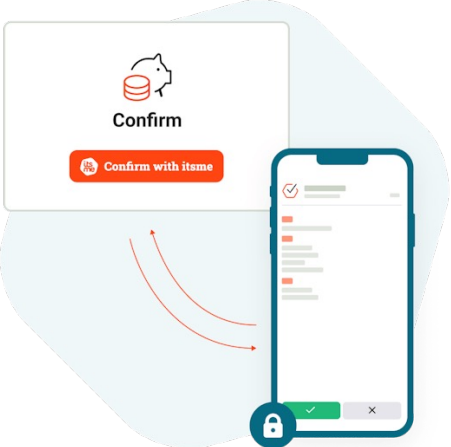
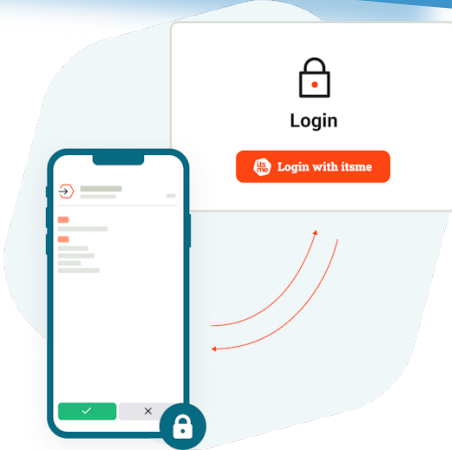


Identification

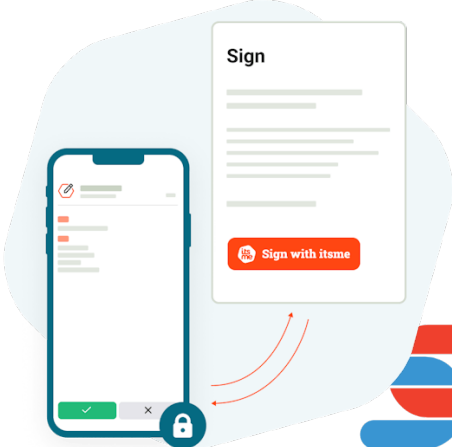


Authentication

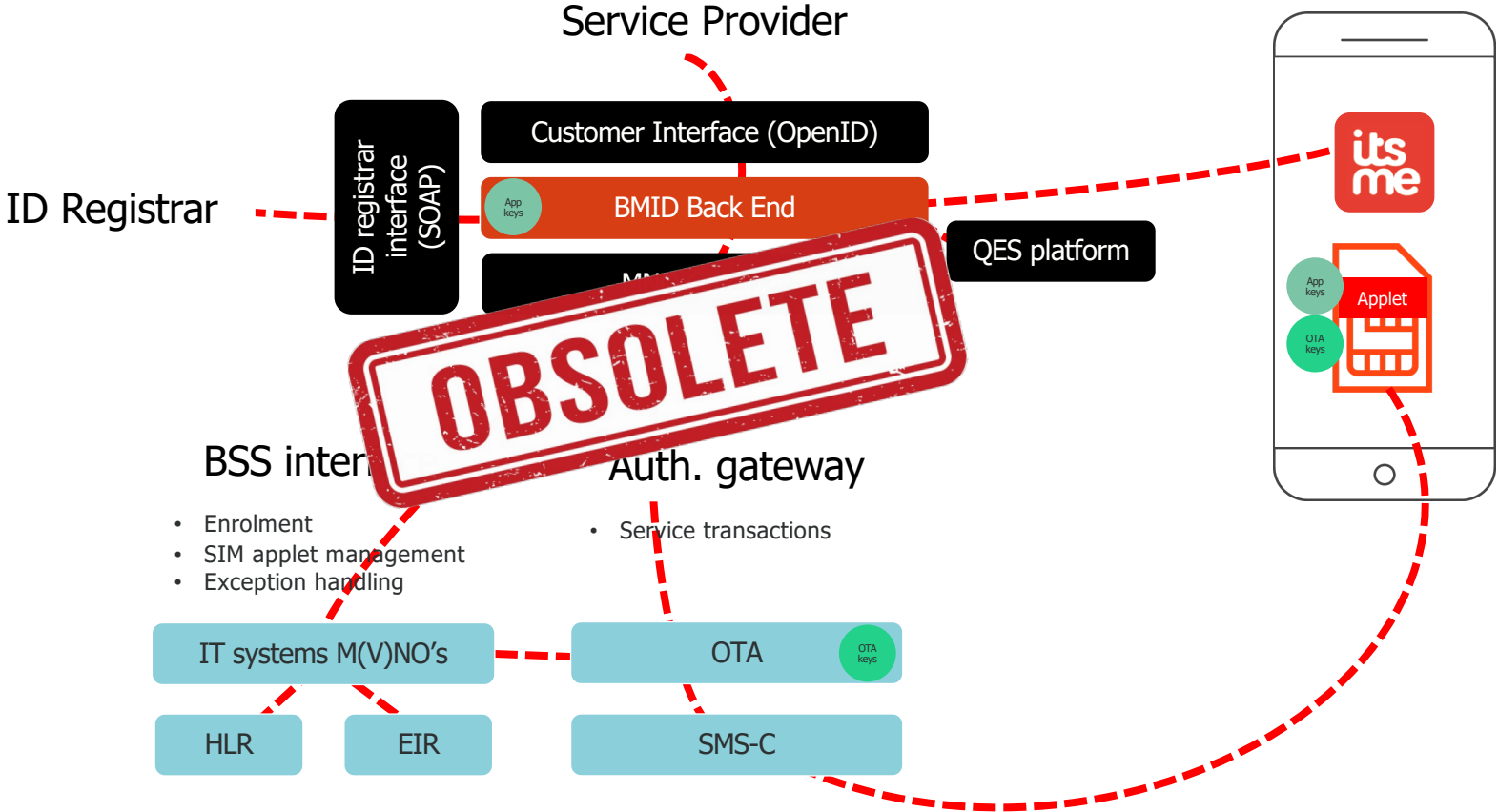


Confirmation

Qualified Electronic Signature



# itsme<sup>®</sup> : a complex application like many others



# Cyber-attacks occur everyday

02/12/2024

## Cyberattack Strikes Armentières Hospital Center In France

The emergency rooms of the Armentières hospital center in France have been temporarily closed due to a ransomware attack which struck at 2 a.m. on Feb. 11. Patients have been diverted to other hospitals in the Lille metropolitan area. A crisis unit, made up of security professionals, was set up to restore the situation while all of its computers were quarantined. The hackers are demanding a ransom for the return of the data. The victim of a cyberattack was the victim of a ransomware attack.

## Cyberattack Brings Production At Duvel Moortgat Breweries To A Standstill

A ransomware attack struck the Duvel Moortgat brewery on Mar. 6. The brewery produces beers including the world-renowned Duvel and the pils beer Bel Pils. Production was halted at all Duvel Moortgat's breweries in Belgium and at its site in Kansas in the U.S. "We have decided to switch off our servers and as a result production is at a standstill," a spokesman said. Production restarted on Mar. 13. The brewery's annual revenue is \$100 million. Full production resumed at all breweries.

## Critical Update: CrushFTP Zero-Day Flaw Exploited in Targeted Attacks

Apr 20, 2024

Vulnerability / Endpoint Security

Users of the CrushFTP are being urged to



08/24/2023

## Cyberattack On Belgian Social Service Centers Forces Them To Close

The Public Center for Social Action (CPAS) in Charleroi, Belgium, announced its social services will be closed on Aug. 22 "except for absolute emergencies" as a result of a cyberattack. CPAS institutions operate in each of the country's 581 municipalities, providing services such as financial assistance, housing, medical and social work. The attack, which was the largest in Belgium's history, forced CPAS workers to close their offices. The CPAS community including financial assistance, housing, medical and social work. The attack, which was the largest in Belgium's history, forced CPAS workers to close their offices.

18/03/2024

## The North American esports final of online shooter Apex Legends has been postponed following claims of hacking.

Clips shared by players show unwanted cheat modes being activated mid-match, sparking panic among opponents. The organisers of the official regional contest said the "competitive integrity" of the contest had been compromised but have yet to share further details. BBC Newsbeat has asked publisher Electronic Arts (EA) for comment. Two high-profile Apex Legends players, NairvncK and ImperialHal, posted clips of cheats being used during the match.

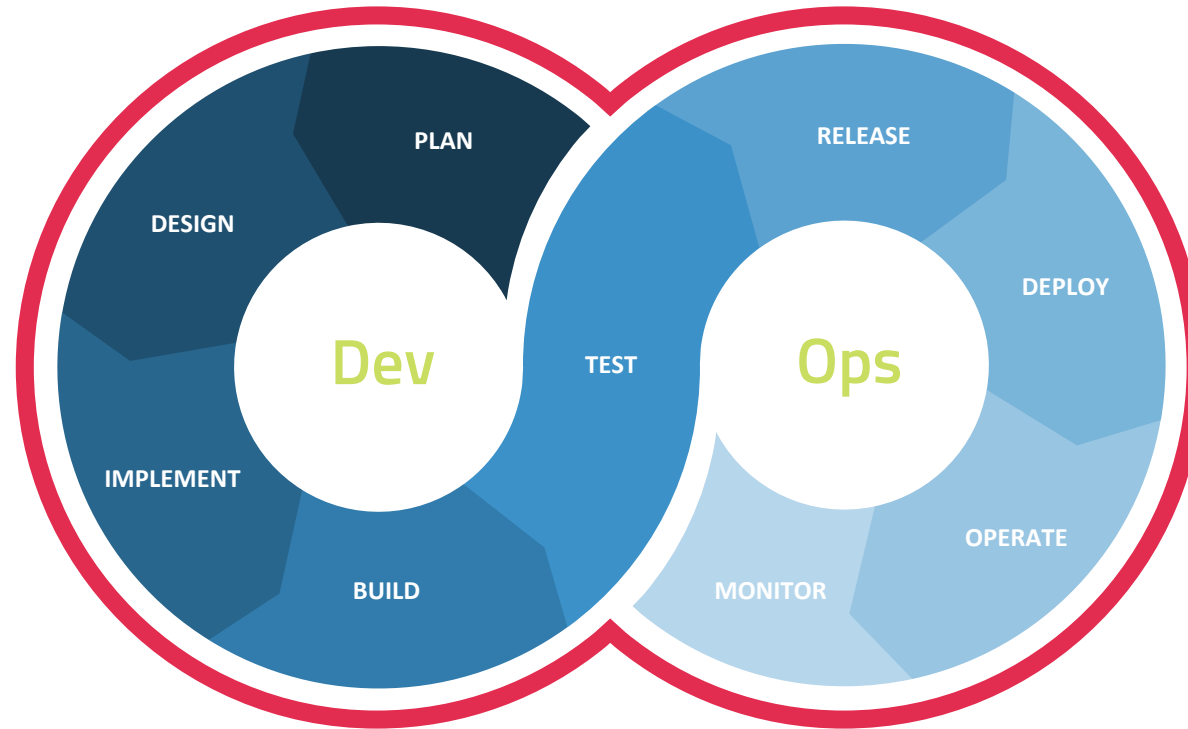
## Widely-Used PuTTY SSH Client Found Vulnerable to Key Recovery Attack

Apr 16, 2024 Encryption / Network Security

The maintainers of the PuTTY Secure Shell (SSH) and Telnet client are alerting users of a critical vulnerability impacting versions from 0.75 to 0.78.

# Apply Security on SDLC

## Security







# Security Centric Application Development: the **itsme**<sup>®</sup> use case

JUNE 2024



SecAppDev

# Who are we?



**Steve Mihy**  
Secure Development  
Director



**Eric Bariaux**  
Senior Secure  
Software Architect

# Table of Contents

- Cyber-attacks occur everyday
- The story behind [itsme](#)<sup>®</sup>
- Keeping Security at the centre of Software Development Lifecycle





# The story behind **itsme**® ?

Belgian Mobile ID

## Belgian Mobile ID

proximus



telenet 

 Belfius



ING 

 **BNP PARIBAS**  
**FORTIS**

SFPIM



# The story behind **itsme**<sup>®</sup> ?

A few numbers

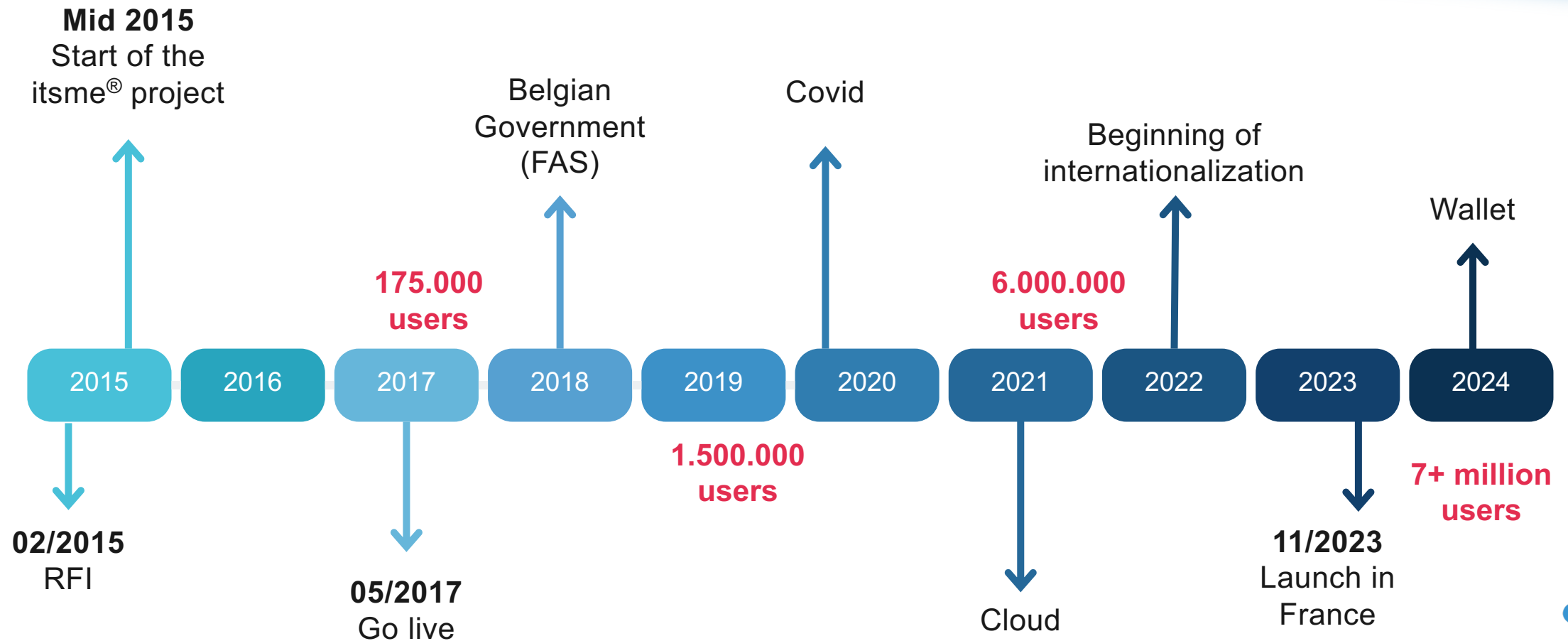
**7+** million  
users

**10+** active  
countries

**1+** million daily  
Identity actions

# The story behind itsme<sup>®</sup> ?

9 years in a nutshell



# Keeping Security at the centre of Software Development Lifecycle

- The Genesis
- Ideas vs implementation
- New features
- Architecture changes
- Security evolution
- Operational Security



# Keeping Security at the centre of Software Development Lifecycle

The Genesis : Development



End of 2015  
Start of the  
itsme® project



People



Processes



Technology

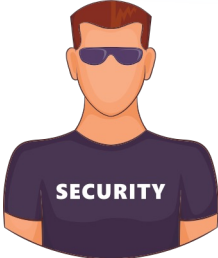


# Keeping Security at the centre of Software Development Lifecycle

The Genesis / Development / People



People



Security Expert



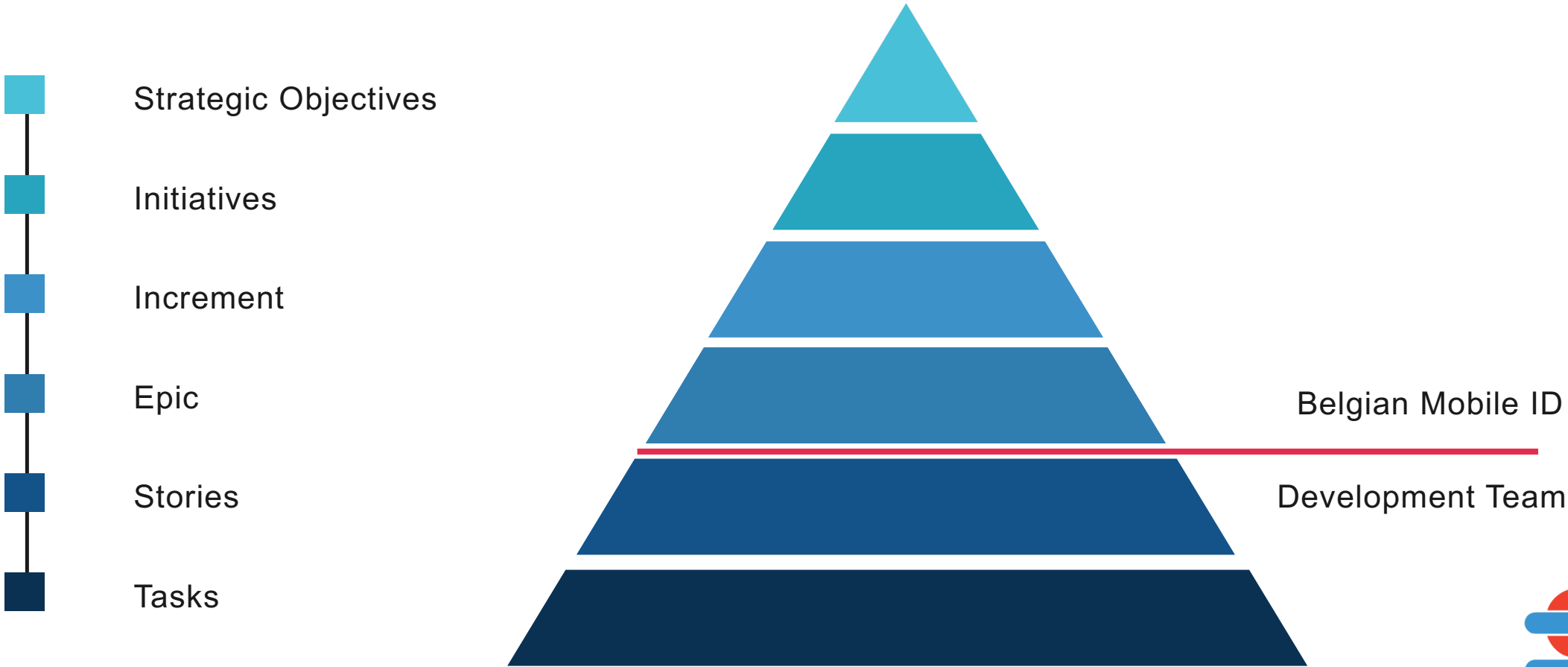
Recruitment



Training

# Keeping Security at the centre of Software Development Lifecycle

The Genesis / Development Process

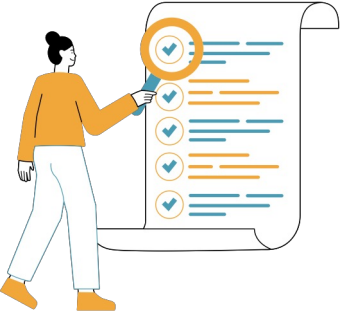


# Keeping Security at the centre of Software Development Lifecycle

The Genesis / Development Processes



Security Review



Definition of Done  
Peer Code Review  
Quality Gates



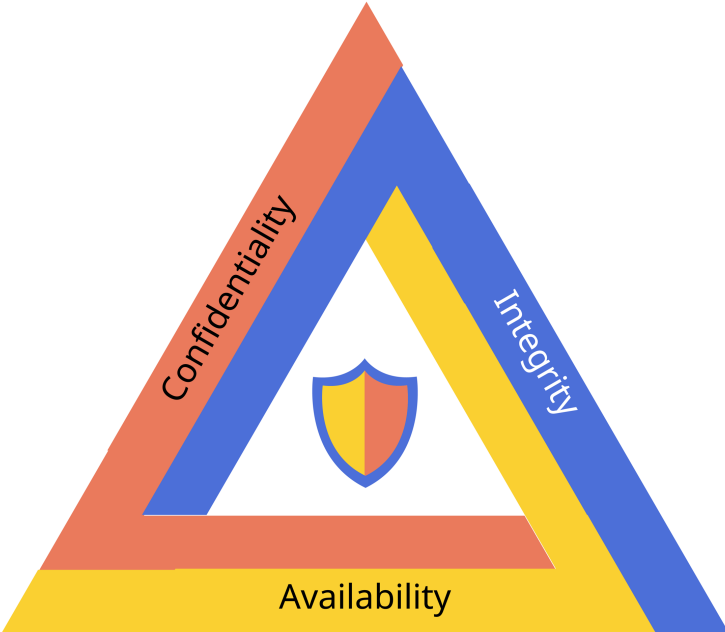
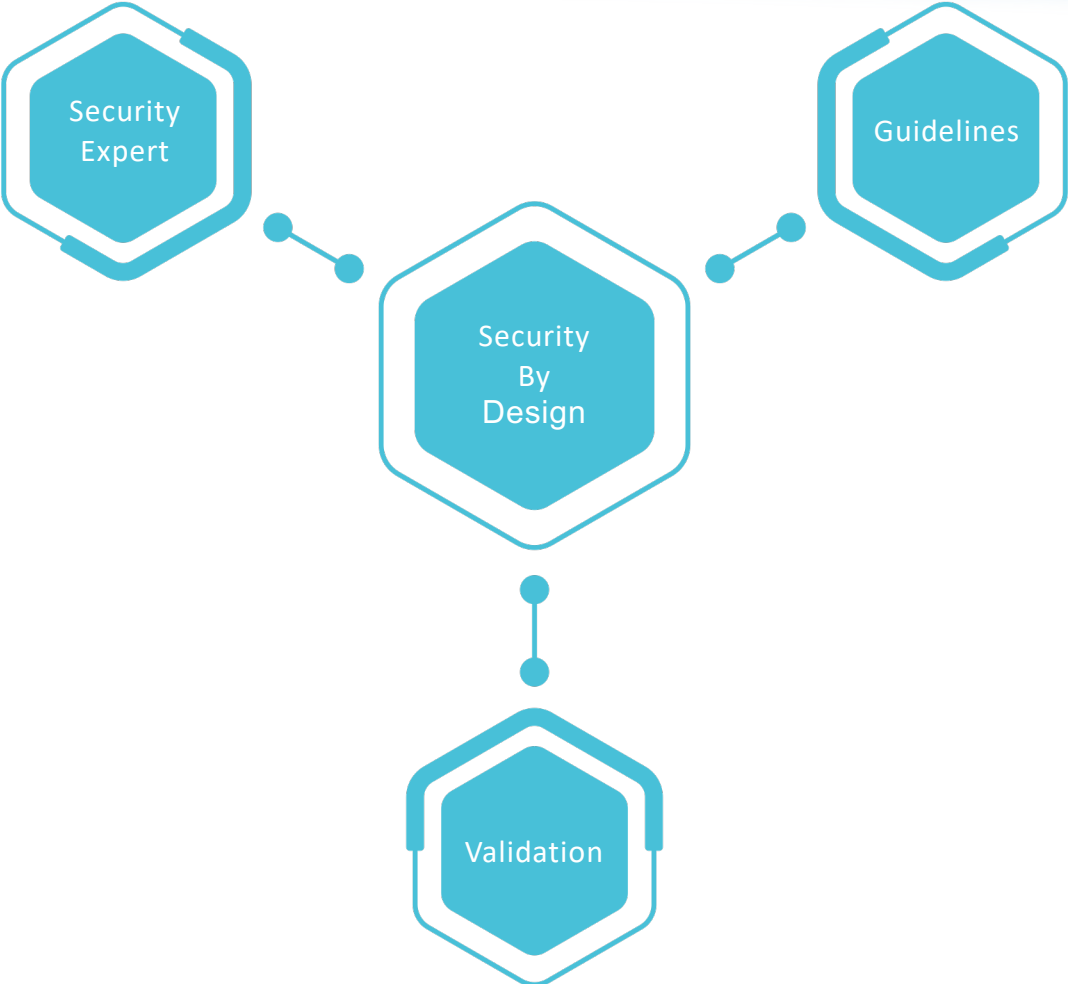
Merge Control



Extensive Testing

# Keeping Security at the centre of Software Development Lifecycle

The Genesis / Development / Security By Design





# Keeping Security at the centre of Software Development Lifecycle

The Genesis / Tools



# Keeping Security at the centre of Software Development Lifecycle

The Genesis / Static Analysis



**Initial Set-Up**

**Improvements**

**Adjustments**

# Keeping Security at the centre of Software Development Lifecycle

- The Genesis
- Ideas vs implementation
- New features
- Architecture changes
- Security evolution
- Operational Security



# Keeping Security at the centre of Software Development Lifecycle

Ideas vs Implementation

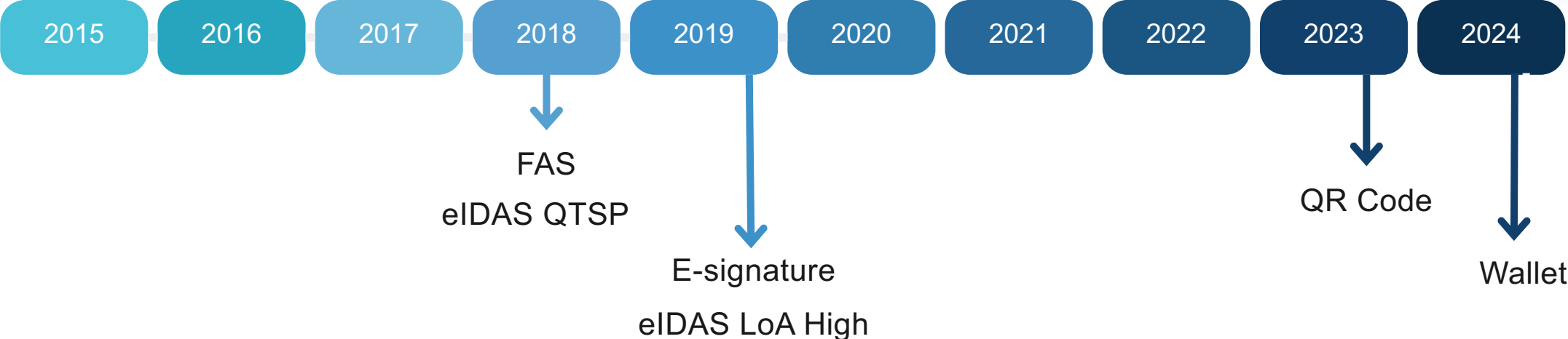


- Technical Constraints
- Business Changes
- Security Impact Assessment



# Keeping Security at the centre of Software Development Lifecycle

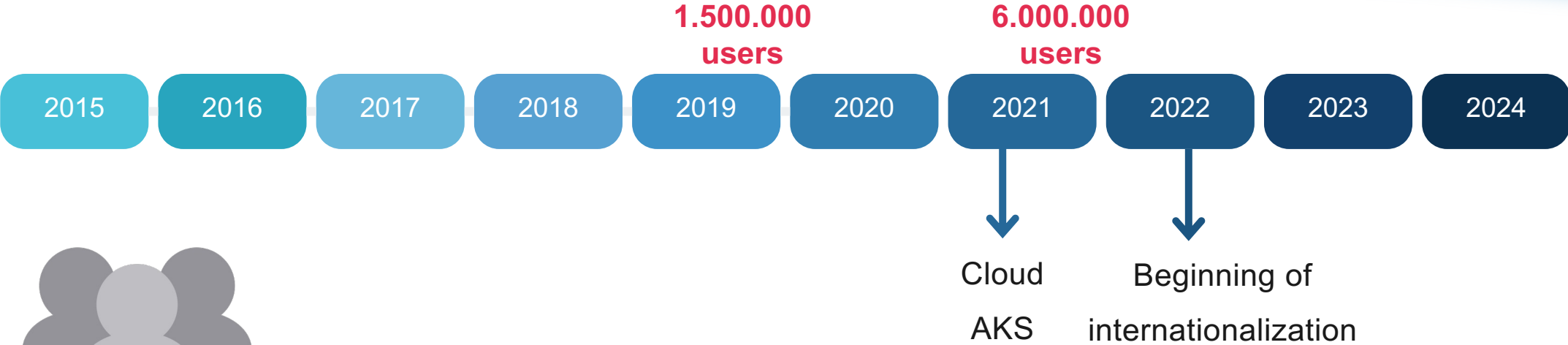
## New Features



By adopting a security mindset from the start, these new features didn't have too much impact on the existing architecture.

# Keeping Security at the centre of Software Development Lifecycle

## Architecture Changes

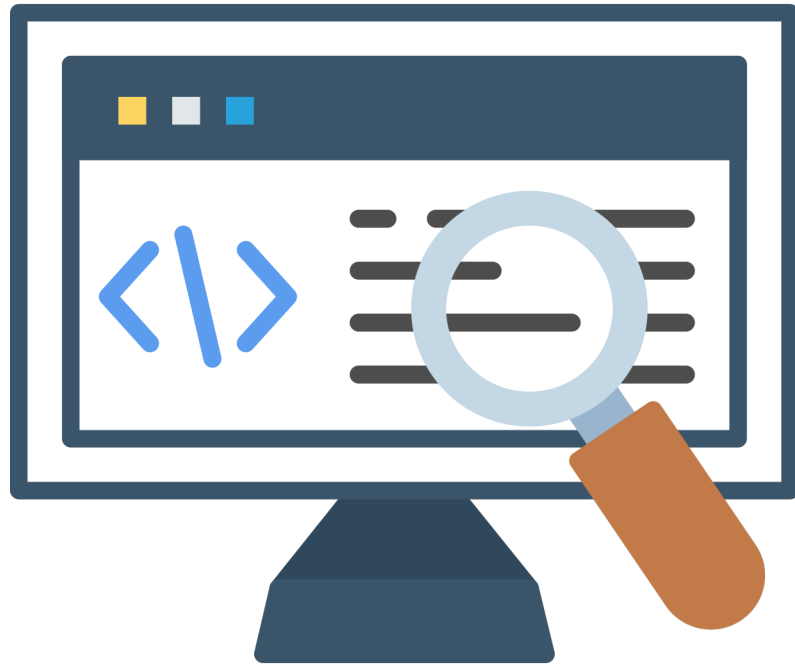


As the number of users grows, it is important to adapt the architecture too.

A new feature may also require fundamental changes to the architecture.

# Keeping Security at the centre of Software Development Lifecycle

Security Evolution : Code Security



OpenAPI Specs Validation

Dependency Management

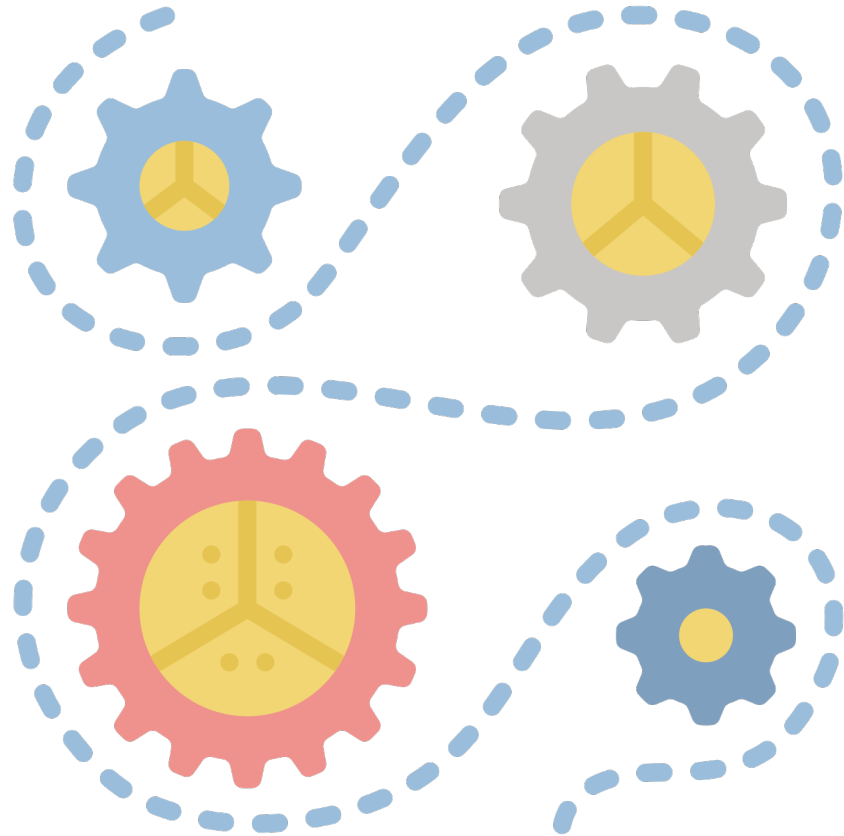
Artifactory

Software Composition Analysis

Image Scanning

# Keeping Security at the centre of Software Development Lifecycle

Security Evolution : Builds & Releases

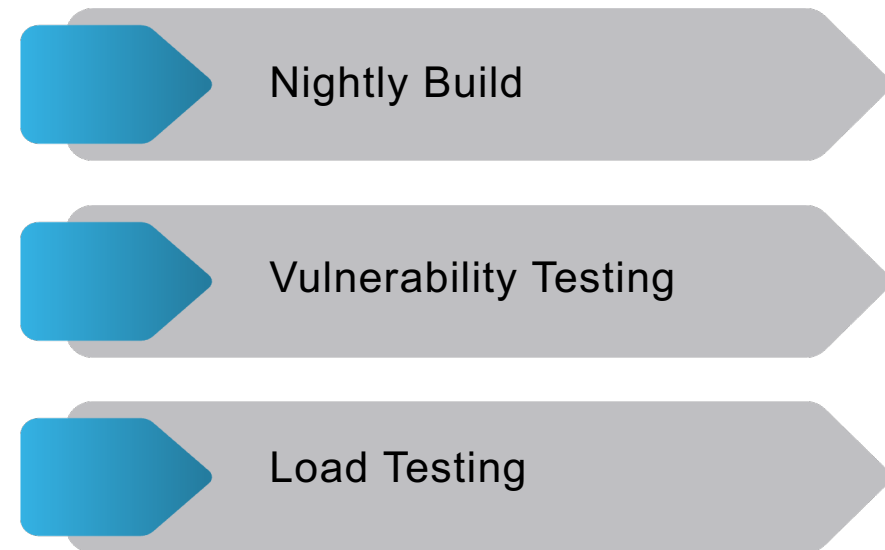


- Standardisation of Builds
- Dependency Versioning
- Azure DevOps Deployments



# Keeping Security at the centre of Software Development Lifecycle

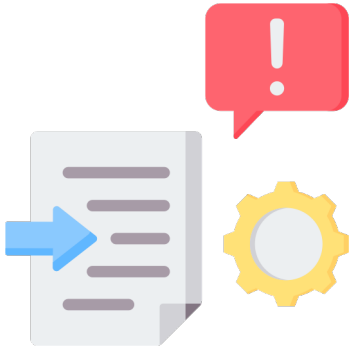
Security Evolution : Testing



# Keeping Security at the centre of Software Development Lifecycle

## Operational Security

### Operational



Log Management

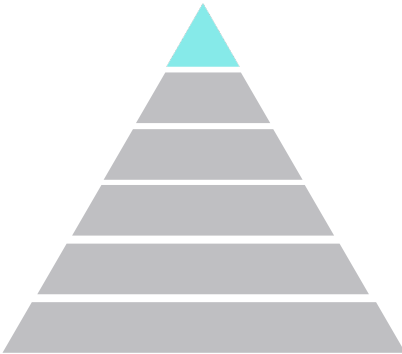


Intrusion Detection /  
/ Fraud Detection /  
Monitoring / SOC



Production Image  
Scanning

### Processes



Security  
Strategic  
Objective

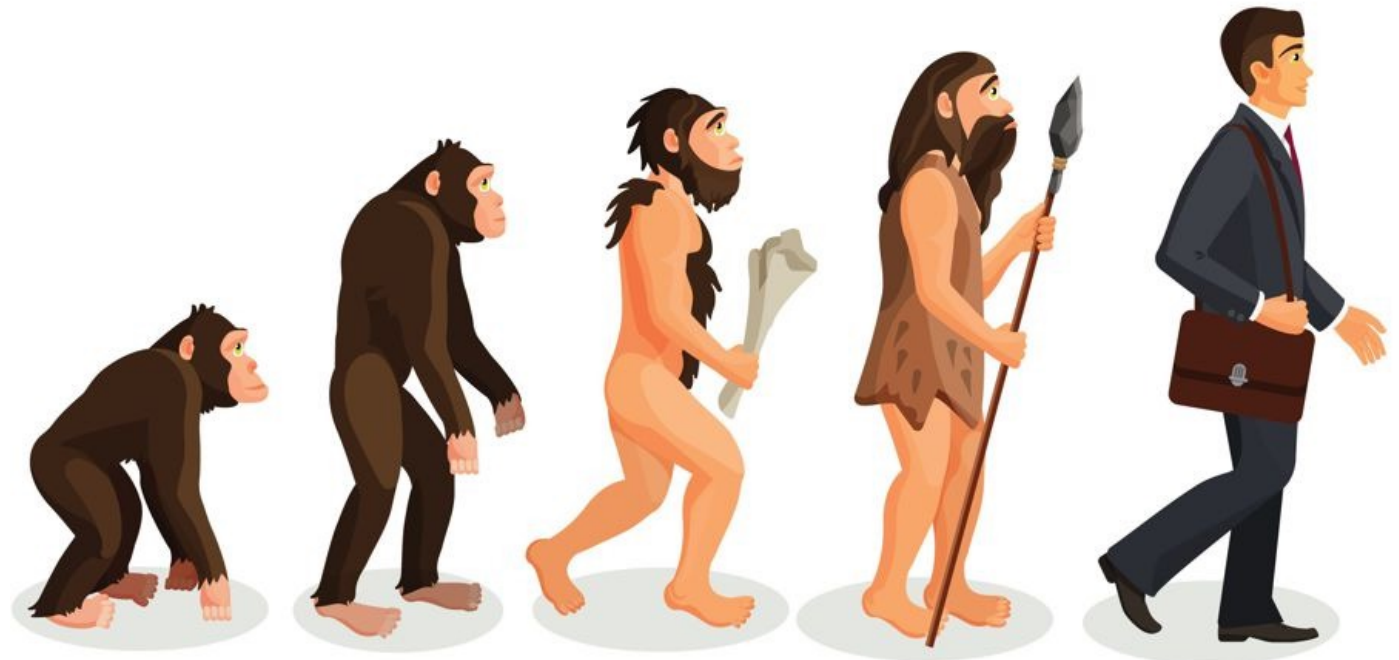
# Keeping Security at the centre of Software Development Lifecycle

## Conclusion

Application Security is not a one-off activity, it needs to evolve!

It includes many elements:

- Security By Design
- People
- Processes
- Tools



No-Nonsense

# Security Centric Application Development: the **itsme**<sup>®</sup> use case



Thank you! **Questions?**

**Approach Belgium** – Louvain-la-Neuve, Antwerp

**Approach Switzerland** – Lausanne

Contact me



+32 10 83 21 11



[sales@approach-cyber.com](mailto:sales@approach-cyber.com)



[www.approach-cyber.com](http://www.approach-cyber.com)



[LinkedIn](#)

