

Strategic Industry Conversation III

Doubling Down on the Unity of Effort

October 19, 2017



Homeland
Security

Border Security

Diane Sahakian, Deputy Assistant Commissioner, Acquisition and Head of Contracting Activity, U.S. Customs and Border Protection (Moderator)

Philip Miller, Deputy Executive Associate Director, Enforcement and Removal Operations, U.S. Immigration and Customs Enforcement

Colleen M Manaher, Executive Director, Planning, Program Analysis and Evaluation, Office of Field Operations, Entry/Exit Transformation, U.S. Customs and Border Protection

Benjamin Huffman, Chief, Strategic Planning and Analysis Directorate, U.S. Customs and Borders Protection

Anh Duong, Program Executive Officer, Unmanned Aerial Systems, Science and Technology Directorate



**Homeland
Security**

Biometric Entry-Exit Program

Washington, DC

October 19, 2017



Traveler Verification Service



U.S. Customs and Border Protection

CBP designed a backend Traveler Verification Service (TVS), that leverages existing advanced passenger information, existing photographs from OBIM and U.S. Passport Database, and is front end device agnostic. TVS will be used in Air, Land and Sea

HOW TVS WORKS:

- Uses Existing Traveler Biometrics
- No New Data Requirements
- Matches One to Few Utilizing Cloud Infrastructure
- Tokenless Processing
- Integrates into Existing Airport Infrastructure

MATCH	PASSANGER NAME	DOB	DOCUMENT	STATUS
+8	Smith, James	01/08/1992	P TR3456201 JP	Boarded
+5	Sally, Jane	09/12/1980	P TR1010201 JP	Boarded
+2	Mark, Robert	04/05/1959	P 534564981 US	Boarded
+1	Tanaka, Yuri	03/27/1979	P 568049423 US	No Match
+3	Arntson, Keenan Lanae	09/02/1991	P TR2935948 JP	Boarded
+4	Matsuyama, Asuka	06/15/1983	P 759403592 US	Boarded

~100,000
participating
passengers



High 90 percentile
of passengers have a
photo available



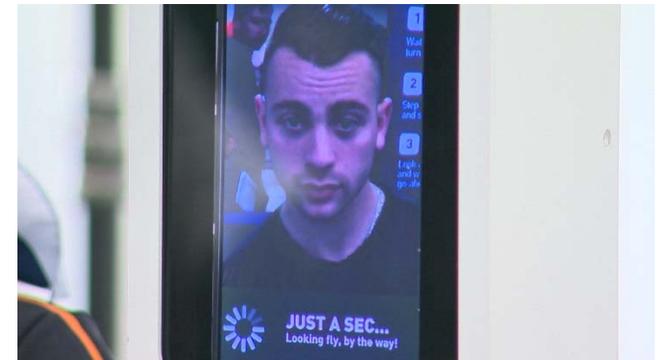
High 90 percentile
match rate for
passengers with photos

Facial recognition is the clear business choice because it integrates into existing stakeholder processes and infrastructure while capitalizing on traveler behavior



Biometric Air Exit – Progress

- **Built a robust cloud-based facial matching service to support Air, Land and Sea.**
- **Implemented technical demonstrations at international airports in 2017:**
 - June 6- Dulles
 - June 8- Atlanta (equipment upgrade)
 - June 27- Houston Intercontinental Airport
 - July 11- Chicago
 - July 25- Houston/Hobby
 - August 8- Las Vegas/McCarran
 - August 22- JFK
 - TBD - Miami
- **Initiated public-private partnership projects:**
 - June 12- Jet Blue-Paperless Boarding Project- Boston
 - June 12- Delta Auto Boarding Gate Project-JFK
- **Gaining momentum with stakeholders:**
 - San Francisco/San Jose
 - Los Angeles Airport
 - Royal Caribbean
 - British Airways
 - KLM Royal Dutch Airlines
 - Lufthansa



Working in partnership with the air travel industry, CBP is leading the transformation of end-to-end air travel



Biometric Air Entry – Progress

- **Leverages biometric exit capabilities to transform entry processes**
- **Streamline traveler entry process and wait times by reducing touchpoints**
- **Uses facial biometrics in place of travel document**
- **Personalizes travel experience based upon traveler profile**
- **Utilizes existing traveler data**
- **Discontinues use of paper receipts and declarations**
- **Eliminates fingerprint capture from travelers with previous prints on file**
- **Allows CBP Officers to focus on admissibility vs. manual processes**

- **Planned implementation demonstrations at international airports:**
 - **Q1 FY 2018 - Atlanta**
 - **Q1 FY 2018 - Miami**
 - **Q1 FY 2018 – Aruba**
 - **Q3 FY 2018 – San Diego**

Working in partnership with the air travel industry, CBP is leading the transformation of end-to-end air travel

Biometric Exit - Land Border Strategy



U.S. Customs and Border Protection

- **Third Country National Plan**
 - Self-Report Final Departure from US at Land Ports of Entry.
 - Target implementation in late 2017
- **Deploy facial biometric exit solution for pedestrians**
 - Leverage TVS facial biometrics for frequent pedestrian crossers
 - Integrate RFID to biometrics to expedite/improve facial matching
 - Work with GOM on biometric inbound/outbound
- **Continue to innovate on land solutions**
 - Vehicle at-speed facial matching
 - High Resolution Infra-red cameras
 - Expand data sharing with Mexico



Implementing feasible land solution while continue to innovate

DHS Coordination- Critical for Success



U.S. Customs and
Border Protection

- **TSA**
 - Conduct a joint pilot using TVS facial matching at TSA checkpoint in October 2017
 - Coordinating long term strategy to expand capabilities
- **DHS Science and Technology**
 - Biometric Device Evaluations
 - Human Factors
 - Algorithm evaluation
- **DHS Digital Services**
 - Evaluate System Design and Architecture
 - Provides best practices for programming and development
 - Facilitates Department wide collaboration
- **Office of Biometric Identity Management (OBIM)**
 - Utilizing existing biometric information in IDENT
 - CBP will send in-scope photos to OBIM
 - Developing strategic requirements for HART
- **CBP/DHS Privacy**
 - Privacy Impact Assessments Completed for CBP Projects and Airline Led Projects
 - Working together to ensure security of PII information



Coordinating biometric entry-exit initiative across the department



Opportunities to Support Biometric Entry/Exit

- **Airline's and airport's biometric transformations**
- **Innovative solutions**
 - **Biometric capture for vehicle at-speed**
 - **Self reporting**
 - **Traveler applications**
 - **Body worn cameras**
- **Cloud services**
- **Biometric matching services**

We invite you to transform the travel experience with us

Colleen Manaher
Executive Director
Planning, Program Analysis and Evaluation
Office of Field Operations



U.S. Customs and Border Protection Impedance and Denial

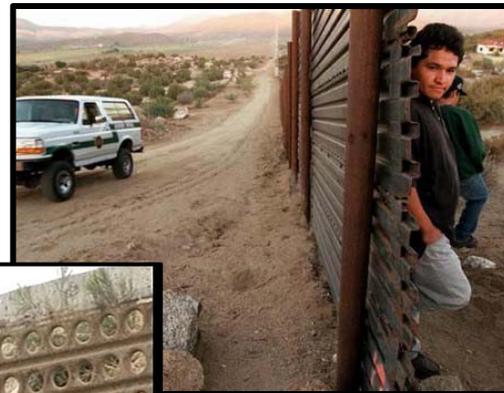
**U.S. Border Patrol
Border Wall Program**

October 19, 2017



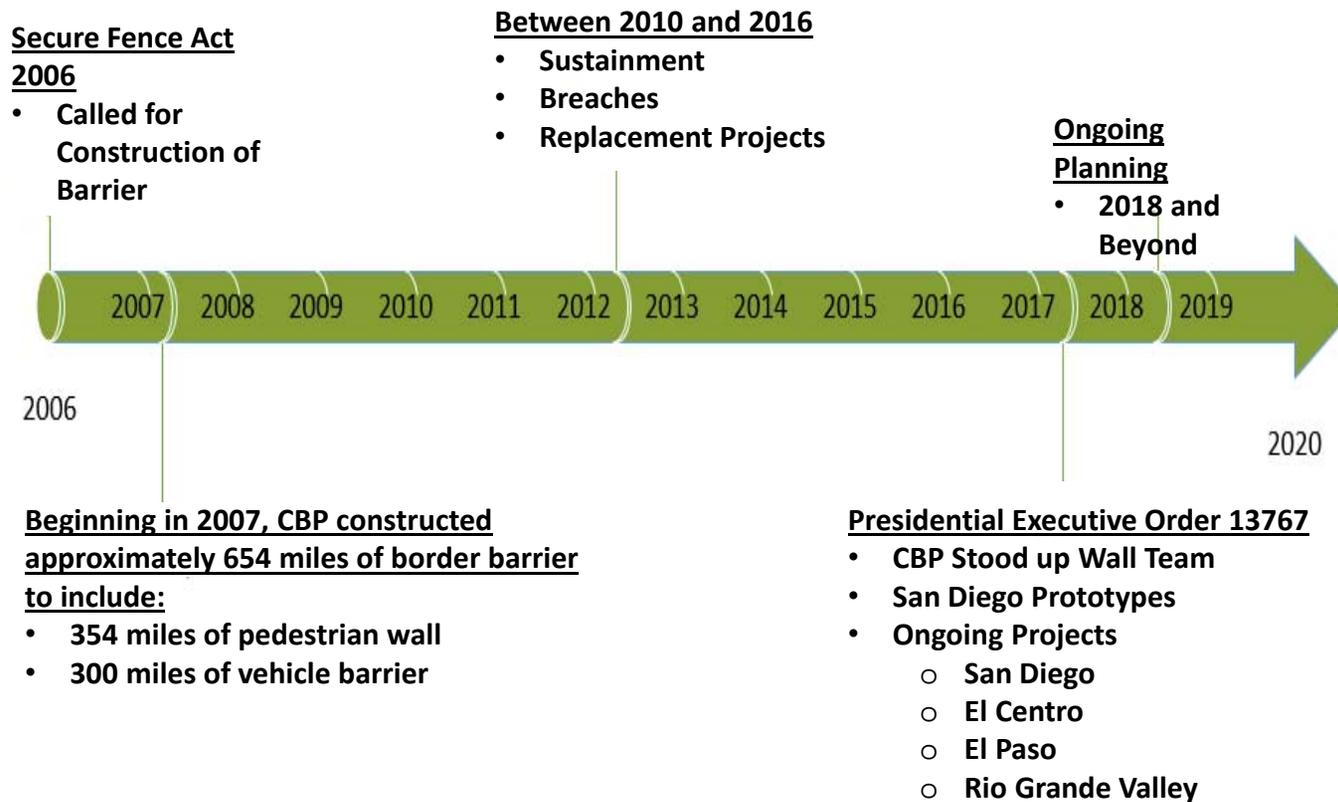
Background

- Impedance and Denial: an operational requirement for the Border Patrol for over 25 years.





Border Wall Program 101





CBP's Complex Border Construction



Rio Grande Valley Sector Levee Wall



San Diego Sector Surf Wall



Yuma Sector "Floating Wall"



San Diego Sector Border Infrastructure System (BIS)

CBP's Border Barrier Toolkit



Example of steel bollard wall



Example of vehicle barrier



Example of a gate



Example of levee wall

Questions and Answers
