

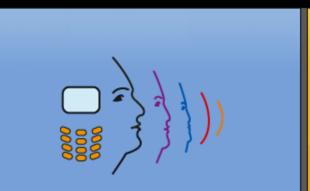


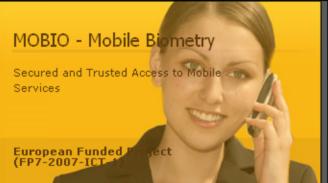


#### **MOBIO Database**

### **Christopher McCool**

# MOBIO Technical Meeting, Sep.15-16, 2009 EyePmedia – 1020 Renens













### **MOBIO Database**

#### Phasel

- Summary
- How it will be used (ICPR 2010)
- Protocol: I need your help here

#### PhaseII

- Summary
- Progress to date

#### Future Plans

- Distribution of the database
- Distributing the protocol
- The amount of data and processing it all









# Summary

- Collection for Phasel has been successfully completed
  - Total users: 158
    - » BUT: 33 IDs,
    - » Idiap: 28 IDs
    - » LIA: 24 IDs
    - » UMan: 27 IDs
    - » Unis: 26 IDs
    - » UOulu: 20 IDs
  - Sessions per user
    - » Mobile phone: 6 sessions
    - » Laptop: 1 session (enrollment)
- Data per user
  - Approximately 30-45 minutes of data per user (guesstimate)









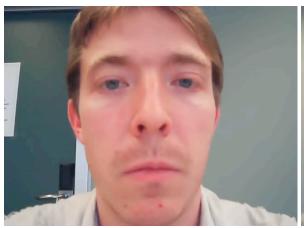
- ICPR MOBIO Face and Speaker Verification Evaluation
  - Distributing some of the data to participants
  - Developing a simple protocol
    - » Using mobile phone data
  - Provides international coverage







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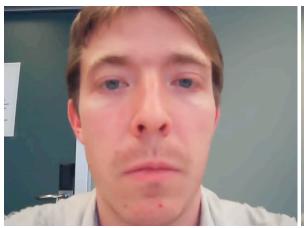








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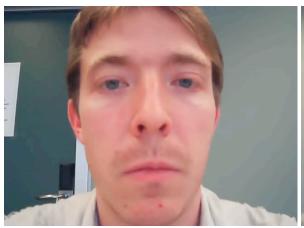








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# Assistance Required

- Speech people for developing a protocol for Phasel
  - Problems:
    - » One microphone sometimes fails (we haven't tracked/ annotated this)
  - Sessions per user
    - » Mobile phone: 6 sessions
    - » Laptop: 1 session (enrollment)
  - Multiple conditions:
    - » Enrol using one entire session or only bits and pieces from this one session?
- Model adaptation protocol
  - How do you want to define this problem?









# Summary

- Second phase of data
  - Provides a longer period of capture
  - More data
    - » In the end approximately 1 hour of data per user
  - Capture in more challenging environments??
    - » Are we really doing this at all?
- · Open the problem of impostor attacks to each site
  - Can we develop several different kinds of attacks on biometric systems?



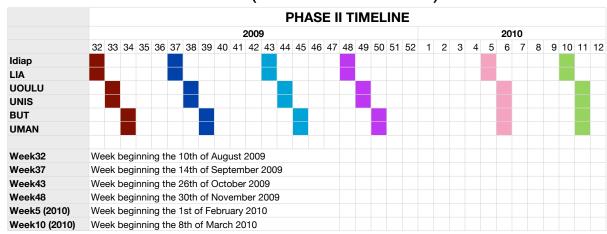






# Progress so far

- UOULU: 2 sessions (on schedule)
- LIA: 1.5 sessions (on schedule)
- Idiap: 1 session (1 week behind for the 2nd session)
- UMAN: started (behind schedule -- phone problems still)
- BUT: started (behind schedule)
- UNIS: started (behind schedule)











#### Reminders

- Please collect the data!
  - Some sites have expressed the first one or two sessions will have a delay, but afterwards we need to be on time
- Capture environment
  - Please remember to open the windows and/or doors (to add more variable noise)
- Consider how to do an active impostor attack
  - How would you plan to do this, perhaps each site can develop its own impostor attack









### **Future Work**

#### Distribution

- ICPR Competition
  - Hear a response 28th September 2009
- Joint paper on the use of the database
  - One of the first large-scale audio-video face evaluations
  - Informing the scientific community of baseline results
  - Defining a protocol to use
- Upload samples to website
  - To inform people about the database and how to get it
- Consider other competitions









### Thank you for your attention









# **ICPR** Competition

- Video-based face recognition
  - Problems
    - The MOBIO database is big:
      - » Running a baseline is a challenge
    - Reducing the problem
      - » Using just the first five (fixed questions) as the "videos"
  - Is each video file a separate observation
    - Do we score: per video file? per session?







### Thank you for your attention

