

# Second NIST Quality Workshop

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The NIST logo is displayed in a bold, blue, sans-serif font. The letters are thick and blocky, with the 'N' and 'S' having a distinctive shape. The logo is centered within a white rectangular box.

# NIST is grateful to ...

## § The sponsors

- § DHS / US VISIT
- § DHS / S+T
- § DOJ / FBI
- § DOD

## § For

- § Pushing in this area
- § Continued support
  - § esp. these workshops

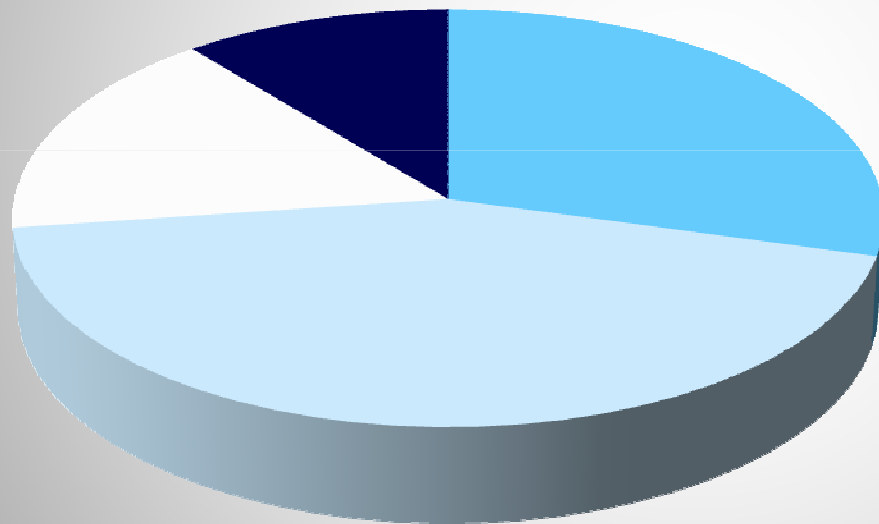
## § The speakers

- § 43 speakers
- § 41 talks
- § ~150 attendees?

## § The audience, for yet-to-be delivered

- § Questions
- § Discussion
- § Suggestions
- § Entropy!

# Participation I



■ Government

■ Industry

■ Academia

■ Consultancy

# Participation II

## § International audience

§ UK, JP, KR, DE, FR, IT, SU, CZ, CA, US

## § Modalities

§ Finger, Face, Iris, DNA (+ Latent Finger)

## § Government

§ 10 agencies present

# Logistics

## § Attendee lists

- § Incomplete in the packet

- § Complete, emailed to you post-workshop

## § Lunch is served both days

- § But no reception this evening - Alternative is the set of ZAGATS quality experts in the folder.

- § Coffee in the room this time ☺

- § And internet access too ☺

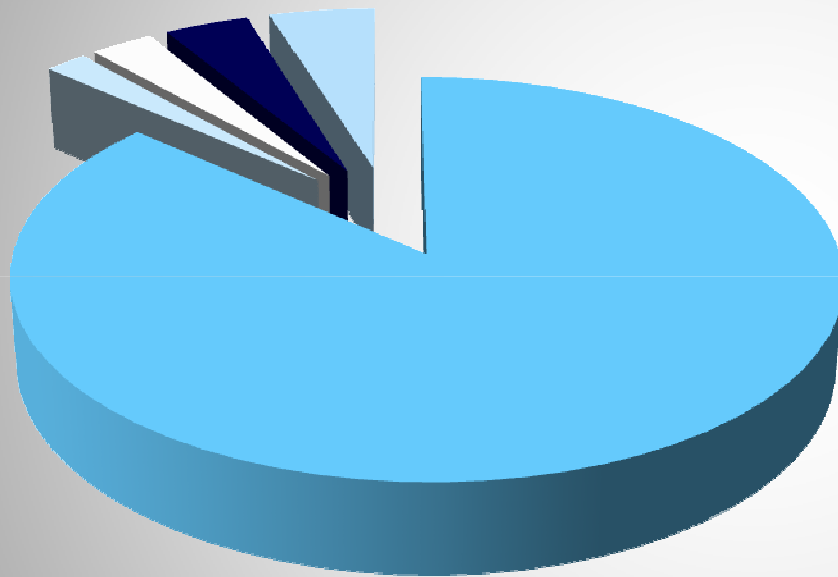
## § Speakers, modifying your slides is OK

- § Please see Elham or Patrick **before** session

## § Mobile phones

# Toward Perfect Biometric Accuracy

## The last $10^{-x}$ percent



- Mostly by design
- Errors from the user
- Errors due to environment
- Errors in imaging
- Errors due to bad character

# Uses of Quantitative Quality Assessment

## § Conditional reacquisition

### § Acceptance for enrollment

§ For credential issuance (visa, passport, CAC, PIV)

### § Acceptance for verification

§ Of the samples just captured which one to send for matching?

§ Or acquire still more?

### § Acceptance for identification

§ Is the subject offering a poor sample deliberately?

## § Initiate invocation of special processing or matching algorithms

## § Quality Monitoring (MIS)

§ Are some biometric field locations giving low quality?

§ Only in the evening?

# Thank You

Feedback is welcome

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# Future NIST Quality Programs

- § Problem: Quality score interoperability
- § Solution: Quality calibration
  - § Multiple databases
  - § Multiple matchers
  
- § Problem: Quality analysis is difficult
- § Solution: Quality evaluation
  - § Offline evaluation
  - § Massive databases

# This is a workshop!

§ Work, what work? We want speakers, participants to

## 1. Identify action items

- § For NIST
- § For the Standards Development Organizations
- § For industry
- § For academia

## 2. Identify trends

- § In industry
- § In government
- § In the marketplace