

Oleh:

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Materi 1

Pengembangan Sistem



Program Studi S1 Informatika

Fakultas Ilmu Komputer UPN "Veteran" Jawa Timur

TA. 2021/2022 Semester Genap



IT/IS menjadi Trend Baru.



Awalnya, para manajer perusahaan ingin memiliki software ... agar dianggap perusahaan yang hebat.



Awalnya, para manajer membutuhkan Programmer untuk membuat software yang dibutuhkan secara cepat



Para manajer mulai berfikir, mengapa banyak proyek gagal (tidak memberikan hasil yang diharapkan).



Para manajer mengevaluasi perusahaannya, mengapa bisnisnya stagnan.

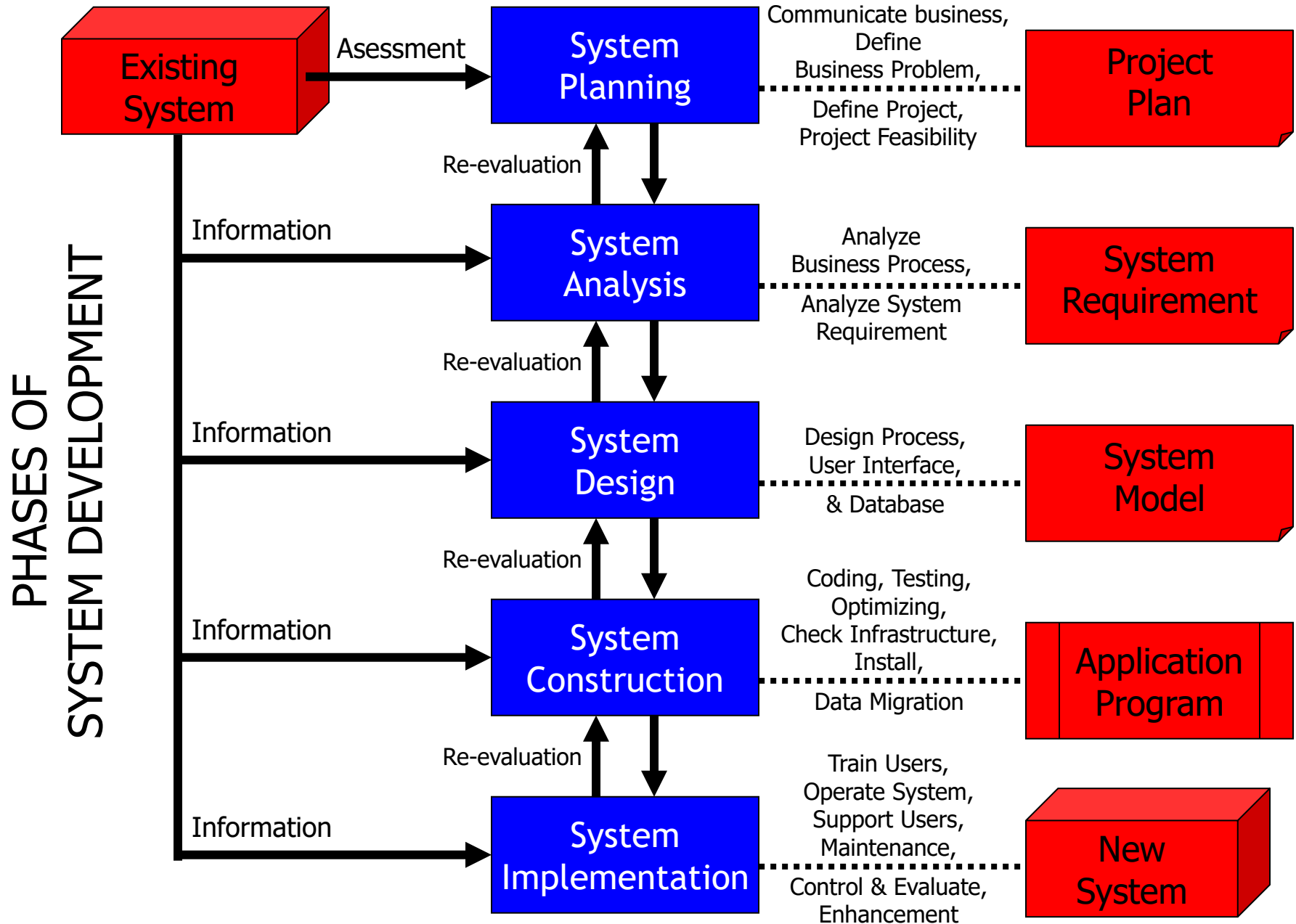


Para manajer mulai membutuhkan tim Developer IT yang dapat memberikan solusi bagi perusahaannya.

Software Process

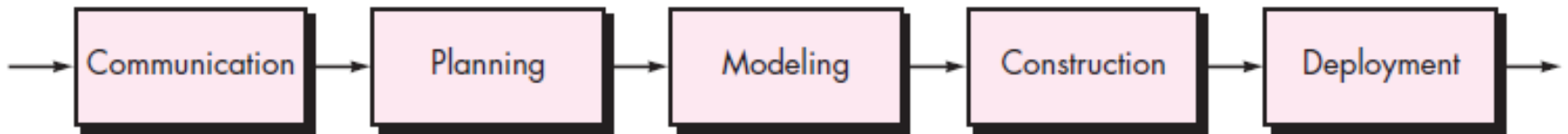
- Proses Perangkat Lunak merupakan seperangkat aktivitas yang berkaitan dengan pengembangan atau evolusi perangkat lunak.
- Aktivitas umum pada proses Perangkat Lunak :
 - Perencanaan
Business communication, Defining Business Problem, Define Project, Project Feasibility.
 - Analisis
Analyzing Business Process, Analyze System Requirement.
 - Desain / Perancangan
Designing Process, User Interface, & Database.
 - Konstruksi
Coding, Testing, Validation, Optimizing, Checking Infrastructure, Installation, Data Migration.
 - Implementasi
Train Users, Operate System, Support Users, Maintenance, Control & Evaluate, Enhancement.

Software Process

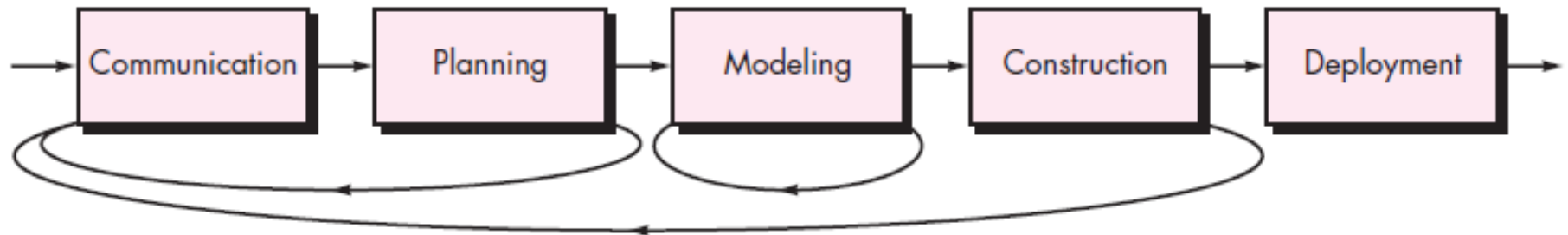


System Development Lifecycle (SDLC)

Linear Process Flow

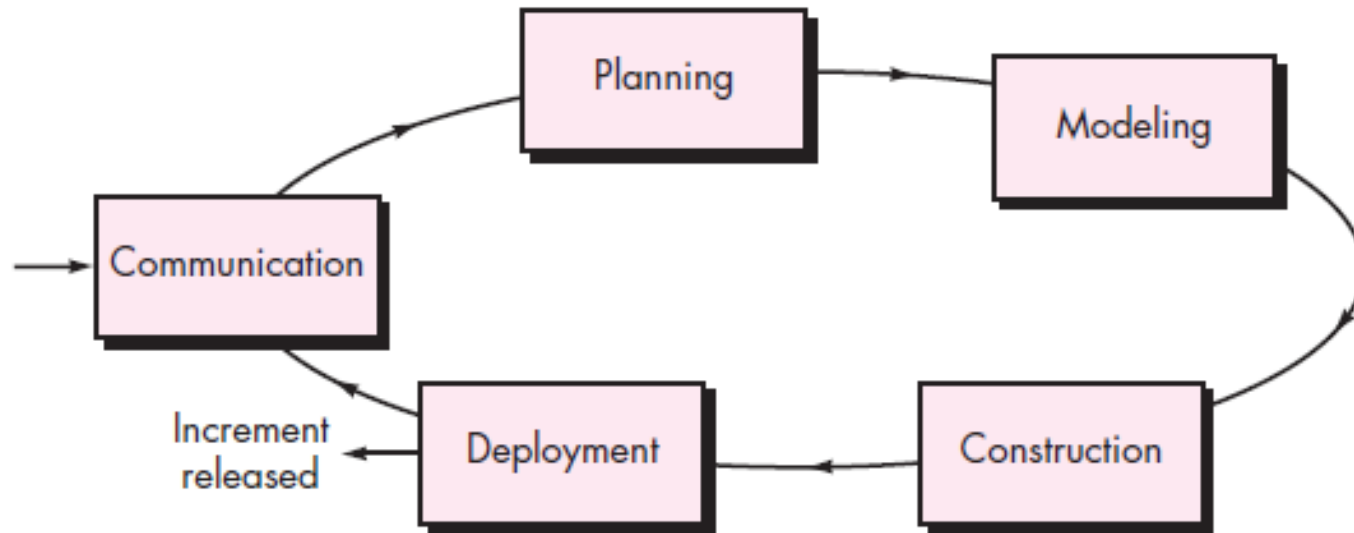


Iterative Process Flow



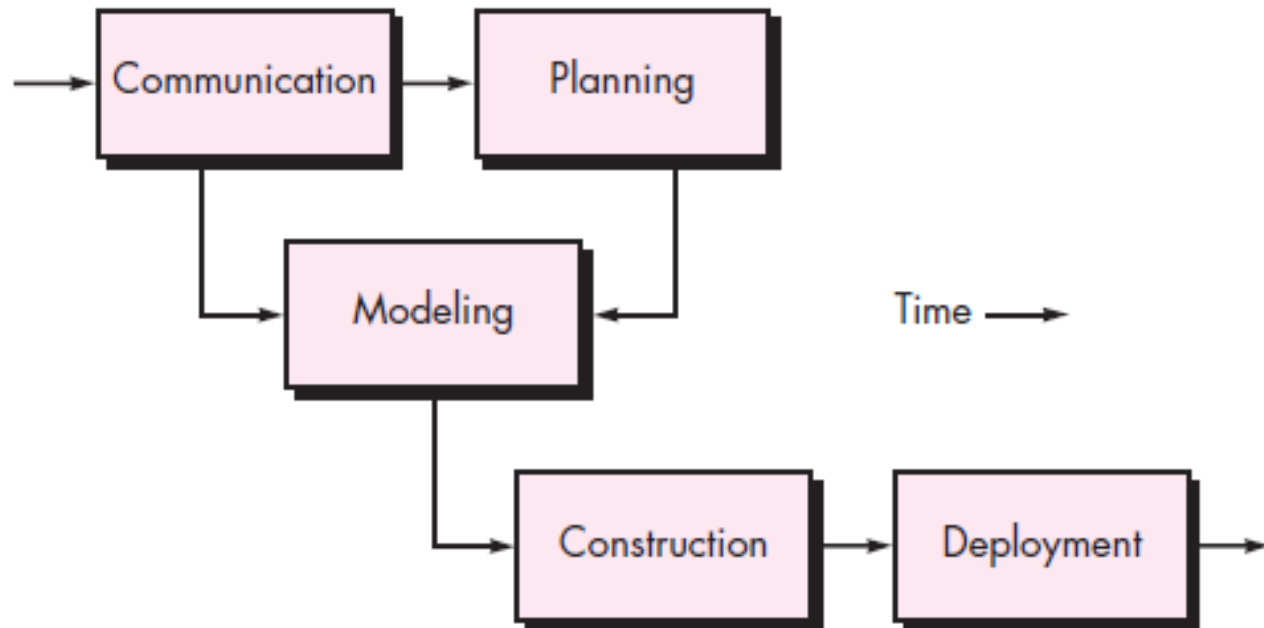
System Development Lifecycle (SDLC)

Evolutionary Process Flow



System Development Lifecycle (SDLC)

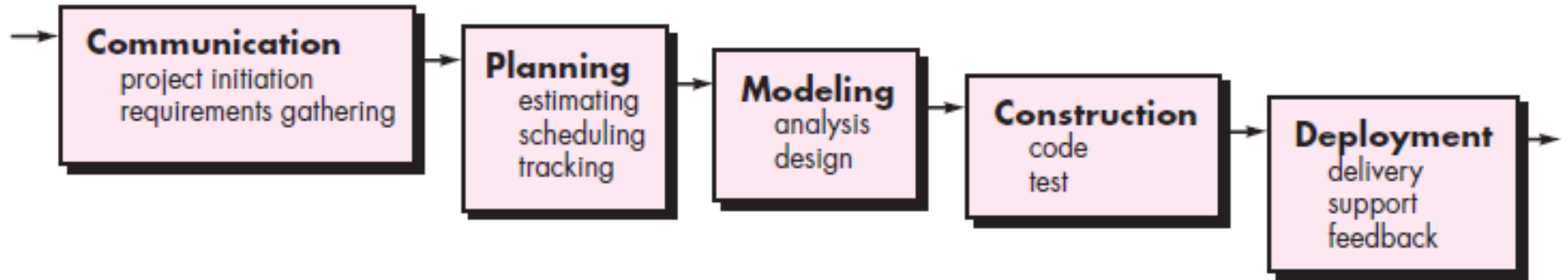
Parallel Process Flow



(d) Parallel process flow

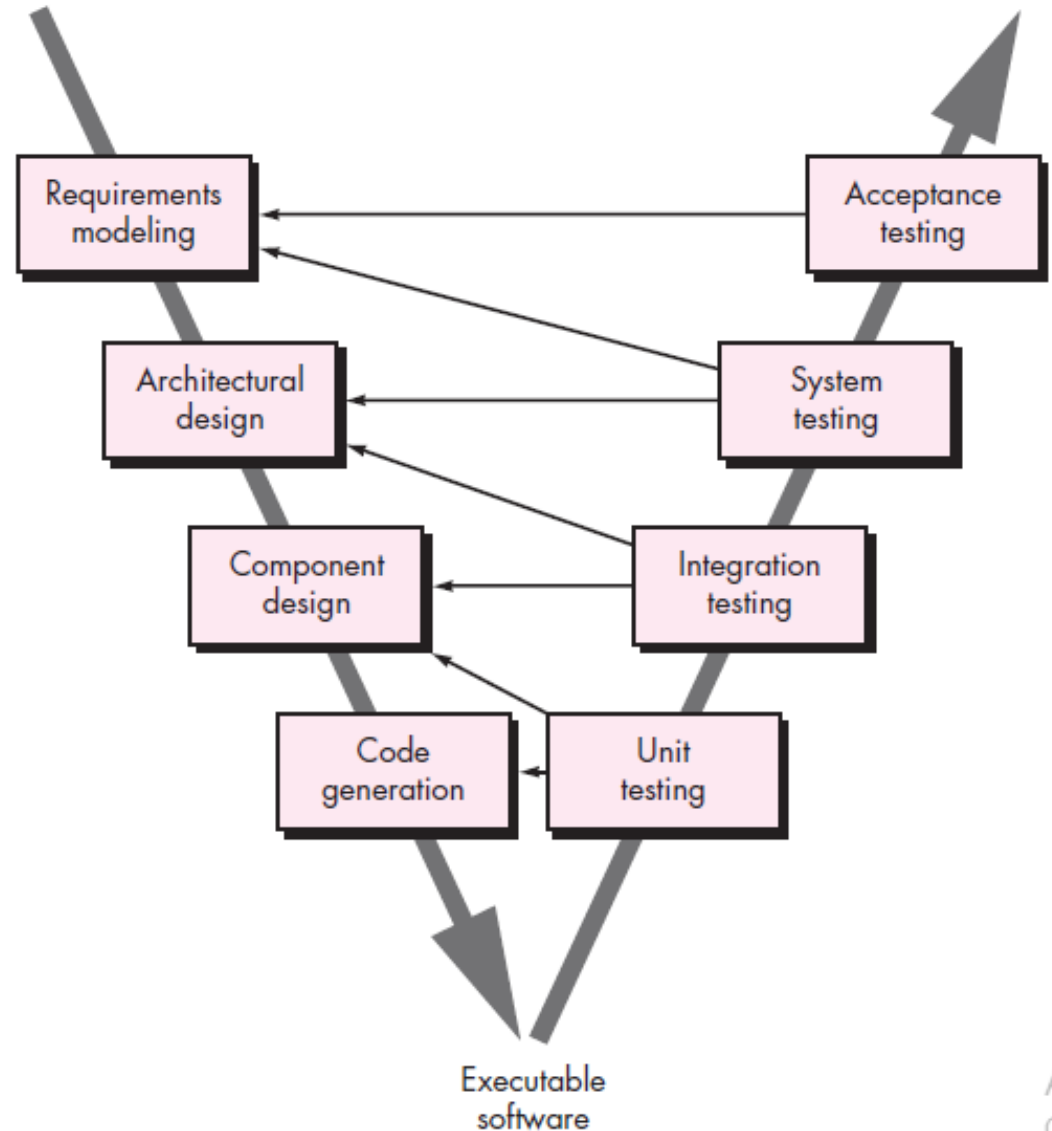
System Development Lifecycle (SDLC)

Waterfall Model



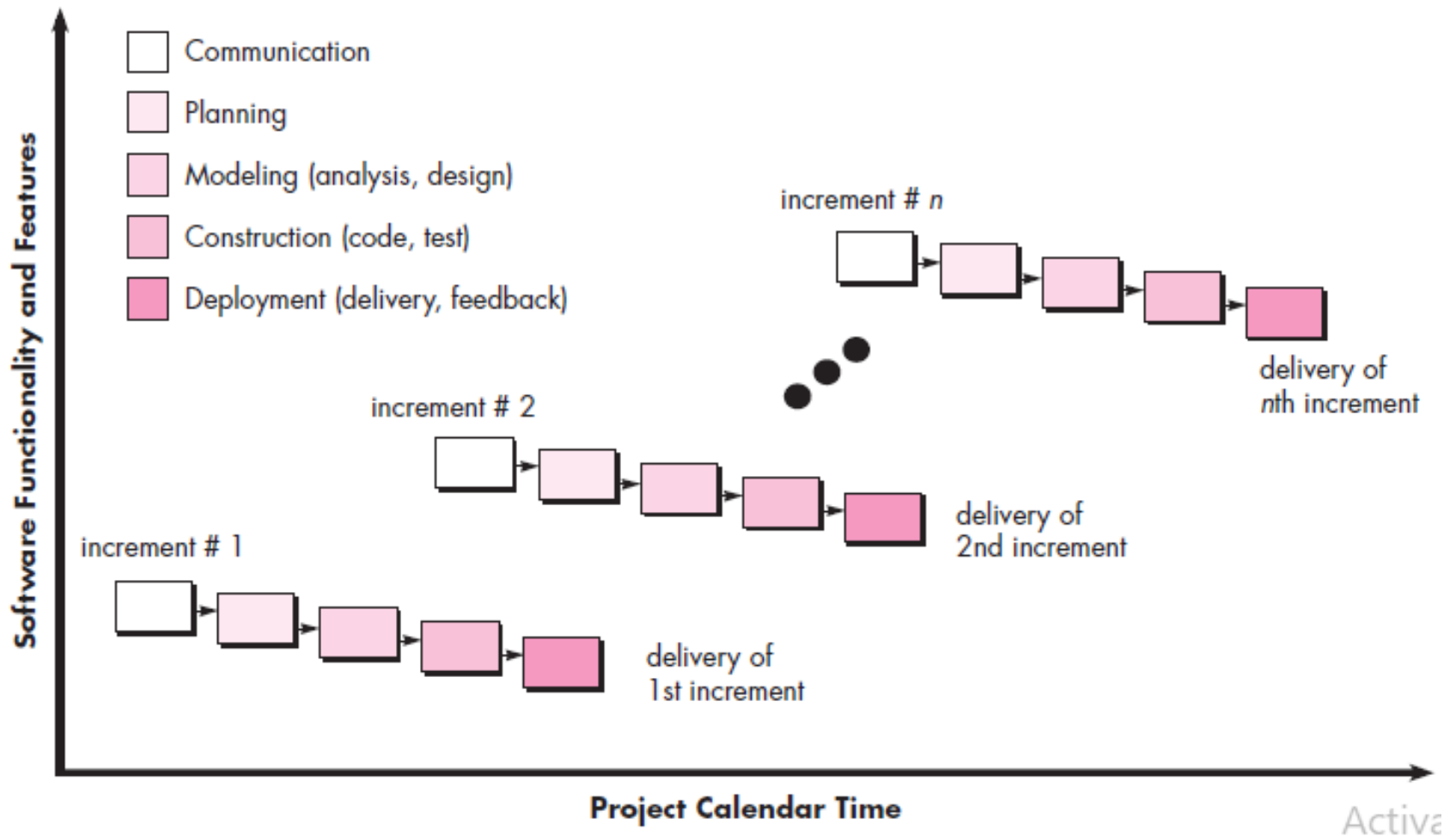
System Development Lifecycle (SDLC)

V Model



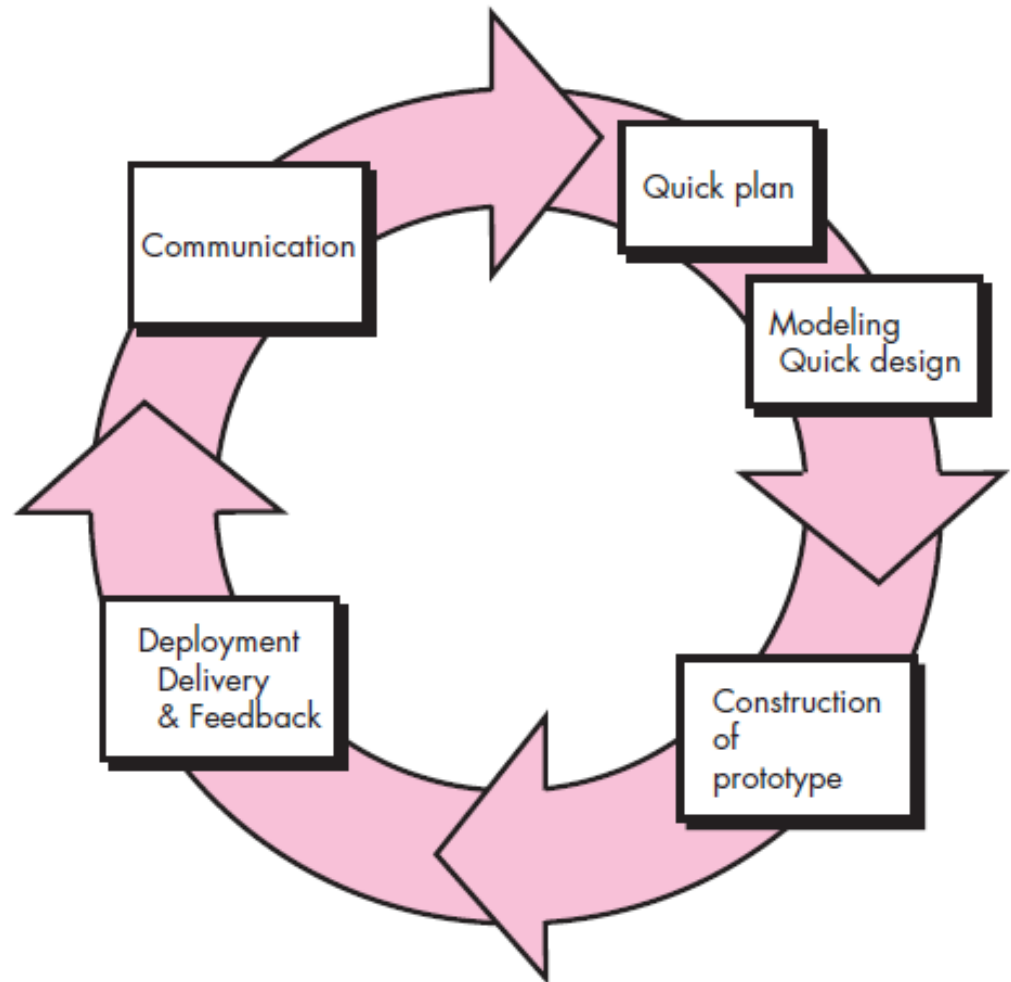
System Development Lifecycle (SDLC)

Incremental Model



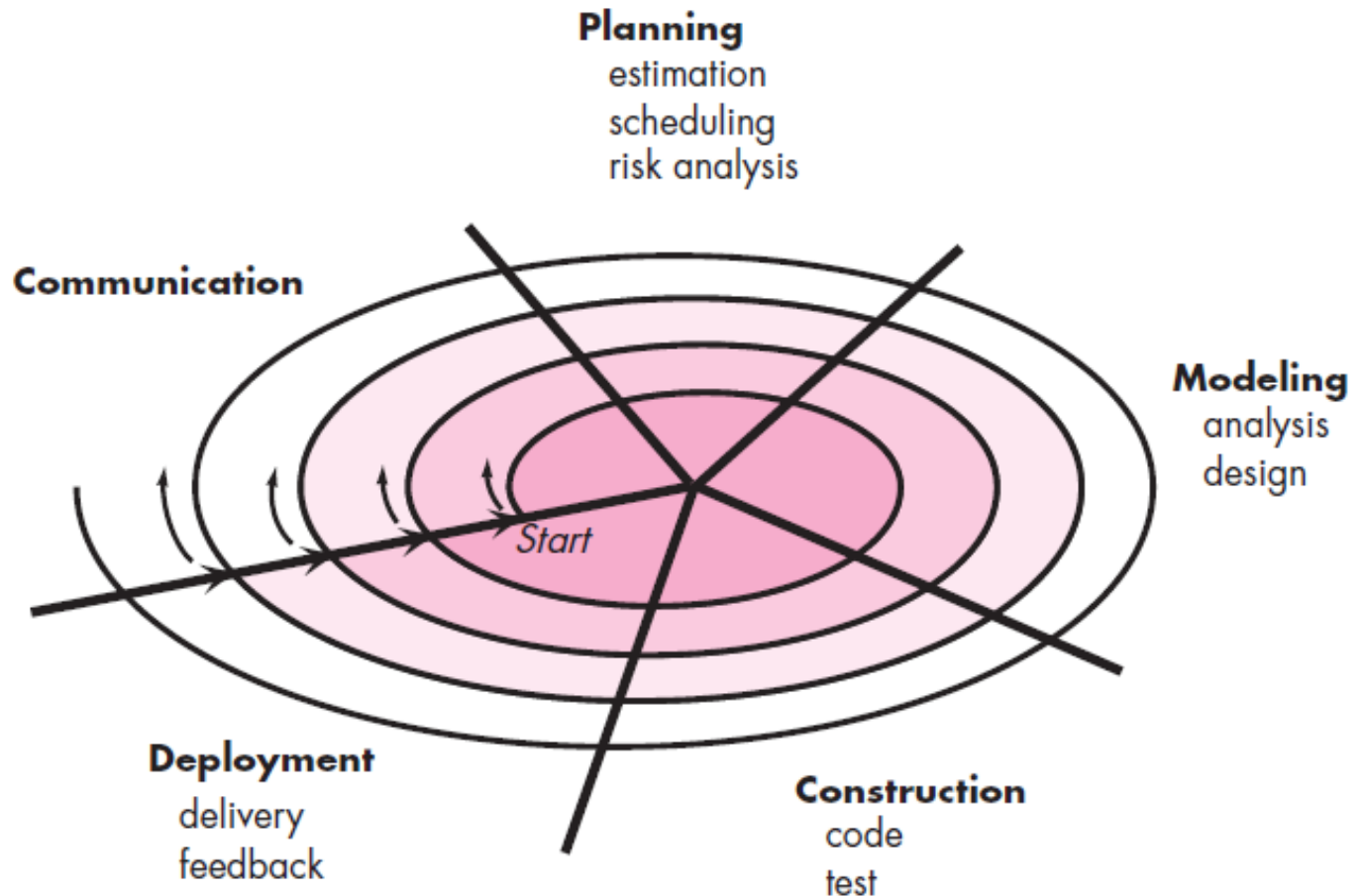
System Development Lifecycle (SDLC)

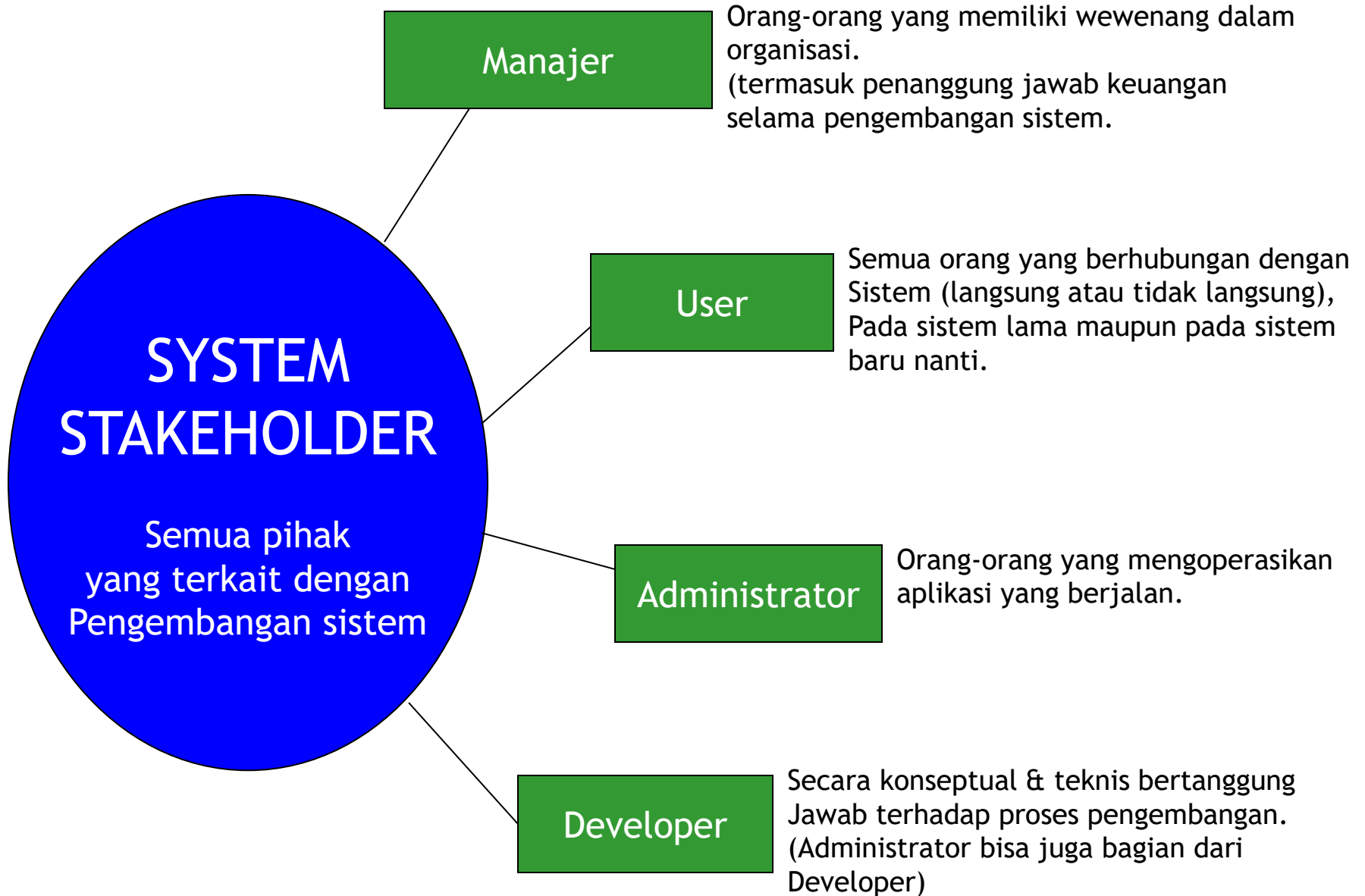
Prototyping Model



System Development Lifecycle (SDLC)

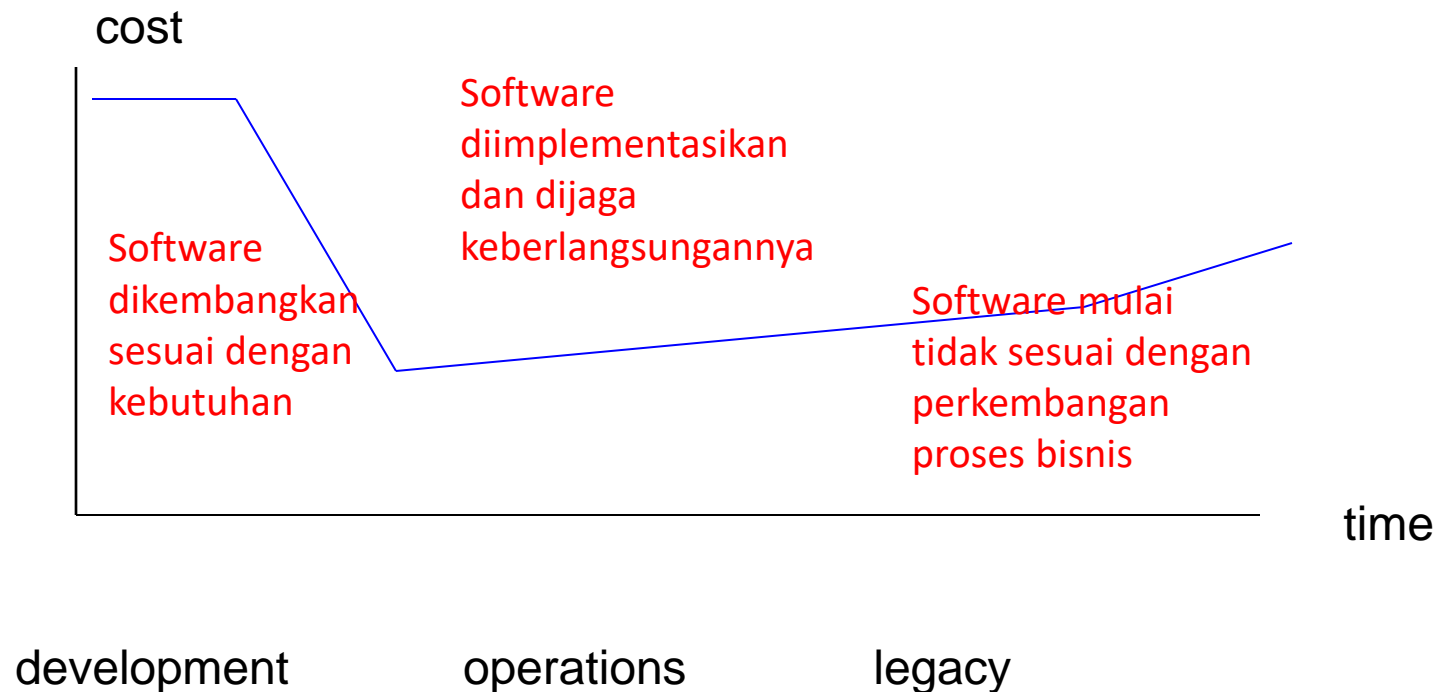
Spiral Model





Software Cost

- Initial development cost (10%)
- Continuing maintenance cost (90%)





Thank You!
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