

## WP7 - Dissemination

Honza Černocký

**MOBIO Review Meeting, Sep.16-17, 2009**

**EyePmedia – 1020 Renens**

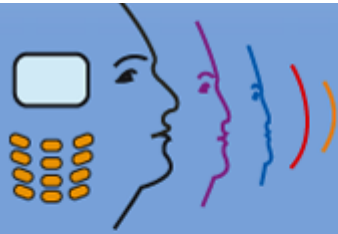


**MOBIO - Mobile Biometry**

Secured and Trusted Access to Mobile Services

European Funded Project  
(FP7-2007-ICT-1)

**Be on the vibes**



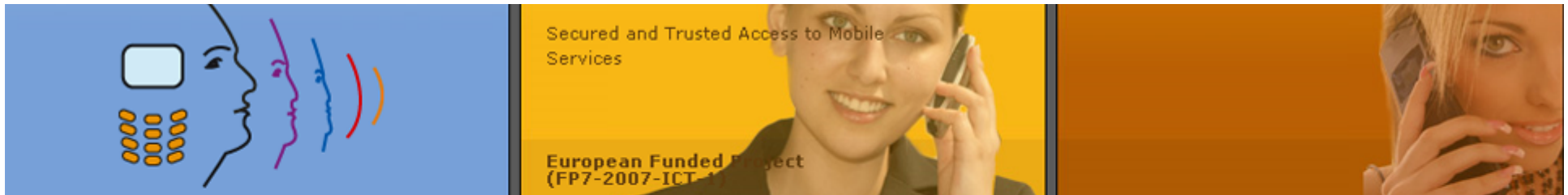
Secured and Trusted Access to Mobile Services

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## Outline

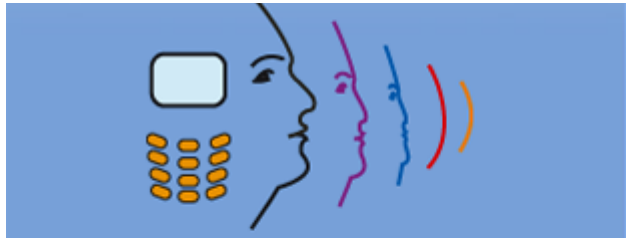
- Scientific dissemination
- Dissemination to general public
- Evaluations
- Web page
- Projects with synergies to MOBIO
- Public resources
- Forthcoming events
- Summary



## Scientific dissemination – I.

- Conference proceedings:
  - 14 papers in 2008, ~18 in 2009 (so far).
  - Major speech (Interspeech, ICASSP), and video (ICB, BMVC) conferences
  - Several papers accepted for publication in 2009.
  - **Award:** UNIS paper on semi-supervised learning problem in bimodal authentication, ICB2009
- Journal papers:
  - Not published so far
  - But 3 accepted for publication
    - UNIS: IEEE Trans. on Information Forensics and Security
    - UNIS: IEEE Trans. on Systems, Man, and Cybernetics (part B)
    - IDIAP: Pattern Recognition Journal

have a look for complete publication list at <http://publications.mobioproject.org/>



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## Scientific dissemination – II.

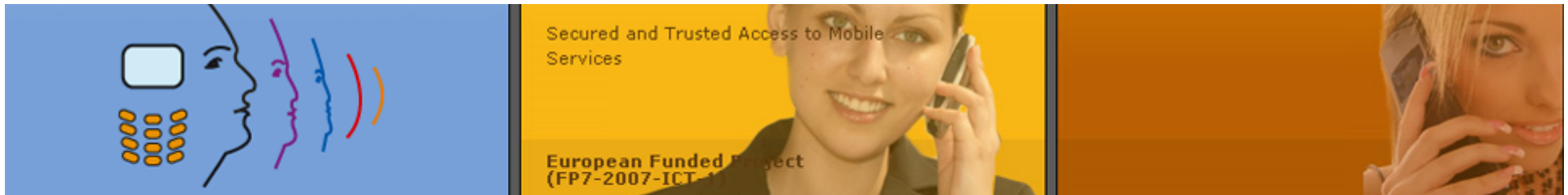
- Workshops

- Johns Hopkins 2008 “Robust Speaker Recognition Over Varying Channels”

- Lead by Lukas Burget [BUT]
    - 5 world’s most known speaker recognition researchers took part.
    - BUT helping also with resources
    - + JHU 2009



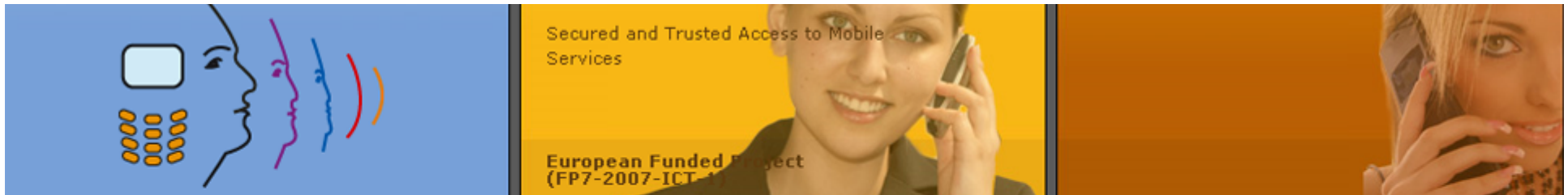
- September 2009, Matti Pietikäinen [UOULU] will co-organize an **International Workshop on Machine Learning for Vision-based Motion Analysis (MLVMA'09)** In conjunction with IEEE International Conference on Computer Vision 2009 (ICCV'09).



## Scientific dissemination – III.

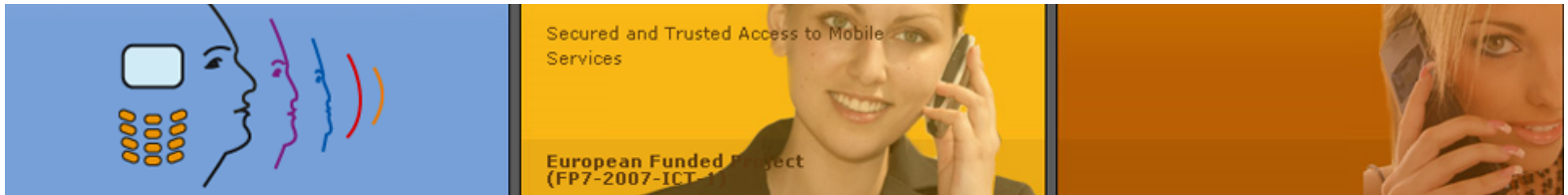
- Invited talks 2008
  - June 2008, Sebastien Marcel [IDIAP] – tutorial on face detection and recognition at Gjøvik University, Norway
  - December 12, 2008, Matti Pietikainen [UOULU] - invited talk on spatio-temporal local binary patterns at the University of Maryland Institute for Advanced Computer Studies (UMIACS), USA.
  - November 2008, Abdenour Hadid [UOULU] - tutorial on Local Binary Pattern Approach and its Applications to Face Analysis at the international Workshops on Image Processing Theory, Tools and Applications (IPTA'08), Sousse, Tunisia.





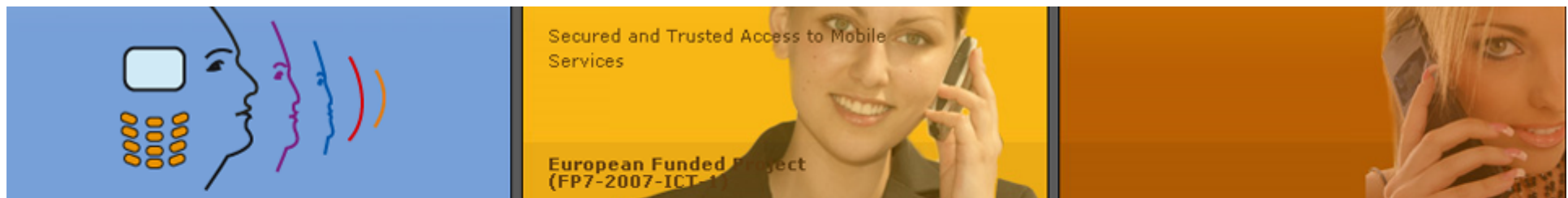
## Scientific dissemination – III.

- Invited talks 2009
  - July 2009, Abdenour Hadid [UOULU] gave a series of lectures and seminars in Japan: University of Tokyo, Tokyo Institute of Technology, and Nissan Research Center.
  - September 2009, Abdenour Hadid [UOULU] will present a tutorial on Image and Video Analysis Using Local Binary Patterns at the Asian Conference on Computer Vision (ACCV 2009) in Xi'an, China.
  - September 2009, Matti Pietikäinen [UOULU] will present a tutorial on Local Texture Descriptors in Computer Vision at the International Conference on Computer Vision (ICCV 2009), Kyoto, Japan.
  - July 2009: Honza Cernocky [BUT] had speaker verification talk at University of Crete (ICS Forth institute).
  - Guillaume Heusch, Chris Mc Cool and Sebastien Marcel at the IAPR/ IEEE International Conference on Biometrics (ICB 2009).
  - Sebastien Marcel was invited to give a presentation on MOBIO at the 1st ACTIBIO Workshop held during INFOSECURITY in London on April 28 2009.



## Dissemination to General public - I.

- **Newspapers**
  - UOULU prepared a press release about the MOBIO project on July 4, 2008, just before the project meeting in Oulu. After this, some newspapers and net magazines published short articles about the project.
  - Press release on Timo Ahonen's dissertation in 2 Finnish newspapers Kaleva, and Helsingin Sanomat
  - BUT's activities in speaker and language identification presented in a 2-page paper "Halo, tady Usama" ("Hello, this is Ossama") in a respected economic magazine "Euro".
- **Talks at general seminars, high management meetings and to company people**
  - International advisory board of IDIAP (IBM, MS, Berkeley, ...)
  - Czech Ministry of Interior

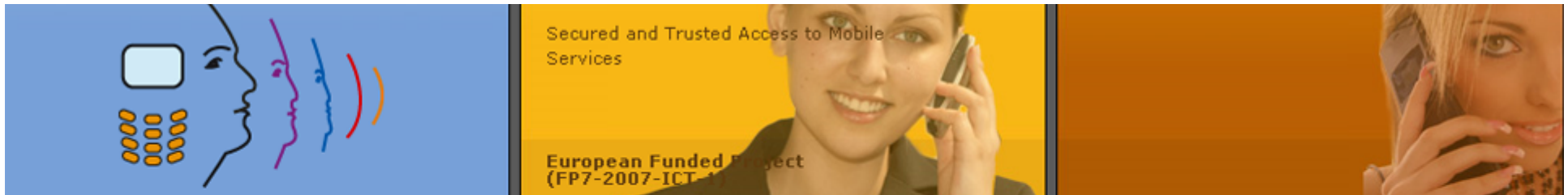


## Dissemination to General public - II.

- TV, Radio
  - BUT speaker identification activities were presented in the science magazine PORT in a report broadcast on 12th November 2008 on the 2nd channel of Czech state TV.
- Teaching
  - University partners involved

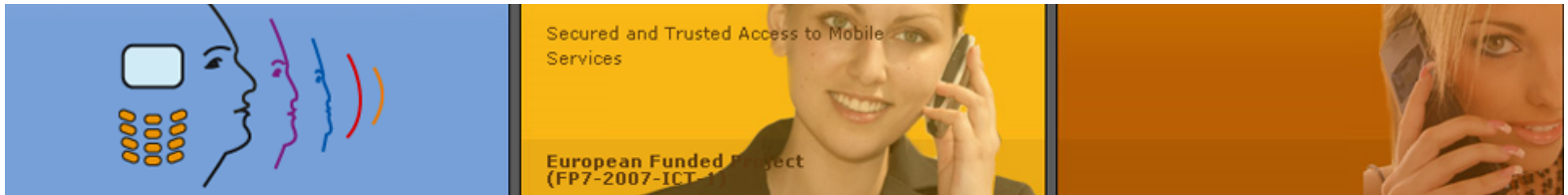






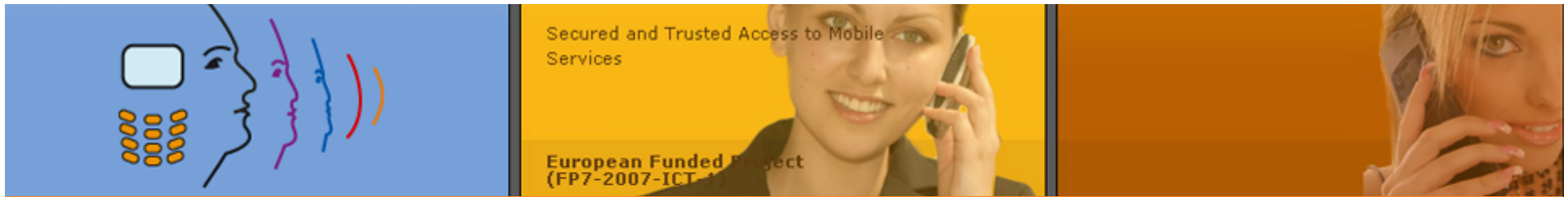
## Evaluations – I.

- **MOBIO Internal**
  - Described in D7.1 (M5)
  - Until MOBIO data available, BANCA database and experimental protocols.
  - Discussion and draft definition of MOBIO evaluation at this meeting.



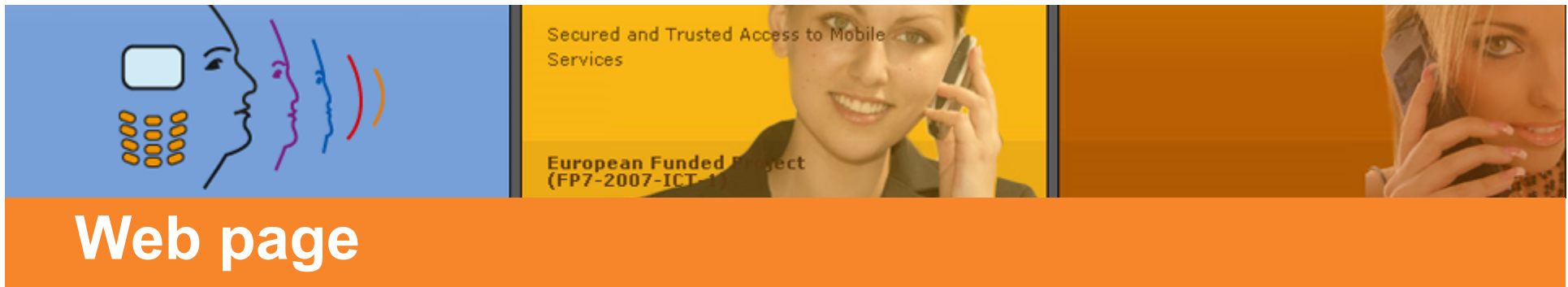
## Evaluations – II.

- **ICB2009 face verification competition**
  - UNIS has coordinated the first known effort in assessing video-to-video face matching under unconstrained environment (with mobile devices)
  - The result of the competition presented in the International Conference on Biometrics 2009, in Sardinia.
  - Six academic institutes have participated, including IDIAP (which contributed to a significant number of system submissions).
  - See separate presentation of UNIS.
- **NIST 2008 speaker recognition evaluations**
  - BUT and LIA participated
  - Their systems were very successful in the evaluation and received significant attention at the post-evaluation workshop held in Montreal, Canada.

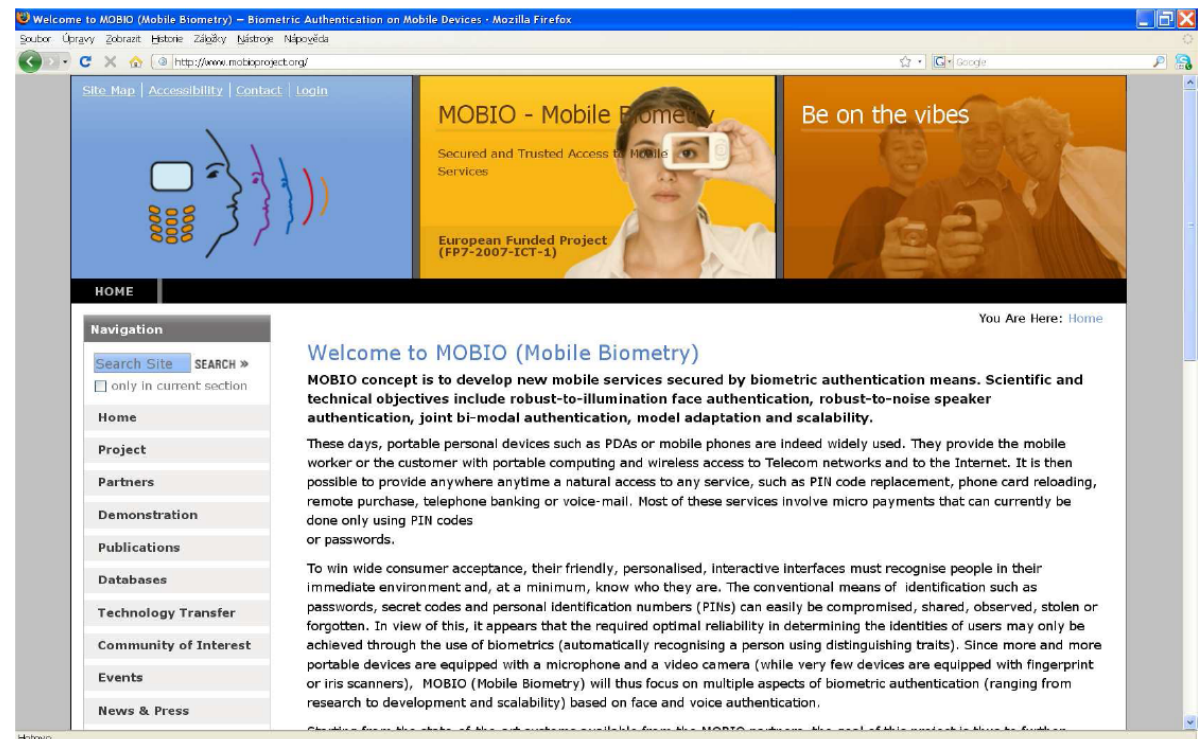


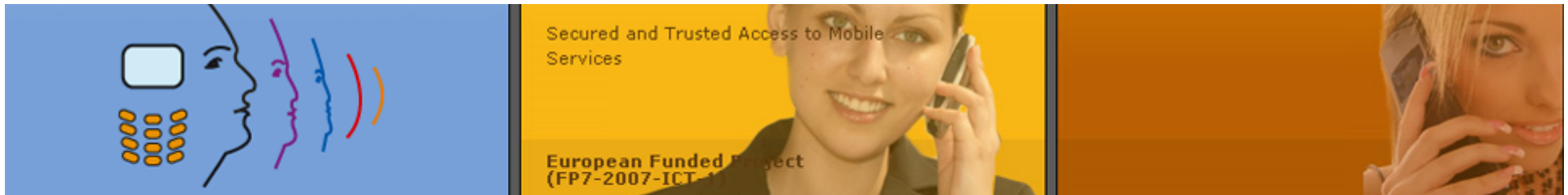
## Evaluations – III.

- **Multimodal Biometric Grand Challenge**
  - UNIS participated with University of Cambridge
  - One component of the competition that is relevant to MOBIO is still-to-video face verification
- **NIST language recognition evaluations**
  - BUT participated, LIA unofficially.
  - out of scope of MOBIO, but many techniques ported from SRE to LRE (JFA)
- **Interspeech 2009 Emotion Detection Challenge**
  - Although no previous track in emotions, BUT won a prize in 2-class detection.
  - out of scope of MOBIO, but again techniques ported from SRE.



- Fully operational, maintained by IDIAP
- Public and private (repository and wiki) sections
- Includes publication section

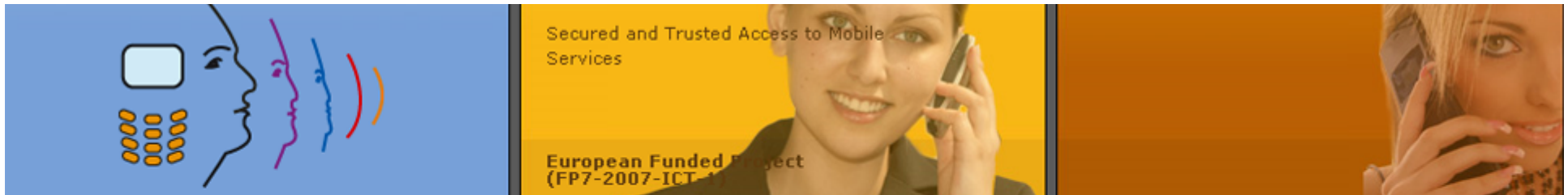




## Projects with synergies to MOBIO – I.

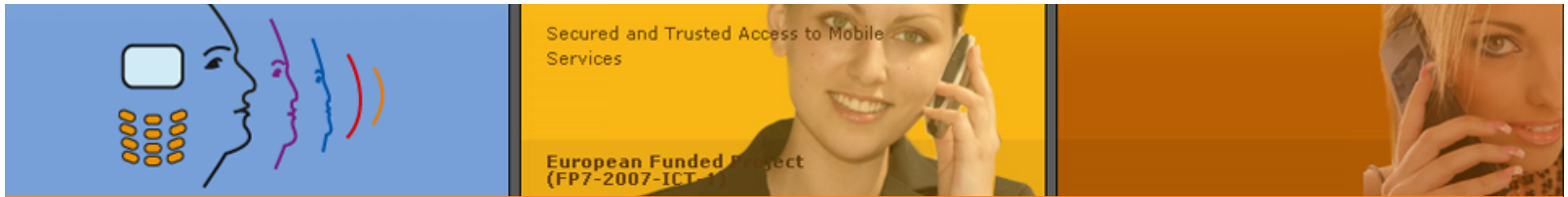
- BUT
  - “Security-Oriented Research in Information Technology” sponsored by Czech Ministry of Education, 2007-2013.
  - together with two other Czech speech groups on project “Overcoming the language barrier complicating investigation into financing terrorism and serious financial crimes” sponsored by Czech Ministry of Interior, 2007-2010.
  - Project proposal to US IARPA (in cooperation with SRI) in negotiation.
- UOULU
  - collaborative project “Joint Research in Face Analysis and Visual Surveillance” with Prof. Stan Z. Li, Institute of Automation, Chinese Academy of Sciences. UOULU is funded by the European Regional Development Fund (ERDF), the Finnish Funding Agency for Technology and Innovation (Tekes), and four companies.
  - research projects funded by Nokia in areas of image & video processing and computer vision.





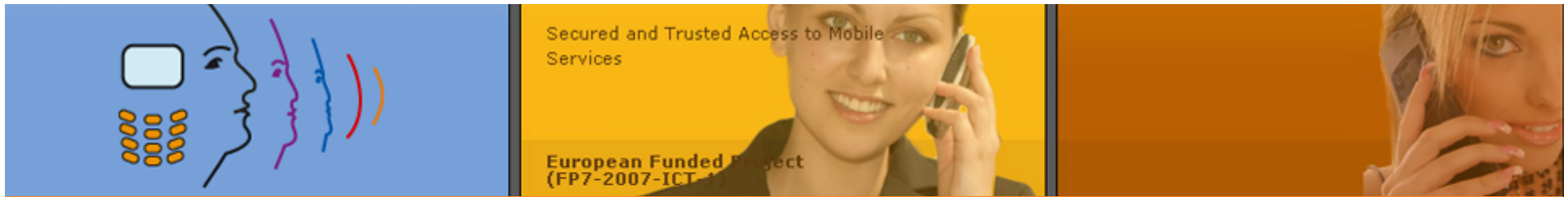
## Projects with synergies to MOBIO – II.

- UNIS
  - N. Poh's (UNIS) personal research funding, awarded by the Swiss NSF advanced researcher fellowship grant, to carry out research on complex adaptive multiple classifier systems.
- IDIAP connections to French clusters:
  - SYSTEM@TIC PARIS-REGION
  - Secured Communications
- MOBIO as whole
  - ACTIBIO
  - Eager to work with healthcare projects – thanks Eleni.
- IST-Security Call 3 approaching
  - Some new proposals being discussed.



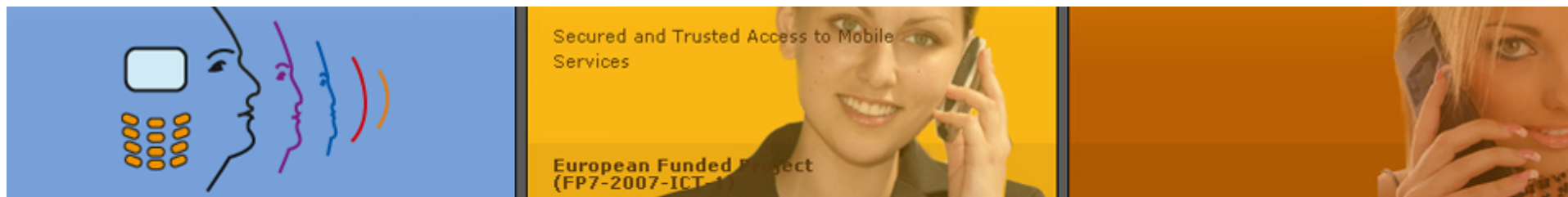
## Public resources

- MOBIO database
  - First release for ICPR 2010
- Public SW:
  - Baseline systems (tbd.)
  - BUT JFA tutorial demo, <http://speech.fit.vutbr.cz/software>



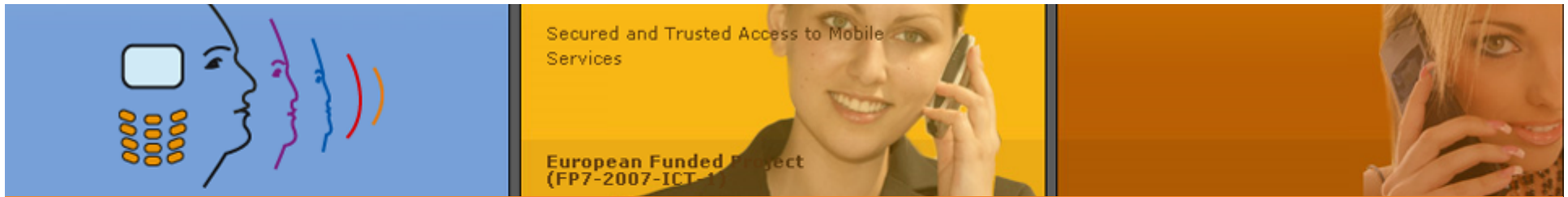
## Forthcoming events

- ICPR 2010 call for contests: MOBIO face and speaker evaluation.
  - Submitted a proposal for MOBIO challenge
  - On MOBIO data
  - The **same protocol** as MOBIO participants
  - Answer by 28<sup>th</sup> September
- Odyssey2010 – major SRE conference organized by BUT, ISCA support
- NIST 2010 SRE evaluation workshop also at BUT, satellite of Odyssey



## WP7 deliverables

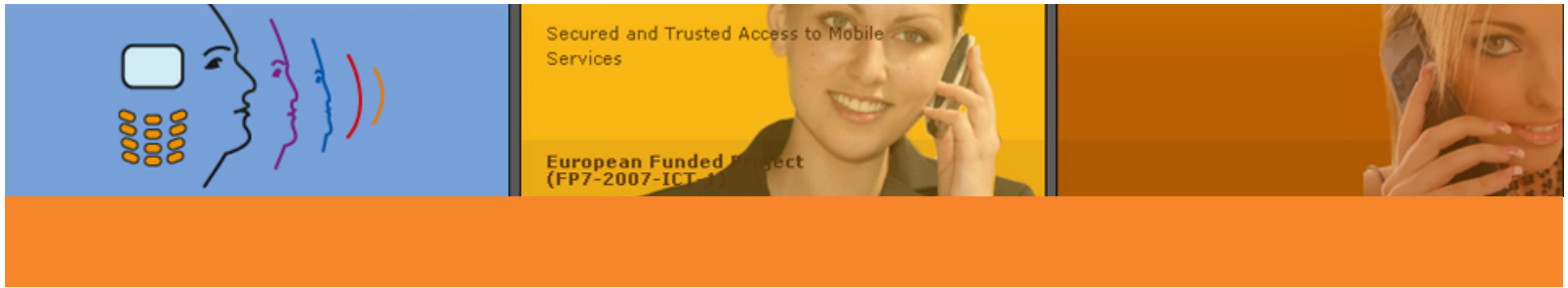
D7.1 Planning of evaluation campaigns M5	OK
D7.2 Implementation of the Col, Internet portal of MoBio technologies M14	OK
D7.3 First report on dissemination activities M14	OK
D7.4 Second report on dissemination activities M26	Y2010
D7.5 Final report on exploitation activities M36	Y2010



## Summary

- People *do know* about MOBIO project
- People *do know* about individual partners' activities in domains covered by MOBIO, as well as in related areas
- Pursuing the excellence – working with top sites and top people in speech, video and bi-modal person authentication.
- Serving the community by organizing events (evaluations, workshops)
- Successful in industrial relations.





**Thank you for your attention**