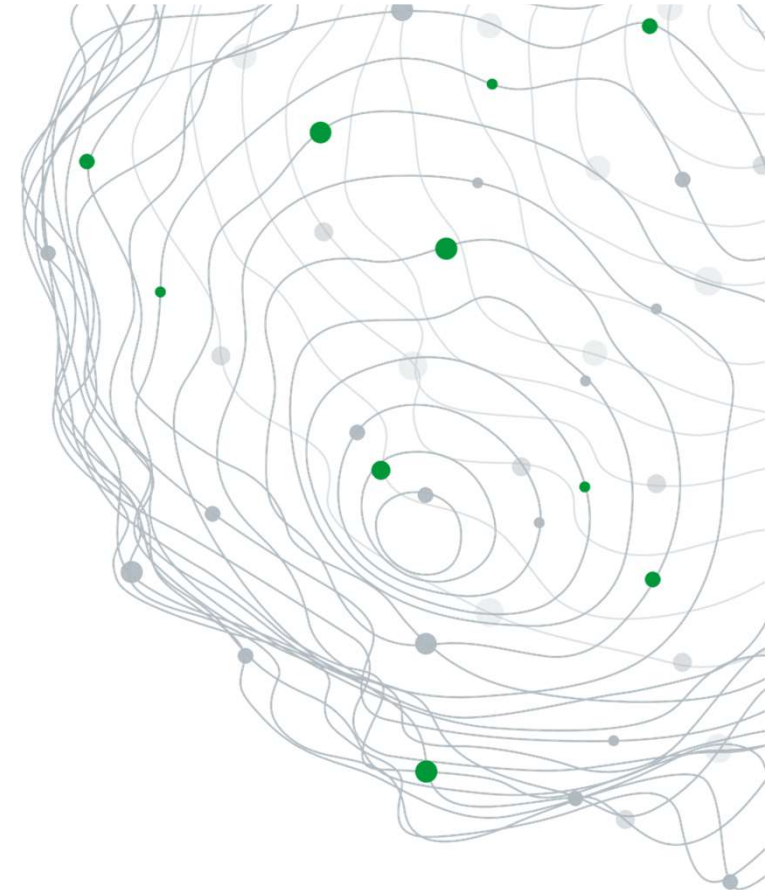


CASE: TAX FINLAND SEAMLESS TESTING IN THE BEST PROJECT IN FINLAND

Annastiina Norppa & Emmi Ovaska

23.11.2021





Speakers



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Agenda

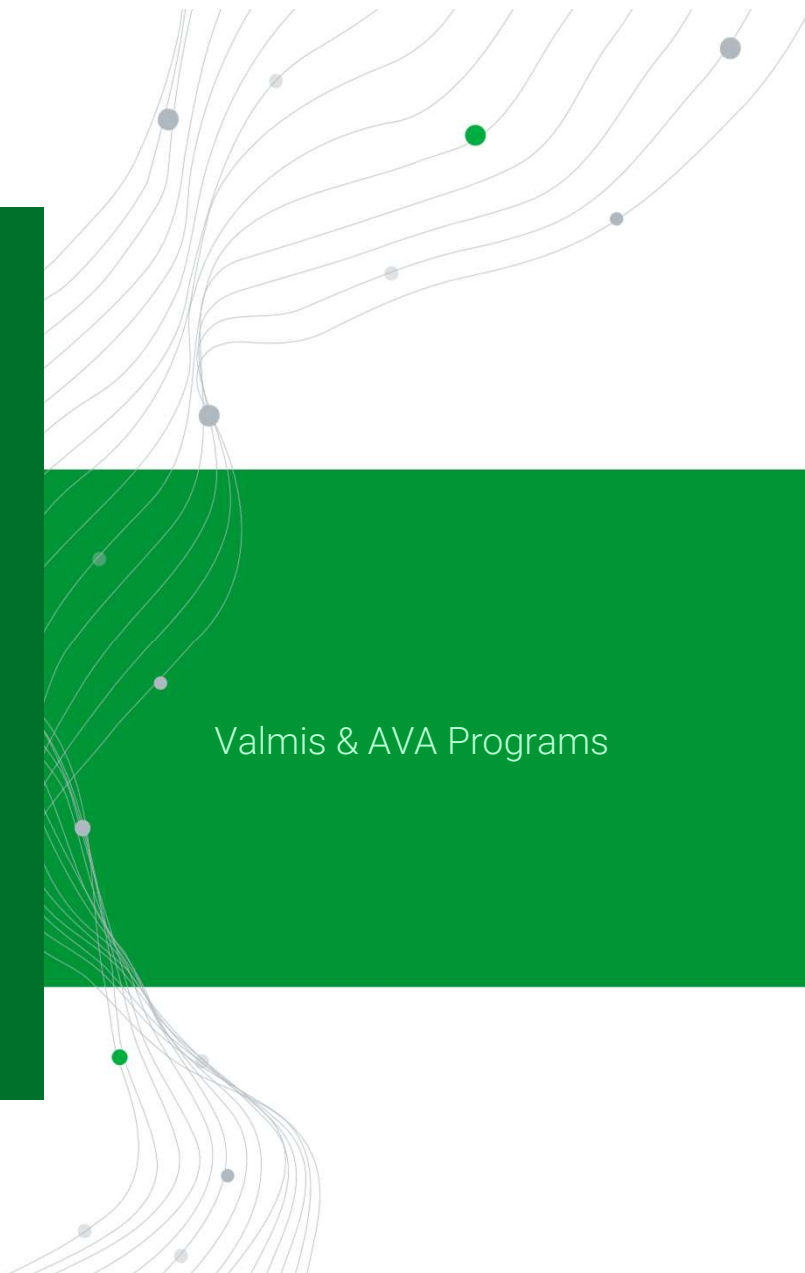
- 1 Case Tax Finland – Introduction
- 2 Seamless Testing
- 3 Key Takeaways
- 4 Discussion Time



THE BEST PROJECT IN FINLAND IN 2020

Project Introduction

Valmis & AVA Programs



IT System Transformation Project

In collaboration with FAST, Nortal experts tailored a new system according to the needs of Tax Finland. A new customer interface, the OmaVero service was created, and a separate interface was built for the tax officers.

2013-2020

In the largest transformation project in its history, Tax Finland reformed the entire Finnish tax system.

1

**CENTRALIZED
IT SYSTEM TO
MANAGE TAXATION
PROCESSES**

**15-20M€
REDUCED COSTS
ANNUALLY**

2020

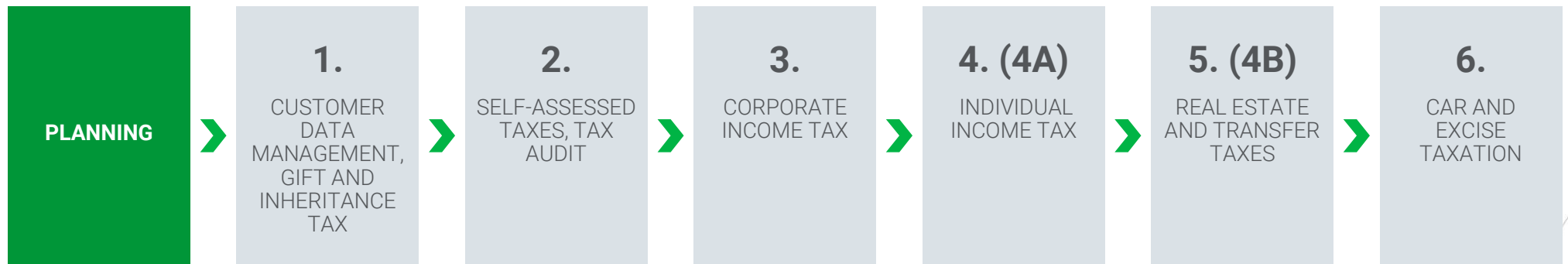
**PROJECT OF THE
YEAR AWARD
IN FINLAND**

2021

**2nd BEST PROJECT
IN THE WORLD**



Implementation Projects



The name for projects from 1 to 5, "ready" or "done" in Finnish

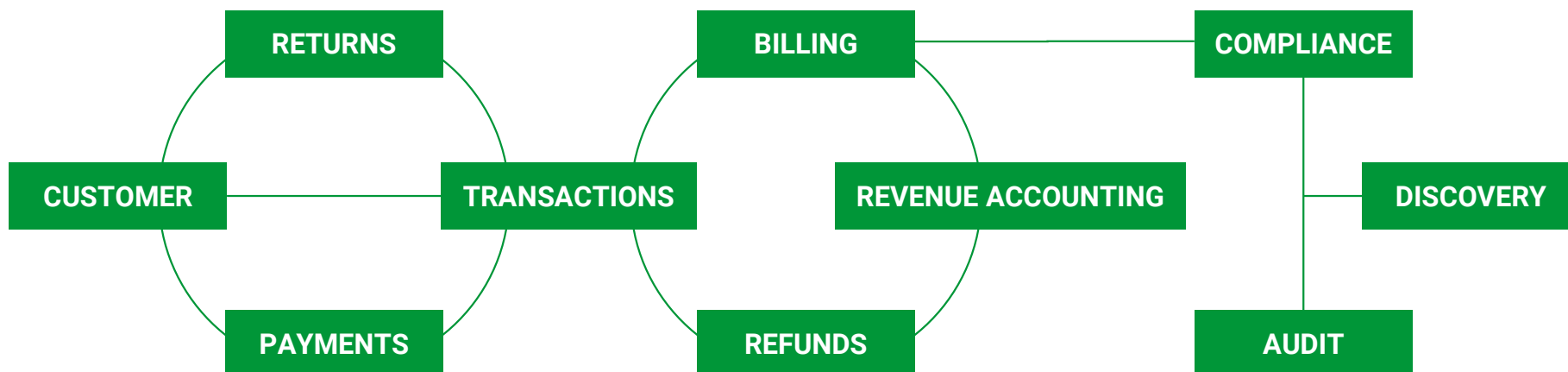


*The name for project 6, abbreviation for Auto-
ja Valmisteverotus (Car and Excise Taxation)*

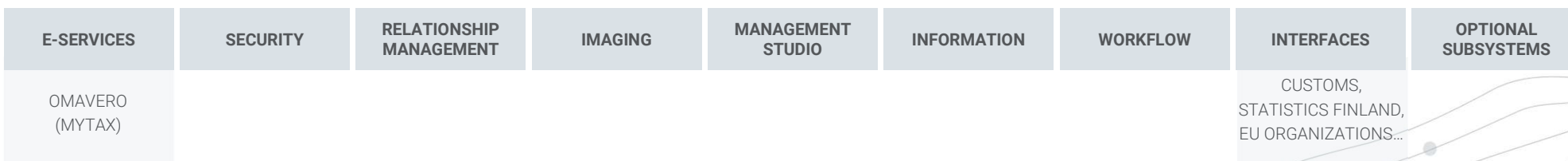


Gentax Pipeline

CORE PROCESSING



SUPPORT FUNCTIONS





THE BEST PROJECT IN FINLAND IN 2020

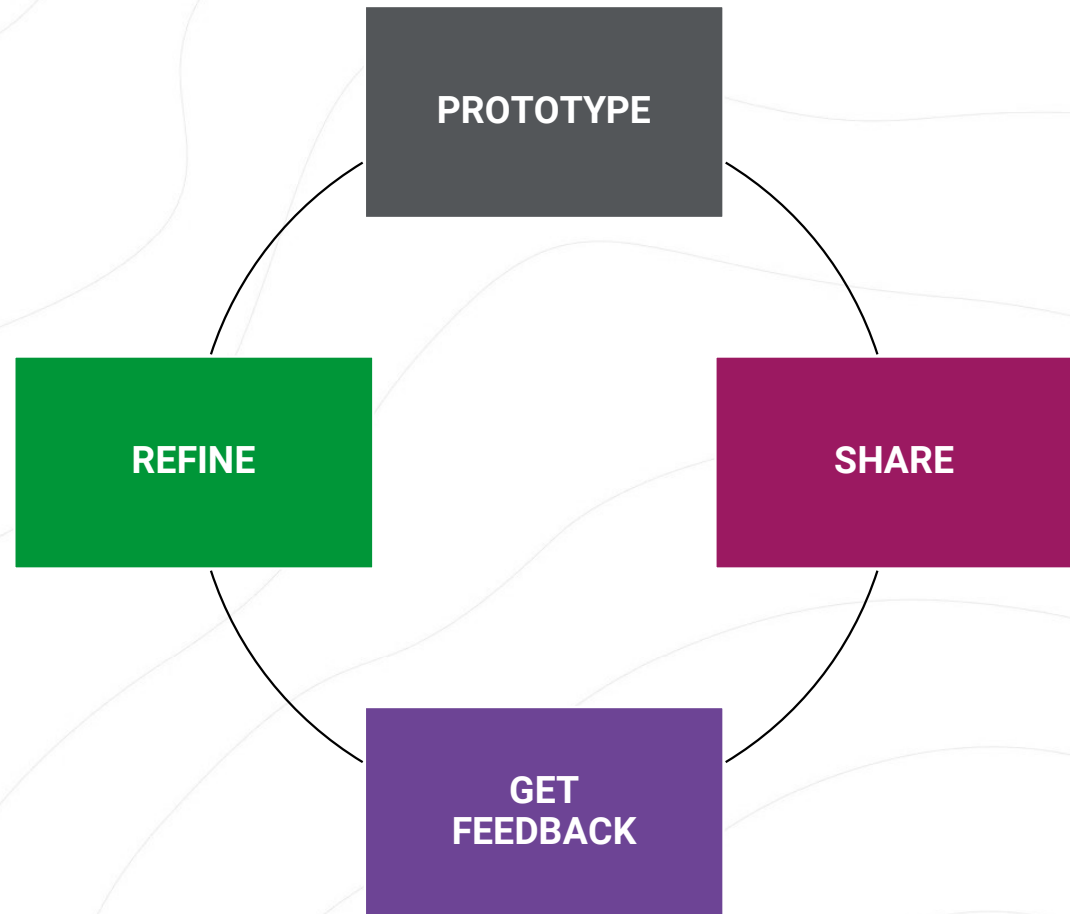
Seamless Testing

Approach, Timeline, Automation,
Organization, Tools



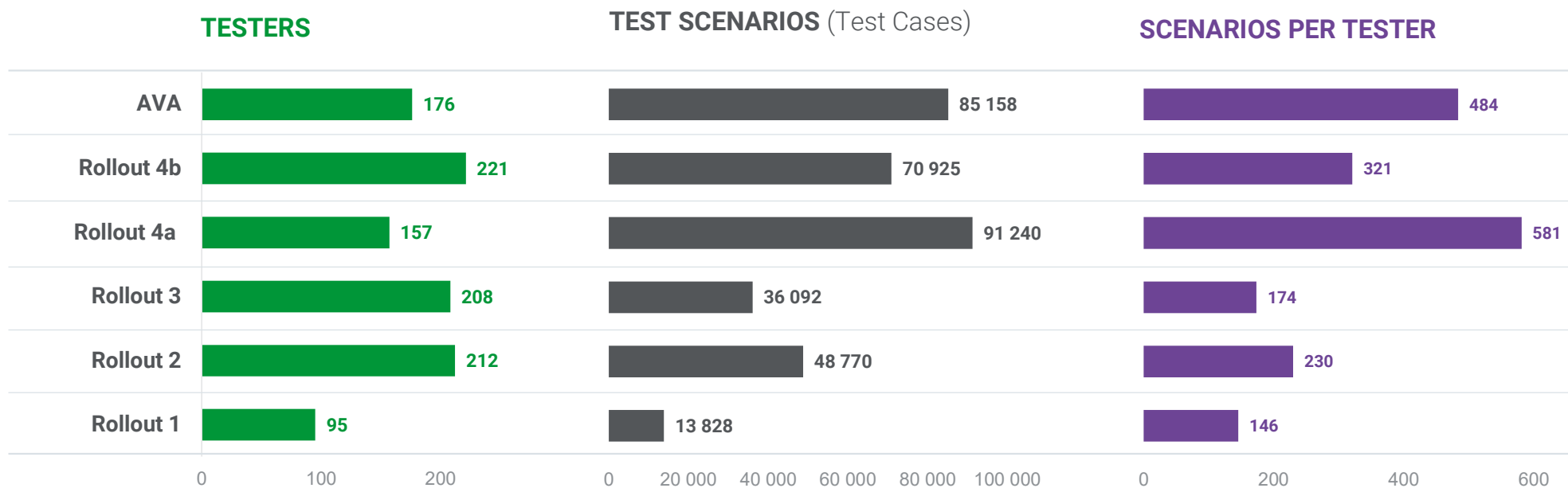
GenTax Testing Approach

- Iterative testing approach
- Collaborative
- Software-focused
- Business oriented
- Testing is completed by end users



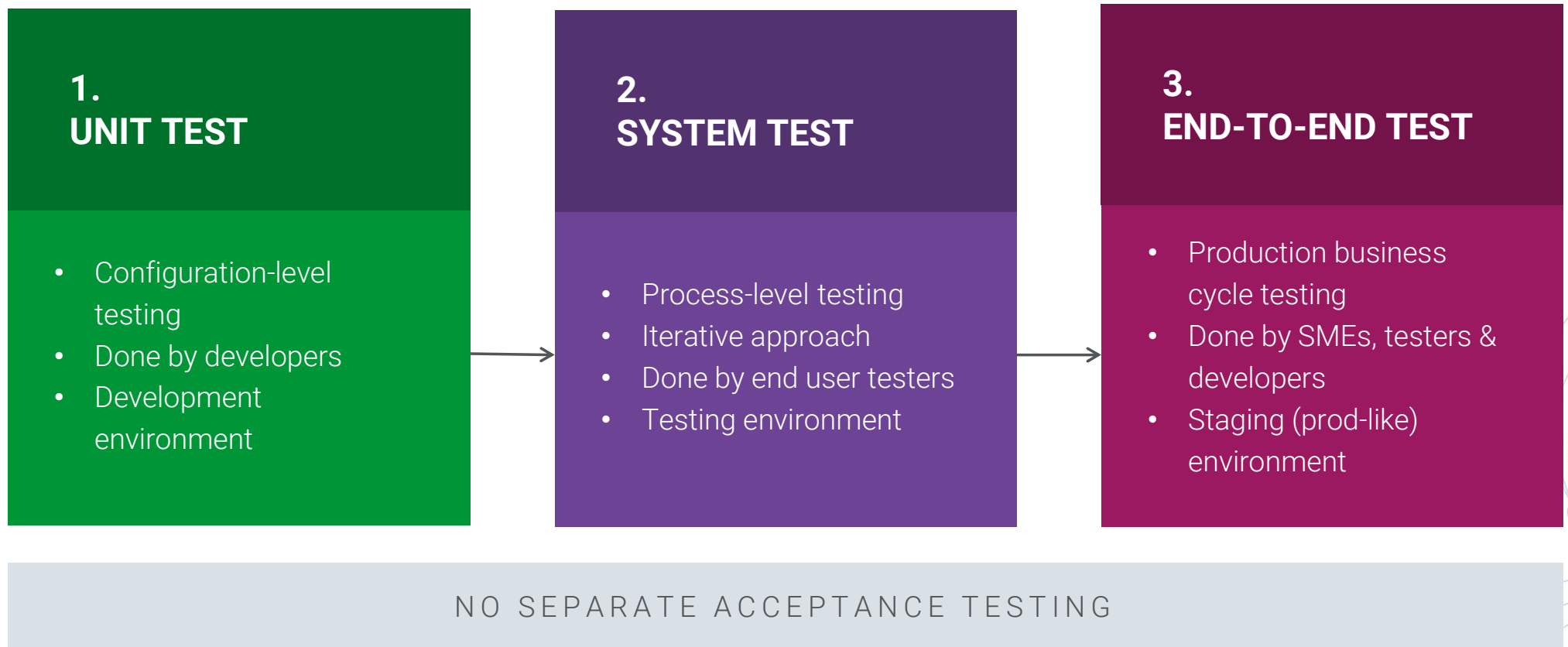


End Users as Testers





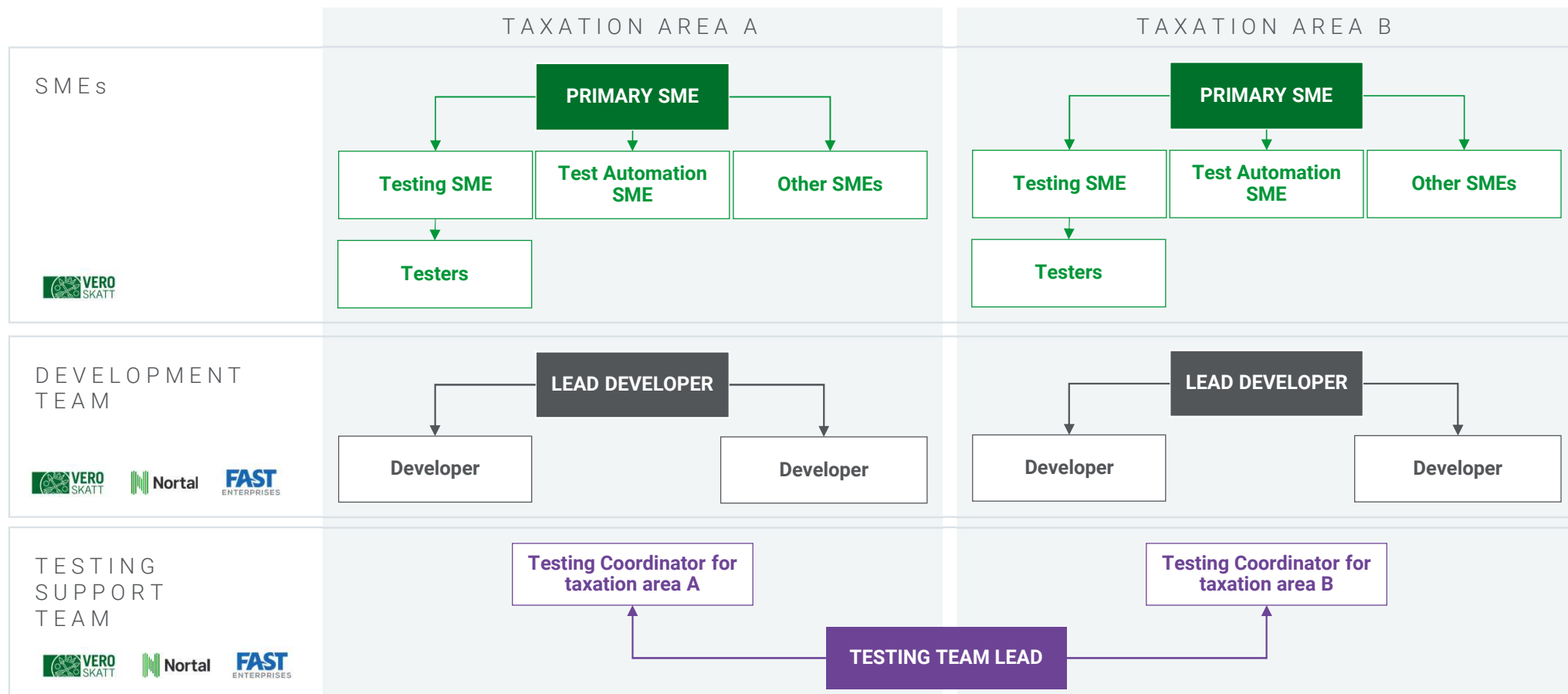
Main Testing Phases







Organization and People





Roles and Responsibilities

DEVELOPERS

- Developing
- Unit testing
- Bug fixes
- Scenario reviews

TESTING COORDINATORS

- Testing management
- Training
- Scenario reviews

TESTING SMES

- Testing management
- Bug classifying
- Scenario reviews

TESTERS

- Testing
- Bug reporting
- Test scenario writing



How to Test Gentax?

- **Test environments**
- **Migrations:** 3 times a day
- **Slices** = user's own database
 - Simultaneous testing
 - Job streams
- Test data **built by testers**
- **Run Date** = allows users to run the system in any given date



Test Automation (TA)

- Target to decrease manual regression testing done by end user testers
- Separate partners: Tietokarhu & Qentinel
- Robot Framework

2016 - 2020

13M+
TESTS RAN IN
AUTOMATION

5000

TA SCRIPTS RUNNING
IN THE END OF
AVA PROGRAM

TEST AUTOMATION PROCESS IN SHORT:

**Business
decides
scope**



**TA SMEs
write
scenarios**



**TA
Specialists
script the
scenarios**



**Robots run
tests nightly**



**Results are
available the
next day**

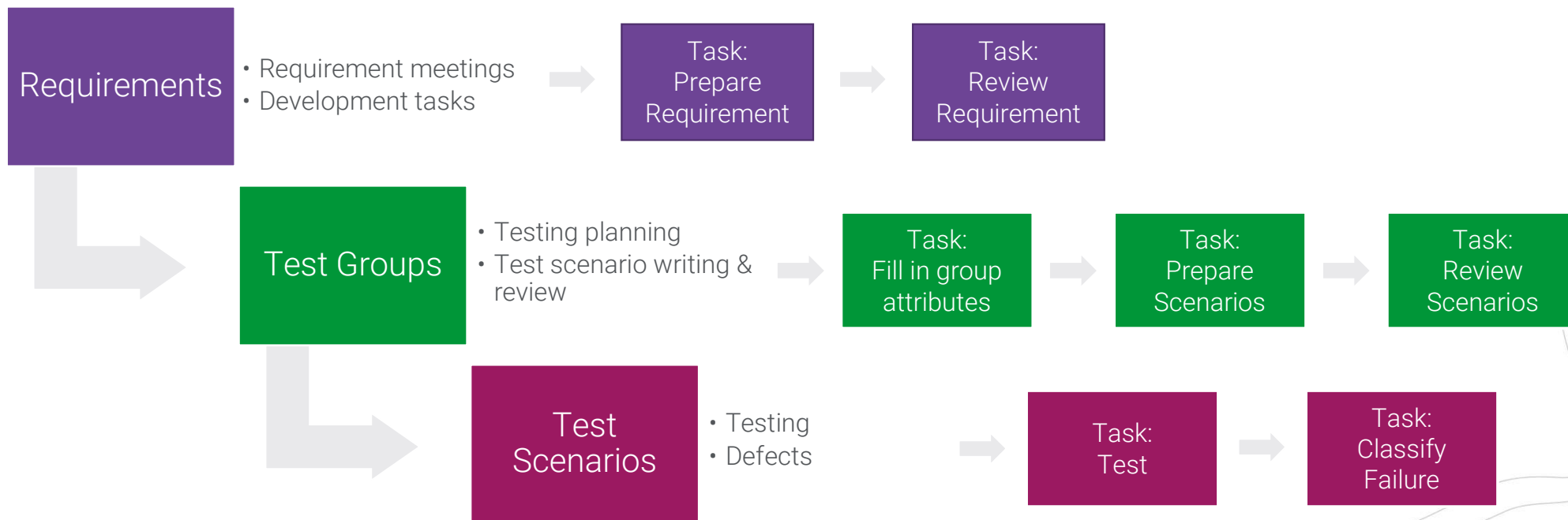


**Possible
findings are
reported &
fixed**



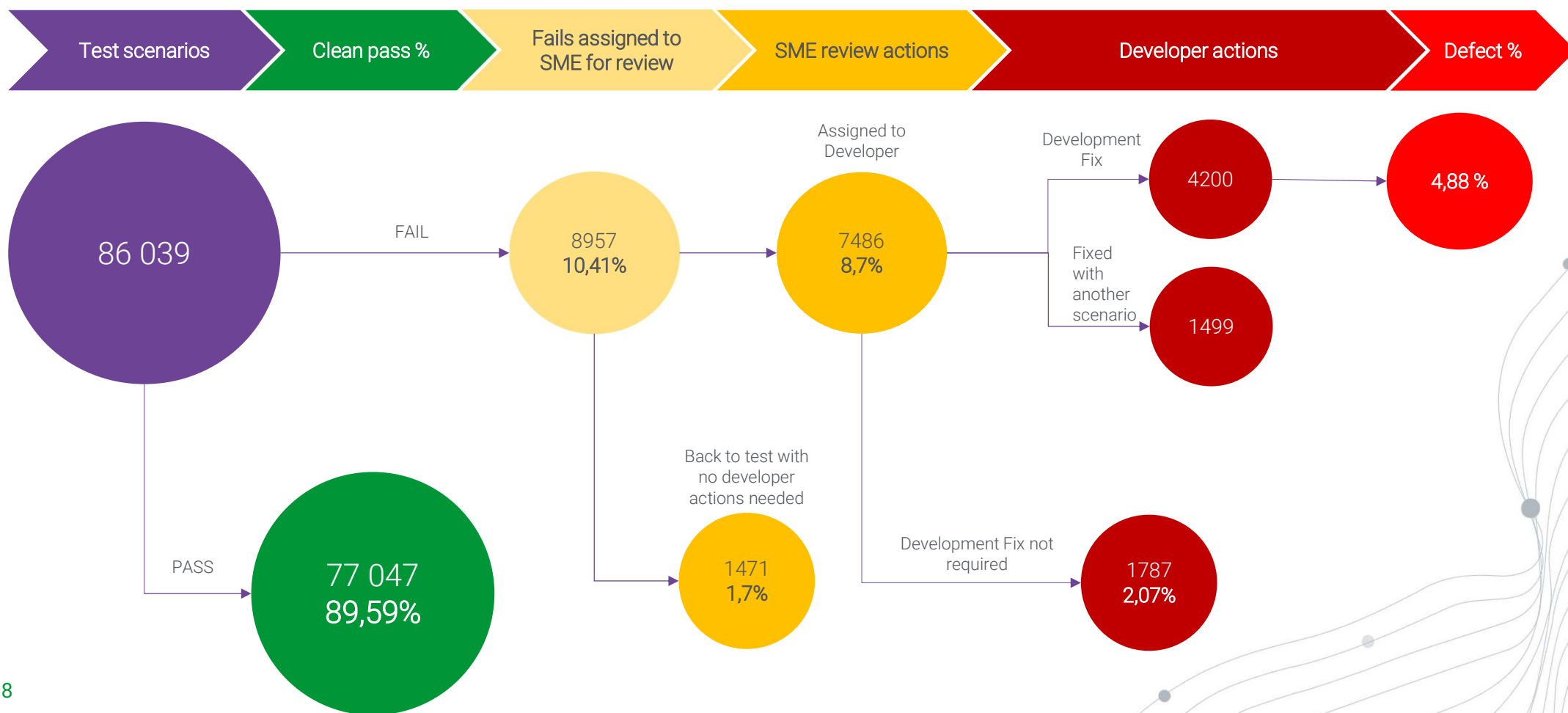
Testing Tool & Traceability

Testing is managed in Fast's own project management tool, FCR = Fast Code Repository.





Defect Management & Quality Tracking





THE BEST PROJECT IN FINLAND IN 2020

Key Takeaways

What have we learned?



Success Factors

1. Shift left - importance of planning and review
2. Communication & documentation
3. Continuous improvement
4. Clearly defined roles
5. Good testing management tool & possibility to customize according to project needs
6. Strong team commitment & spirit



Speaking of Team Spirit...





Discussion Time



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