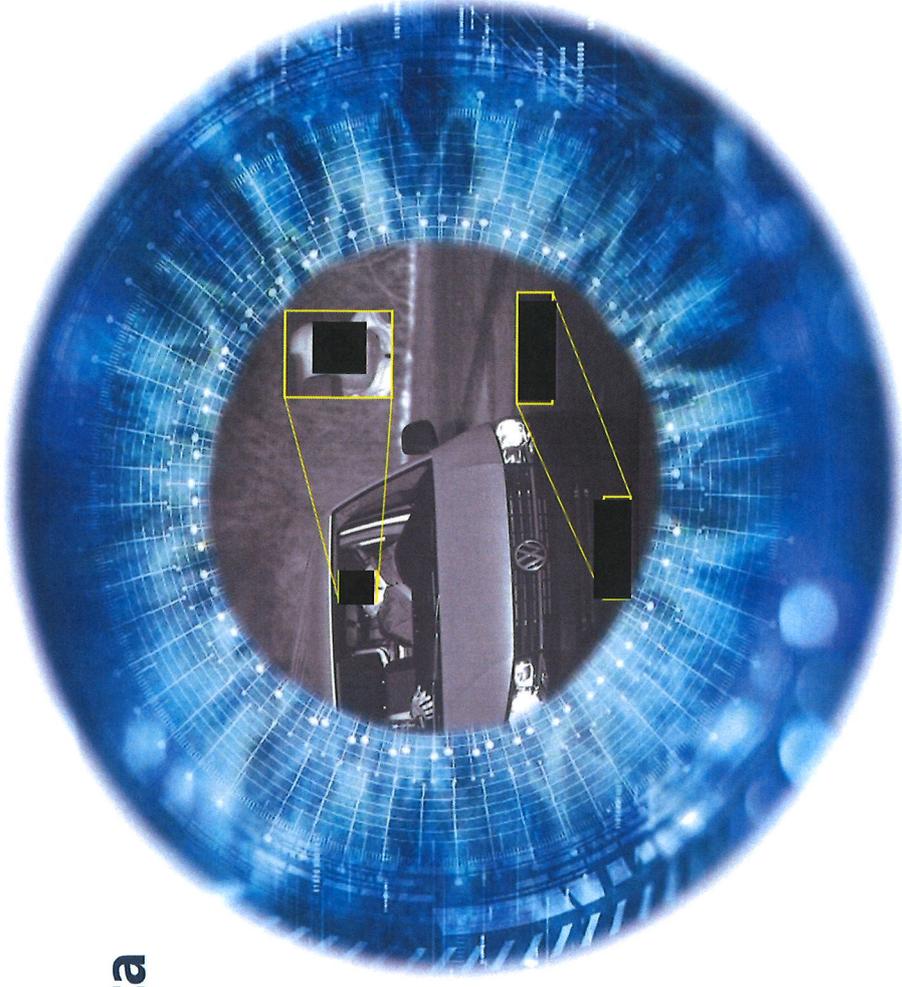# FRONTEX I-DAYS

Live Mode

- Display of the incoming video data

- Instant biometric matching and license plate reading

- Automatic alert for positive matches

Conclusion

With PerIS...

- recordings are usable 24/7 under nearly any weather or lighting condition

- suspects can be detected fast and easy in video data

- investigation work will be accelerated

- valuable manpower will be used efficiently

- privacy protection is taken into account
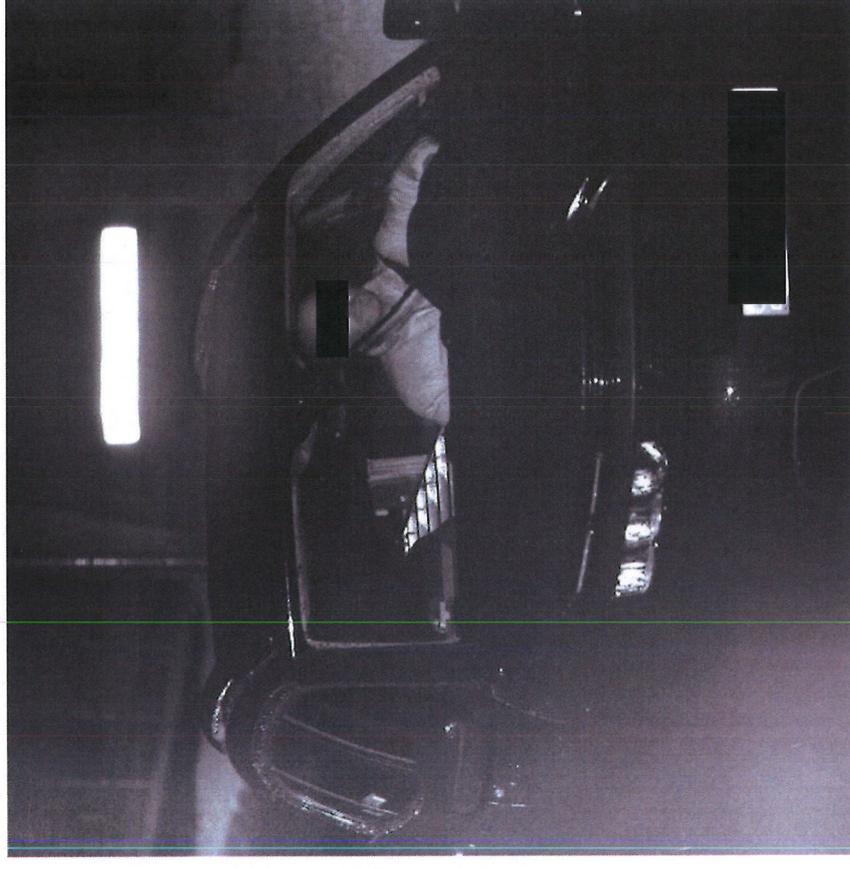
Strengthening the Schengen area

- With PerIS...

  - the driver in a car can be recorded 24/7

  - border control can be accelerated using a suspects list and live matching

  - a fast investigation after incidents of persons who entered the Schengen area is possible

  - flexible due to fixed or vehicle based installation

Future Features

PerIS is an extendible system which can be customised to the customer needs

Future Features may be

- **Make and Model Recognition**

- **AI-based object recognition**

Citroen C5 Aircross 2017

Car
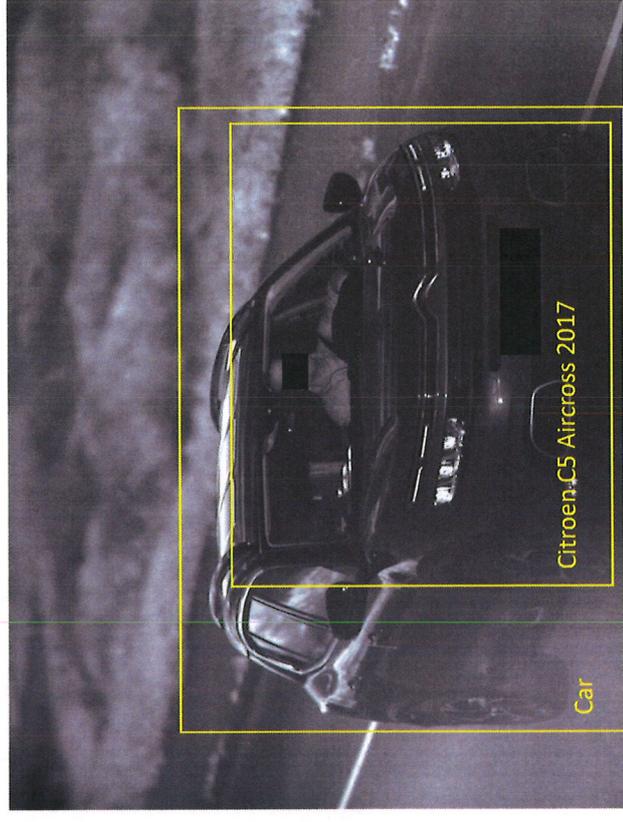
FRONTEX I-DAYS
PerIS Product Video
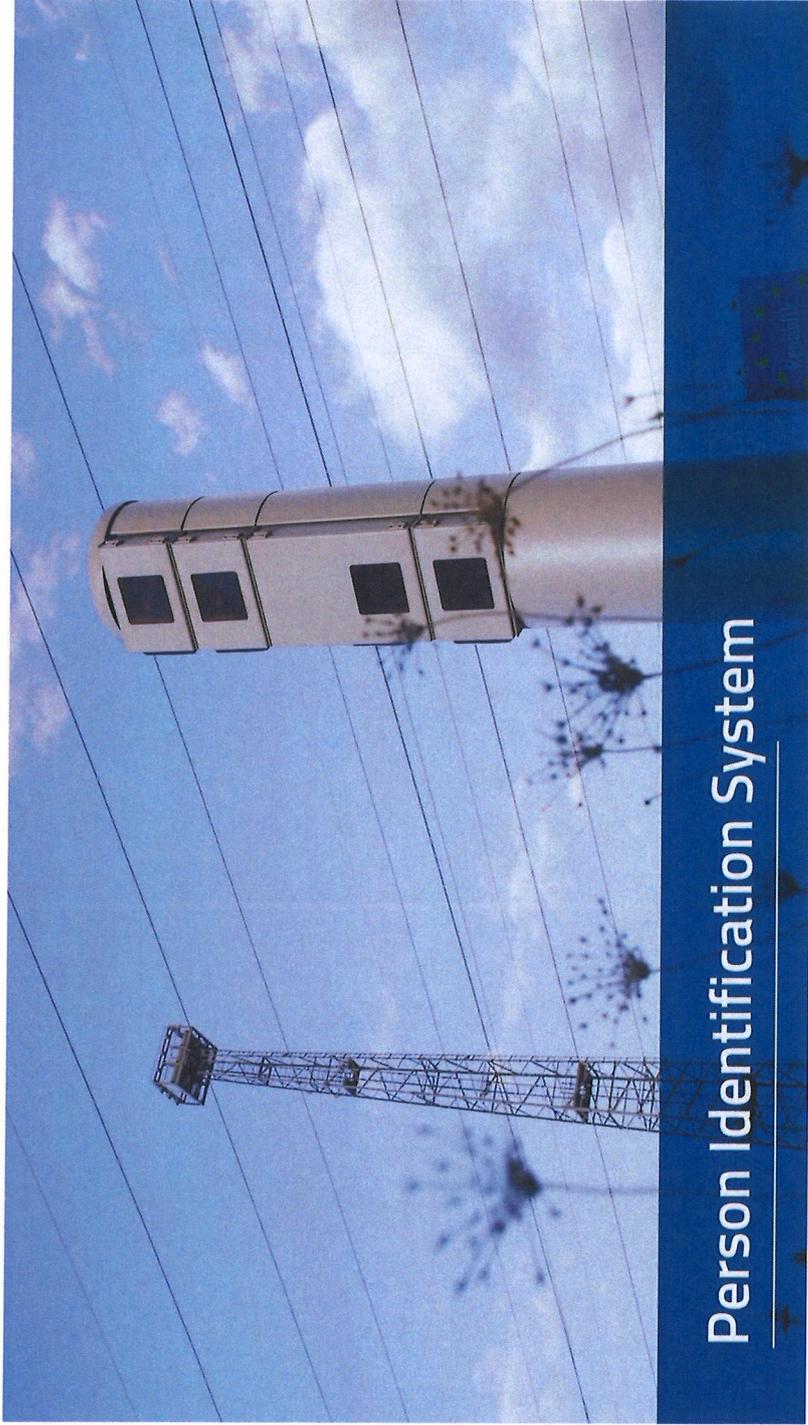
Person Identification System

FRONTEX I-DAYS

THANK YOU FOR YOUR KIND ATTENTION

Any further questions?

OptoPrecision GmbH

www.OptoPrecision.de

OptoPrecision

European Commission

Innovative Technologies for Strengthening Schengen

Warsaw, 28/03/2023

Advance Passenger Information

API router

MRZ & chip-data

Flight
Athens
to
Paris

- with compliance check at departure

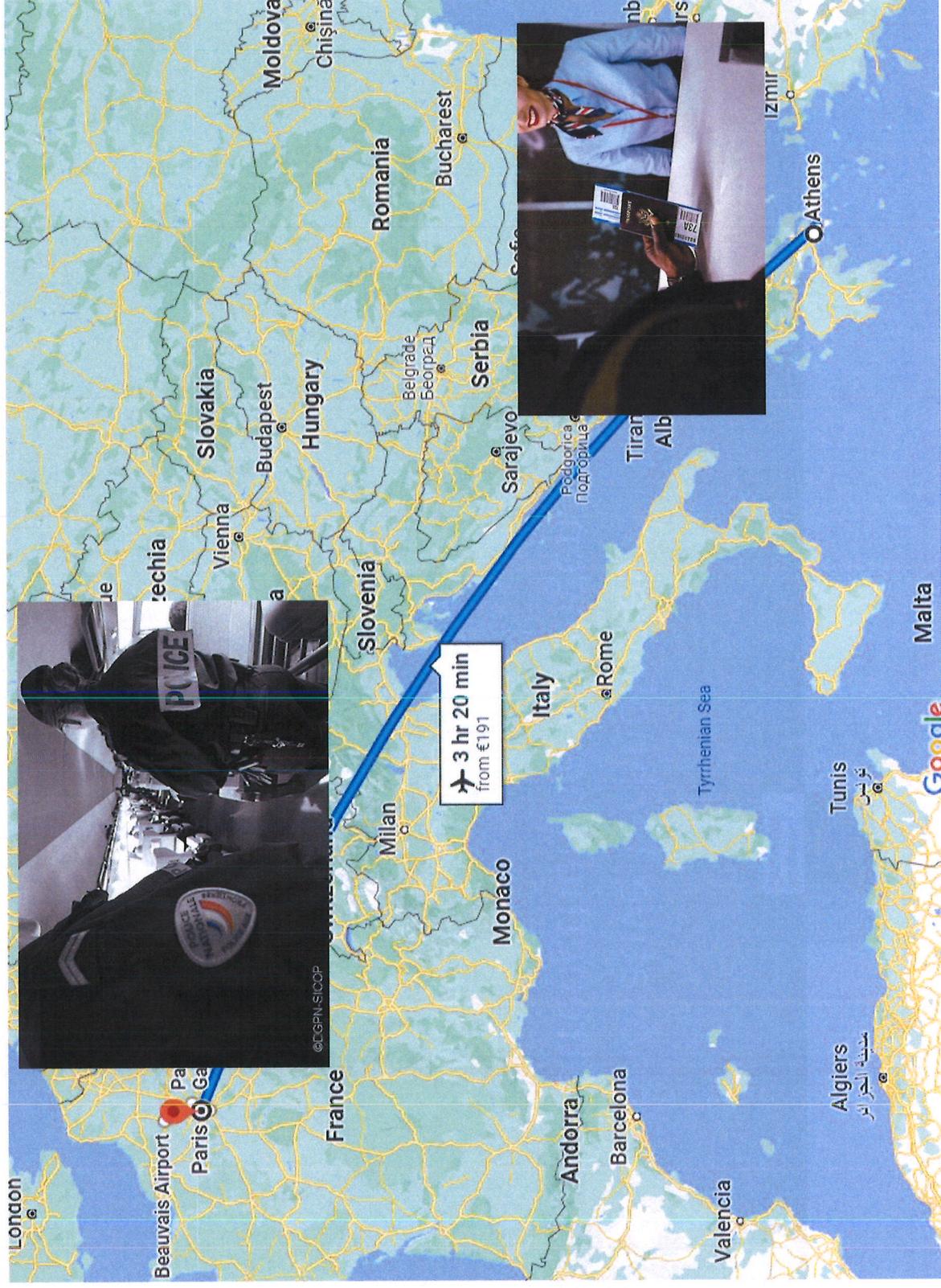- with police check at arrival

PNR: find the unknowns…

PNRGOV

PNR-record-locator: RMT33W

Reservation date: 27/03/2023

Travel date: 28/03/2023

Name: Abara Jabari

Contact: m.star123@gmail.com; +90.611.378946

Payment: AMEX 31000 xxxxx 34; 3 El Adel Abou Bakr St., Zamalek, Cairo

Itinerary: Athens – Paris

Frequent flyer: –

Travel agent: booking.com

Status: reservation

Remarks:

Ticket: 987369SCA987; 28/03/2023

Seat: –

Baggage: –

API: –

1. Reservation date < 2 days before travel
2. Contact-details do not correspond to name
3. Telephone is in Turkey, billing in Egypt
4. Reservation via booking.com
5. Origin/Destination is different from billing address/phone number
6. One-way trip (no return in itinerary)

The passenger seems to be called Abara Jabari
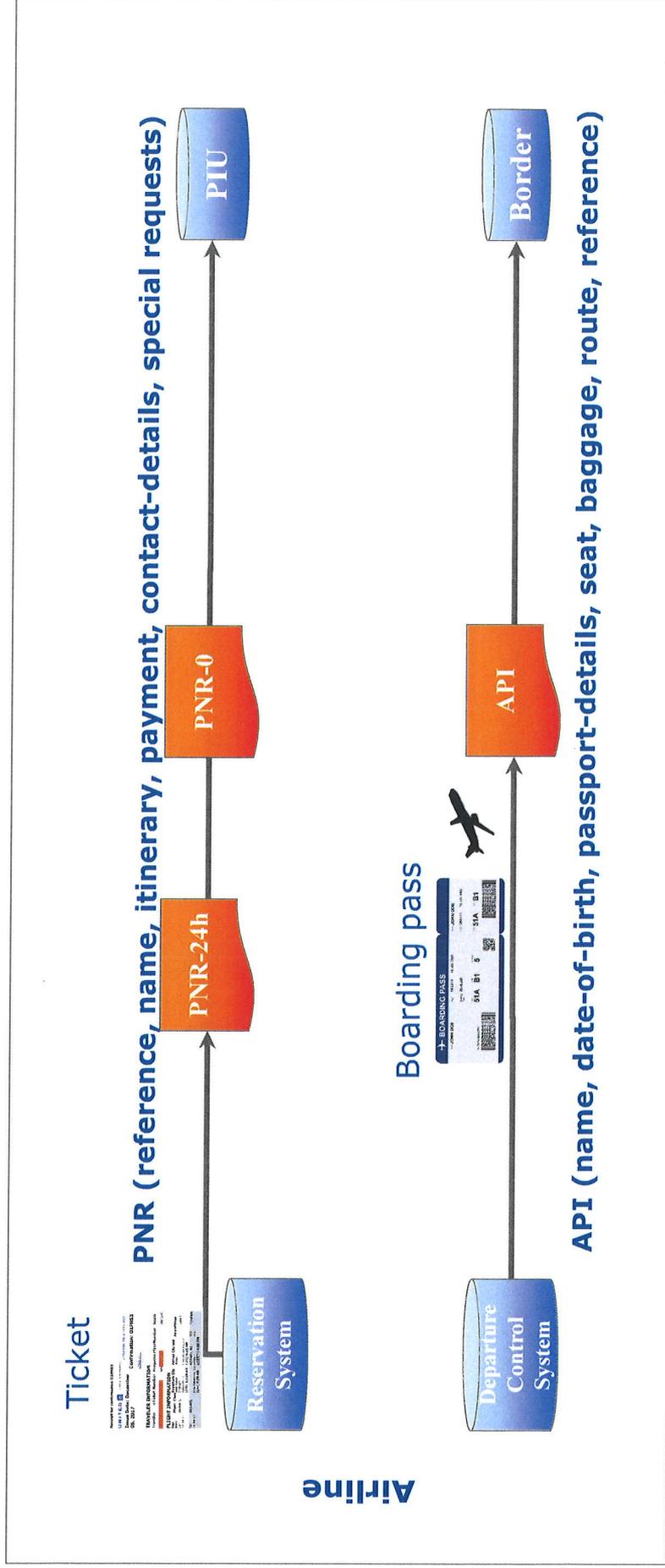
API: know your tra[vel]

PNRGOV

PNR-record-locator: RMT33W
Reservation date: 27/03/2023
Travel date: 28/03/2023
Name: Abara Jabari
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Itinerary: Athens – Paris
Frequent flyer: --
Travel agent: booking.com
Status: reservation
Remarks:
Ticket: 987369SCA987; 28/03/2023
Seat: --
Bagage: --
API: --

PAXLST

PNR-record-locator: RMT33W
Document: PTCD 987654321
Nationality: TCD
LastName: Abara
FirstName: Aamadu Jabari
D.o.b.: 14-06-1999
Gender: M
Expiry: 26-04-2026
Departure: Athens (ATH) 28/03/2023 09:20
Arrival: Paris (CDG) 28/03/2023 12:40
Tranport code: AEE101
Seat: 23A
Bagage: 0

1. Passenger is from CHAD
2. Passenger's first names Aamadu Jabari
3. Passenger's last name Abara
4. Dob 14-06-1999
5. Passport number 987654321
6. Male

P<TCDABARA<<AAMADU<JABARI<<<<<<<<<<<<<<<<<<<<<<<
9876543213TCD9906149M2604262<<<<<<<<<<06

API vs. PNR

PNR (reference, name, itinerary, payment, contact-details, special requests)

API (name, date-of-birth, passport-details, seat, baggage, route, reference)

Ticket

Boarding pass

Reservation System

Departure Control System

PNR-24h

PNR-0

API

PIU

Border

Airline

European Commission

Identified problem

Limited flight coverage for API data (65% of inbound flights, no intra-EU flights) leads to **security gaps**

Considerable economic **burden on air carriers** due to diverging national requirements on collection and transmission of API data

Poor data quality due to manual insertion of API data

Reconciling operational needs and legal requirements

Proposed solution

Covering all inbound and outbound flights and selected intra-EU flights

Harmonised requirements and data formats, EU centralised transmission through the router (efficiency gains for air carriers and Member States)

Automated means to collect API data to ensure **complete and reliable data**

Router as an EU solution that allows for the processing of API data (and PNR data) in compliance with the Court requirements
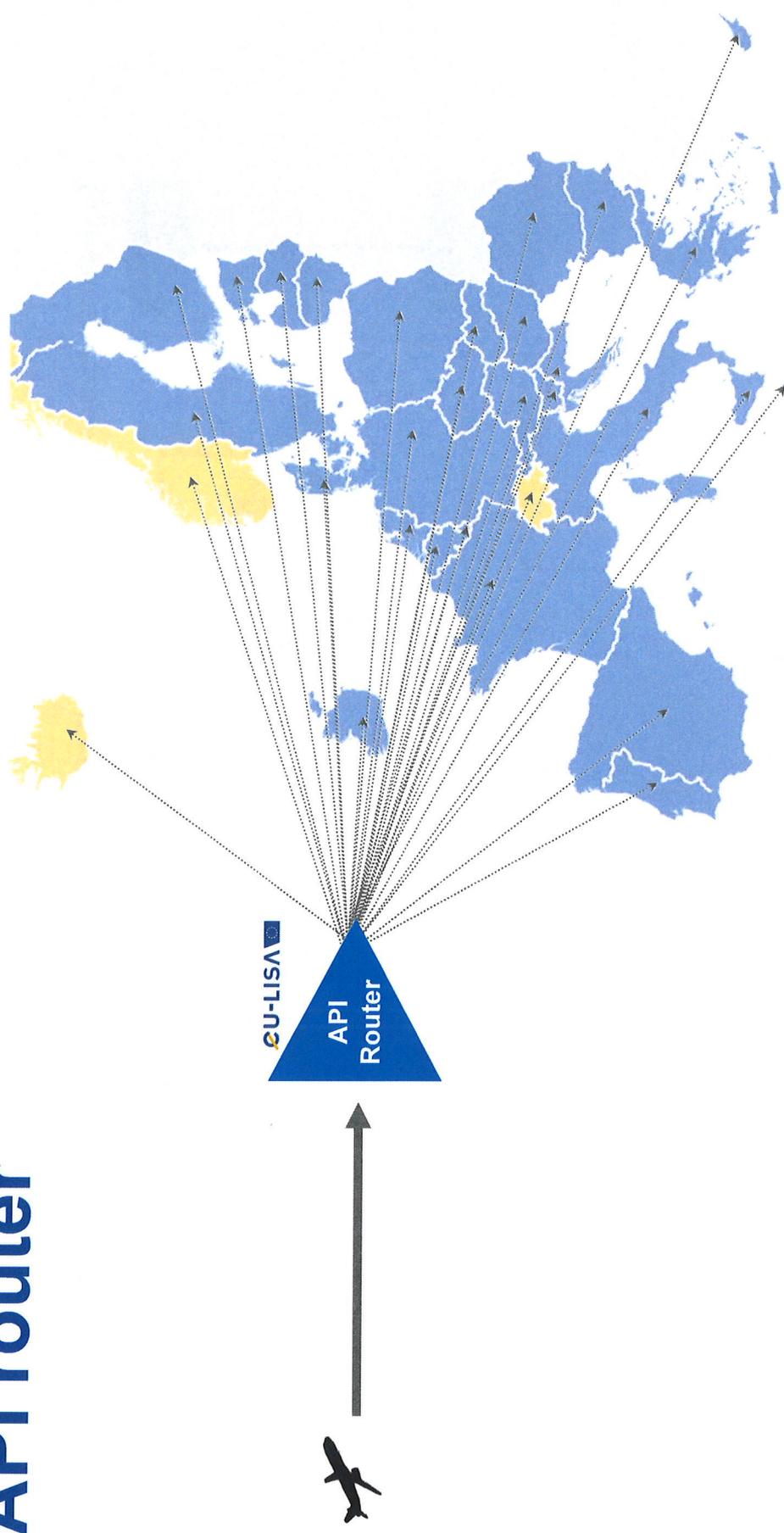
2020 - API Directive evaluation summary and full report

2021 - Study supporting an impact assessment

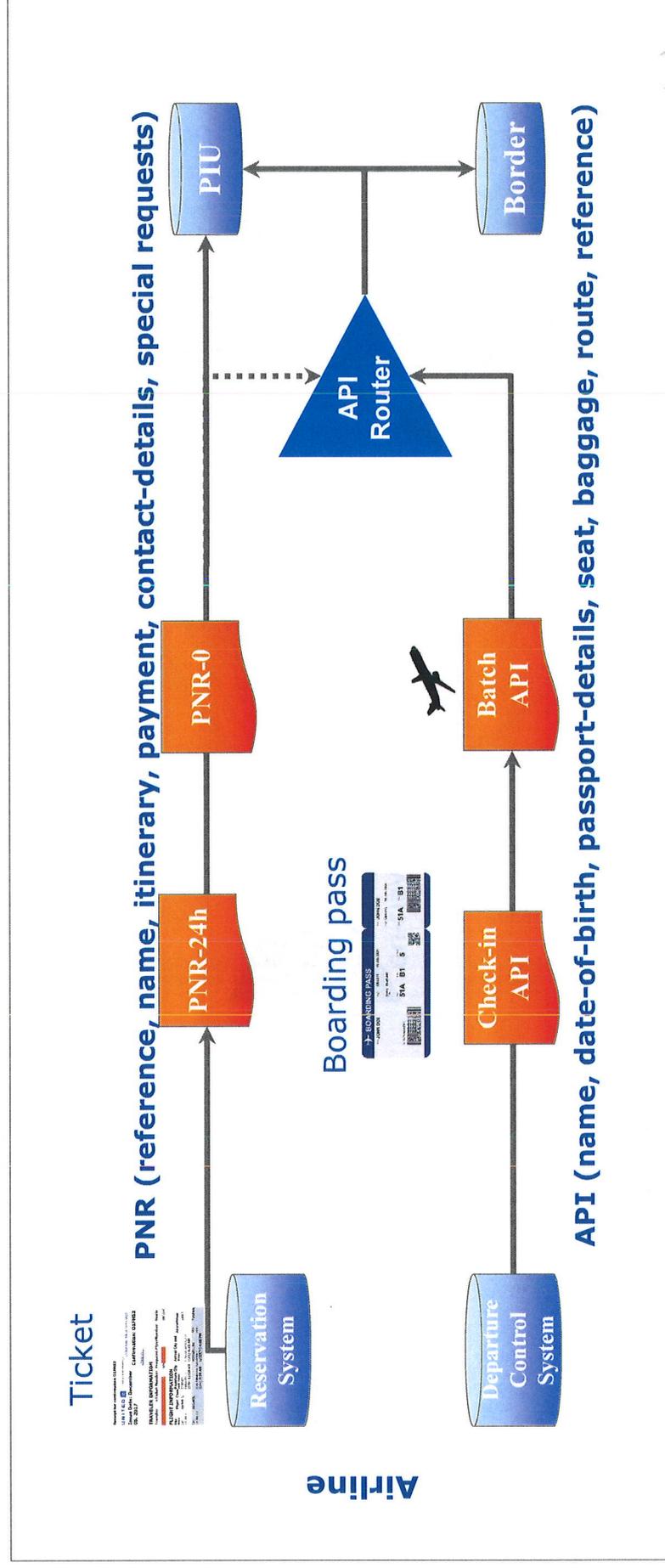2022 - Impact assessment accompanying the proposals

API router

eU-LISA

API
Router

Future situation!

Ticket

PNR (reference, name, itinerary, payment, contact-details, special requests)

Reservation System → PNR-24h → PNR-0 → PIU

Boarding pass

API (name, date-of-birth, passport-details, seat, baggage, route, reference)

Departure Control System → Check-in API → Batch API → API Router

API Router → PIU → Border

Airline

European Commission

Automated data capture / router / statistics

Schengen Borders Code

PL Borders **FR Borders** **SE Borders** **DE Borders**

Extra-EU Inbound

PNR Directive

PL PIU **FR UIP** **SE PIU** **DE PIU**

Subscription to data:
- Competent authorities subscribe to precise routes to receive API data

LPA -> WAW
(Gran-Canaria -> Warsaw)

ATH -> CDG
(Athens -> Paris)

MLA -> ARN
(Malta – Stockholm)

Subscribe to data

API Router

Common Repository for Reporting and Statistics

Statistics

Web-page & APP data input

euLISA Carrier Interface

iAPI/API PAXLST

Airlines
- Scheduled
- Unscheduled
- Charter
- Business aviation

At check-in:
- On-line
- At airport kiosk
- At airport counter

P<UTOERIKSSON<<ANNA<MARIA<<<<<<<<<<<<<<<
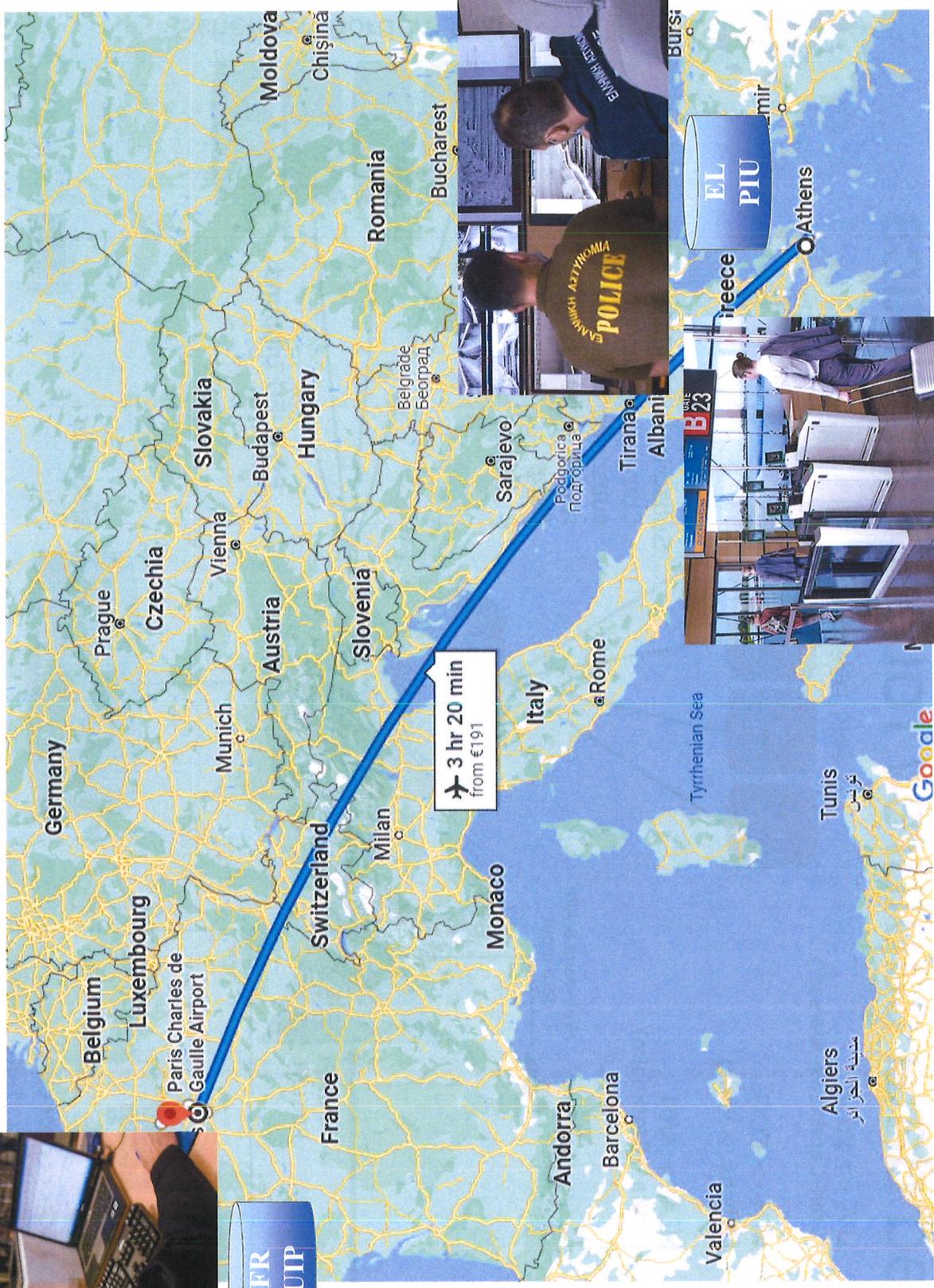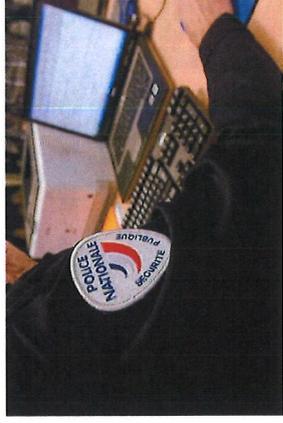L898902C36UTO7408122F1204159ZE184226B<<<<<10

European Commission

Flight
Athens
to
Paris

- without (physical) compliance check at departure!
- Contactless self boarding!
- without police check at arrival!

FR UIP

EL PIU

✈ 3 hr 20 min
from €191

Thank you

European Commission

EU Innovation Hub

for Internal Security

Support the sharing of best practices, technologies and innovation on different modes of transport

EUROPOL

INNOVATION LAB

EU INNOVATION HUB | FOR INTERNAL SECURITY

EUROPOL

INNOVATION LAB

EU Innovation Hub for Internal Security

- Collaborative network of innovation labs (Agencies and EU MS)

- Cross-sectorial coordination of innovation activities

- Exchange knowledge and information + create synergies

- fostering knowledge transfer across sectors in the JHA field

- Joint EU platform to:
  - Support delivery of innovative products
  - Assess risks and foster use of new technologies in JHA domain
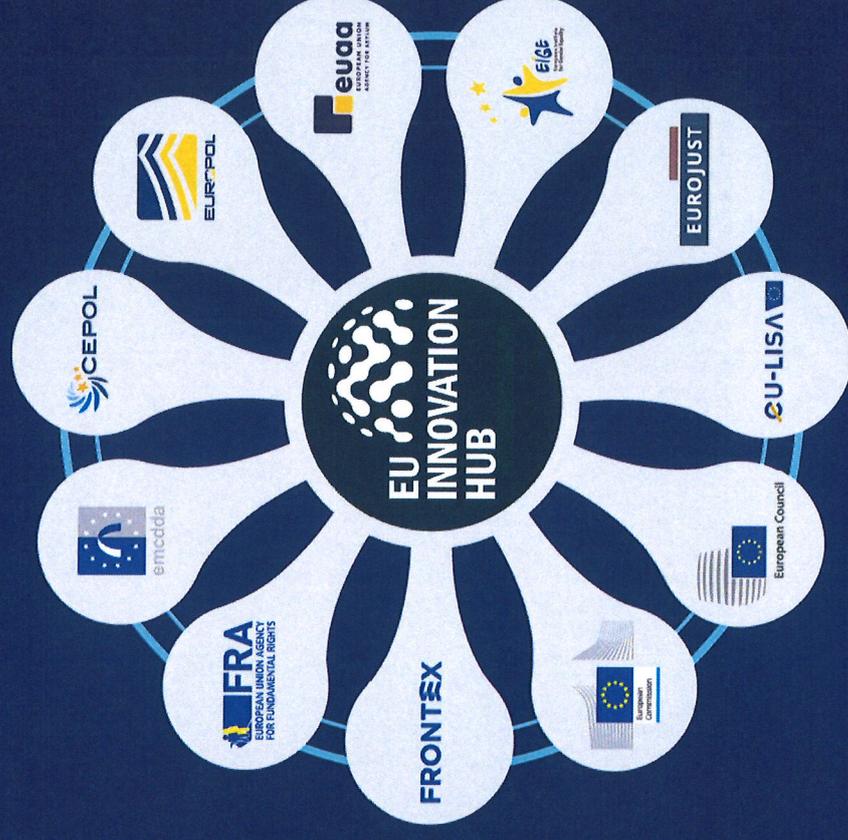
Hub generic tasks

- **Collect knowledge/ information on innovation initiatives, topic & tools:**
  - Create a common innovation picture for internal security
  - Identify and develop new common projects for Hub Members
  - Carry out studies in the field of innovation & organise expert workshops
  - Produce reports and papers on findings/ technologies
  - Contribute to the definition of COM research priorities for Horizon Europe
  - Help facilitate the uptake of innovation projects

- **Central knowledge repository and exchange platform:**
  - Central place for exploration and testing of novel ideas and innovative approaches across the internal security domain for MS Authorities and Hub Members (mapping exercise under way)
  - Distribution of project findings, including EU- and MS funded activities

- **Strengthen the Hub:**
  - Create awareness about the EU Innovation Hub among Member States and Hub stakeholders in the Internal Security area

Studies and project 2022

- AI in CRRS for ETIAS and Revised VIS - study (eu-LISA – Frontex – Europol - FRA)

- Land border pilot for Entry-Exit System solutions (Frontex - eu-LISA – JRC - FRA)

- Technology Foresight on Biometrics for the future of Travel (Frontex – DG HOME – JRC – Europol – eu-LISA – FRA)

- Darknet monitoring (JRC – Europol- EMCDDA)