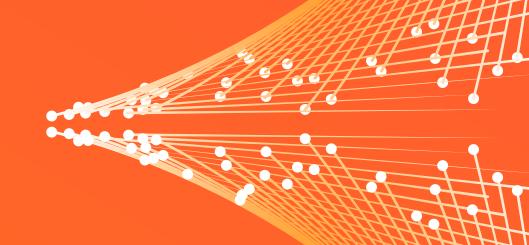
### WCC ID SOLUTIONS

Artificial Intelligence for solving EES and ETIAS Challenges







# Agenda

Multiple & Fraudulent Identity Challenges

02 Knowledge-Base Al

03 Domain-Specific Al

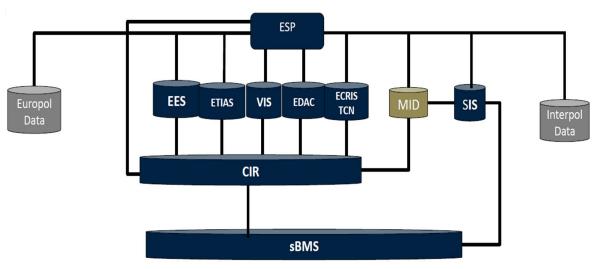
O4 Cognitive Al

05 Multiple & Fraudulent Identity Cases

06 Conclusion



# ARTIFICIAL INTELLIGENCE FOR SOLVING EES & ETIAS CHALLENGES MULTIPLE & FRAUDULENT IDENTITY CHALLENGES







#### **EU Central Systems:**

Multiple-Identity
Detection for new
enrollment & ETIAS



#### **Persons of Interest:**

Visitor TCNs & few EU Citizens in SIS



#### **Member State:**

Multiple-Identity
Detection for national
ETIAS & National DBs



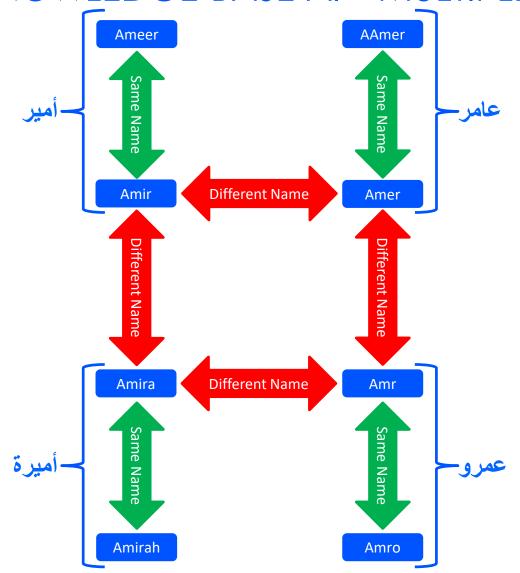
#### **Persons of Interest:**

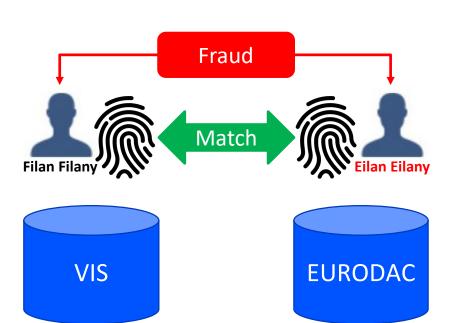
EU Citizens & Resident TCNs

Clause 22 of Interoperability Regulations 2019/817 & 818: Member State Responsibility



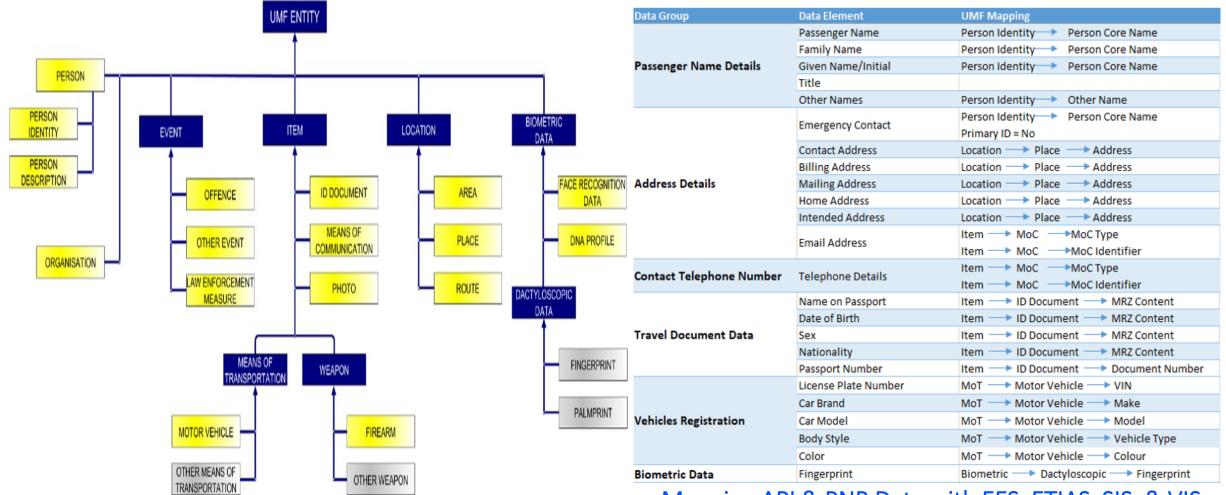
# ARTIFICIAL INTELLIGENCE FOR SOLVING EES & ETIAS CHALLENGES KNOWLEDGE-BASE AI – MULTIPLE & FRAUDULENT IDENTITY







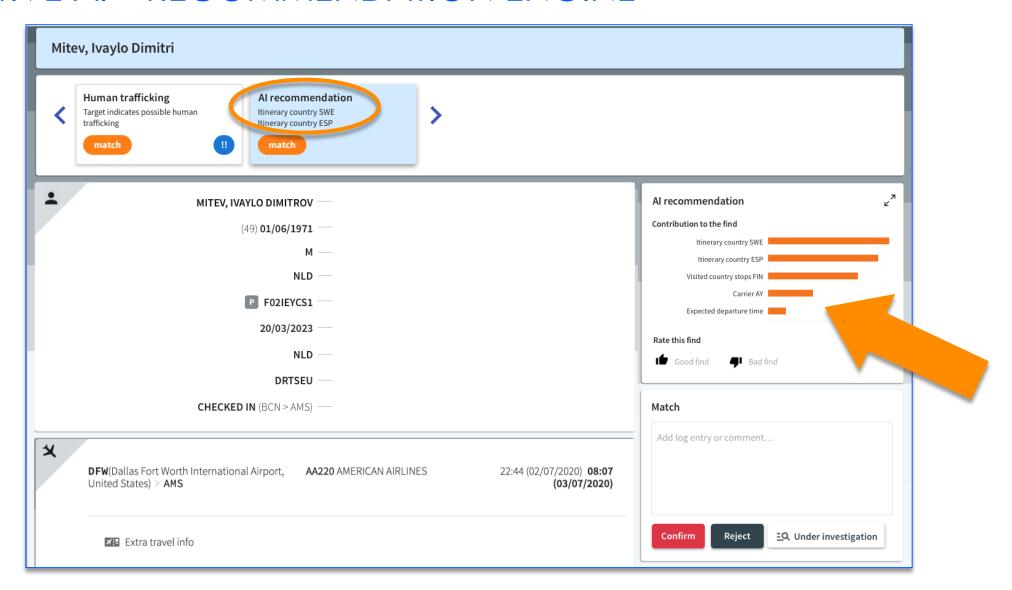
# ARTIFICIAL INTELLIGENCE FOR SOLVING EES & ETIAS CHALLENGES DOMAIN-SPECIFIC AI – UMF DATA MAPPING





Mapping API & PNR Data with EES, ETIAS, SIS, & VIS

## ARTIFICIAL INTELLIGENCE FOR SOLVING EES & ETIAS CHALLENGES COGNITIVE AI – RECOMMENDATION ENGINE





### ARTIFICIAL INTELLIGENCE FOR SOLVING EES & ETIAS CHALLENGES AI FOR SOLVING MULTIPLE AND FRAUDULENT IDENTITY CASES



#### **VIS Data**

Name: Amir Amr

Gender: Male

DOB: 01/01/1980

Place of Birth: Cairo

Nationality: Egyptian



Inferred by AI

#### **API/PNR Data**

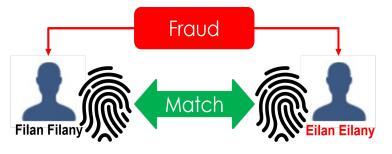
Name: Amira Amer

Gender: Female

DOB: 01/01/1980

Place of Birth: Cairo

Nationality: Egyptian







#### **Al Algorithms for Multiple Identity**

NER "Named Entity Recognition"

NLP "Natural Language Processing"

Facial Recognition (If available)



NLP "Natural Language Processing"

Fingerprint Recognition

Facial Recognition (OSINT)



# ARTIFICIAL INTELLIGENCE FOR SOLVING EES & ETIAS CHALLENGES CONCLUSION

### **EU Systems**



MID supported by
Artificial Intelligence
can solve the multiple
identity & fraud Challenges
of EES & ETIAS

#### **Member States**



National-MID supported by Artificial

Intelligence will solve the Member States challenges of citizens and resident TCNs

### **Al Algorithms**



Knowledge-Base, Domain-Specific, and Cognitive Al can reduce the false positives, save resources, and facilitate seamless travel





# Thank you for your time. Any questions?



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