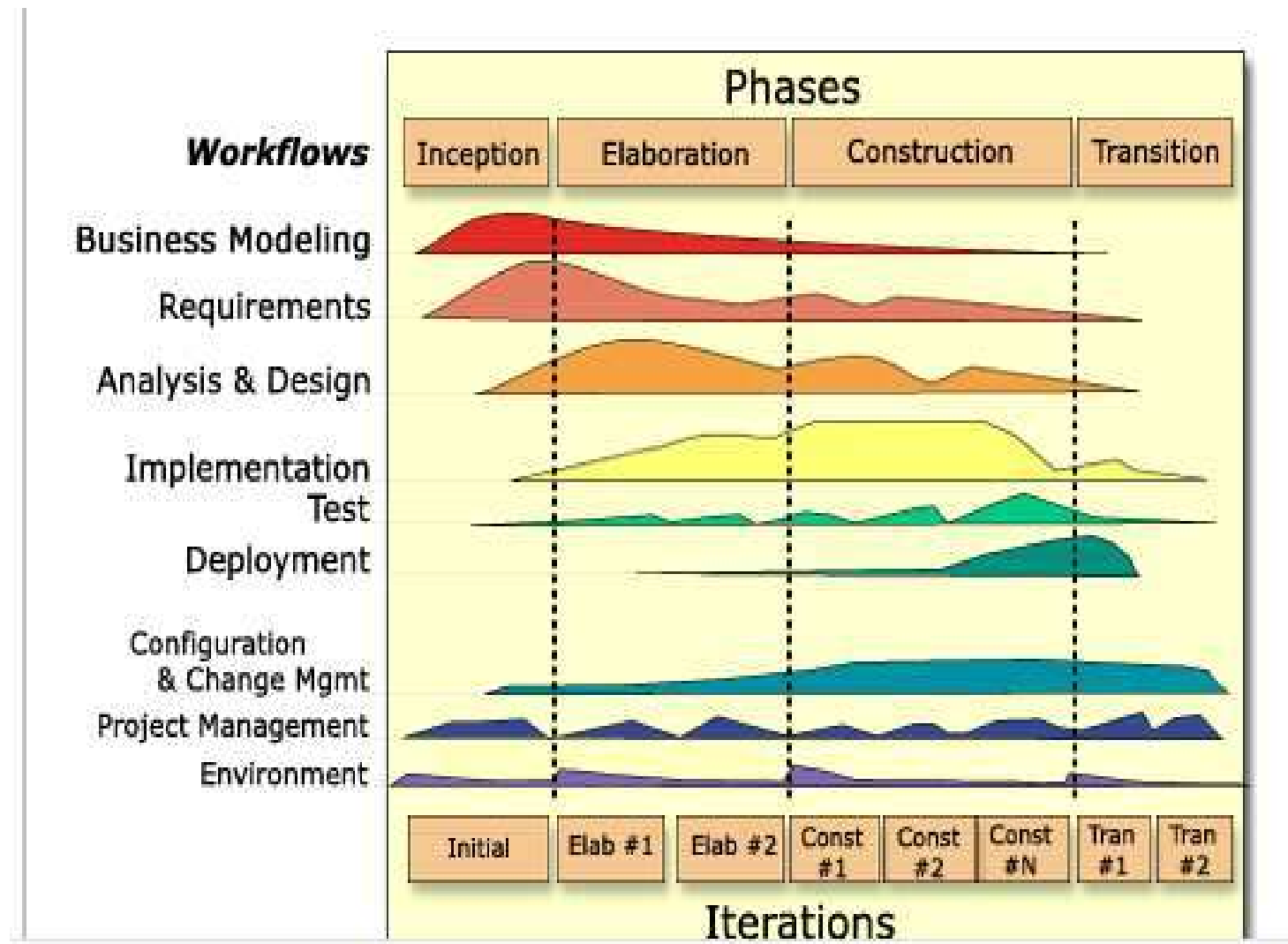
DEVELOPMENT METHODS

INCREMENTAL DEVELOPMENT



DEVELOPMENT METHODS

ITERATIVE DEVELOPMENT (RUP)



DEVELOPMENT METHODS

AGILE MANIFESTO – FUNDAMENTAL VALUES

- **Individuals and interactions** over processes and tools
- **Working software** over comprehensive documentation
- **Customer collaboration** over contract negotiation
- **Responding to change** over following a plan

PROJECT CALENDAR

Step		Date
Product definition	Kick off meetings	week 18 to 23 oct 10
	Concept validation review	week 15 to 20 nov 10
Release Definition	Scoping meeting	week 22 to 27 nov 10
	Project review	week 13 to 18 dec 10
	Business plan meeting	week 3 to 8 jan 11
Sprint 1	Scoping meeting	week 3 to 8 jan 11
	Semester 1 validation review	week 24 to 29 jan 11
Sprint 2	Scoping meeting	week 31 jan to 5 feb 11
	Prototype P2 presentation	week 28 feb to 5 mar 11
	Business Plan meeting	week 28 feb to 5 mar 11
Sprint 3	Scoping meeting	week 7 to 12 mar 11
	Project acceptance and debriefing	week 4 to 9 apr 11