3D Face
Biometric Research

End-Users' Group Meeting
Berlin

21th of February 2008

3D Face Prototype Integration

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3D Face Prototype

- Context of the system prototype: tests on field
- Tests organization
- Prototype physical layout
- Enrolment session
- Verification session
- Scientific work during the tests

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3D Face Prototype
Tests on field

- A prototype dedicated for tests on field.
- 3 sites:
  - Berlin Airports (Schönefeld)
  - BKA (Wiesbaden)
  - Salzburg Airport
- Foreseen number of volunteers:
  - Berlin: 100
  - BKA: 100
  - Salzburg: 200

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Tests organization

- 1rst of July 2008: Software and hardware are ready for deployment
- Steps of the tests:
  - Enrolment of the participants
    - the enrolees get a 3D FACE RFID card
  - Access control tests
    - the participants use the system as an access control system
    - the pilot system does not replace the legacy system
  - At regular intervals: back up of some data for off line research

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What offline use of which data ?

- **Goals of the Backups:**
  - **Be able to replay performance tests**
  - **Data exchanged in a very strict legal frame**
  - **Use of “anonymous” data only**

- **What is logged:**
  - **participant ID (only airports keep correspondence between names and Ids)**
  - **2D+3D acquired data + processed data**
  - **number of verification sessions (incentive policy)**
  - **Statistics on verification success**

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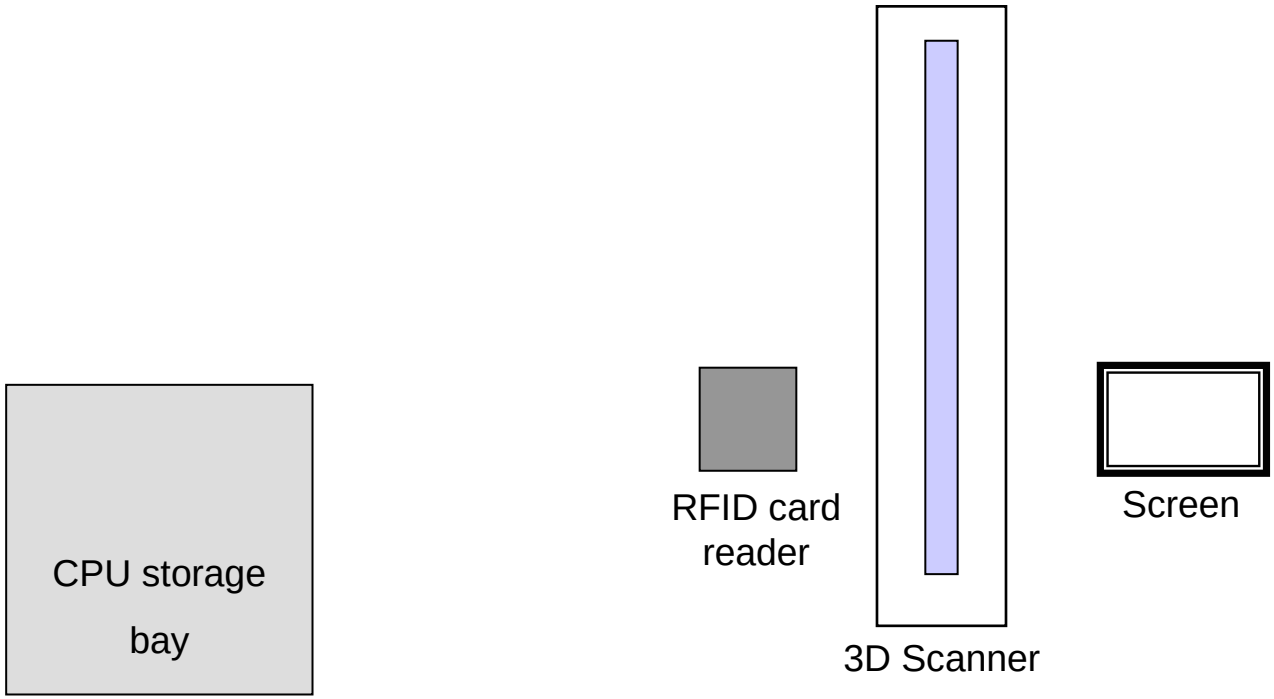
3D Face Prototype
Prototype layout



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3D Face Prototype
Prototype layout

- **Data stored on the token:**
  - **Participant ID and Height**
  - **Biometric templates / Biometric data**
- **3D Scanner:**
  - **Performs**
    - ***height adjustment***
    - ***2D High Resolution and 3D acquisitions***
  - **Eye safe (60825-9)**

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Enrollment session

- **Enrolment session**
  - **enrolment time: around 5 minutes (time necessary for explanations)**
  - **Enrolment procedure …..**

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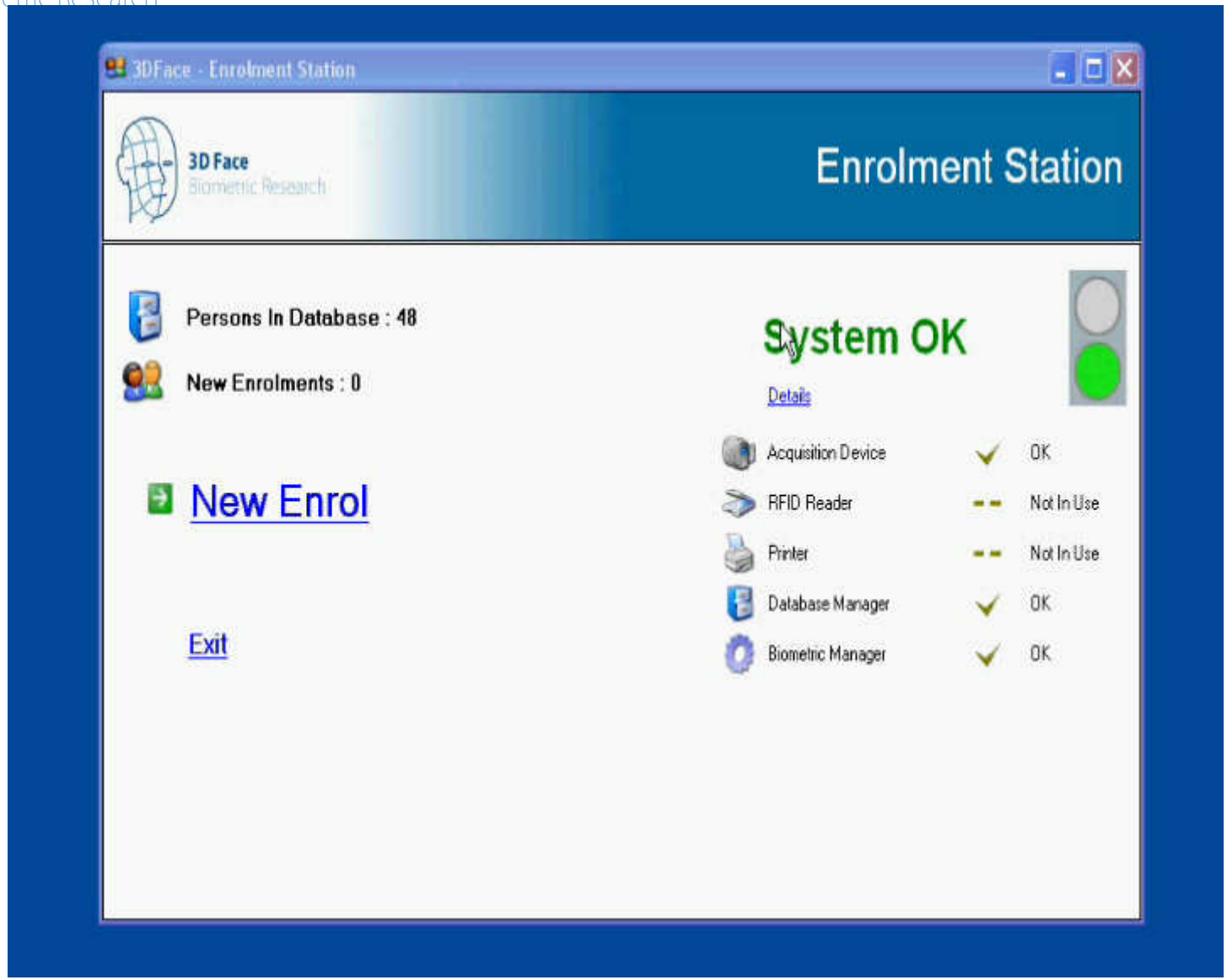

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Verification session

- **Verification session**
  - **Verification time: between 10 and 20 seconds (depending on the tested scenario)**
  - **Verification procedure ...**

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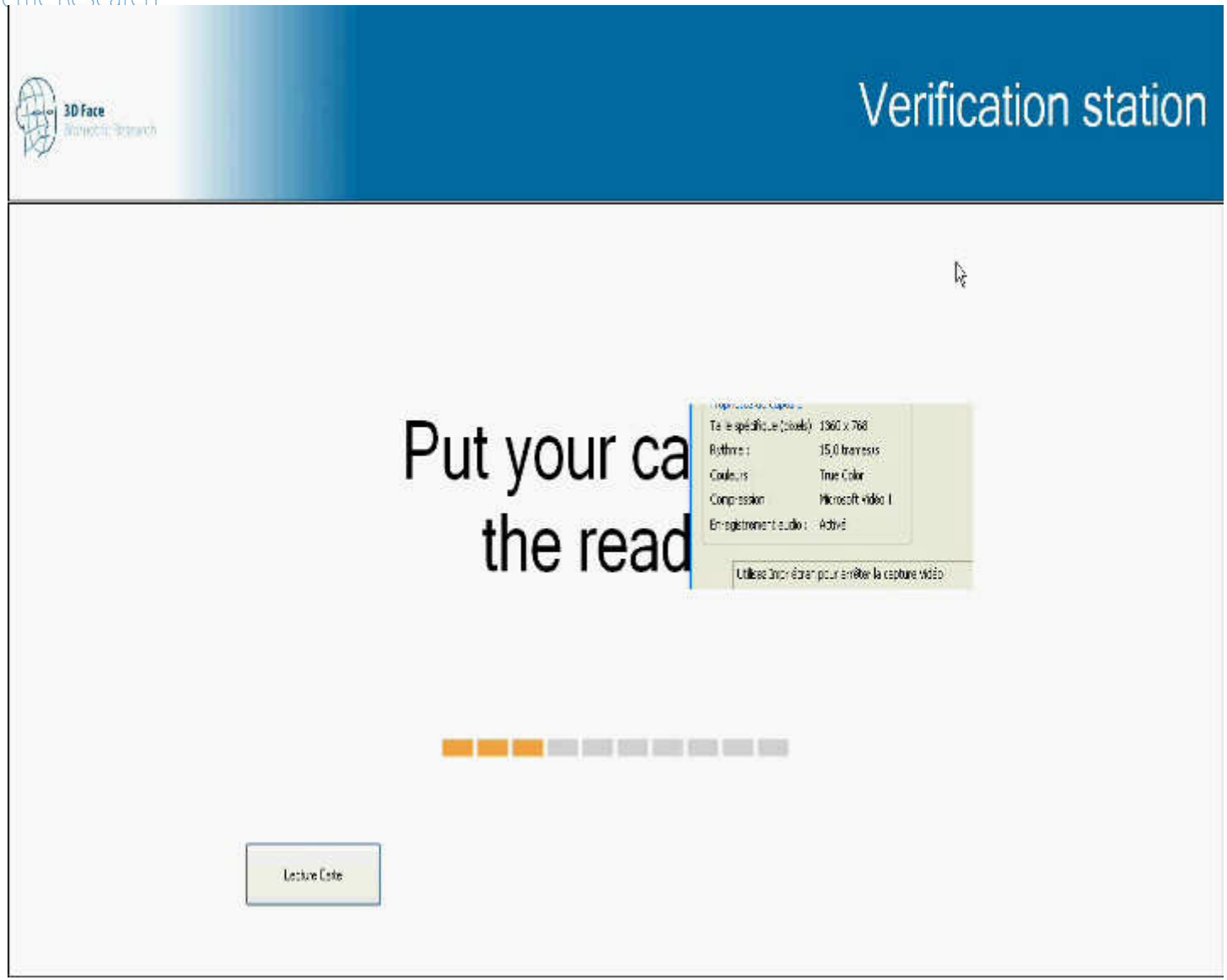

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scientific work during the tests

- **On the field:**
  - **system ergonomics**
  - **users acceptance**
  - **different scenario:**
    - **template on the card**
    - **template on a database**
    - **template privacy**
- **Tests off line**
  - **false rejection analysis**
  - **false acceptance tests**
  - **algorithms improvements**

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Thank you

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