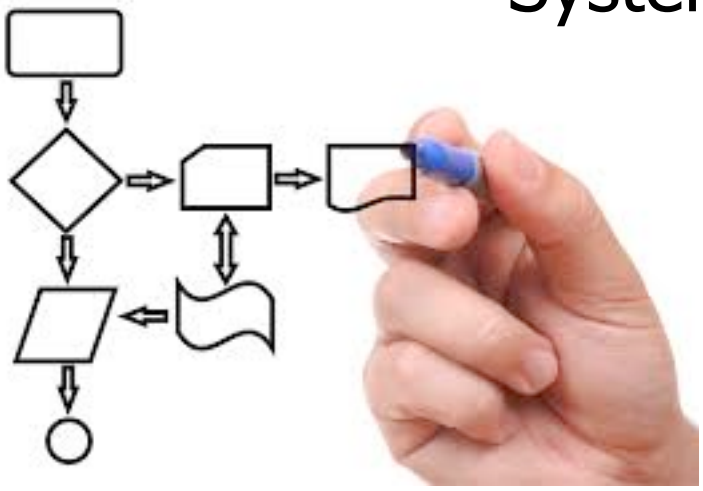
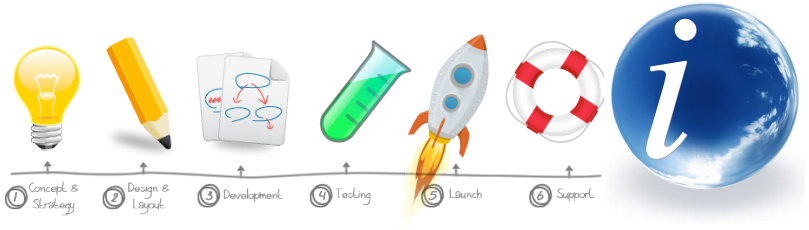
Architecture des Systèmes d'Information

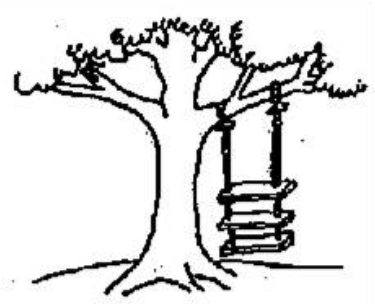
System and Software Process



Traduction en cours

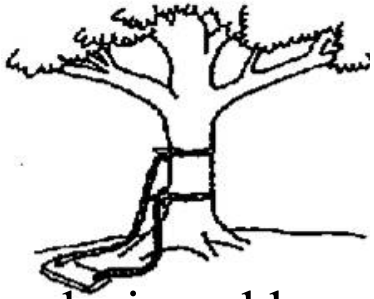
Software specification



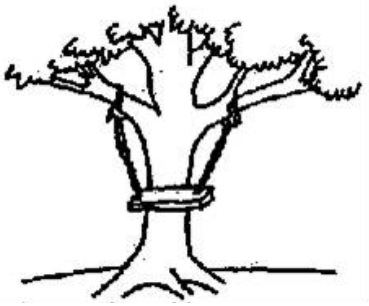


As proposed by
the project sponsor

As specified in the
project request

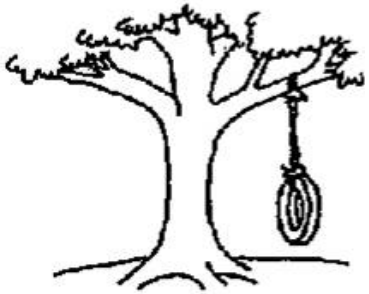


As designed by
the project analyst



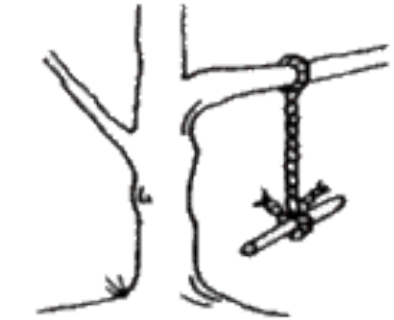
As proposed by
the programmers

As installed at
the users' site

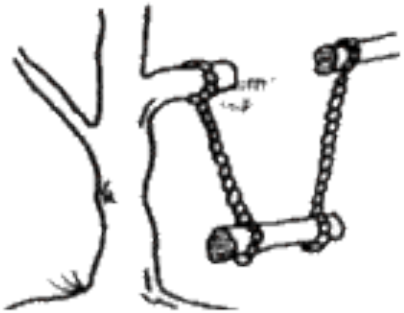


What the customer
really want

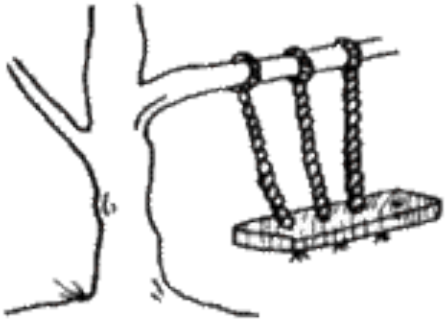
Balançoire



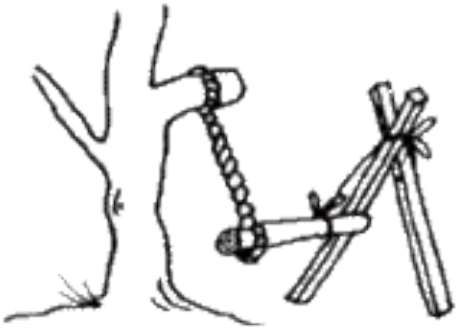
What the user asked for



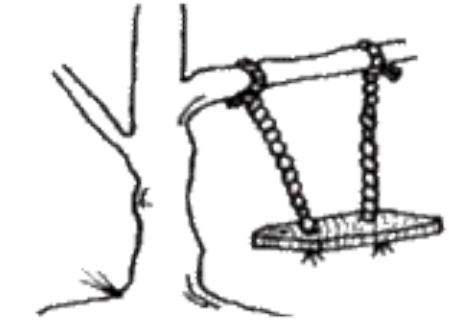
How the analyst saw it



How the system was designed



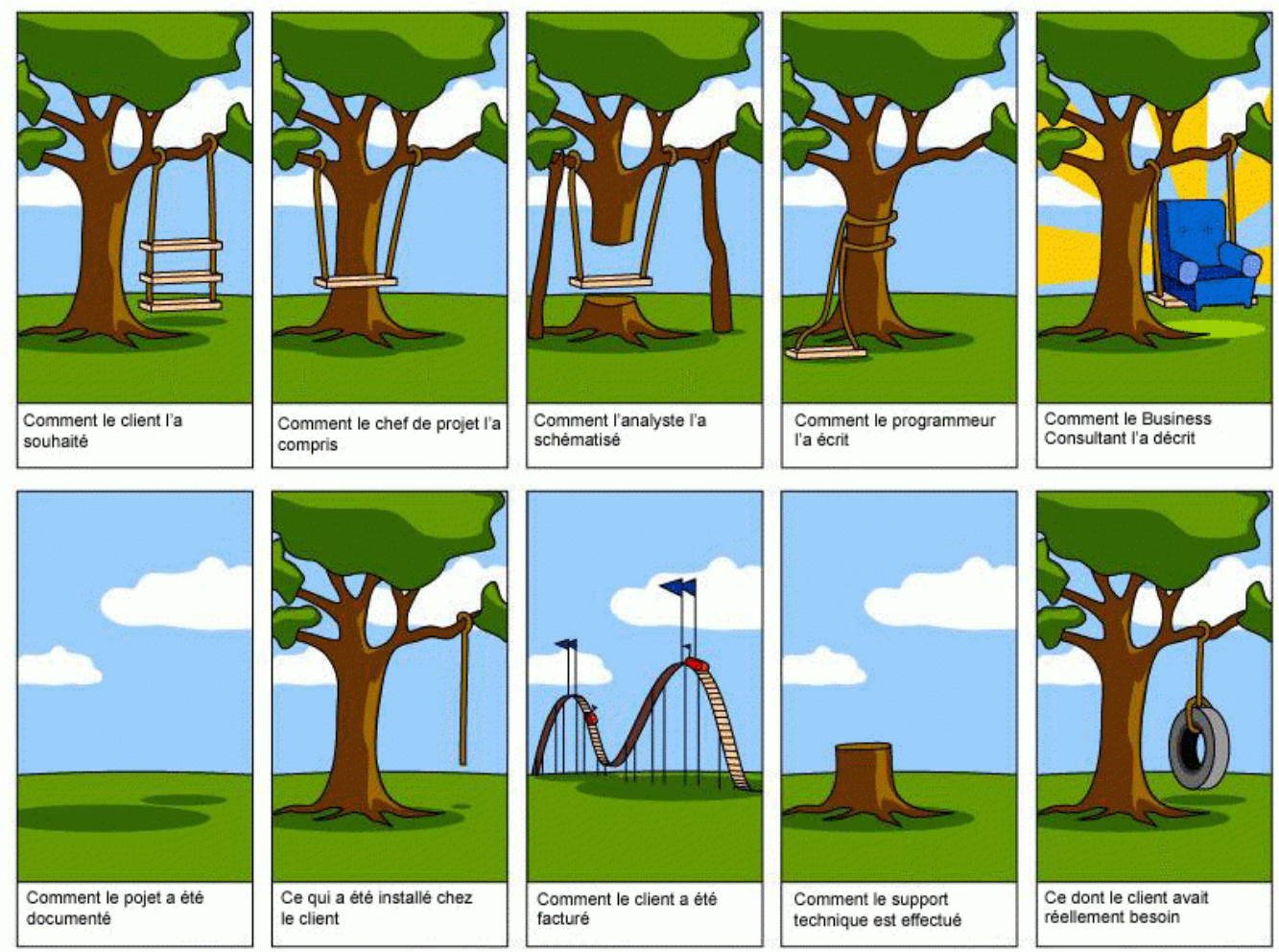
As the programmer wrote it



What the user really wanted

How it actually works

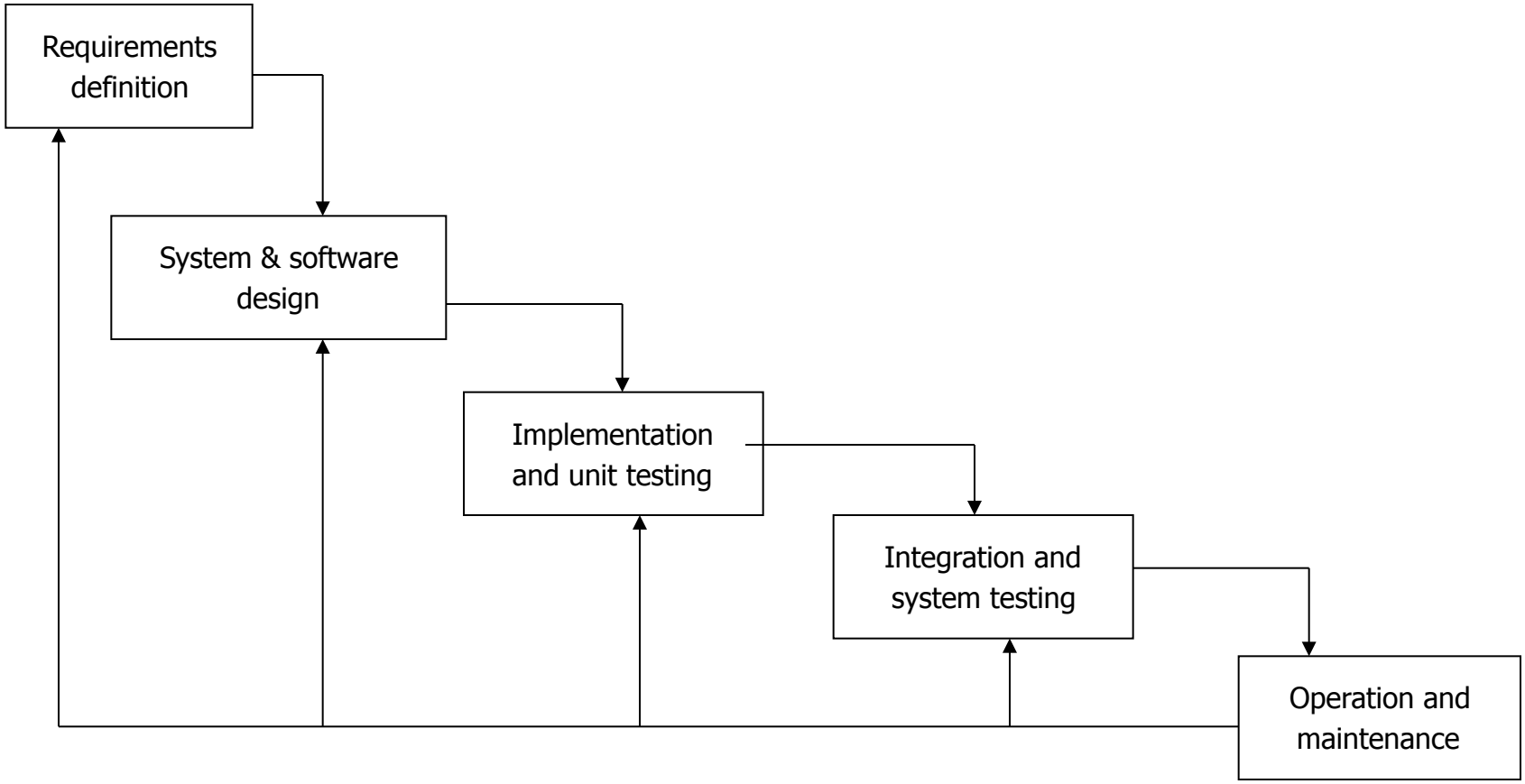
Encore une Balançoire



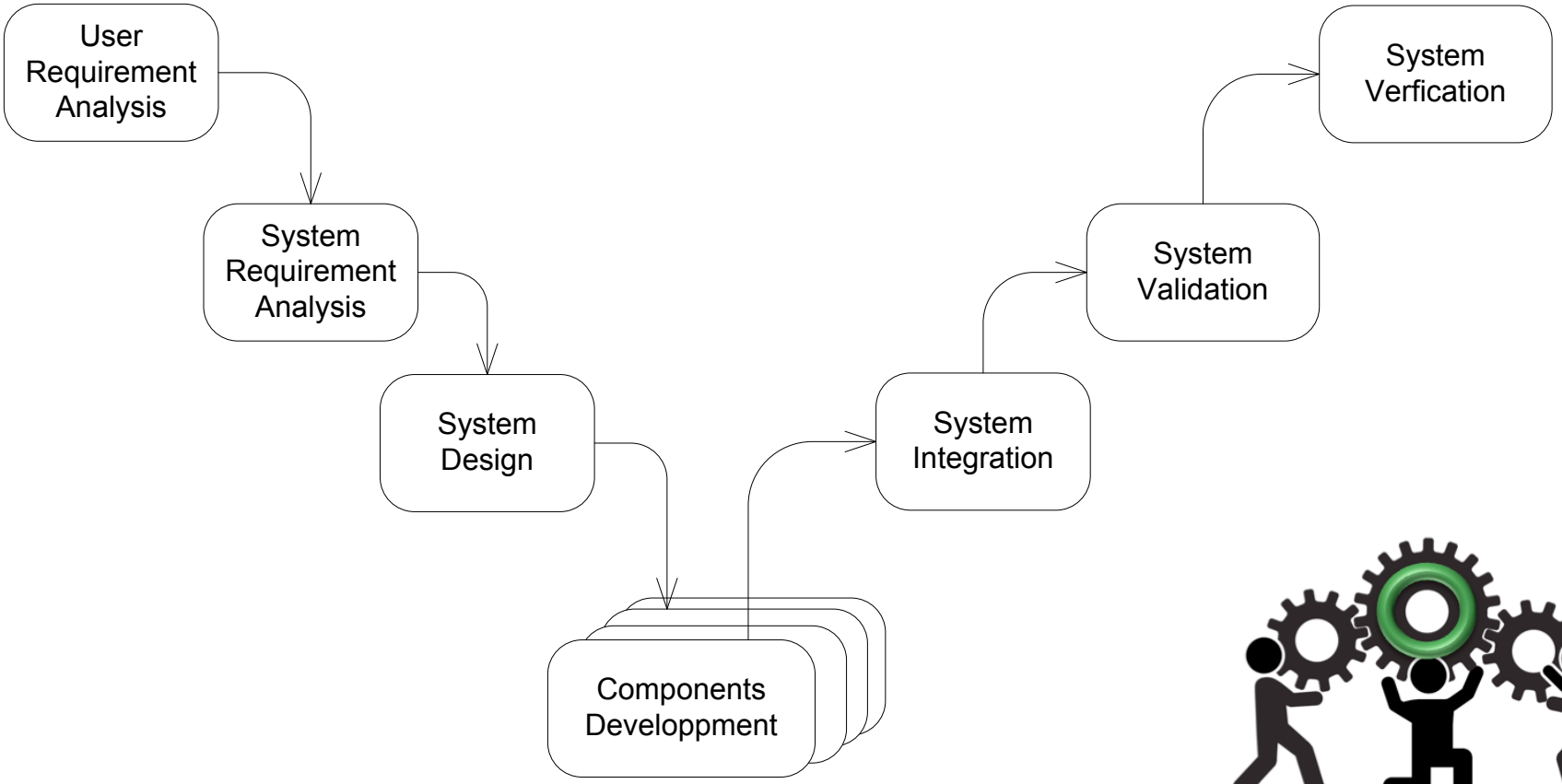
Actors

- Customers
- Interface designer
- Domain (Application) Developers
- Frameworks Developers
- Tool Providers
- Domain Experts
- Business Manager

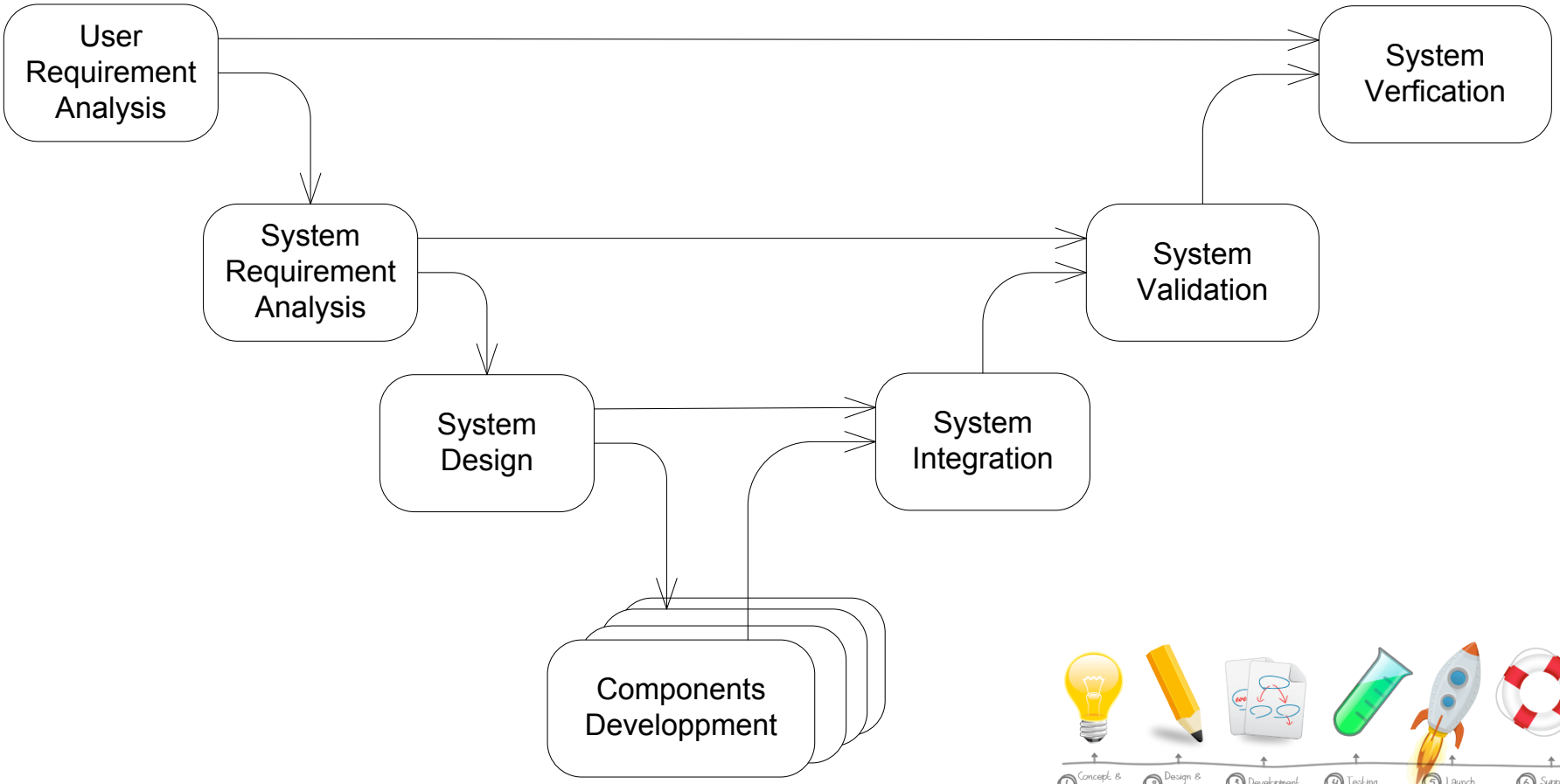
WaterFall Process



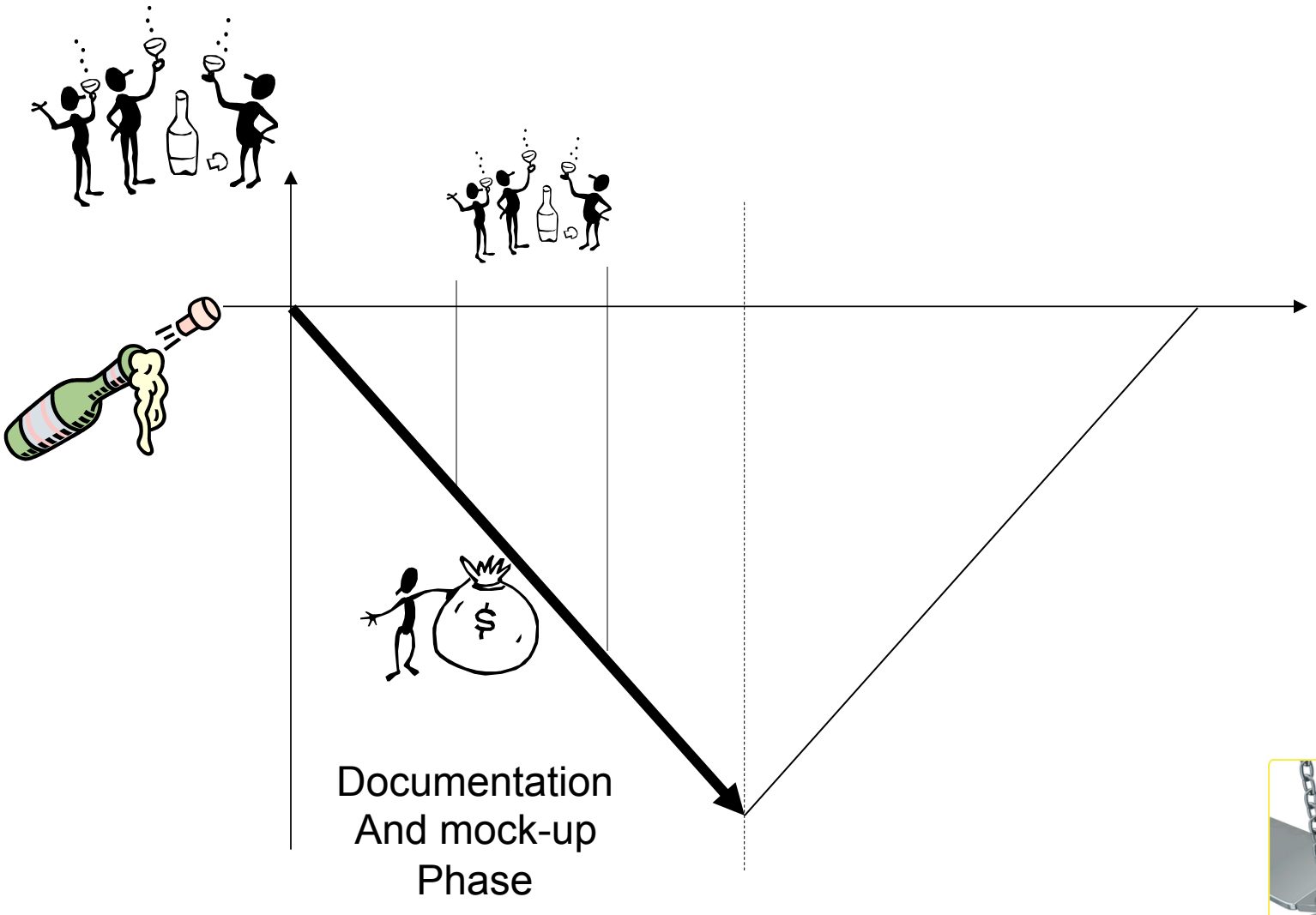
V Process


User Requirement Analysis
System Requirement Analysis
System Design
Components Developpment
System Integration
System Validation
System Verfication

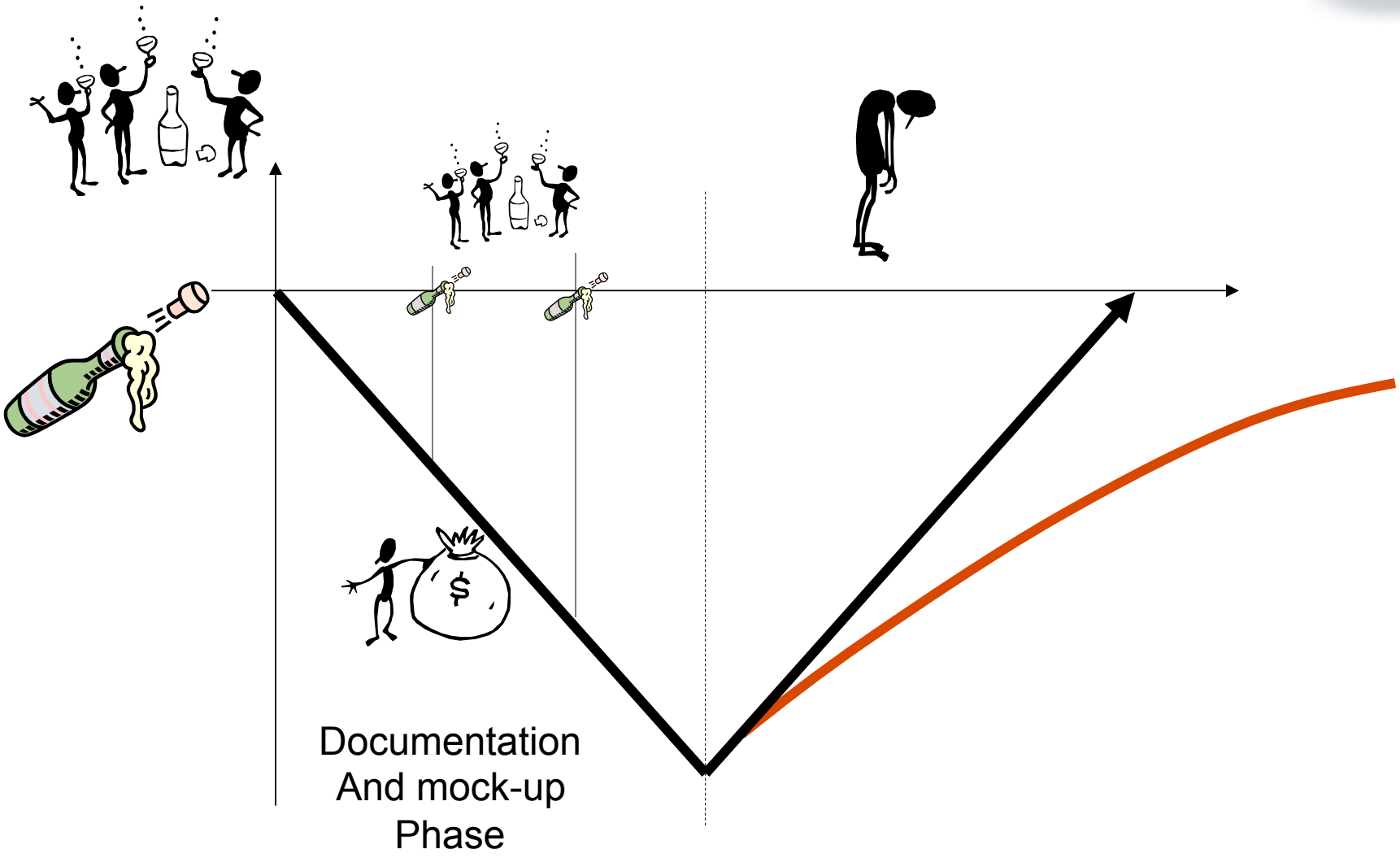
Process: V cycle



Sequential V cycle drawbacks



Sequential V cycle drawbacks



Process: V cycle

=> Abstraction,
Framework, components

User Requirement Analysis

System Requirement Analysis

System Design

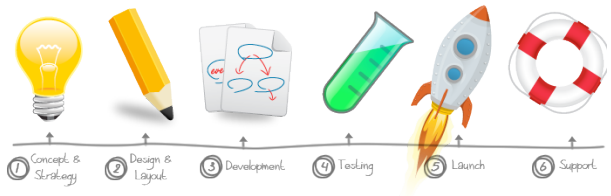
Components Developpment

System Integration

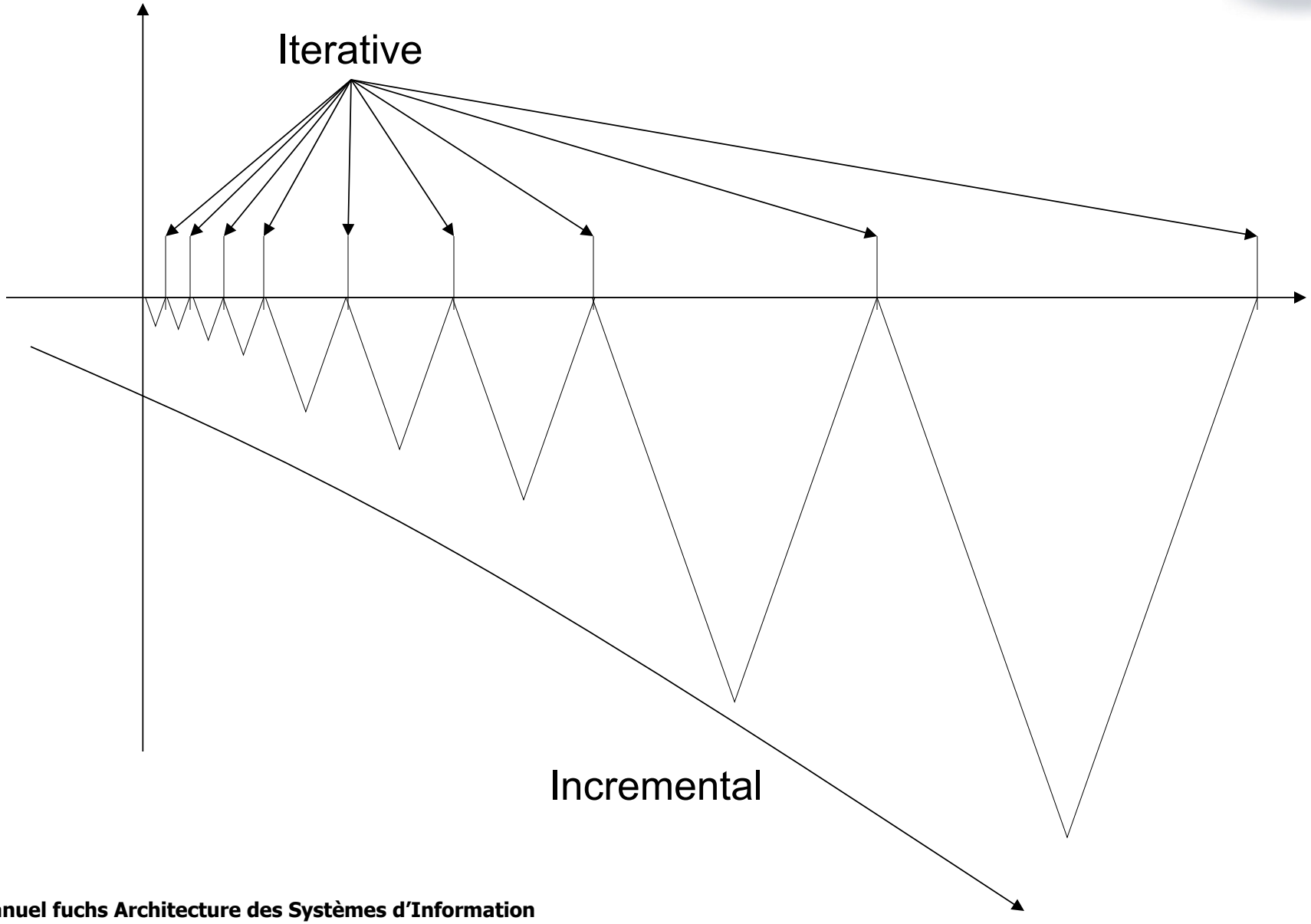
System Validation

System Verfication

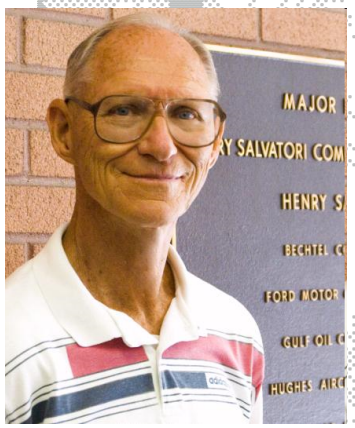
FMK



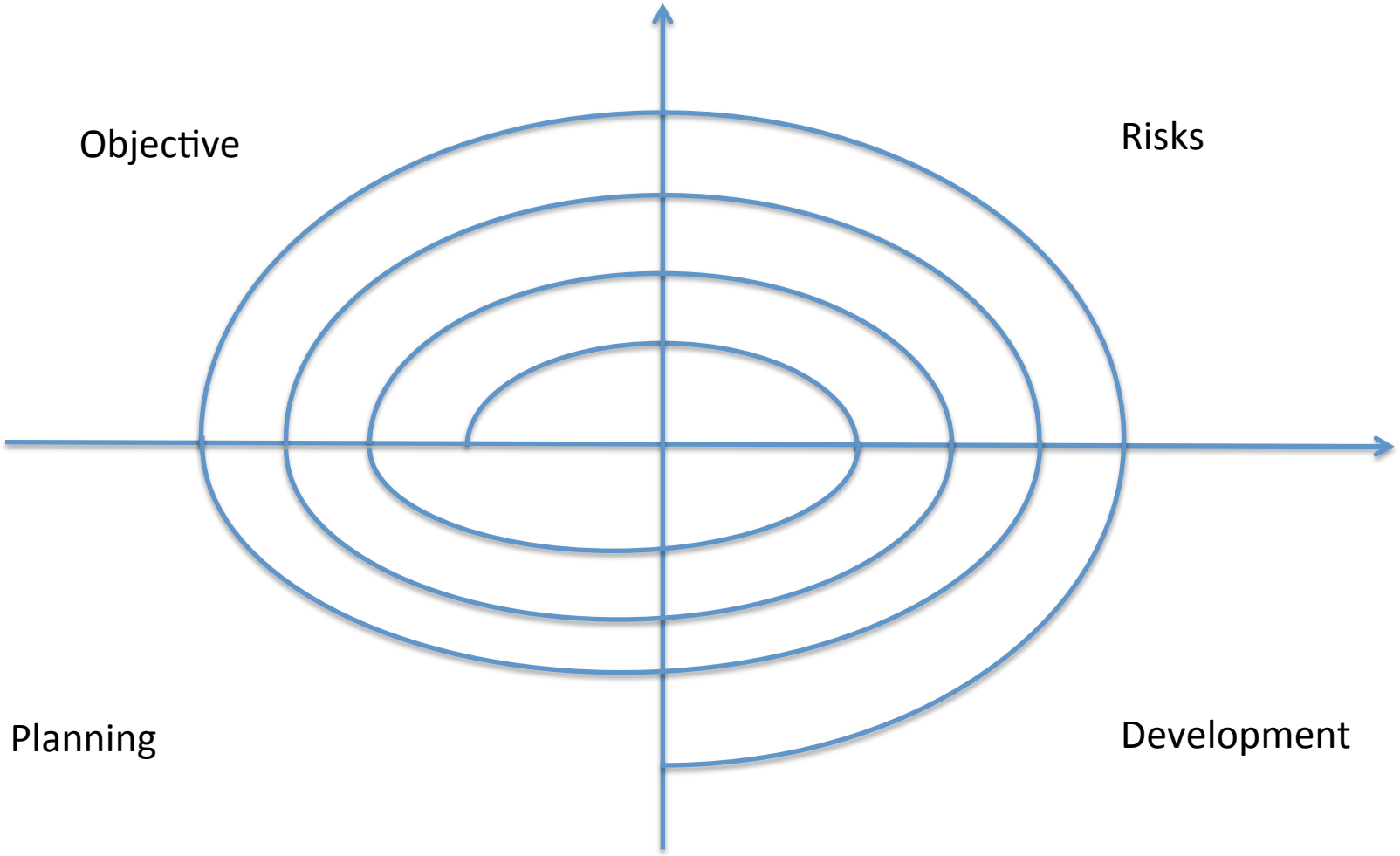
Iterative and Incremental



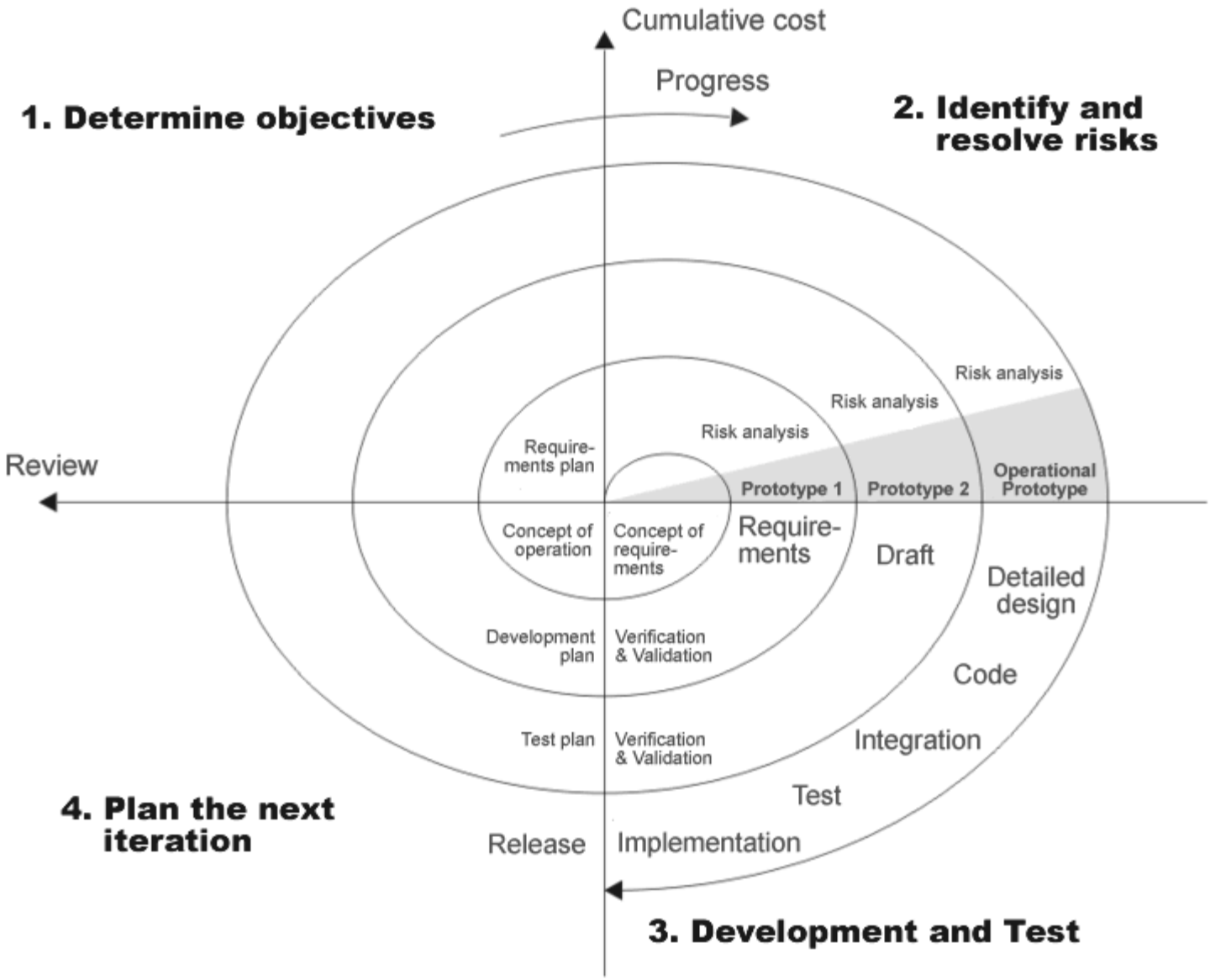
Barry W. Boehm



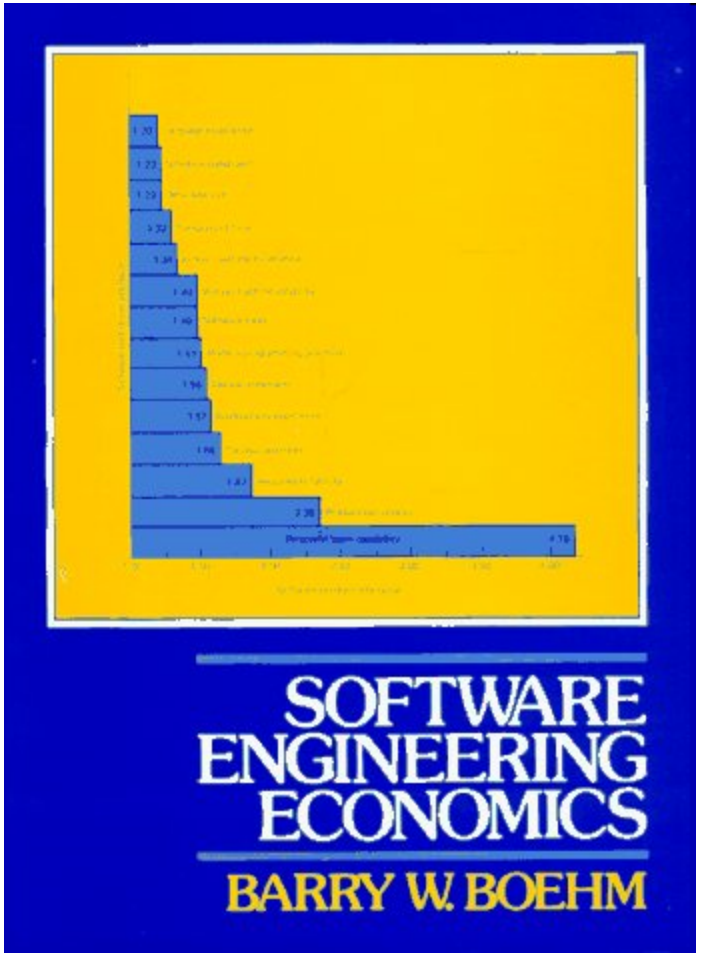
Spiral



Barry W. Boehm Spiral revisited



Barry W. Boehm



While employed by TRW Corp., Boehm wrote *Software Engineering Economics*. Published in 1981, it completely described the Constructive Cost Model (COCOMO) used in software cost and schedule estimation. With his book, this model quickly gained popularity and user's groups emerged throughout the world

Software estimation

- Constructive Cost Model (COCOMO)

Le processus est géré par :

- Un système d'information.
  - Gestion de projet
  - Gestion d'exigences
  - Gestion de configuration
  - …

La gestion de projet

- La gestion de projet est une démarche visant à structurer, assurer et optimiser le bon déroulement d'un projet suffisamment complexe pour devoir :
  - être planifié dans le temps,
  - être budgétisé
  - maîtriser et piloter les risques,
  - atteindre le niveau de qualité souhaité,
  - faire intervenir de nombreuses parties prenantes
  - responsabiliser le chef de projet ou le directeur de projet, mettre en place un comité de pilotage,
  - suivre des enjeux opérationnels et financiers importants,