The Historical Perspective

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Look into the future

- Sophisticated life ==> context separation, context connection, context switching

- We will see more deployment of biometric systems, probably not only because of Big Brother wants to do so, but because of the sophistication of our day life.

Look back at the history

- Simon's historical examples conform to what Richard mentioned: Users are the weak link.

- What have the users done wrong:

    - Neglect or selective use of modalities (in Simon's examples)

    - Lack of independent checks (in Simon's examples)

    - Lack of education ==> abuse, misunderstanding

    e.g., identity for sale - initial difficulty encountered by Taiwanese National Health Insurance system. Another form of spoofing.

- Stakeholders are the weak links: users & designers (low acceptance of the IRIS at UK airports)

Back to the future again

- Multimodal biometrics & data fusion

    - Curse of dimension, dimension reduction

- Characterisation of spoofing

    - Technical aspects

    - Social aspects, e.g., abuse due to digital divide / education divide

- It is not whether we want it or not, but how we are going to use it properly.

- When ID becomes a necessity, people will accept it.