

# Архитектура программных систем

Session #1: Жизненный цикл программного продукта



# About Me



- 16 years of software engineering experience
  - 9 years with Motorola
  - 7 years with Oracle (and continuing)
- Education – ITMO University, Saint-Petersburg
  - 2006 – Bachelor degree
  - 2009 – Master degree
  - 2012 – PhD, Applied Mathematics and Math. Modelling
- Founder of
  - sdCloud project (<http://sdcloud.io>)
  - sdLitica project
  - InsightProject (<http://insightproject.space>)



# Agenda

- Software Development Life Cycle
- Models:
  - Waterfall
  - Spiral
  - Agile



# Software Development Life Cycle

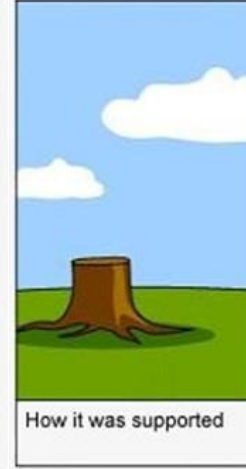
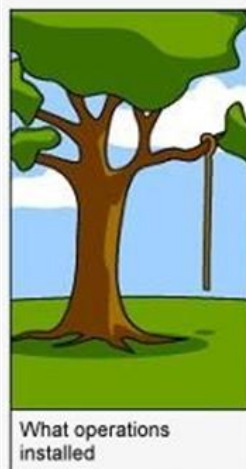
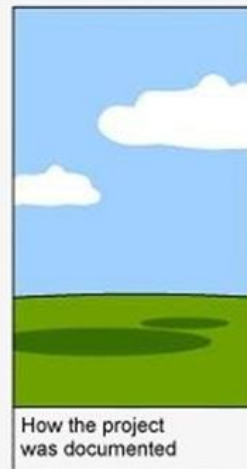
## SDLC:

- Stands for Software Development Life Cycle.
- Standard model used world wide to develop a software.
- Necessary to ensure the quality of the software.
- Logical steps taken to develop a software product.





# Software Development Life Cycle



# Software Development Life Cycle

## SDLC:

1. Analysis.
2. Planning.
3. Implementation.
4. Testing.



# Software Development Life Cycle

## Analysis:

- The first and the most important phase in the SDLC.
- Determine where the problem is.
- Breaking down the system.
- Requirements.
- Must be done carefully.
- Any mistake in this phase will cost a lot



# Software Development Life Cycle

## Planning:

- Determine who will do what.
- Tasks are assigned to team members.
- It all starts here.





# Software Development Life Cycle

## Implementation:

- The most expensive phase.
- Also the longest one



# Software Development Life Cycle

## Testing:

- The never ending phase.
- In this phase we TEST, TEST, TEST, and TEST.
- Very important phase

# Software Development Life Cycle

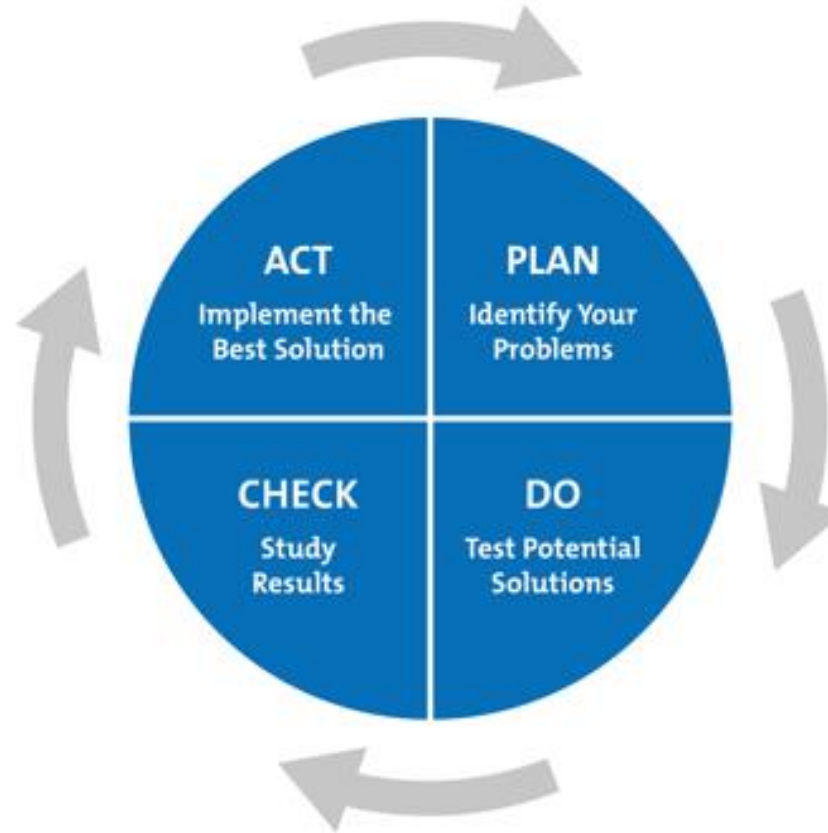
## SDLC:

1. Analysis.
2. Planning.
3. Implementation.
4. Testing.



# Another Angle

What is missing?



## SDLC:

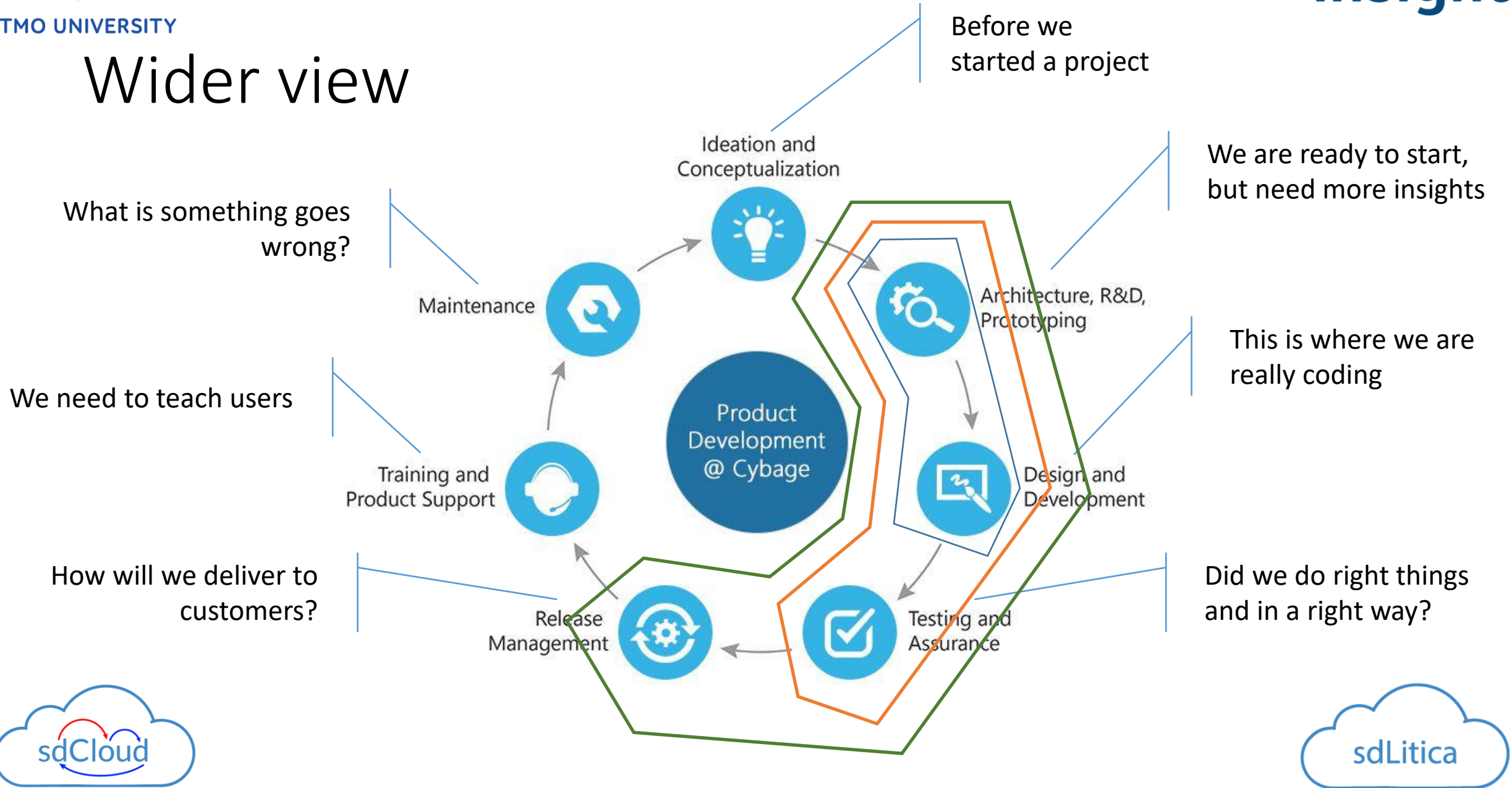
1. Analysis.
2. Planning.
3. Implementation.
4. Testing.

Where is research?

Where is design?

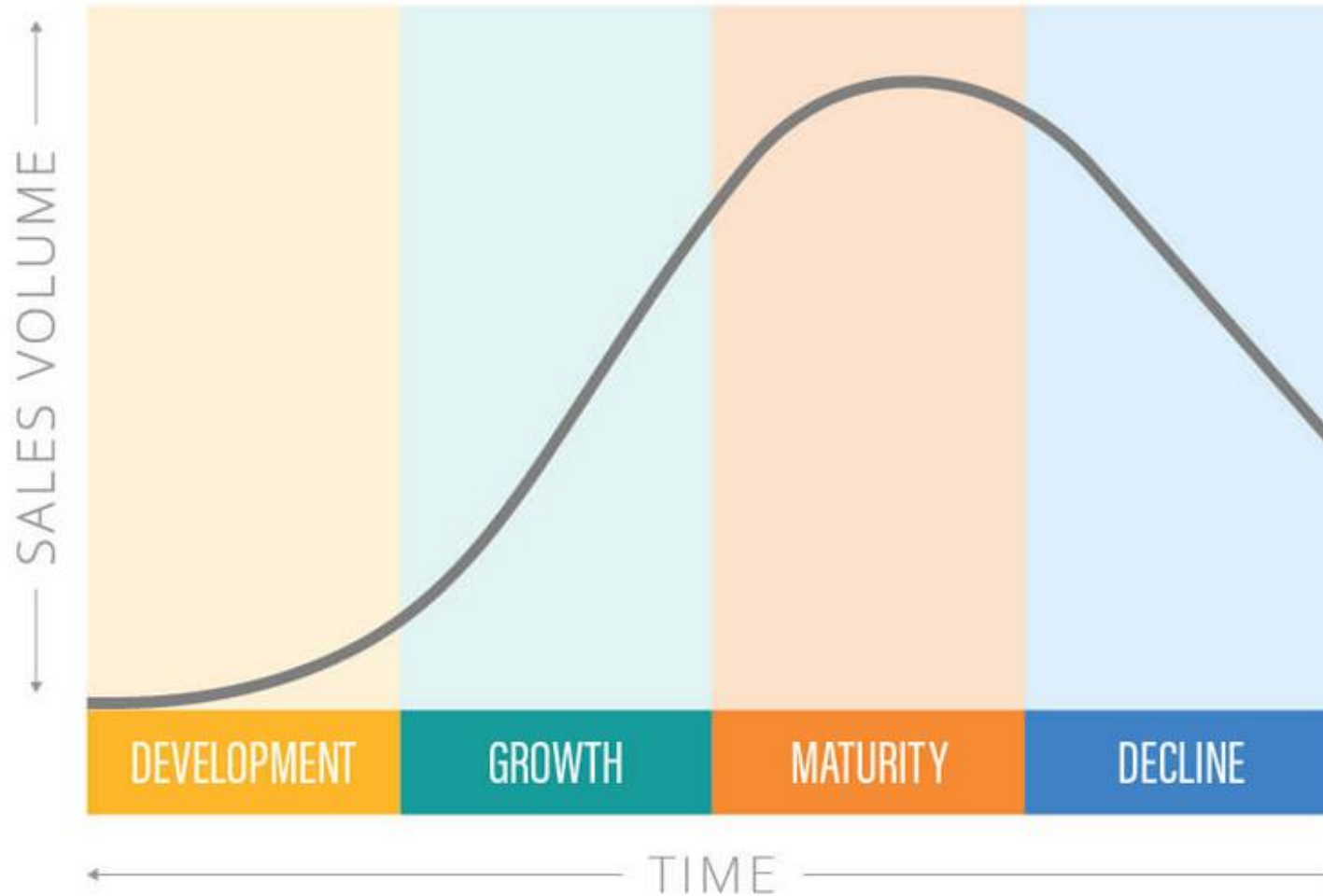
Is this it?

# Wider view



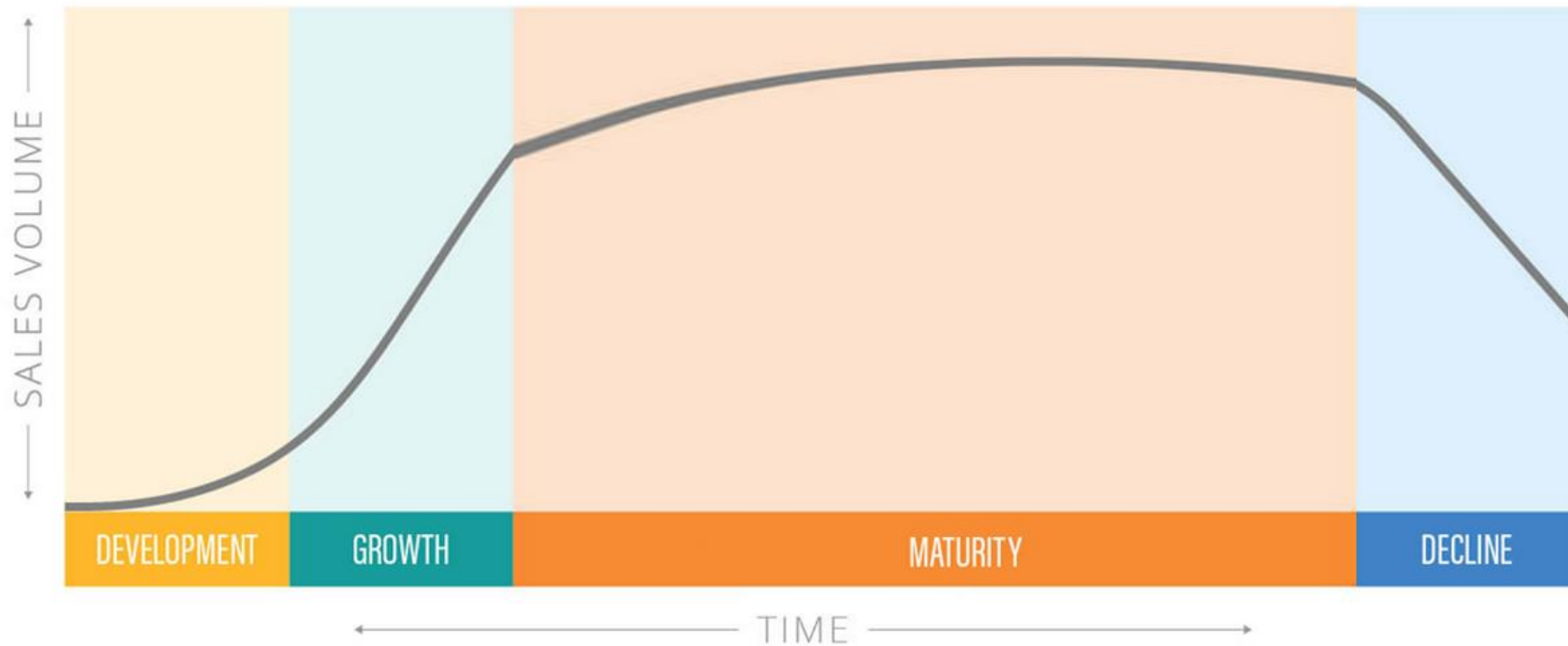
Is this it?

# Another Angle





# Another Angle



Спасибо!  
Вопросы?