

CitySCAPE

Amedeo D'Arcangelo – Kaspersky

Luca Bianconi – Gruppo Sigla

Fabio Podda - AMT

CSET Conference – September 15, 2021

Project at a Glance

































- Call identifier: H2020-SU-DS-2019
- **Topic**: SU-DS05-2018-2019 Digital security, privacy, data protection and accountability in critical sectors
- **EC Funding:** 6 293 011,25 €



- **Duration**: 36 months 1 Sep 2020 → 31 Aug 2023
- **Consortium**: 15 partners
- **Coordinator:** Institute of Communication and Computer Systems (ICSS), Greece – Dr. Angelos Amditis (a.amditis@iccs.gr)
- **Learn more**: www. cityscape-project.eu
- Join us: ♥ @ EUCityscape in CitySCAPE Project

CSET Conference

Genova Use Case - Some details



Focus on **2 transport scenarios**:

- ✓ Information to passengers (*info-mobility*),
- ✓ Electronic and mobile ticketing

considering **electronic services** (e.g., website or mobile application) provided to the public transport users

For each scenario several micro-use cases are analyzed addressing very specific situations

Info-mobility

- ✓ Waiting time at the stop
- ✓ Service schedule
- ✓ Waiting time of the next train
- ✓ Metro Station info-mobility
- ✓ Notifications to passengers on service update

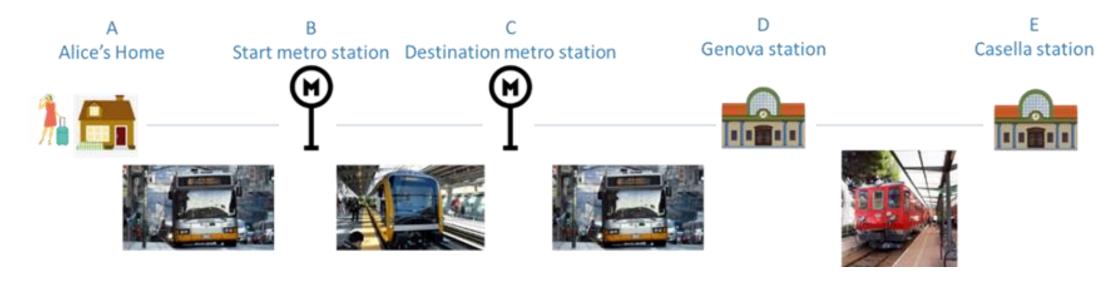
Ticketing

- ✓ Ticket from the mobile app
- √ Validating a mobile ticket
- √ Ticketing City-Pass subscription
- √ Validating a City-Pass subscription ticket
- ✓ Ticketing Using Urban Train

3

Genova Use Case - Some more details





2 macro-scenarios combining all the micro-use cases

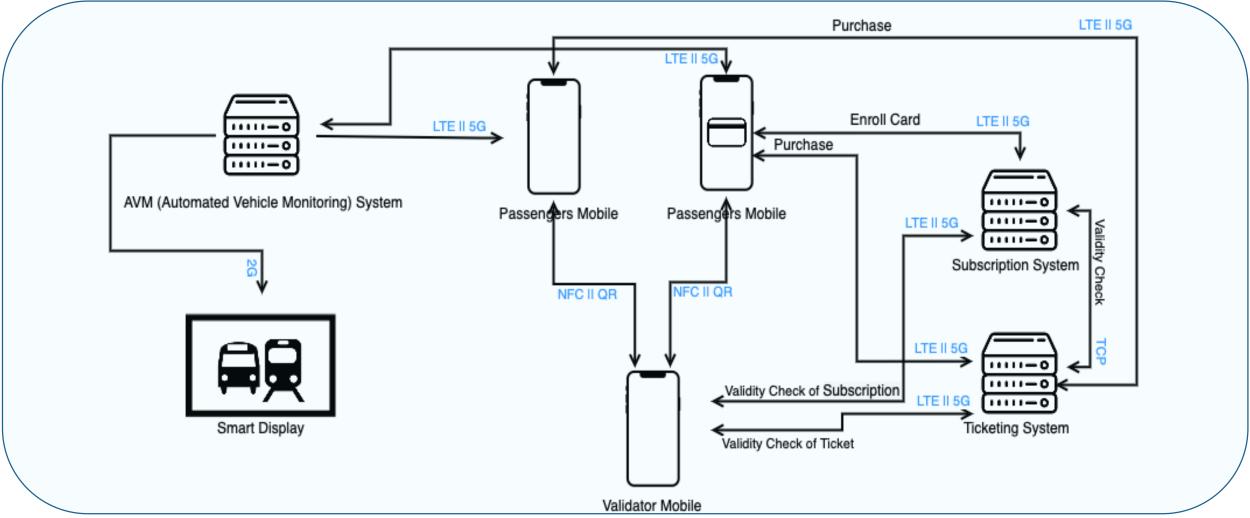
- 1. All the steps for the transport of a passenger from their home in Genoa to Casella using public transportation
- 2. Re-plan scenario during her trip, an event of a "technical problem" disrupts the provided service, so the passenger has to reschedule and re-arrange paths

4



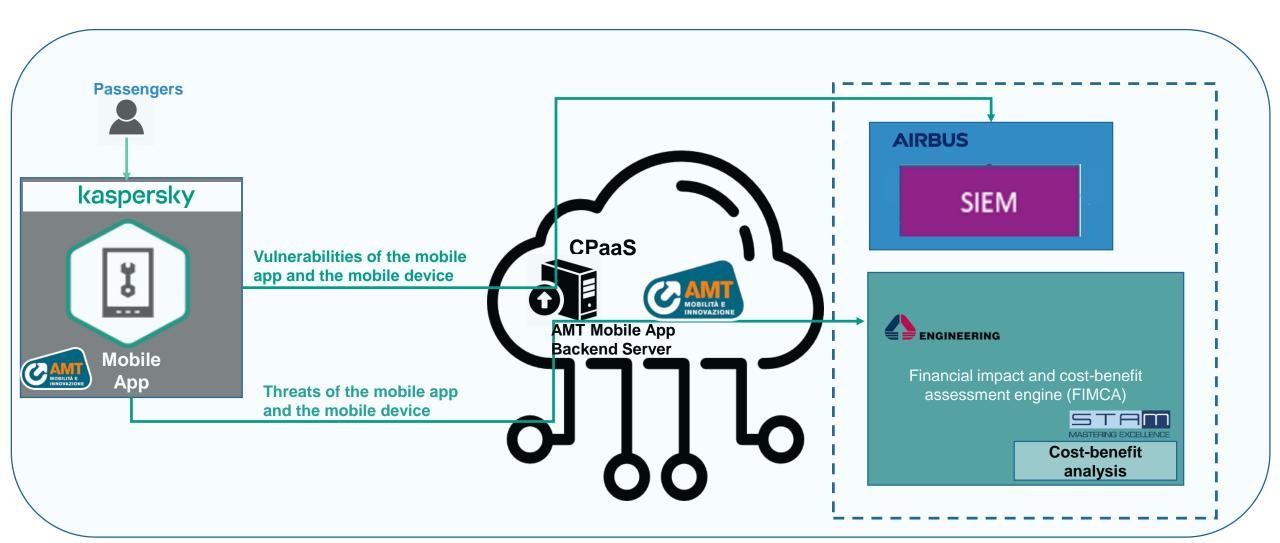
Use case infrastructure High-level Architecture





Kaspersky Mobile Security SDK and the AAAA **AMT Genova Mobile App**





KMS – SDK for iOS & Android Integrating security measures in the AMT mobile apps













Assessing device

Protecting device

Securing connection

Securing data

Protecting apps

Risk Detection

- ✓ Root detector.
- ✓ Insecure settings detector.
- ✓ Unknown apps detector.*
- ✓ Malicious apps detector.*

Device Protection

✓ On-Access scanner*.

Web & Network Protection

- DNS spoofing checker.
- CertificateValidation.
- ✓ Wi-Fi Safety Analysis.
- Website reputation analysis.

Data Protection

- Secure Input technology vs Keyloggers.
- Secure storage for sensitive data.

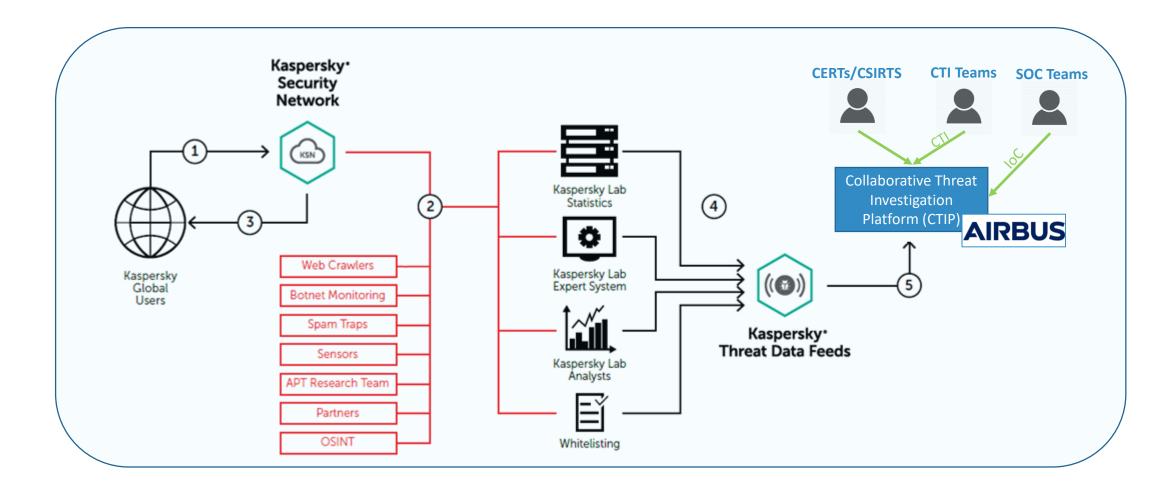
Self Defense

- ✓ Protection from 3rd party exploitation*.
- Method implementation replacement detector*.
- ✓ Digital signature verification*.
- Debugging detection*.

^{*} Feature available only for Android

Kaspersky Threat Data Feeds and the CitySCAPE Collaborative Threat Investigation Platform (CTIP)





Kaspersky CyberSafety Management Games

Target Audience

- ✓ Onsite edition:
- ✓ AMT administrative area employees.
- AMT operational area employees.
- ✓ On-line edition:
- ✓ More than 50 regular passengers (Genoa + Tallinn).



Financial impact

assessment engine

Collaborative

threat



kaspersky



SIEM as a Correlation engine with backlog of markers

Risk analysis

and impact

Collaborative security incident response platform

Training for Genova Use Case



kaspersky

Training employees to:

- ✓ Prevent success of attackers because one click is all it takes to overcome hardware and software defenses
- ✓ Shape an organization into one where employees are part of the defense strategies
- ✓ Protect business (brand image and services)



10

Expectations



- ✓ Prevent attacks to critical IT infrastructures and assets via an integrated risk assessment
- ✓ Defend organization against novel cyber attacks by recognize them on time
- ✓ Improve the cybersecurity awareness of the company employees
- ✓ Prevent fraud on ticketing by using innovative solutions both on the IT infrastructure and on the mobile phone

Any questions?

Thank you!

kaspersky







amedeo.darcangelo@kaspersky.com luca.bianconi@grupposigla.it fabio.podda@amt.genova.it

