



INTERNET OF THINGS WEEK 2018 BILBAO

TagltWine pilot system implemented in the context of H2020 TagltSmart project

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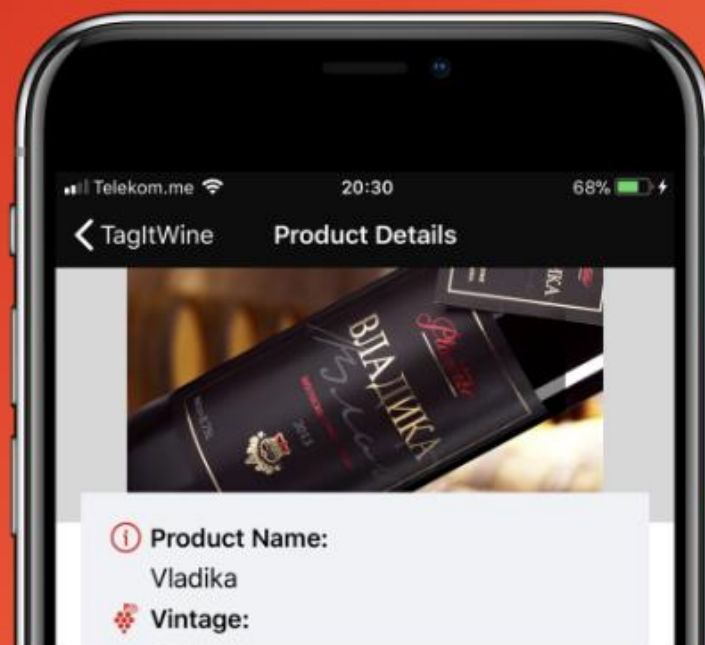
Bilbao, June 2018.



Horizon 2020
European Union funding
for Research & Innovation

TagItWine – Know Your Wine

Pilot Project for Brand Protection and Anti-Counterfeiting in Wine Industry



<http://TagItWine.ME>



TagItWine Concept



Project Highlights

- Realized by **University of Donja Gorica**
- Done in context of **TagItSmart** technology
- **Partnership** with company “**13. jul Plantaže**”
- **Collaboration** with **DunavNET, Durst, VTT**
- **Smart Tags** and Applied Computer Science
- **Internet of Things**, Cloud, Mobile apps, Blockchain



Counterfeiting in wine industry

- Countefeit wine market etimates range between 0.2 and 1%, some go up to **4-5%**
- Using **fake labels** with subtle changes in brand name and/or company logo
- Using **authentic labels** removed from more expensive wines and place them on cheap wine
- Forbes: **up to 50%** of wine in China may be fake, not wine
- “13. jul Plantaže” company produces over **17 million bottle products** annually sold in **35 countries** world wide

Problem

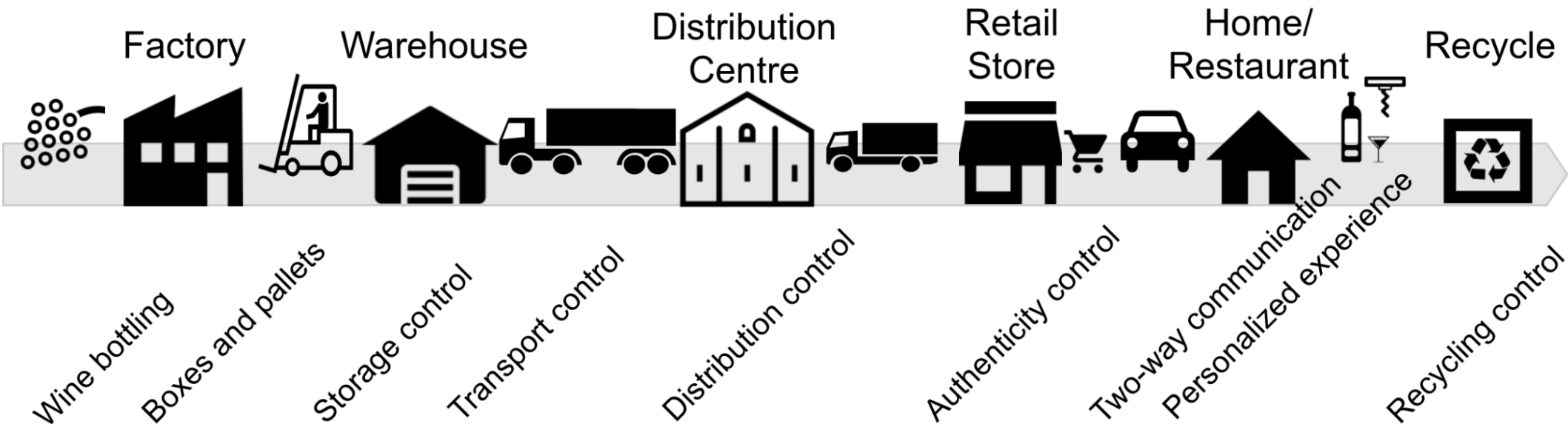
- Brand protection and counterfeit prevention
 - Real problem, big challenges
 - Examples of fake wine labels



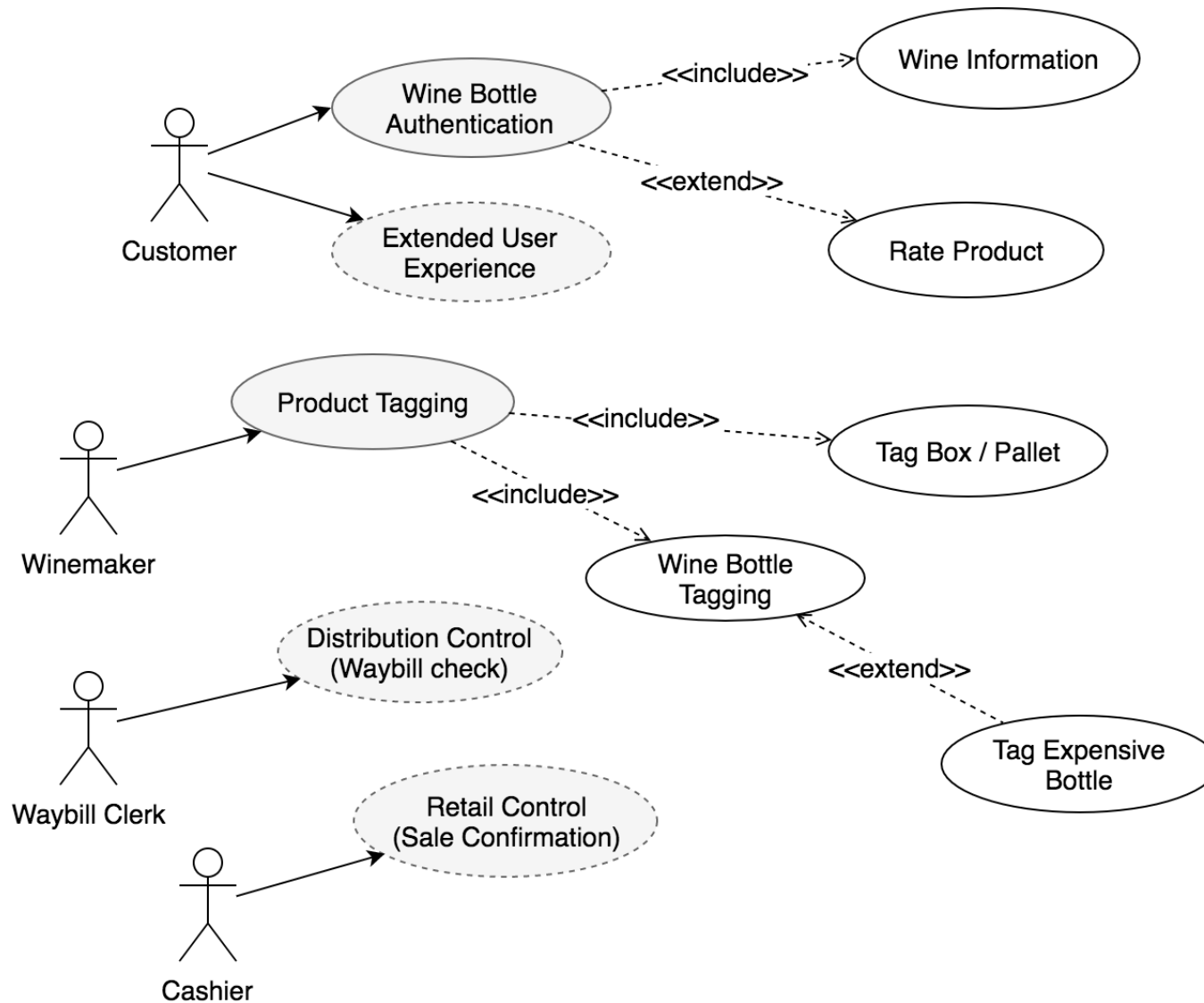
(Source: "13. jul Plantaže")

TagItWine Pilot

TAGIT WINE - SYSTEM FOR BRAND PROTECTION AND ANTI-COUNTERFEITING IN WINE INDUSTRY

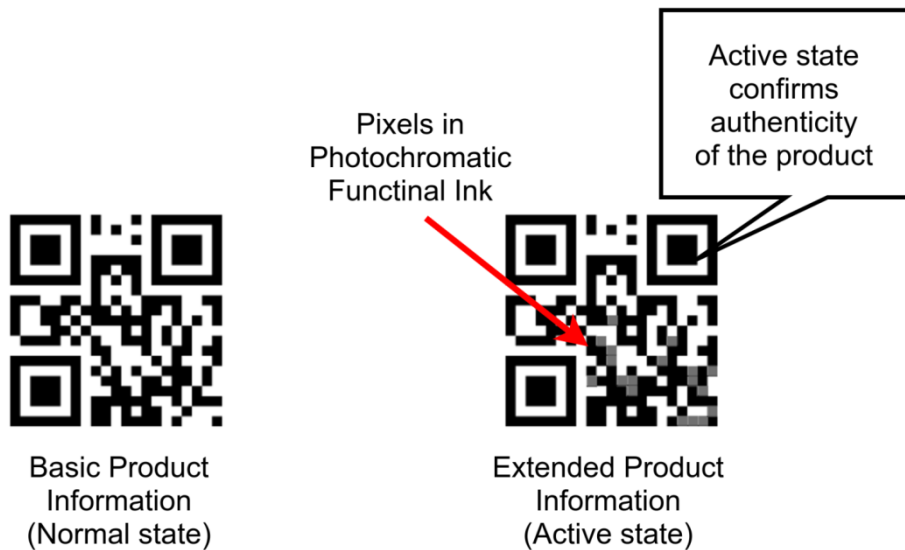


TagItWine: Functional Overview



Smart & Fun Tags

- Functional ink
- OpenSense dual-state NFC tags



Source: Business wire

Smart Tags Design

- QR code + a **letter** print in **photochromic ink**
- Tag information combined with **user input**
- Intelligent **heuristics** on the **Cloud**

Inactive
State

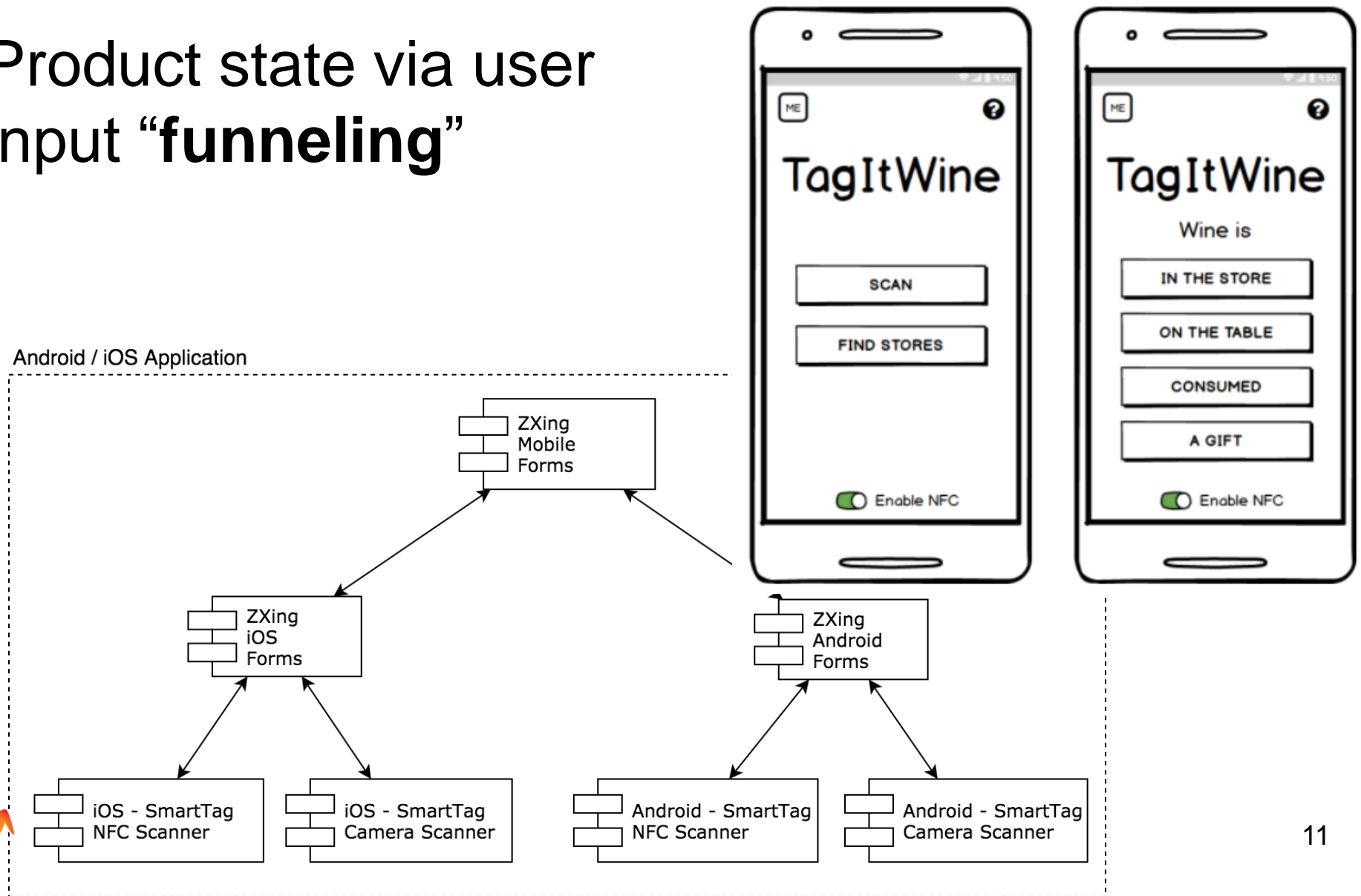


Active
State



Human Sensor Network

- Product state via user
- input “**funneling**”



Cloud

- Smart Tag **validation**
- Pattern recognition support (letters)
- Match verification **QR code** vs. functional ink **print**
- Seamless product status/**state tracking**
- **Authentication** using advanced **heuristics**
- Use of **Blockchain** distributed database
- **Additional** functions (data collection, **e-card**)



- My apps
- Shop
- Games
- Family
- Editors' Choice

- Account
- My subscriptions
- Redeem
- Buy gift card
- My wishlist
- My Play activity
- Parent Guide



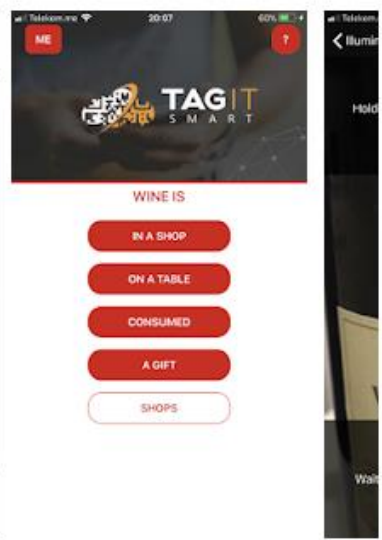
TagItWine

DNET studio Business

 Everyone

 This app is compatible with your device.

Installed



This app allows you to scan the wine before purchase and learn more about it. The system combines the information from Smart tags with the historical data in the Cloud in order to provide you with accurate status of the authenticity of each bottle. The system is based on TagItSmart technology that enables a whole new approach to brand protection and anti-counterfeiting in wine industry. This application is intended for the use with wine bottles coming from "13. jul Plantaže" that are equipped with smart tags. Smart tags combine QR code, printing with photochromatic ink, and

Similar [See more](#)



Xperia™ SmartTag
Sony Mobile Communica
★★★★☆ Free



Smart Tag Demo
AIOI SYSTEMS CO.,LTD.
★★★★☆ Free



PivotCentral Agent



Thank you!

- Questions?

