



SOFTWARE PROCESS

Ingeniería de
Software 2

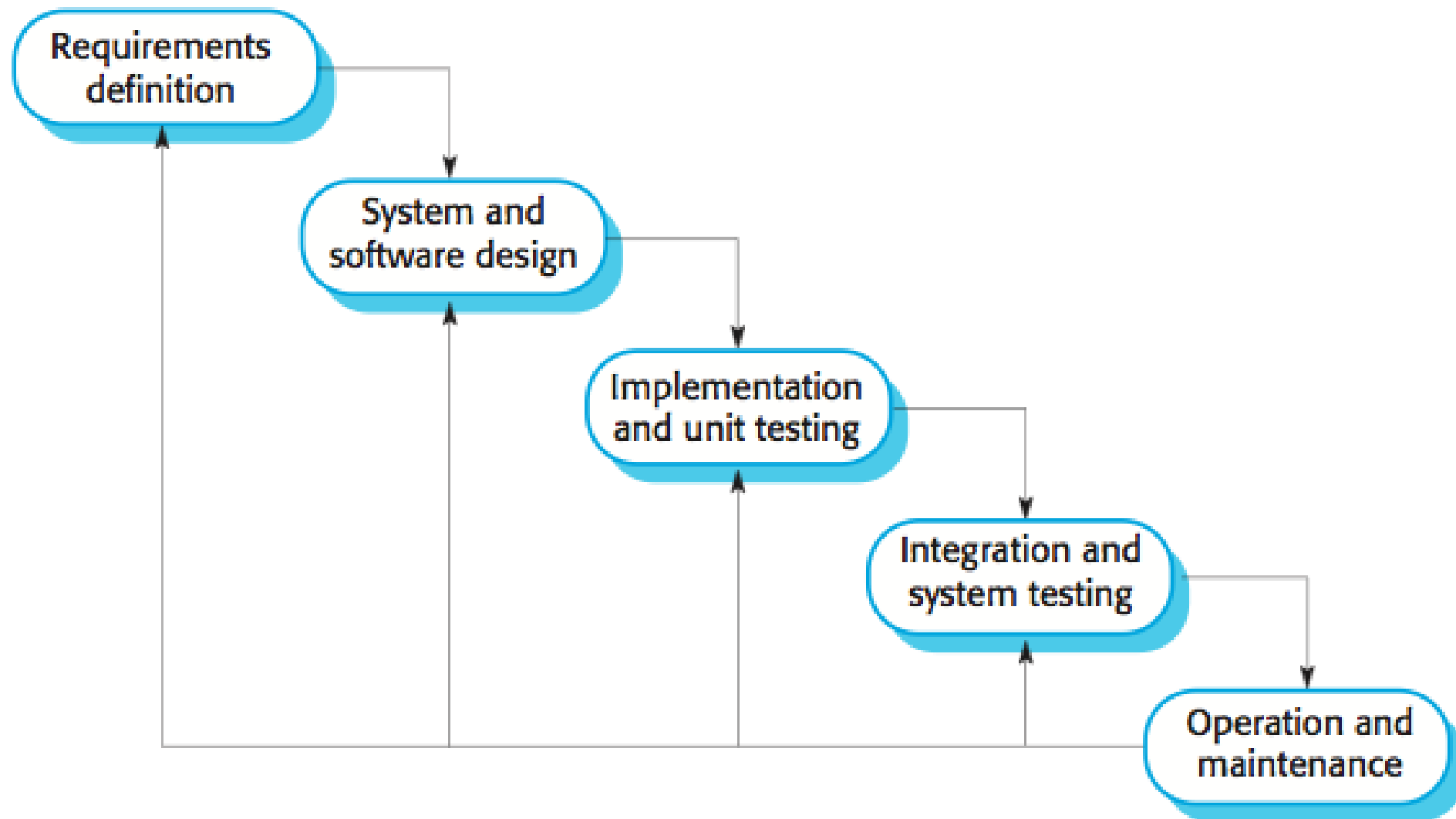


**CHANGE
AHEAD**

COPING WITH CHANGE

- Business changes lead to new and changed system requirements
- New technologies open up new possibilities for improving implementations
- Changing platforms require application changes

THE WATERFALL MODEL



AMONG
MULTIPLE
TECHNIQUES...

Software
prototyping

Incremental
development

Spiral approach

Rational Unified
Process

SOFTWARE PROTOTYPING

A prototype is an initial version of a system used to demonstrate concepts and try out design options.



BENEFITS OF PROTOTYPING

Improved system usability

A closer match to users' real needs

Improved design quality

Improved maintainability

Reduced development effort

STEP 1:
Make a Reservation

① **LOCATION**

Pick up:
 Airport name or code:

☒ Return to a different location

Return:
 Airport name or code:

② **DATE**

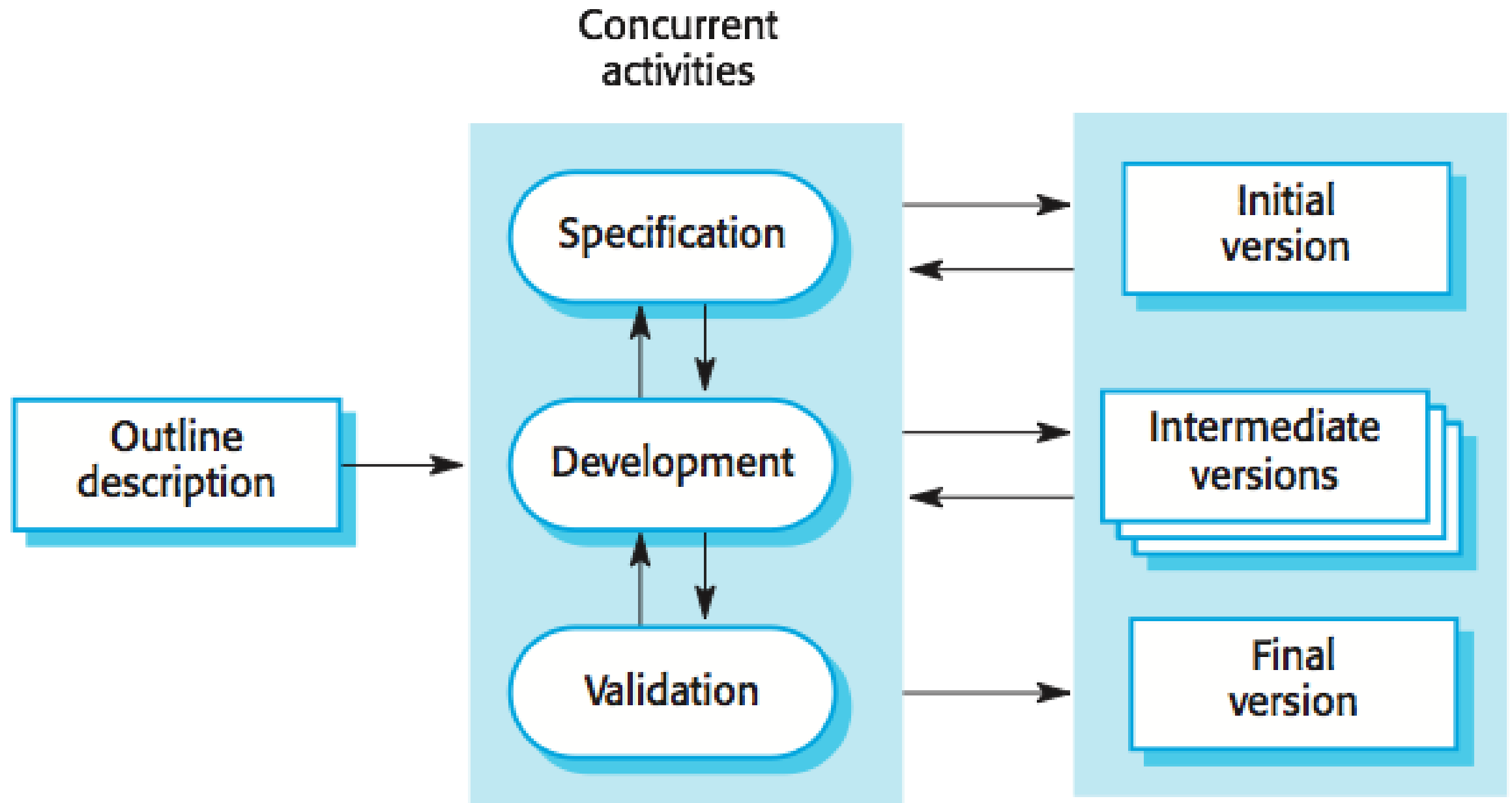
Pick up:

Return:

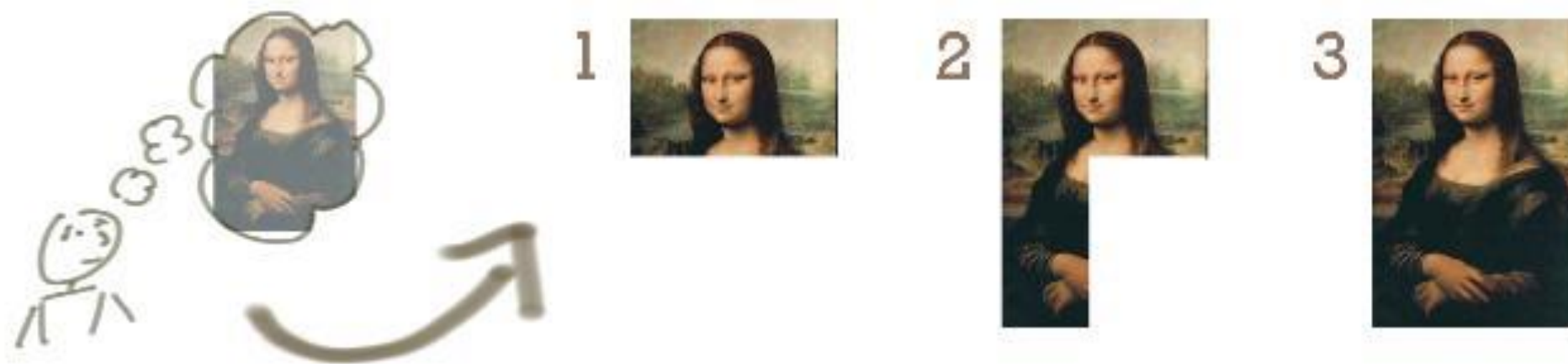
③ **CAR TYPE**

Car Type
☐ Yes ☐ No

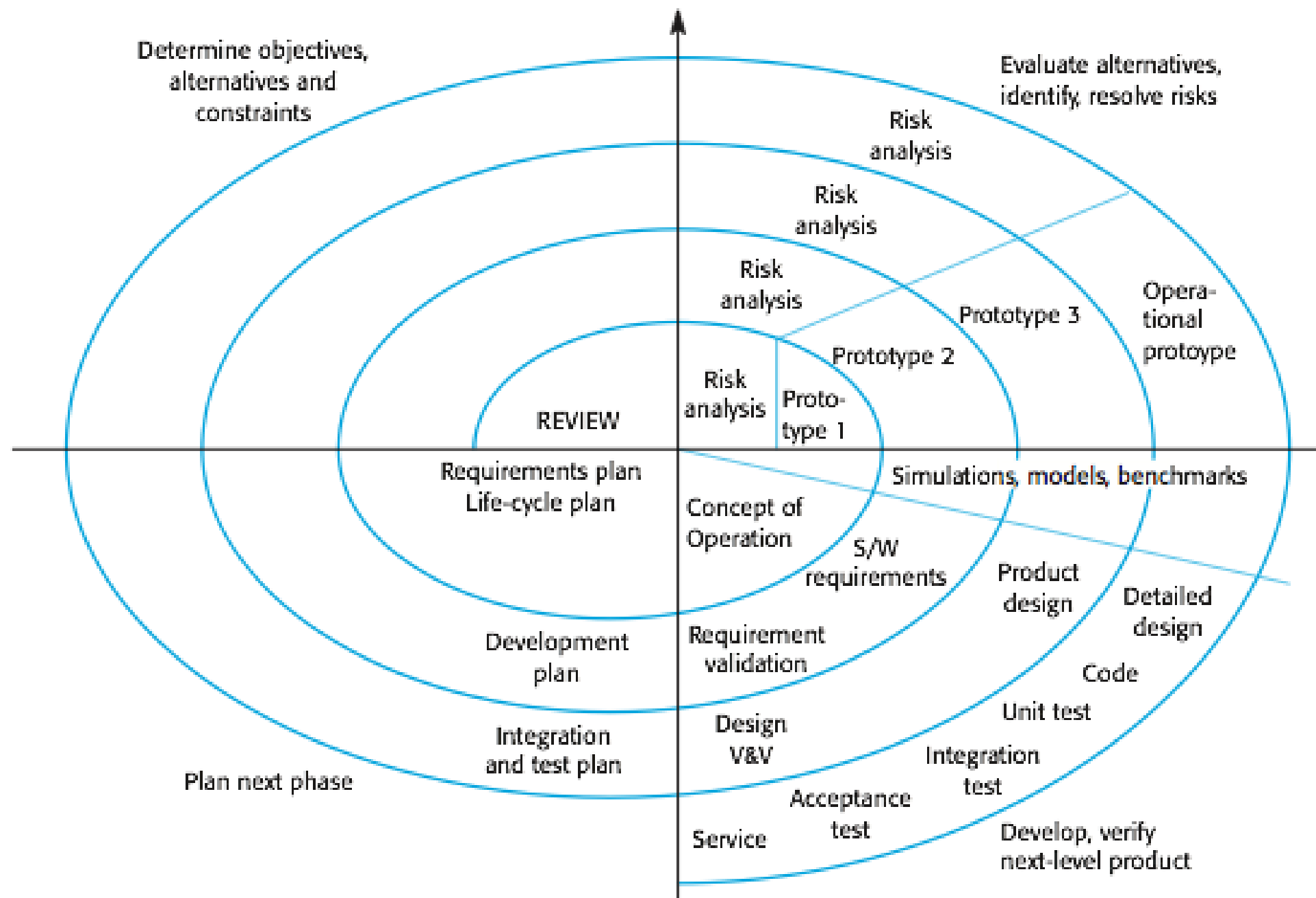
INCREMENTAL DEVELOPMENT



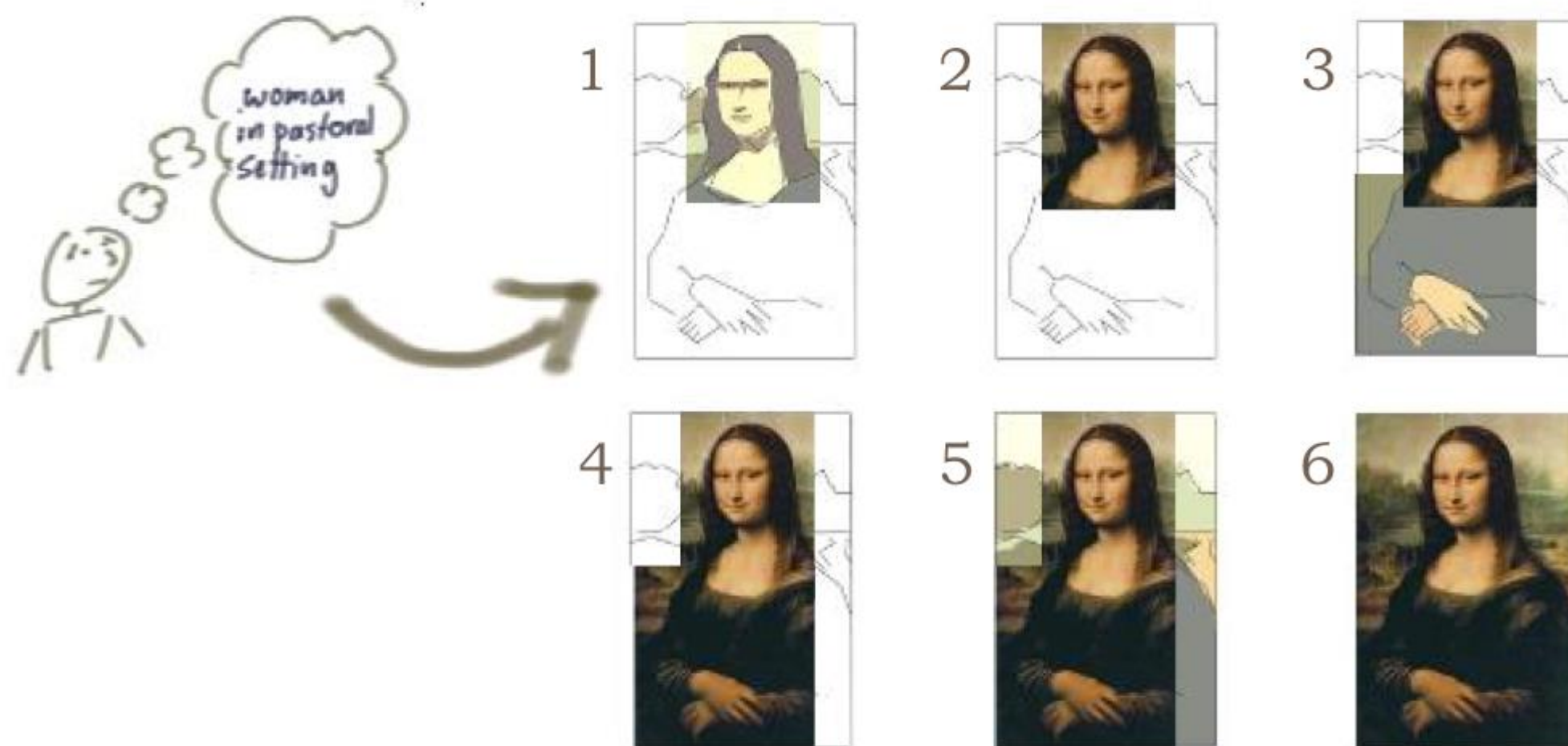
INCREMENTAL DEVELOPMENT



BOEHM'S SPIRAL MODEL



ITERATIVE & INCREMENTAL DEVELOPMENT



ITERATIVE & INCREMENTAL DEVELOPMENT

Not like this....



1



2



3



4

Like this!



1



2



3



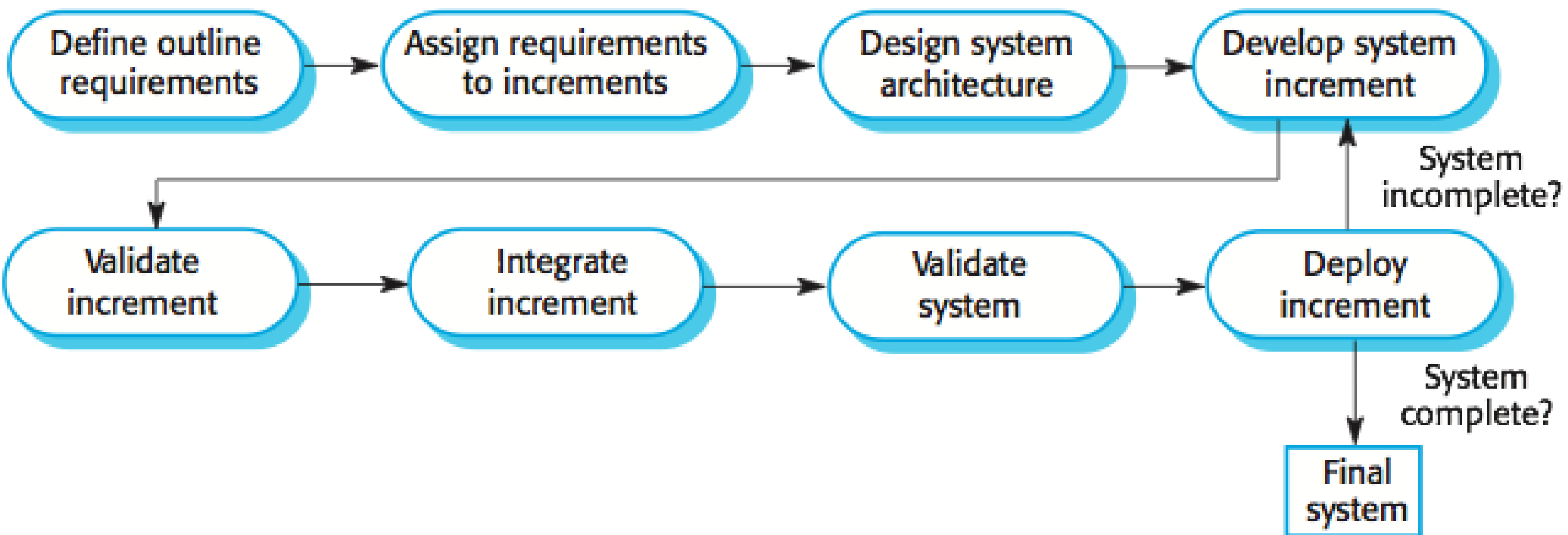
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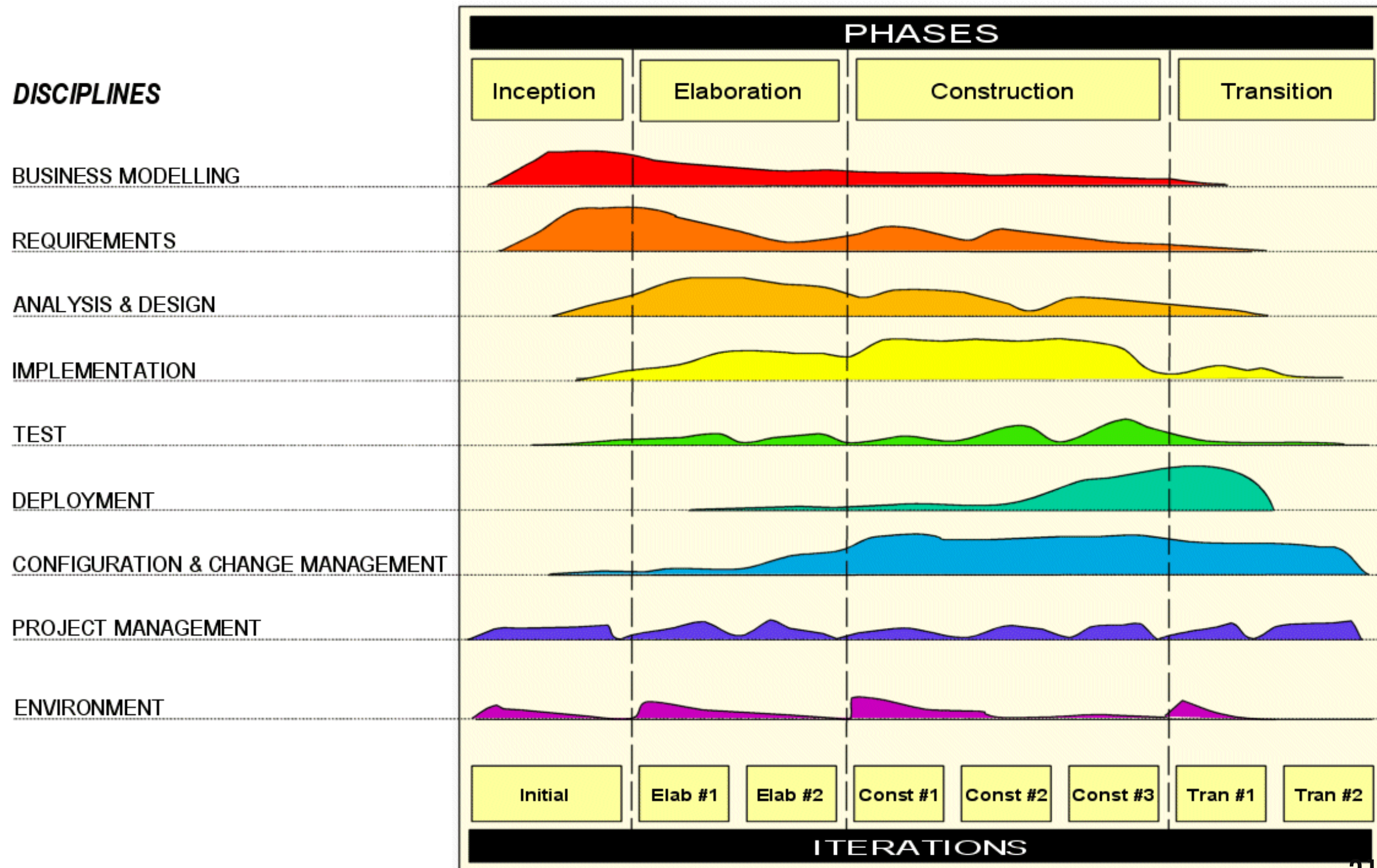
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Henrik Kniberg

INCREMENTAL DELIVERY



RATIONAL UNIFIED PROCESS





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