

Face Video Competition

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Presented by John Haddon



MOBIO Review Meeting, Sep.16-17, 2009

EyePmedia – 1020 Renens

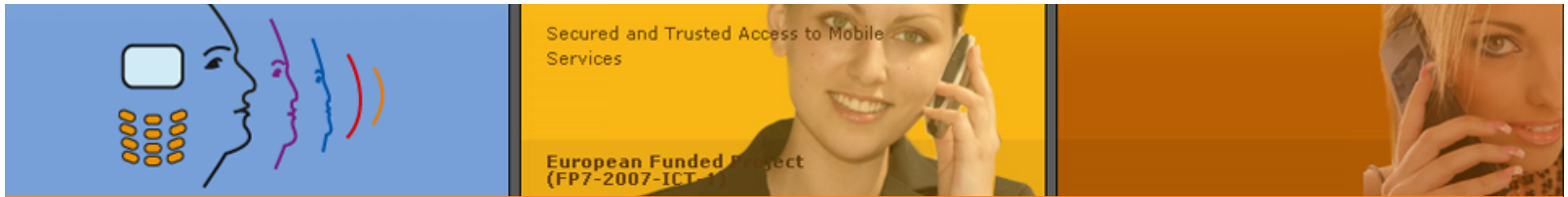


MOBIO - Mobile Biometry

Secured and Trusted Access to Mobile Services

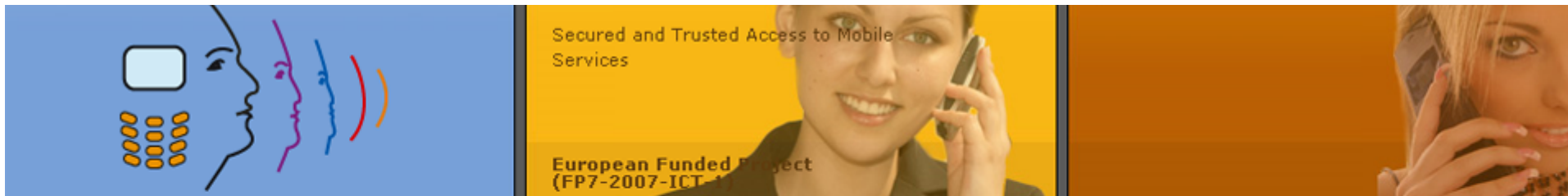
European Funded Project
(FP7-2007-ICT-1)

Be on the vibes

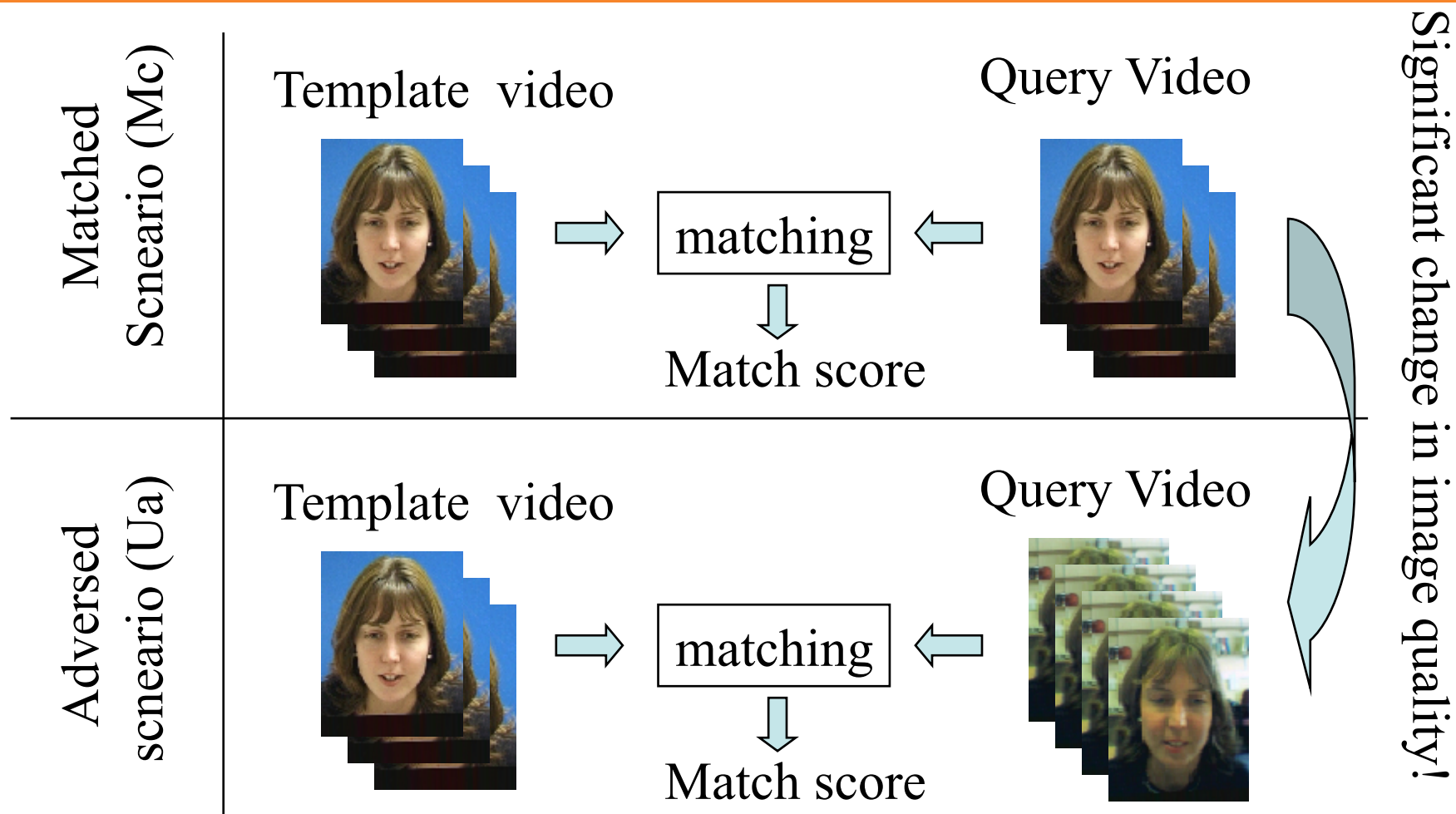


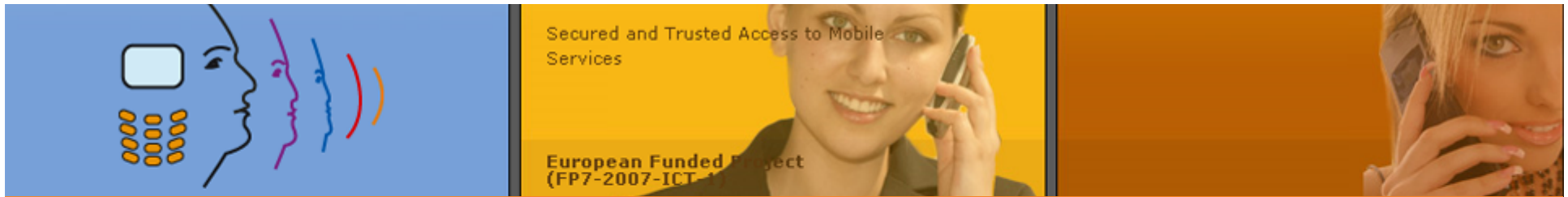
Objectives of Evaluation

- To promote the development of algorithms for **analyzing video sequences** (e.g., exploring the talking face dynamics).
- To assess the merit of **multi-template** face representation.
- To assess the usefulness of **quality measures** in video-based recognition.



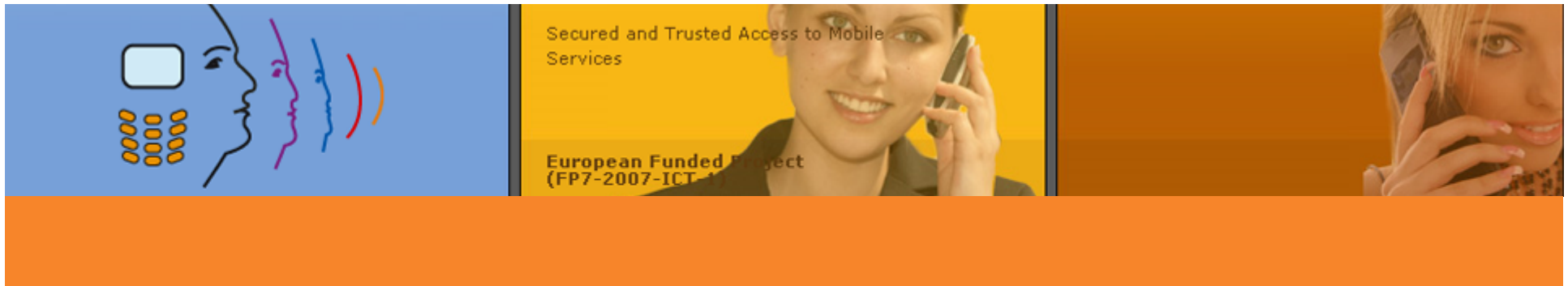
Video-to-Video Matching



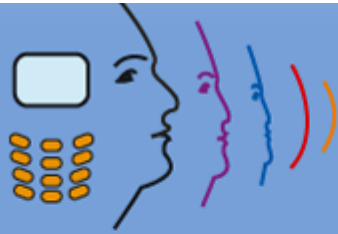


Some Statistics

- 7 research institutes
- 18 algorithms
- 1 conference paper + 1 draft journal

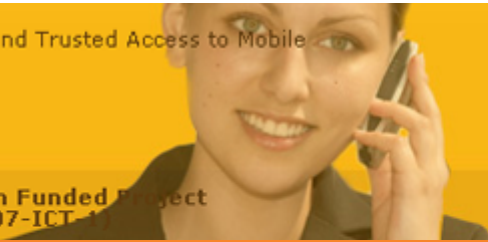


	Parts-based approach	Holistic approach
Frame-based approach matching	11 systems	6 systems
Video-to-video (image-set) matching	None	1 systems (mmu)

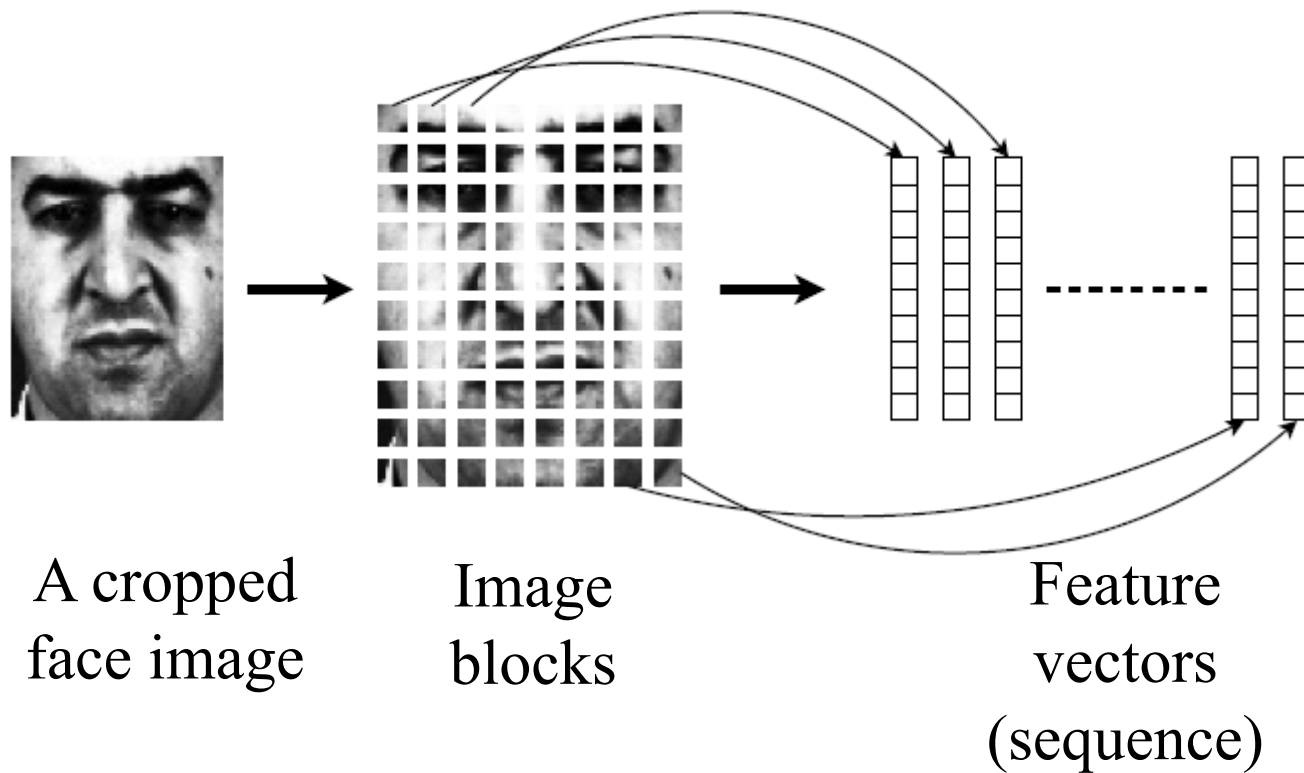


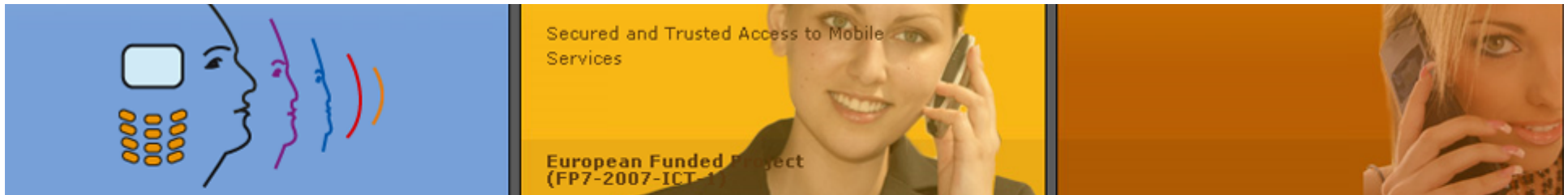
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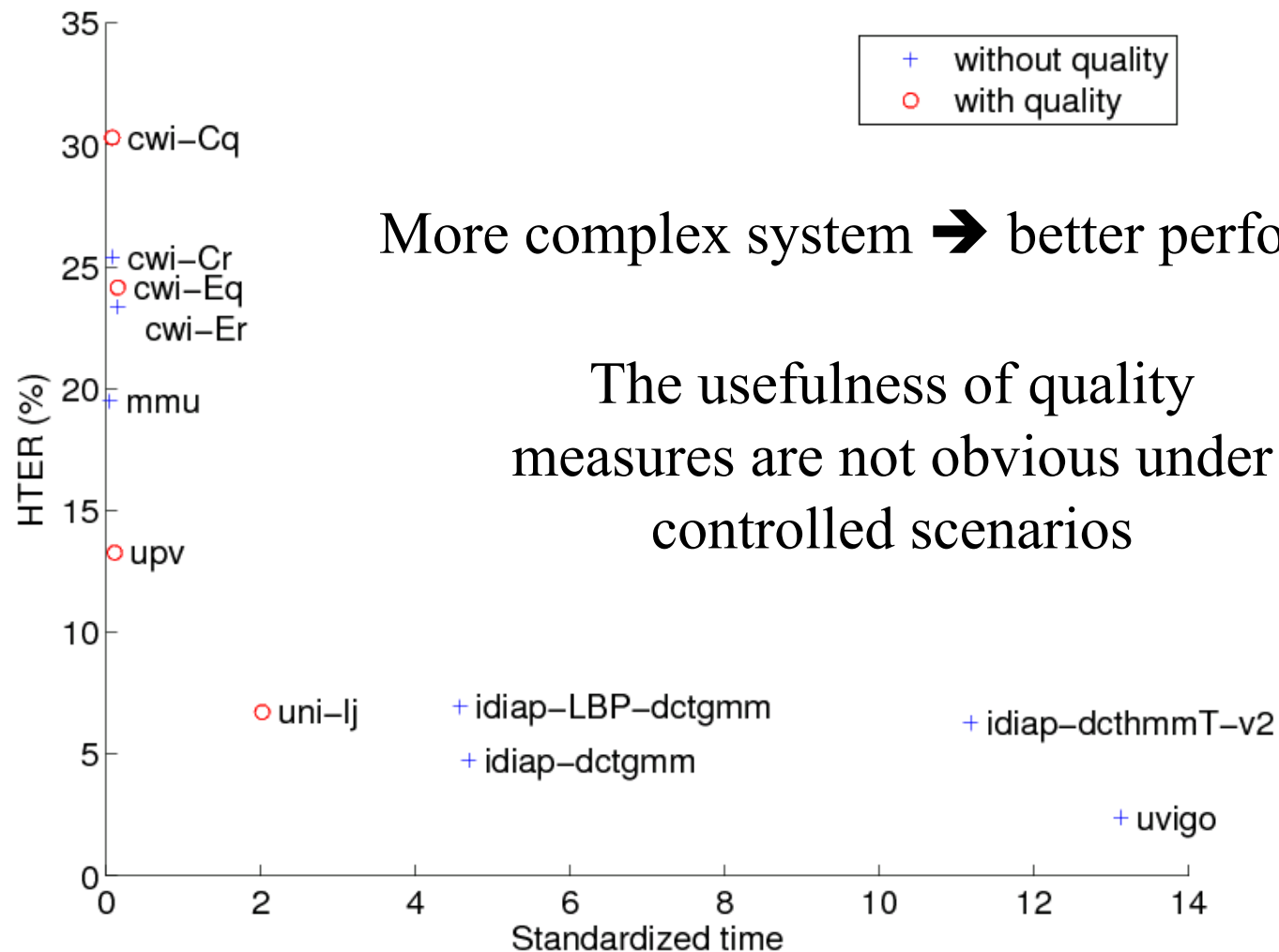


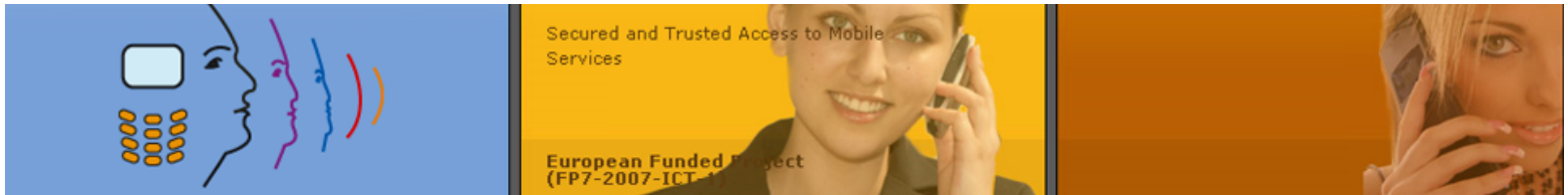
Parts-Based Approach



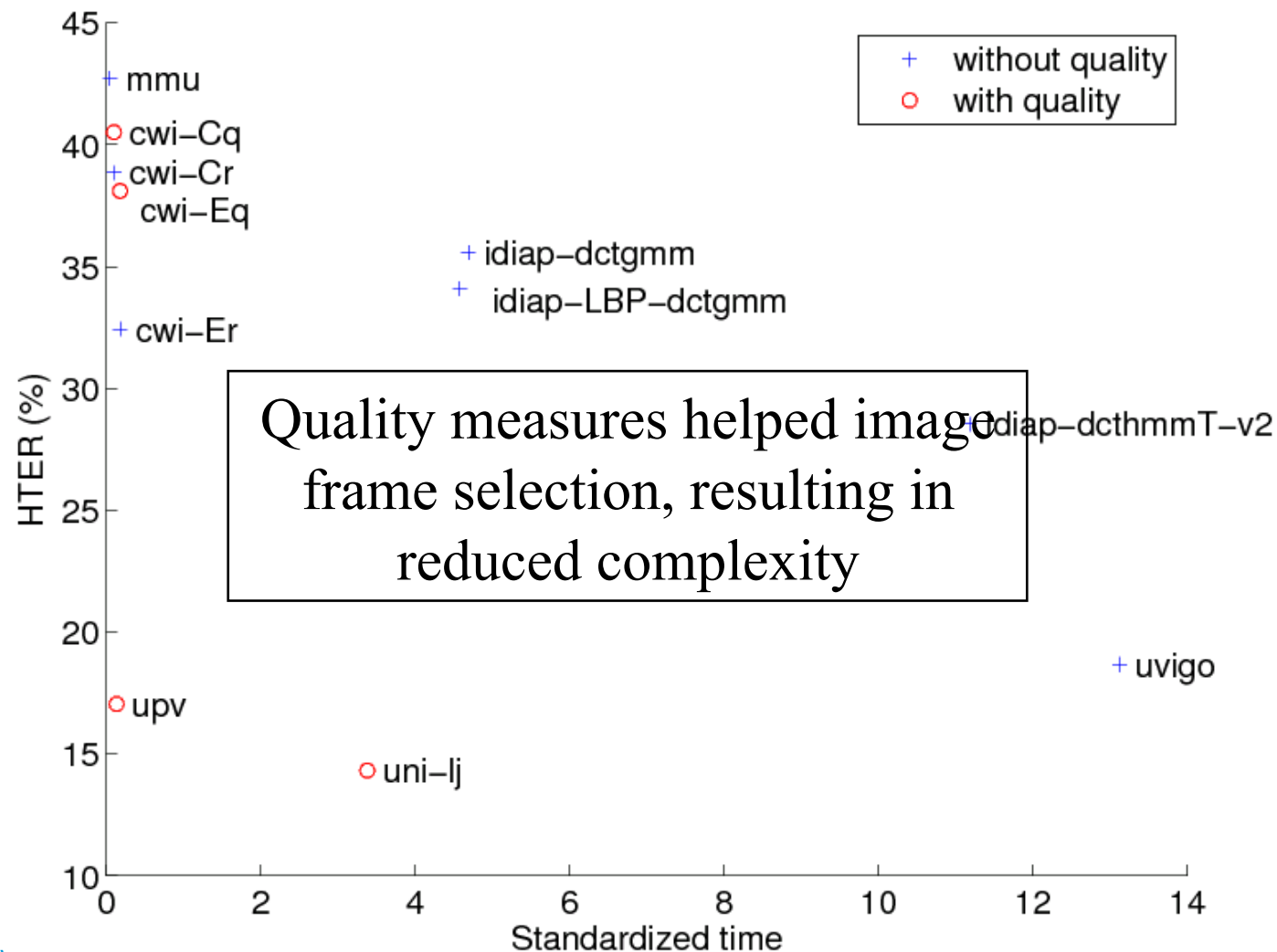


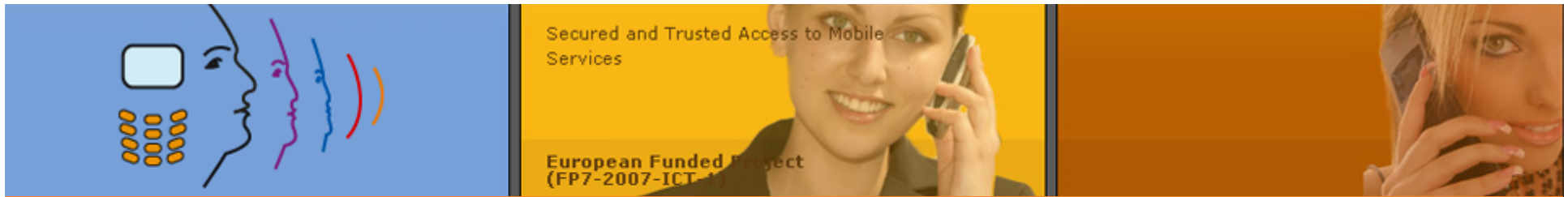
Cost-Performance Analysis: Mc (controlled)





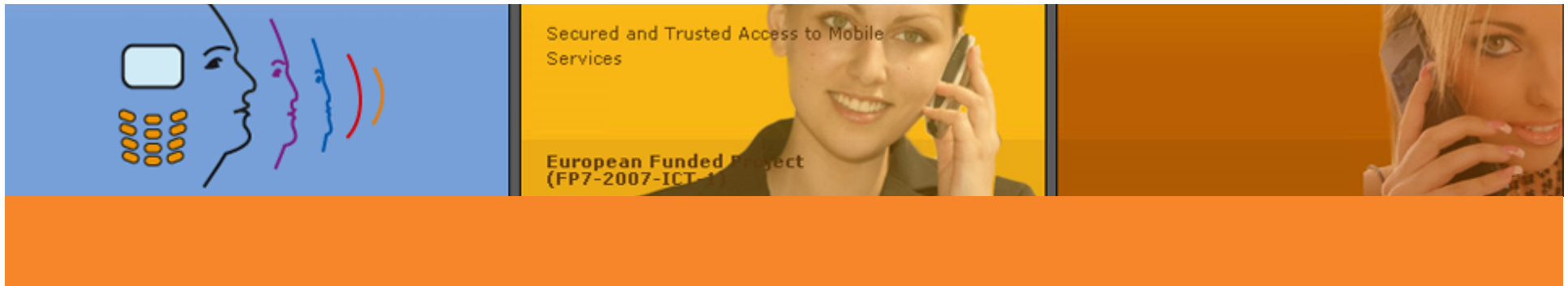
Cost-Performance Analysis: Ua (adversed)





Summary

- First known video-based face evaluation
- Parts-based approach offers better robustness to face localisation than the holistic approach, leading to better performance in practice
- More complex systems generally perform better
 - System complexity was established using a standardized time



Thank you for your attention