Supporting early detection of high-risk travellers

Alessandro BONZIO
Researcher & advisor
Alessandro ZANASI
Founder & CEO

ACXIS – BODEGA - C-BORD - CORE - SOURCE
Joint Exploitation Event
Paris, May 19 2017
THE PROBLEM/1

- Greater number of people crossing European borders every day increases the risk for border authorities of not being able to **timely detect threats**;

- **Huge amount of data** from **many different sources** makes it impossible for single border guards to perform **traveller risk assessment** based on all the available information;
THE PROBLEM/2

• To achieve the full potential of having this data, there is a need for systems capable of automatically processing and analysing it (e.g. big data analytics solutions);

• Security technology developers often lack the human factor expertise needed to design risk analysis solutions that fully address the border guards’ operational needs.
OUR ADVISORY SERVICES

Advisory services on the design of risk analysis solutions

- Overall architecture design
- User interface design
- Subject-matter expertise on security and data/text mining
- Recommendations for users
- User-centered requirements analysis
- Data protection compliance assessment/management
WHAT ARE THE BENEFITS?

Human factor requirements

IT-induced cognitive biases

Border guards’ job requirements

Advisory services ensuring full integration of human factor requirements into the design process
END-USER VALIDATION

Advisory solution validated by border control practitioners and representatives of the security technology industry:
• RECOBIA end-users workshops (November 2013, 2014);
• Joint ABC4EU-BODEGA Showcase Event (May 2017 – Levi, Finland)
• BODEGA end-users workshops (late 2017, early 2018).

Final solution validation planned during 2nd BODEGA showcase (mid 2018).
TARGET CUSTOMERS

Primary customers
- Border control authorities
- Custom agencies
- Law-enforcement & intelligence agencies

Secondary customers
- Big data/data analytics software providers
- Providers of risk assessment software for border control

Tertiary customers
- Other sectors of the border control technology industry
BUSINESS MODEL

Participating in research projects

Establishing new partnerships with clients

Acquiring specialist expertise and know-how

Delivery of advisory services
OUR TEAM

Alessandro ZANASI  
(founder and CEO)  
• M.Sc. Eng. in Nuclear Engineering (Bologna University, Italy)  
• Former Carabinieri officer and IBM executive and researcher  
• University professor of Data/Text Mining and Intelligence Techniques.  
• Co-founder of TEMIS SA and founder of Z&P.

Fabio RUINI  
(researcher and consultant)  
• Ph.D. in Artificial Intelligence (Plymouth University, UK)  
• M.Sc. in Economics (Modena University, Italy)  
• Expert in cyber security, critical infrastructure protection, social media monitoring and cyber intelligence.

Alessandro BONZIO  
(researcher and consultant)  
• M.A. in International Relations (King’s College London).  
• Former researcher at think-tank Demos  
• Former Programme Coordinator at the Institute for Cultural Diplomacy (ICD).

Giorgio ZANASI  
(senior advisor)  
• Carabinieri General  
• M.Sc. in Political Science.  
• Italian Military Academy in Modena  
• French War School at École Militaire in Paris  
• Expert in Psychology of Emergency  
• Professor of Techniques of Criminal Investigations.

Our clients: Frontex, ESA, ENISA, Algiers port and airport, Saudi MOI...
STATE-OF-THE-ART & FUTURE ACTIVITIES

End of RECOBIA project
January 2015

Research on data-based risk assessment
April 2016

Privacy impact assessment
Summer 2017

Elaboration of recommendations
Late 2017- Early 2018

Start of BODEGA project
June 2015

Z&P participates in the Joint Exploitation Event
May 2017 Present day

Validation of Z&P’s solution
Late 2017- Early 2018

Advisory services updated for delivery
September 2018

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WHAT’S NEXT?

• Any feedback?

• We are looking for partners for future Border Control research projects (e.g. H2020 2016-2017 Secure Societies call)
Thank you for your attention!

ALESSANDRO BONZIO
ALESSANDRO.BONZIO@ZANASI-ALESSANDRO.EU
ALESSANDRO ZANASI
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