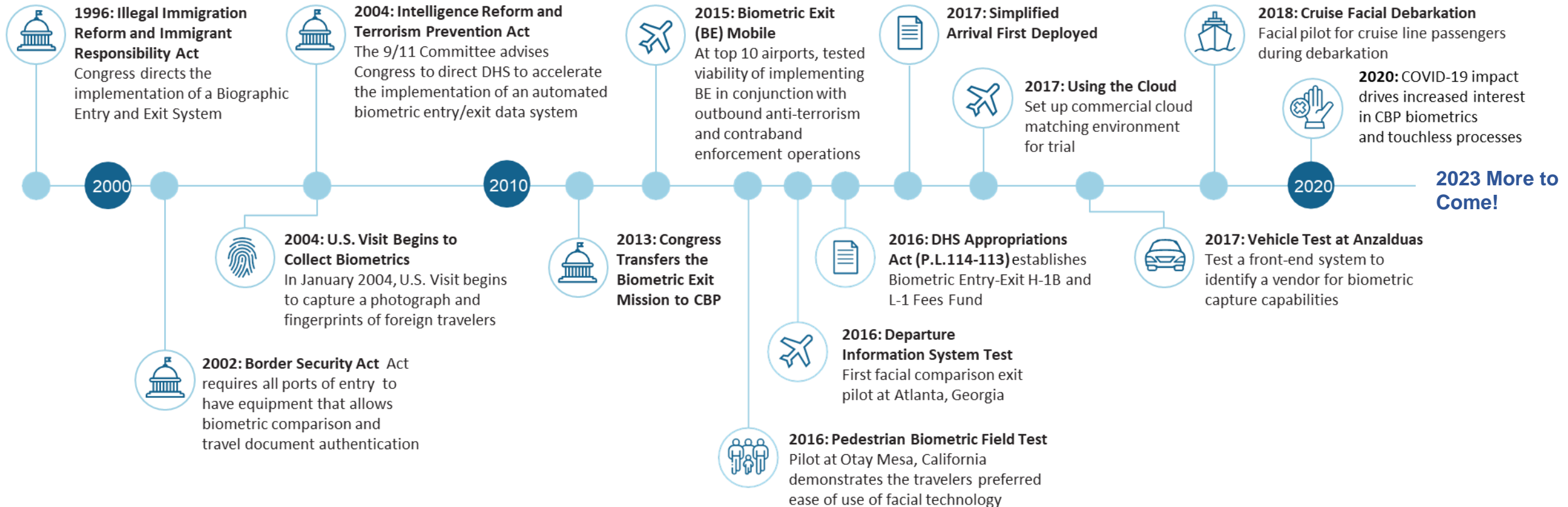




# Identity Week America 2023

# How Did We Get Here?

## TIMELINE: HOW CBP HAS CHANGED THE FACE OF TRAVEL



- The 9/11 Commission stated that “a biometric entry-exit system is an essential investment in national security”

- CBP executed and delivered a Biometric Entry-Exit Program delivering biometric confirmation in the travel continuum in partnership with airlines, airport authorities and sea cruise lines worldwide

# CBP'S Investment



## Traveler Verification Service (TVS)



Cloud-based biometric facial comparison service designed with privacy and security in mind



Enables external partners and other government agencies to confirm traveler identity against a trusted source



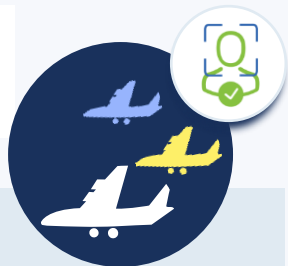
TVS easily applies across modality and use-cases for verification of identity throughout the travel process



Scaled for enterprise use, builds speed and accuracy of the capability

# Biometric Travel Vision

## BIOMETRIC → DEPARTURE



CBP receives manifest from airlines



CBP builds galleries using travel photos



Traveler checks in with airline



Checks bag with facial comparison (Partner with TSA)



Verifies face at security (Partner with TSA)



Confirms face on boarding, CBP records departure



Officer performs admissibility interview



Matches traveler on arrival



Traveler checks in with airline



CBP builds galleries using travel photos



CBP receives manifest from airlines

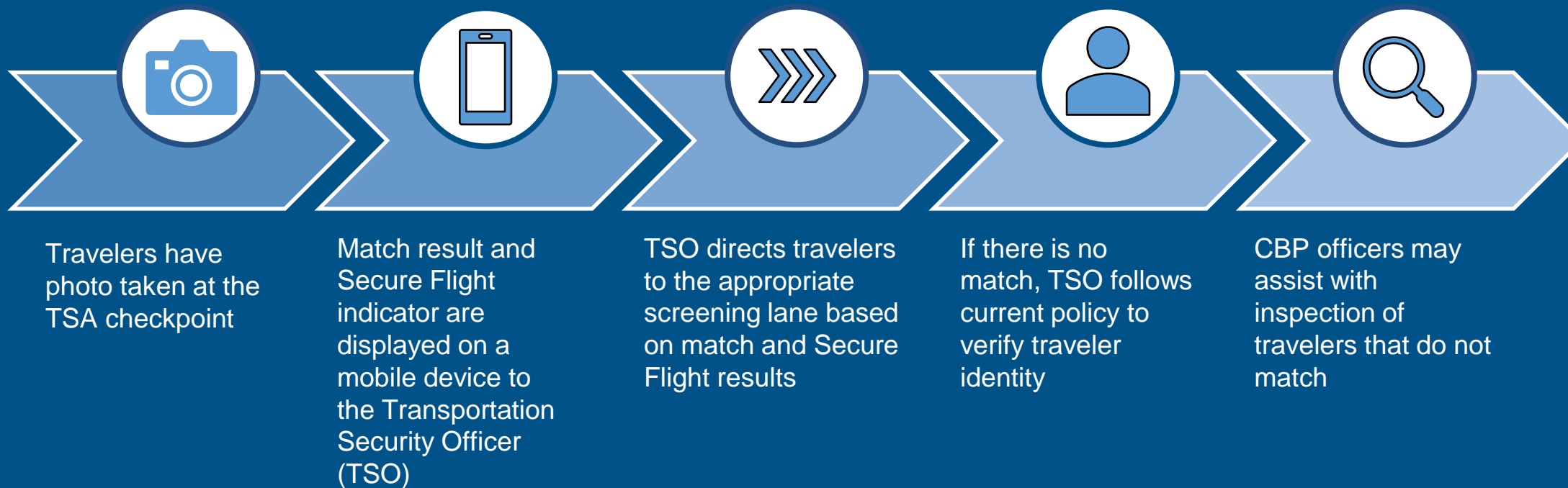


## ← BIOMETRIC ARRIVAL

# Partnership With TSA



Partnering with TSA in 2017 to evaluate facial comparison, TSA's captures photos during check-in, bag drop, or the screening checkpoint (before the traveler proceeds to the gate). TSA is using the photos to verify identity as well as conduct vetting checks via TSA's Secure Flights. For these CBP-TSA partnership, CBP is providing TVS as a service to TSA. We partner to determine the necessary technical and operational requirements, but the screening checkpoint is TSA's mission space, so CBP is in the support role.



# Privacy and Communication



## Biometric performance

- Proactive monitoring of biometric algorithm performance to identify deficiencies
- Based on top-rated NEC algorithm
- Specific areas evaluated include performance differentials and algorithm recommendations based on CBP's various operational environments



## Limited retention of facial images

- U.S. Citizen photos deleted within 12 hours
- Retention of photos by stakeholder partners restricted by CBP business rules
- U.S. citizens can voluntarily participate in the facial biometric process



## Enhanced security measures

- Data encryption both in transit and at rest
- Device access restricted to authorized personnel
- TVS creates irreversible templates separated from biographic data, associated only with a unique ID



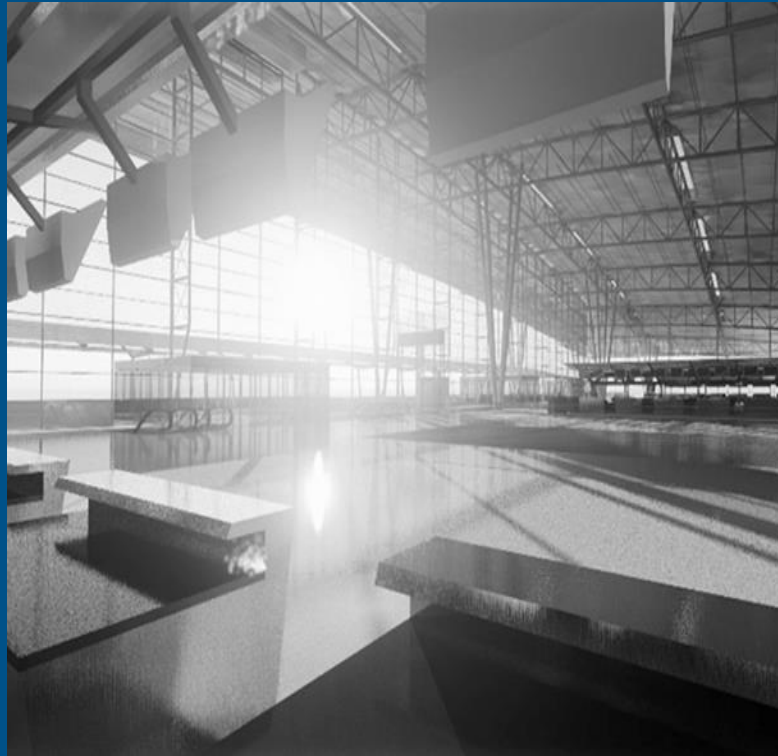
## Traveler Communication

- Extensive communications can be found throughout the passenger journey communicating the biometric process and options

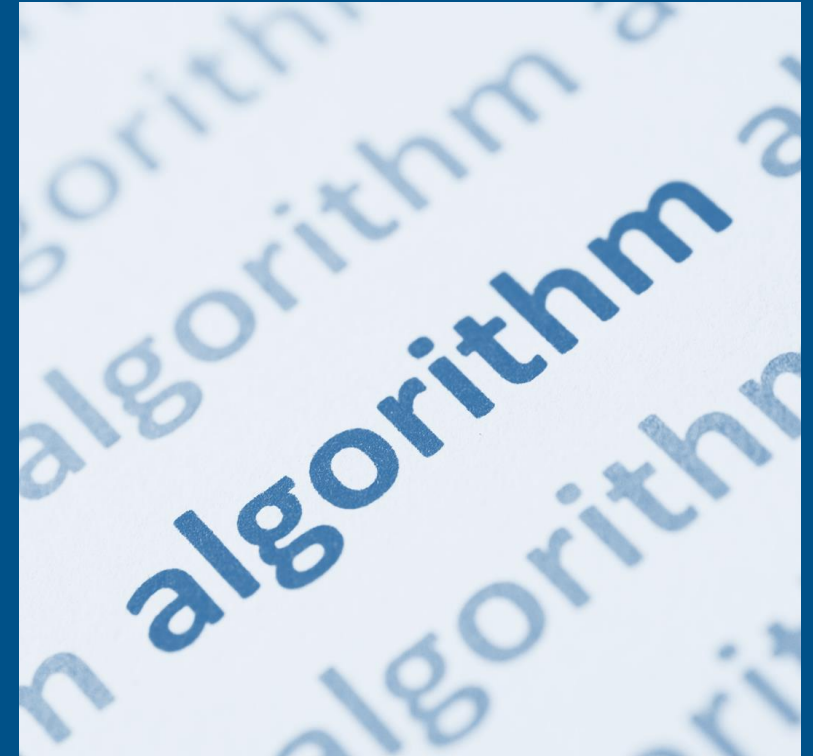
# Lessons Learned



Occlusions



Environmental Variances



Algorithm



# Summary



CBP's Biometric Entry-Exit Program provides enterprise capabilities in an accessible, cost-effective, and efficient way that can meet wide-ranging requirements with minor adaptation. As CBP moves towards the future we are guided by the following principles:

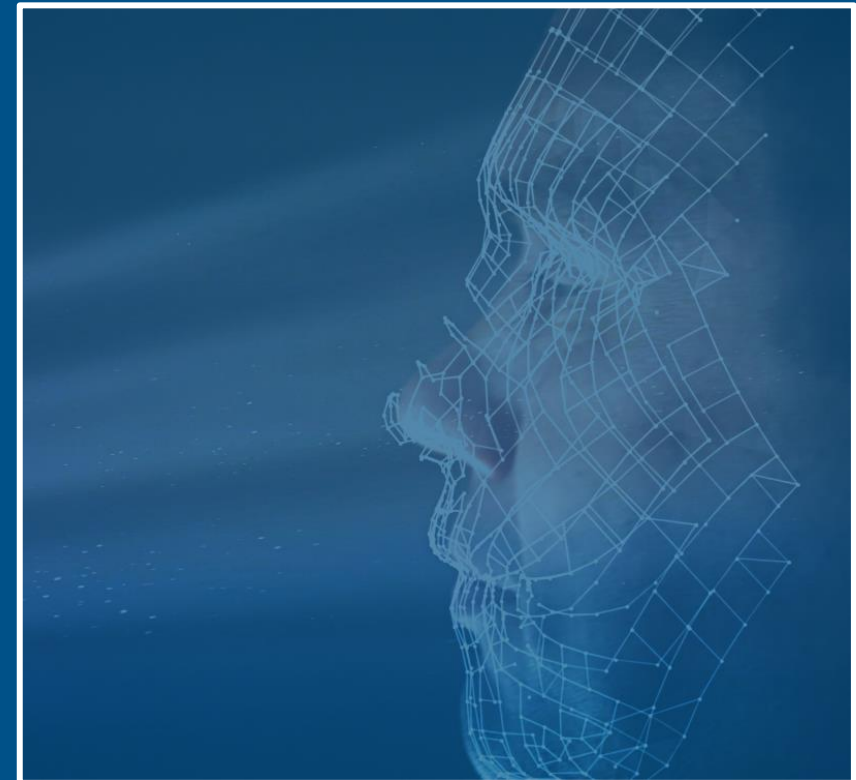
Respecting privacy

Working with stakeholders

Communicating with travelers on new processes

Partnering with industry

Providing options to travelers





# Thank you



Admissibility and Passenger Programs  
Office of Field Operations  
U.S. Customs and Border Protection