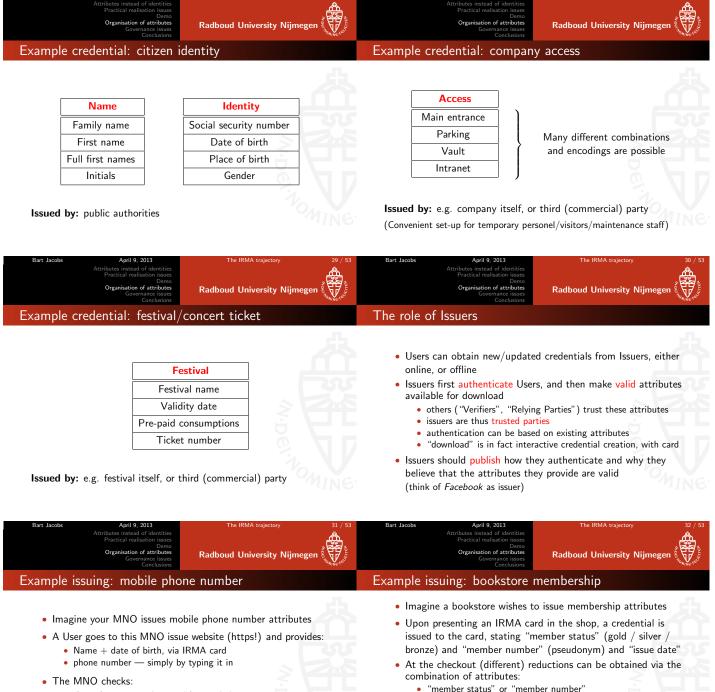


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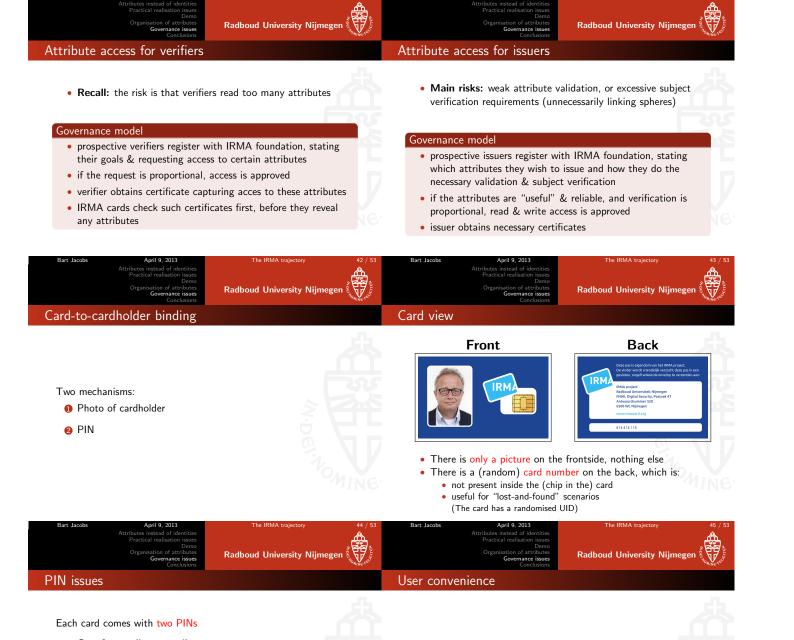


- · these data are consistent with an existing contract
- phone presence, by sending a one-time code via texting
- Upon seeing the correct code within the same ssl-session, the MNO issues the phone number credential to the IRMA card

(Similarly for eg. email/IP addresses by ISP, or even Facebook identity)

- "member number" + "student"
- "member number" + "senior citizen"
- This issuing involves no authentication
- The bookstore can build up historical profiles, based on the membership number, which can be used for additional offers (compare to pseudonyms on German card)





One for attribute reading

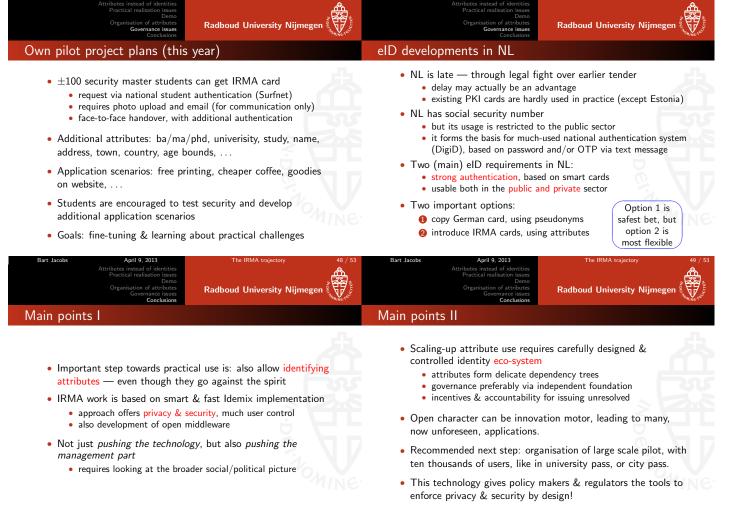
- Which attributes should be protected by PIN?
- Balance between: ease-of-use, ease-of-abuse, confidentiality
- over 18: *yes*, medical data: *no* (restrict read-certificates)

• One for personal card management

- card owner can manage own attributes on card (like apps on phone)
- also access to card logs

User convenience is **not** an explicit goal

- message: security and privacy require careful behaviour
- users will have to be conscious about what they are doing
- using your IRMA card should give the same alertness as in using your ordinary keys.



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Attributes instaad of identities
Demo
Radbould University Nijmegen
Image: Conclusion of Stricts Stricts Conclusions
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