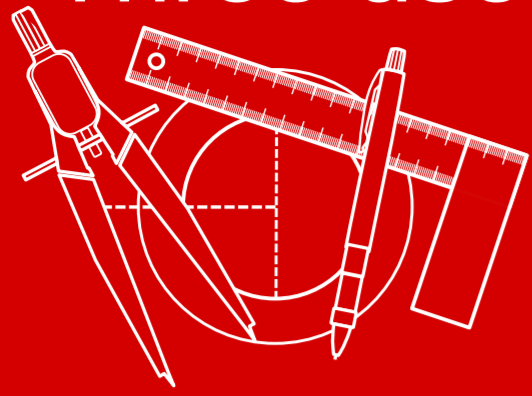


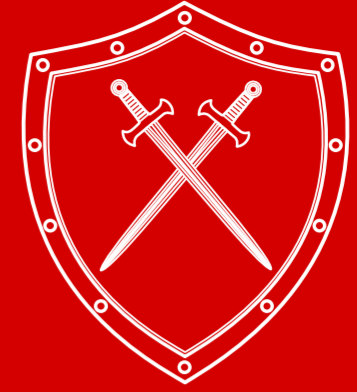
Many attacks happen on the application layer where infrastructure security solutions are not effective.

Application Security is important, however, still rare in application development. Let's change that !

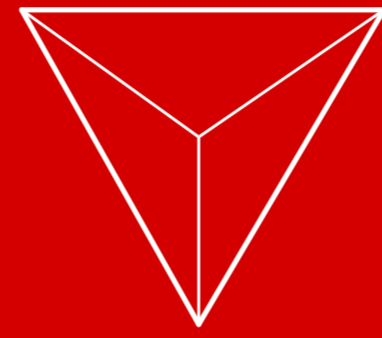
# Three useful notions for proactive Application Security !



# 「Shift Left」



# 「Security by Design」



# 「Continuous Hardening」

A security story so that 「bottom-up」 meets 「top-down」

**Shift Left:**  
Mindset for increasing efficiency and controlling cost during the whole application lifecycle

## 「Shift Left !」

**Top-down support:**  
Efficient Application Security is not feasible without strong support from top management!

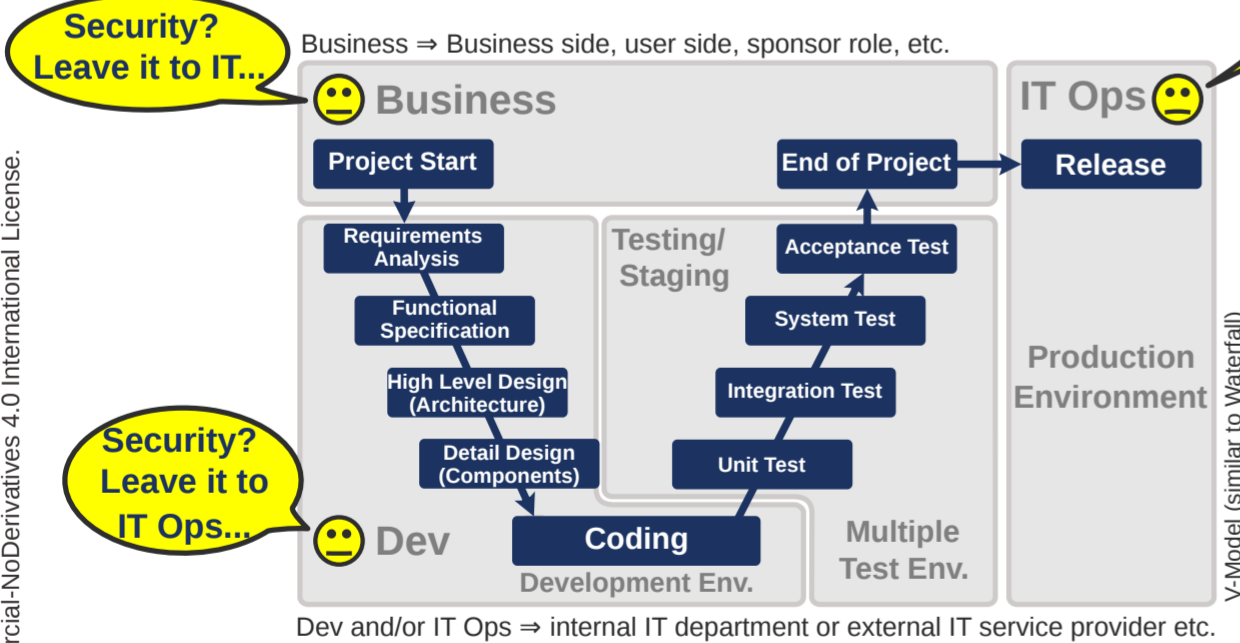
Find and fix defects early for reducing cost and risk !  
Just like it is done for Product Quality and for Safety



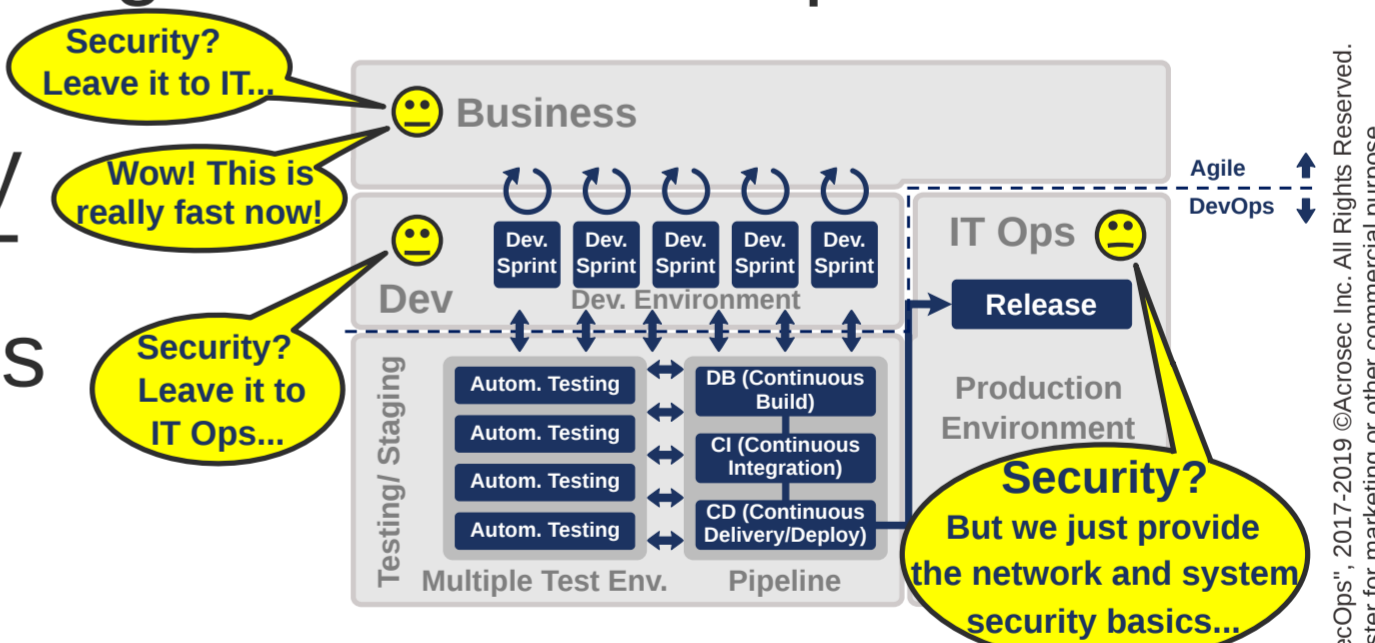
**Rule of thumb:**  
The later it gets, the more expensive it is to change an application (getting significantly costlier!)

**Top management involvement required:**  
Keep an eye on the realities in the organization regarding 「Shift Left」, 「Security by Design」 and 「Continuous Hardening」!

## Traditional Dev. Methods

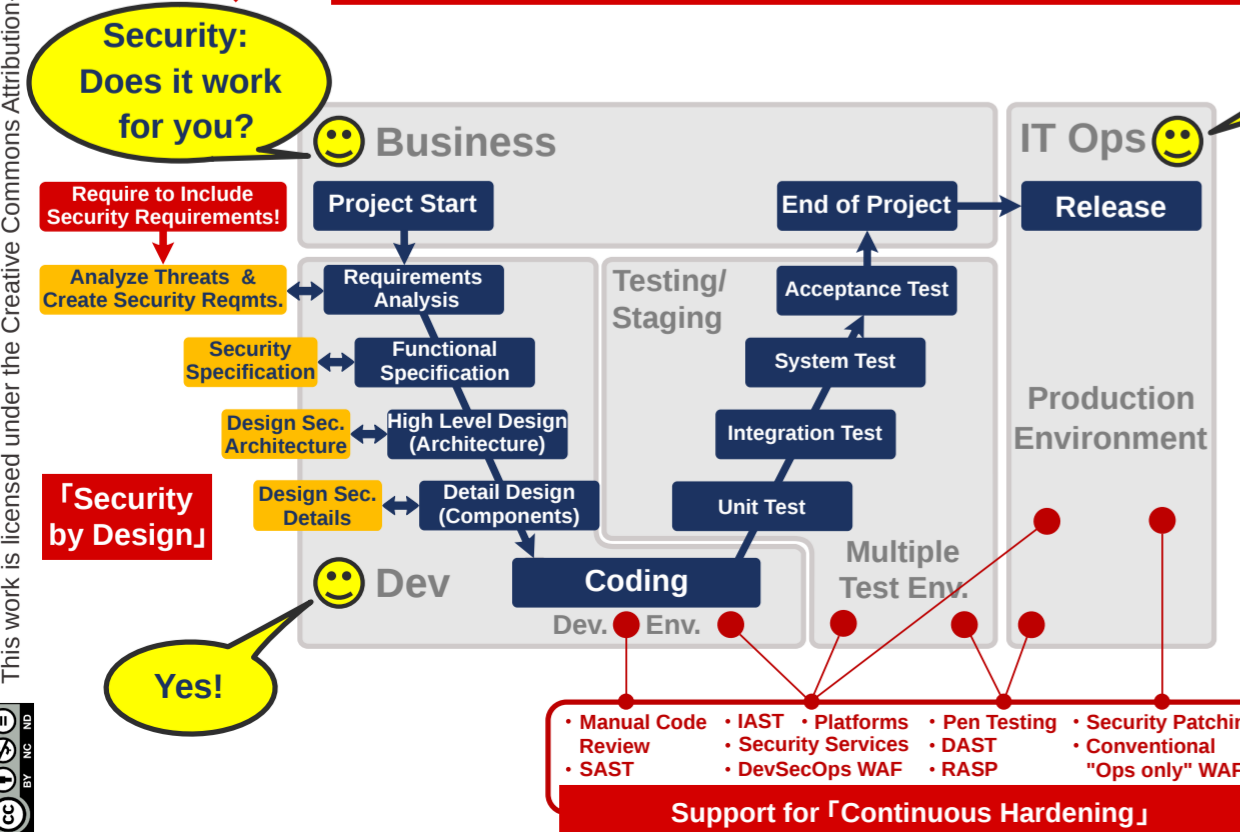


## Agile Dev. & DevOps Combined



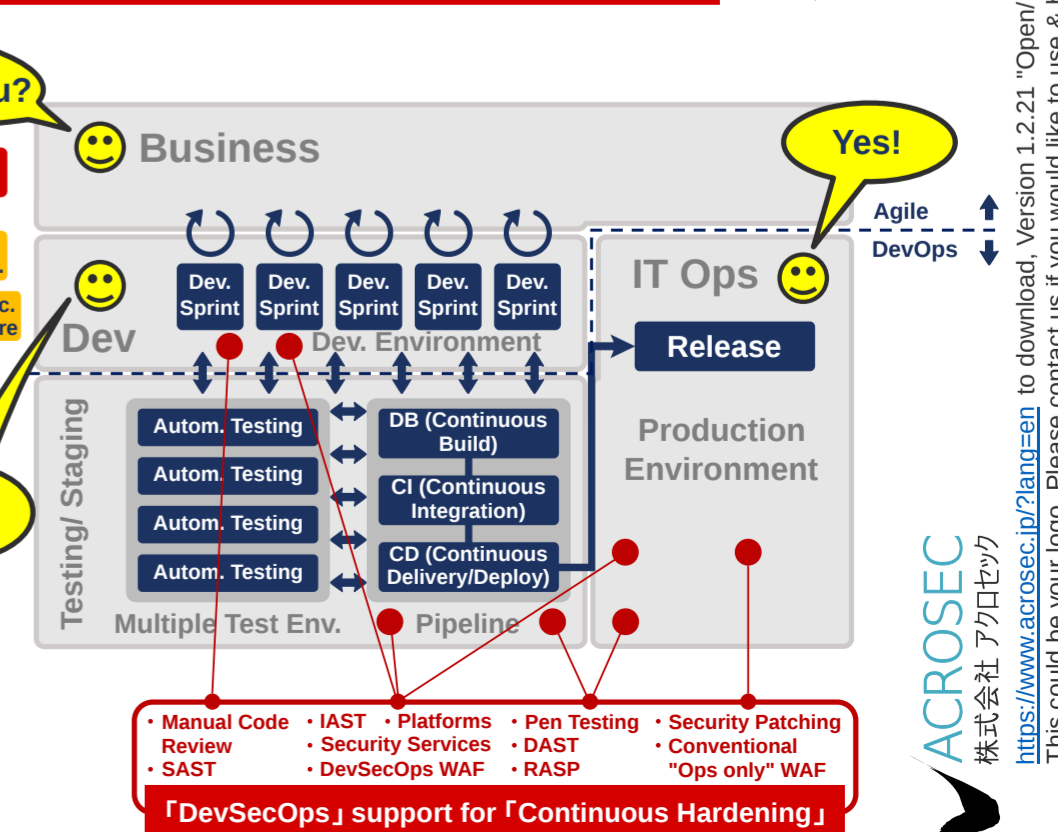
**Tragedy in the IT Trenches**  
(Still an often seen reality!)

## Add 「Security by Design」 & 「Continuous Hardening」



## Better Approach

1. Business requires a proactive approach and provides budget.
2. Development team creates a security design for the application.
3. Development and operations teams work together for efficiently:
  - a) implementing continuous hardening
  - b) maintaining the intended security level over time in order to stay consistent



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