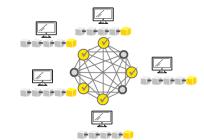
WINE BLOCKCHAIN: A NEW PARADIGM OF TRASPARENCY AND TRACKING IN WINEMAKING PROCESS





Blockchain technology

The Blockchain is a **public and distributed register** shared among different participants of a **peer-to-peer network**. The name of blockchain is related to a chain of **blocks chronologically ordered** and protected by **cryptography**.



NOTARIZATION

- Immutability/non-repudiation
- Timestamping
- Cryptography



Always available auditability

TOKENIZATION

- Exchange of non replicable digital asset by mantaining privacy and security of information
- The parties do not share the infrastructure but they take advantage of full interoperability

SMART CONTRACT

- To make the exchange dynamic
- To create automatic execution of business rules when certain criteria are met





TRACKEY background

Globalization and competition increase*

30 billion litres wine global consumption within 2020

Limited awareness for Italian wines abroad

Climate change creates new competitors

Export and marketing crucial for growth and sustainability

Communication and Marketing as competitive leverage

B₂C

Communicate products to end customer

B₂B

Differentiation

along the

distribution channel

74% affected by transparency and

check the label to

verify sustainability

More transparency for export and foreign Institutions

traceability

71% available to pay a premium price

89%

wants to know Italian wine world and criteria for origin certification

Guaranteed quality and more info for business clients

Opportunities and trends

Blockchain allows to take advantage of a global interest





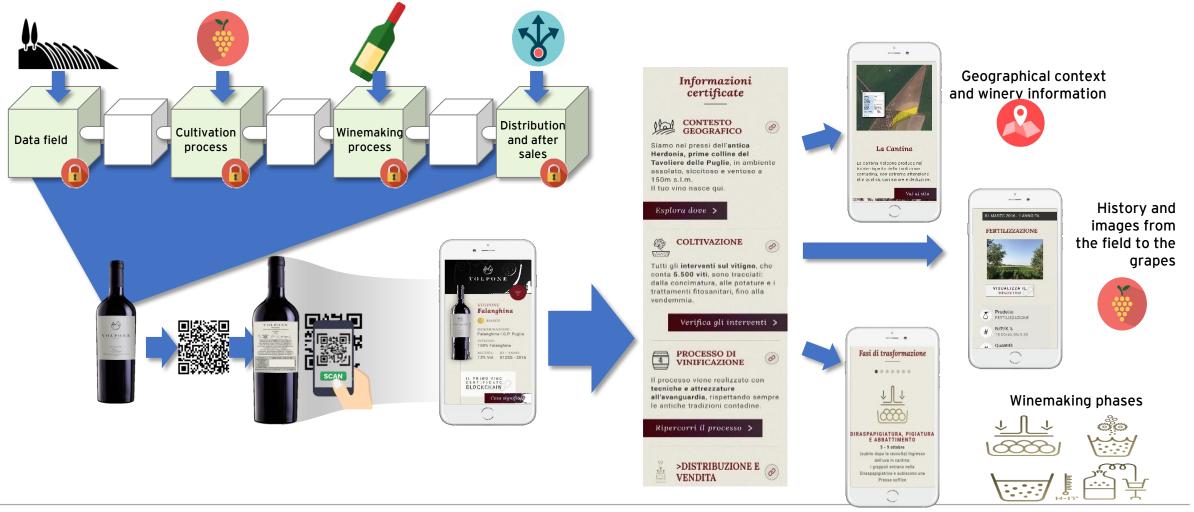


Suite of integrated services for differentiation, internazionalization and authenticity of Made in Italy Wine, trough new ways of communication based on innovative technologies like Blockchain





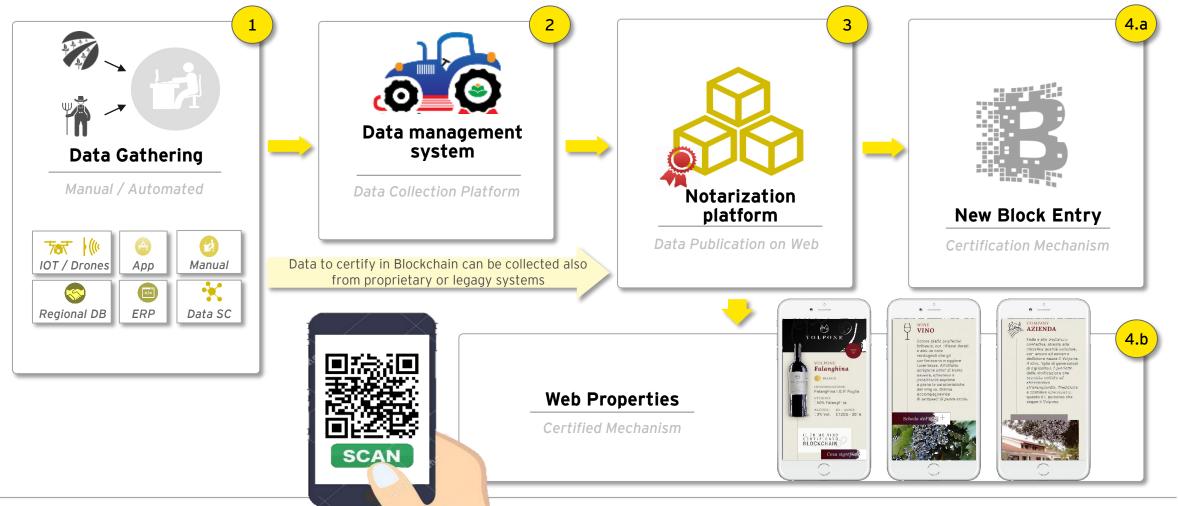
The first application of Wine Blockchain EY







The building blocks of TRACKEY

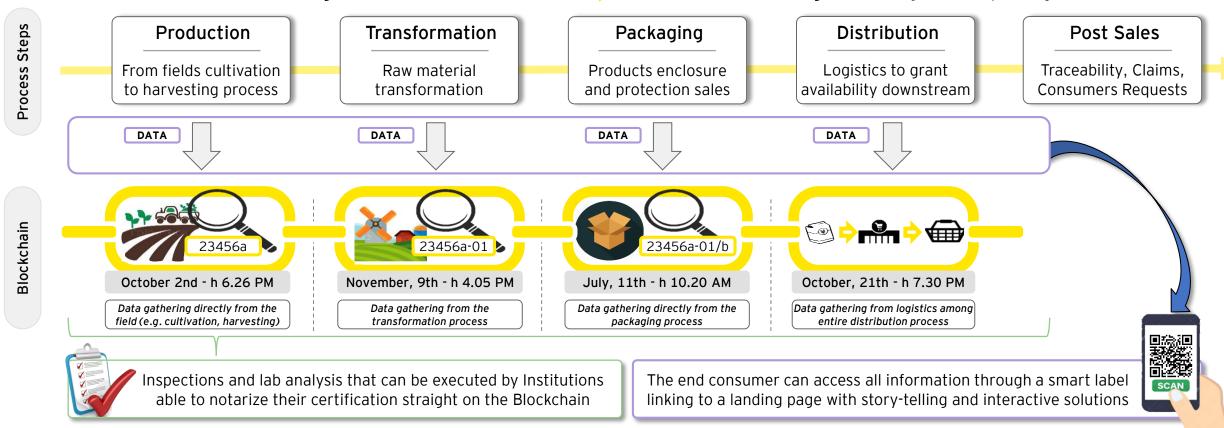






Tracking and certification of each step

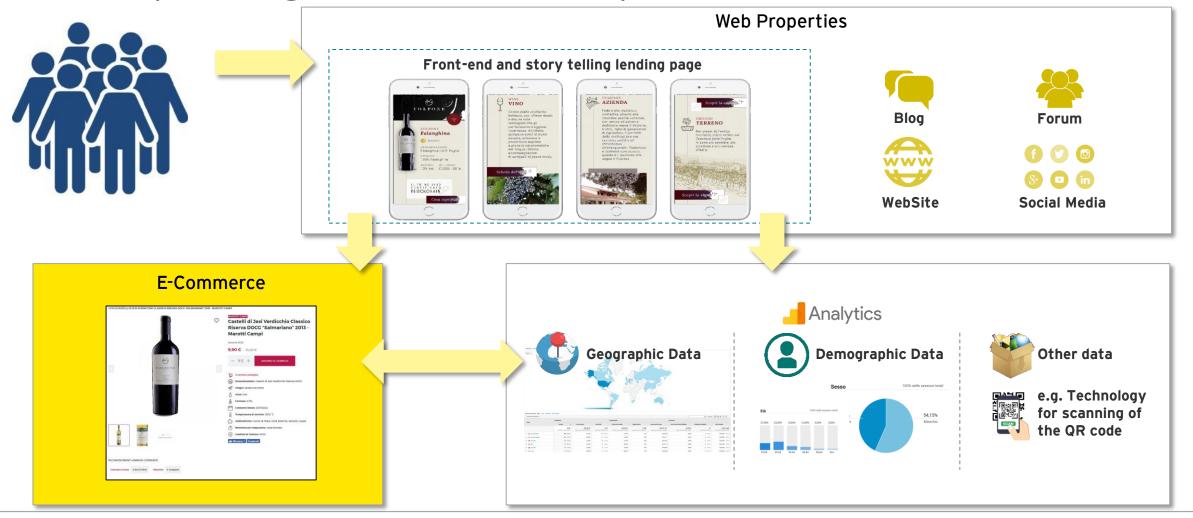
A plenty of informations can be **gathered** and **continuously tracked** from each production step along the entire supply chain, with the goal to deliver **certificated products** data among their **origin** and **quality**.







Storytelling and Data Analytics







High value tangible benefits for manufacturers...



Operation

Data collection model for auditing and digitization

Immutable and tamper-proof data

Real-time access to ministerial and regional data

Precision farming / business intelligence systems integration



Business

- Brand value increase and better reputation / awareness on the market
- Profits increase and overall process costs reduction
- Profit increase due to higher prices thanks to guaranteed quality and transparency
- Value Added Services to leverage all the opportunities of TRACKEY





...and consumers

High quality product warranty to final consumer

Production process transparency

User-generated content on social media platforms which lead to **knowledge sharing**

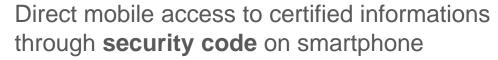














Easy interaction with certified informations through a targeted **storytelling**



Benefits related to **education** about whole industrial processes for goods production







Wine Blockchain EY can bring immediate advantages

Customers are willing to pay more for certification



CPG thinks that they success factor is no more price, but the transparency and authenticity

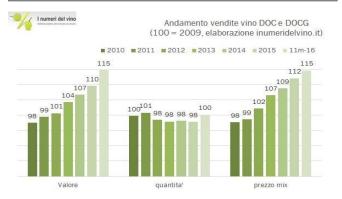
Quanto alle lamentele di scarsa sensibilità da parte della gdo, giungono tuttavia a proposito alcune precisazioni espresse per voce del responsabile reparto vini di Coop Italia, Francesco Scarcelli, il quale riconosce che in effetti «la leva principale fino a oggi utilizzata dal canale è stata quella promozionale. Noi tuttavia – aggiunge – siamo dell'idea che non sarà più quella chiave per le vendite, ma bisognerà unirvi una componente di sviluppo della conoscenza del prodotto».

Better performances for certified wines are related to increases in price, not volume

s are ıme

This brings to high margin

It is hard to guarantee authenticity with traditional certifications







Wine Blockchain EY can bring results in terms of revenues at least equal to those brought by traditional certification

~ +5%
Revenue / Year





The first wine supply chain registered in Blockchain



TRASPARENCY

- 25% time saving nei Q&A checks

DIFFERENTIATION

+ 580% click on the company website

Data and certifications of Winery



Treatment Analysis and water products

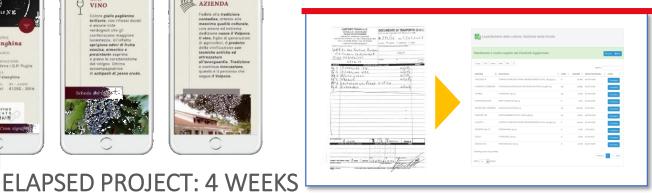


Registro dei trattamenti





DIGITIZATION





CLIENT PROFILE

1741 Sessions **33**% age 25-34 **54**% Male 5,5% Running 54% Italian





Sustainability approach



VINO

WATER CONSUMPTION

549* L/Bot value estimate for 0,75 L

CHEMICAL PRODUCTS USAGE

ECOLOGICAL FOOTPRINT









Media coverage for the first Blockchain solution

Key success factor

- Food quality is under the spotlight and customers demand more and more transparency
- **Blockchain** is the most **innovative tool** to certificate products and support the quality communication
- ☀ The news has been posted by the principal Italian newspapers and international Press



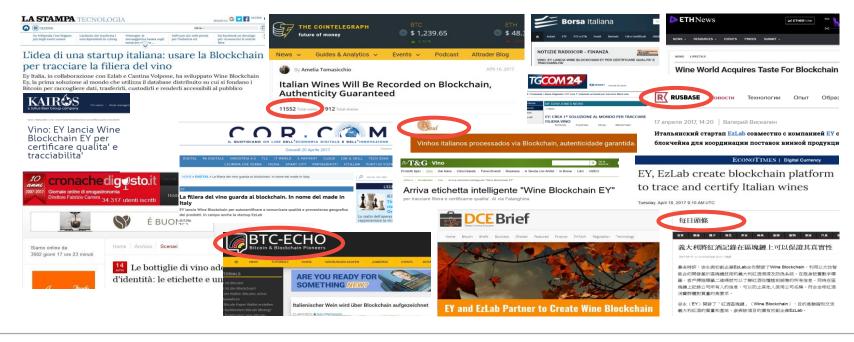
















Targets and forthcoming developments

