



# How to avoid an identity crisis

**Jaap-Henk Hoepman**

*Digital Security (DS)*

*Radboud University Nijmegen, the Netherlands*

✉ [jhh@cs.ru.nl](mailto:jhh@cs.ru.nl) / [www.cs.ru.nl/~jhh](http://www.cs.ru.nl/~jhh)

*TNO ICT, Groningen, the Netherlands*

✉ [jaap-henk.hoepman@tno.nl](mailto:jaap-henk.hoepman@tno.nl)



# Crisis? What crisis?



Dan Perjovschi, 2007

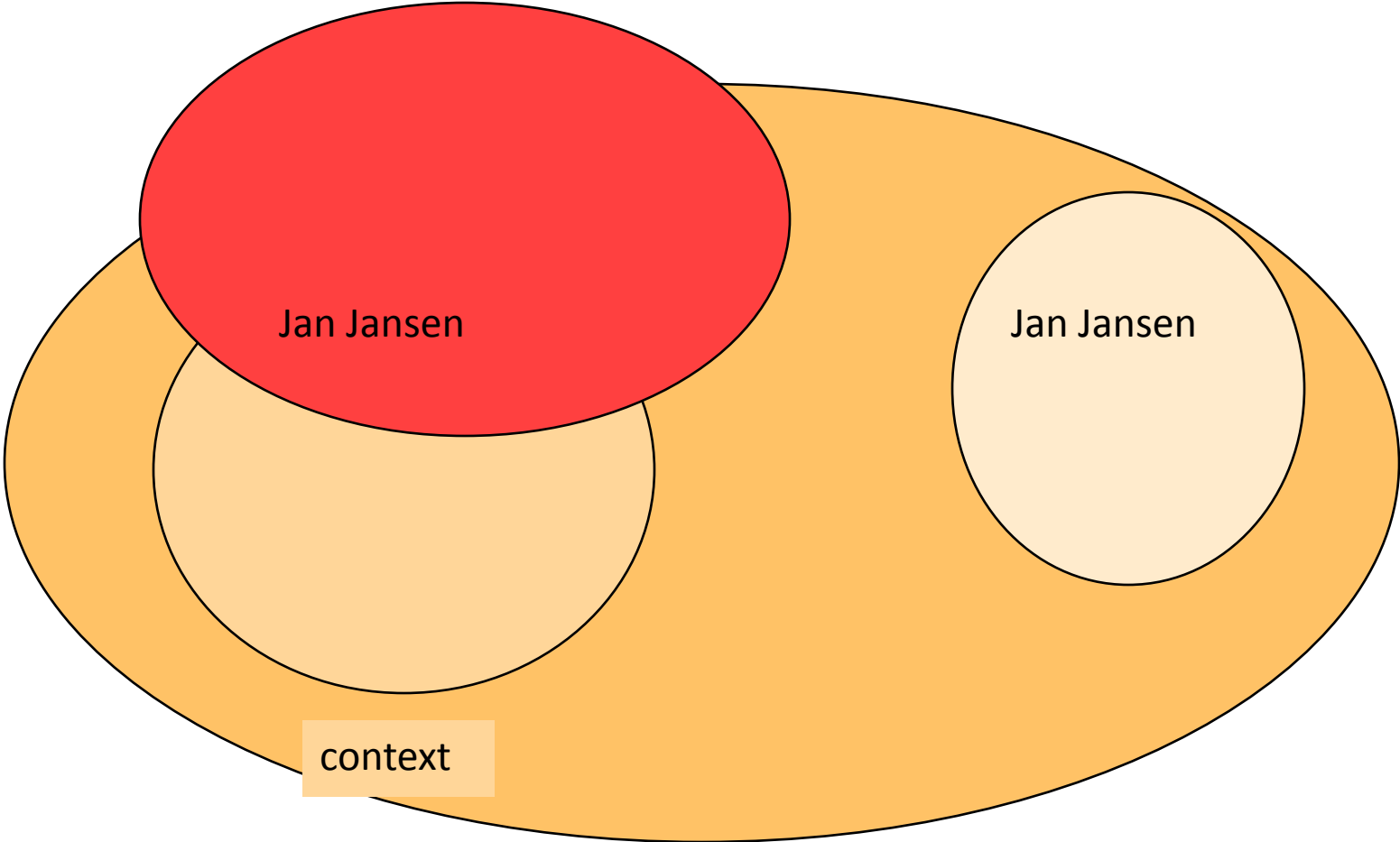
# What's in a name



# What's in a name



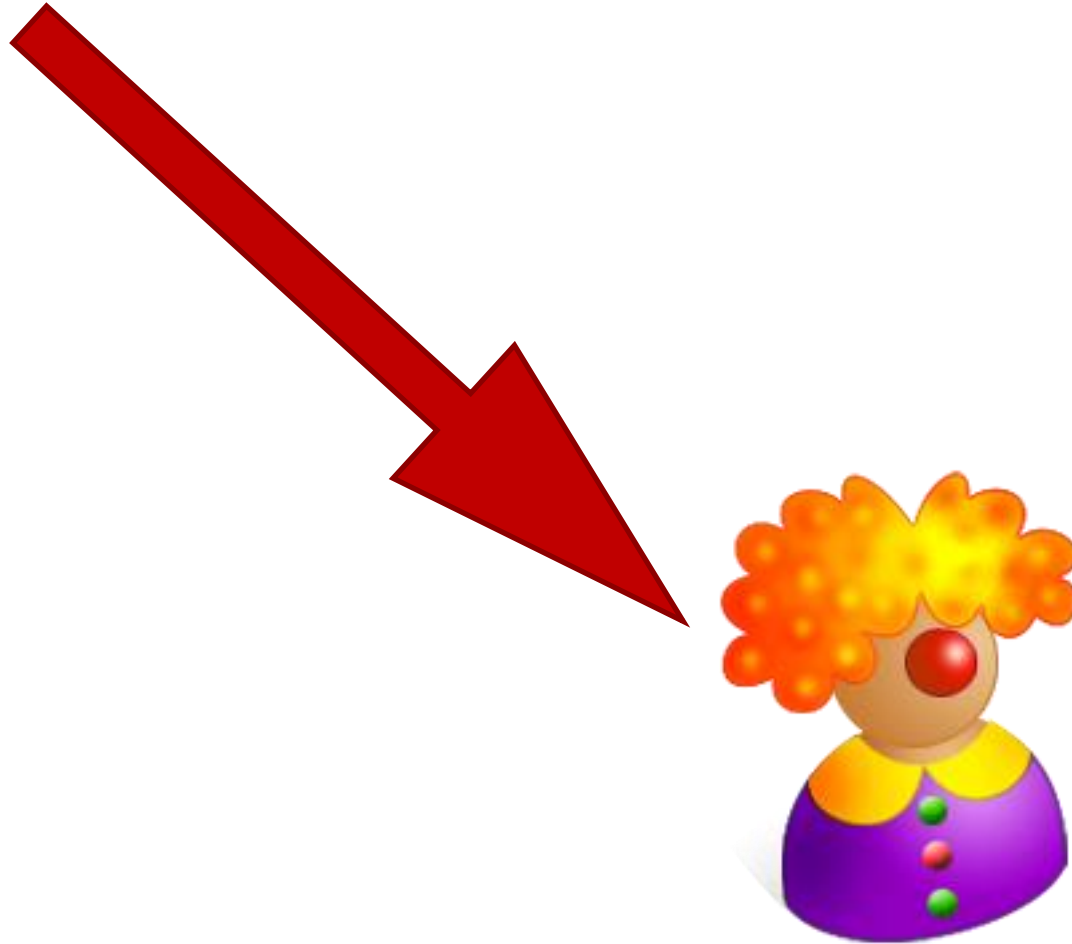
# Context



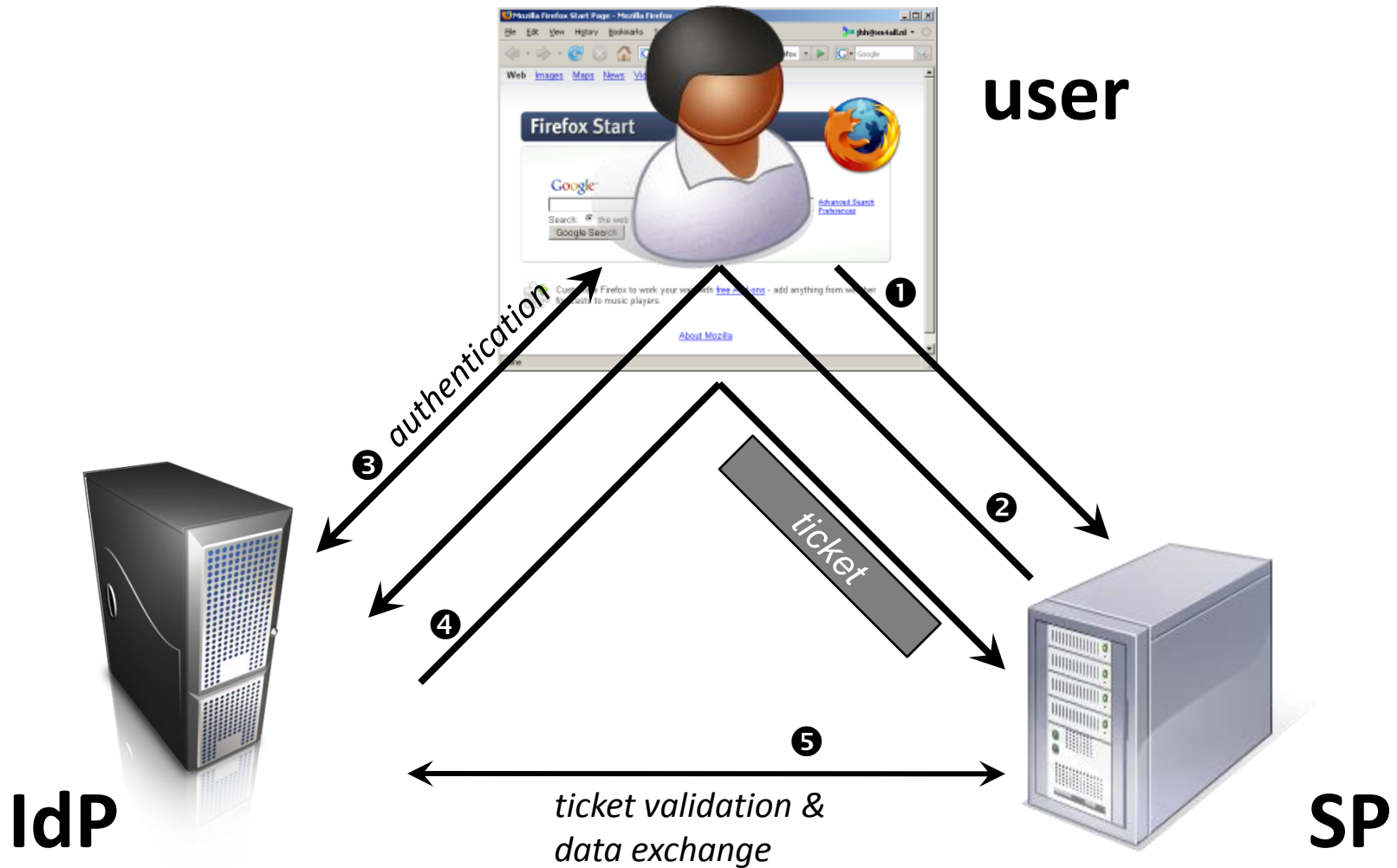
**Identity is an essential** characteristic of the experience of being human. It encompasses all the elements that make each human being unique but also all the characteristics that enable membership to a particular group or culture as well as establish status within the group.

Roussos 2002

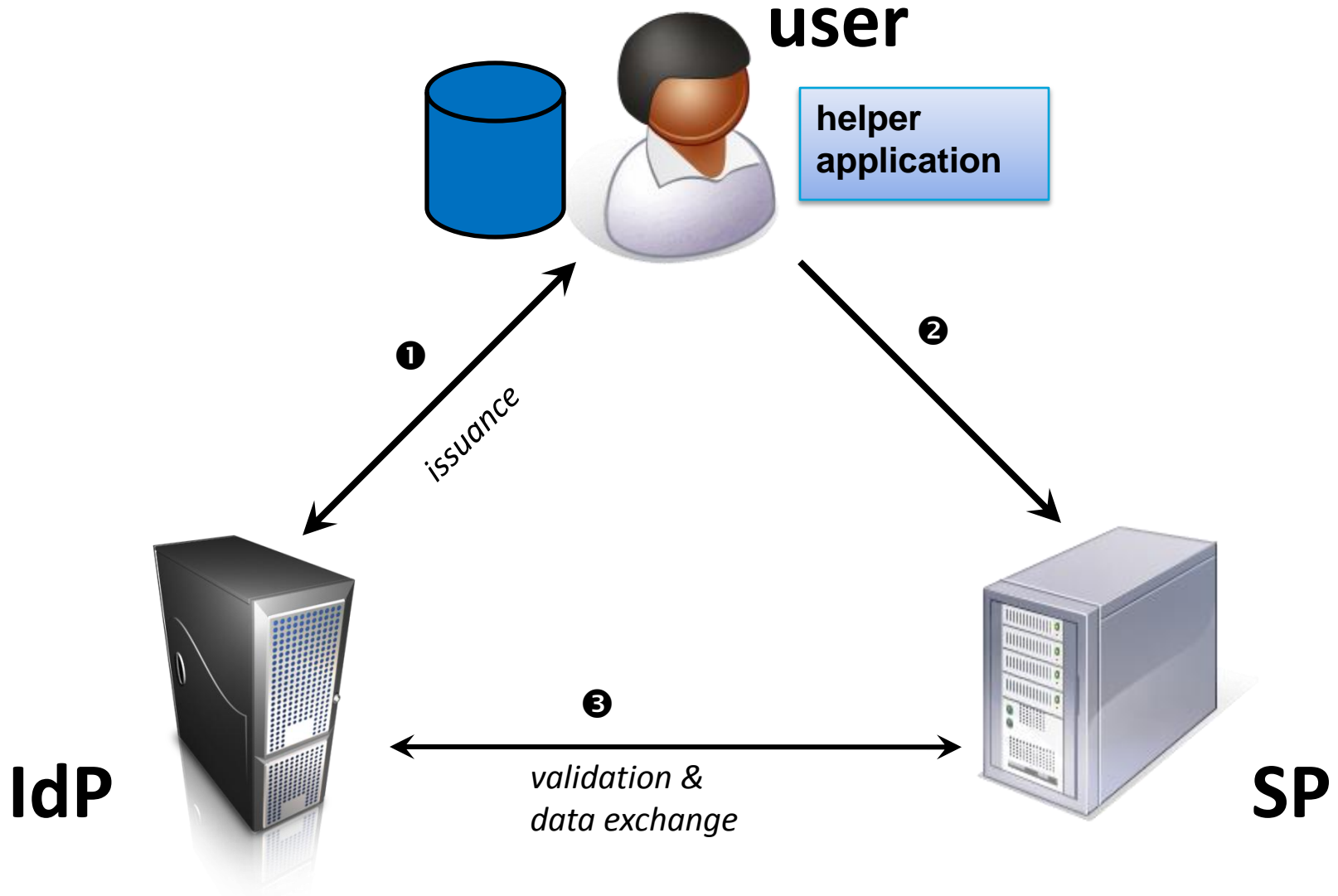
**But for us identity is a....**



# Security of browser based IdM



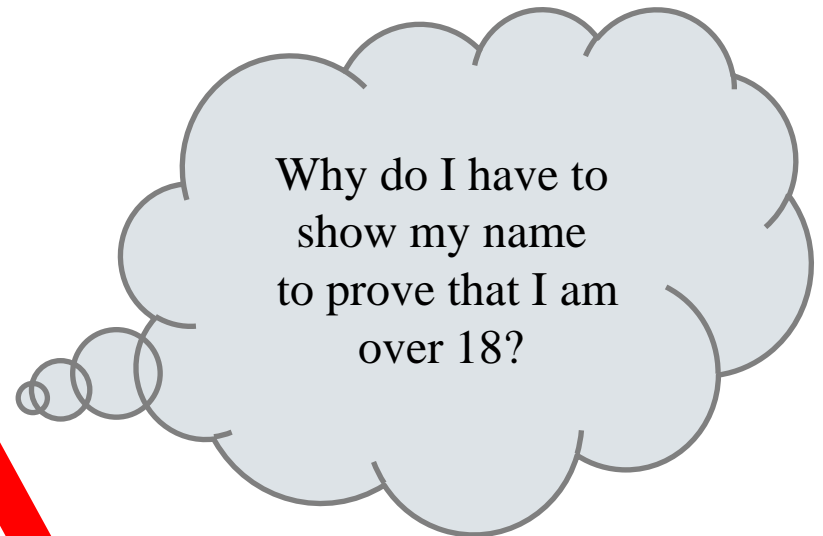
# State based solutions



Who do you want to be today?

# Privacy

- **IdP sees services i use**
- **SP learns too much about me**



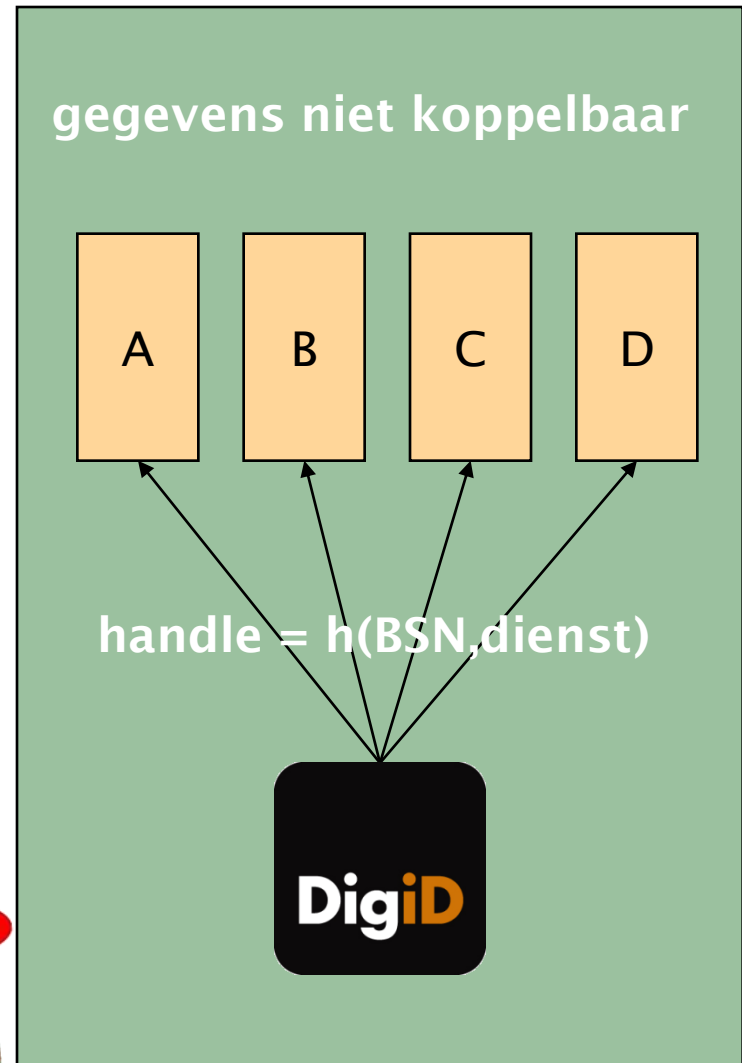
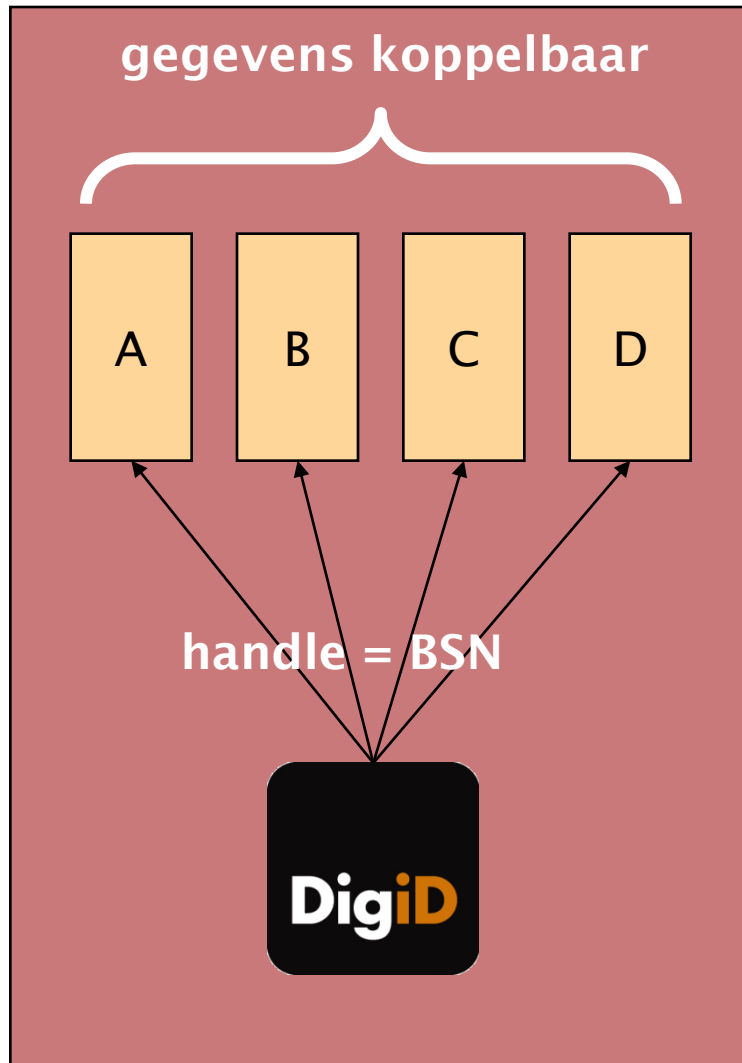
# Vicious circle



# And who is asking anyway??



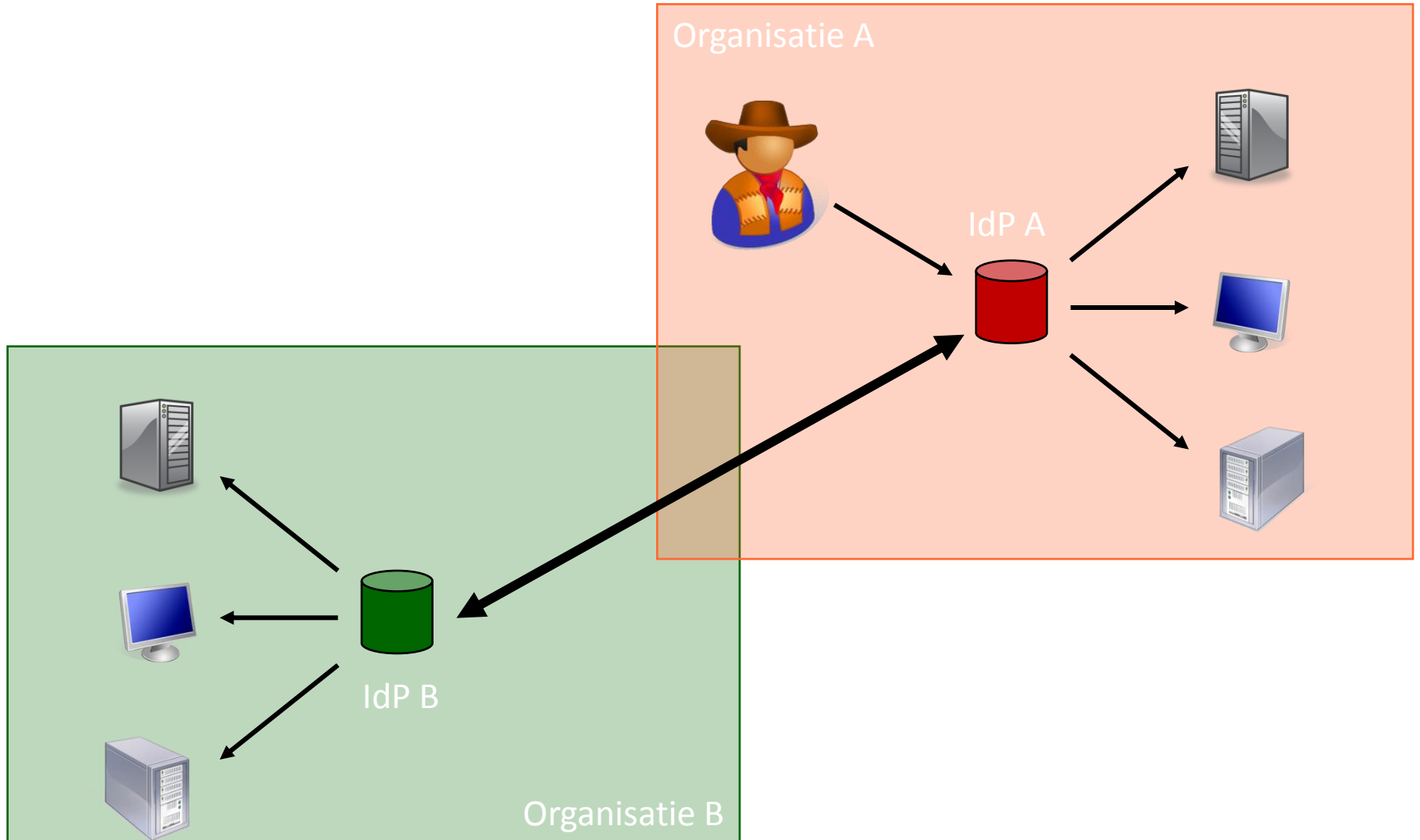
# Revocable privacy



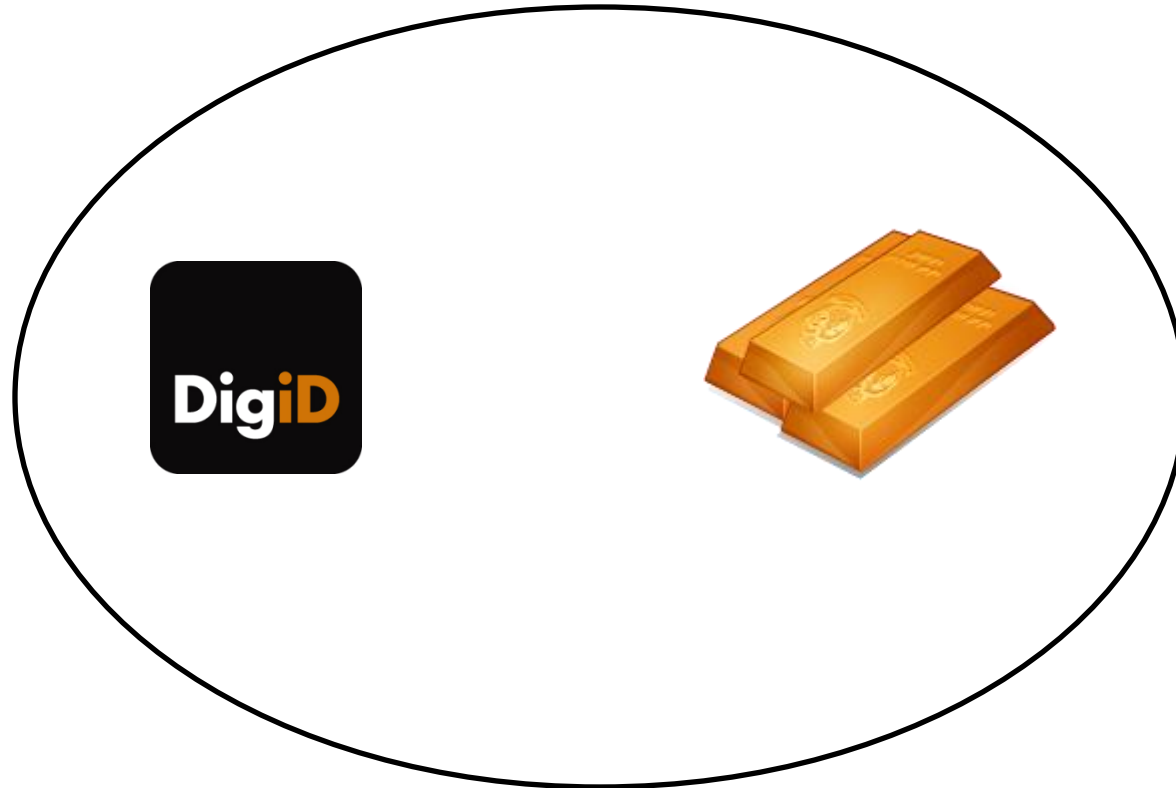




# Federation

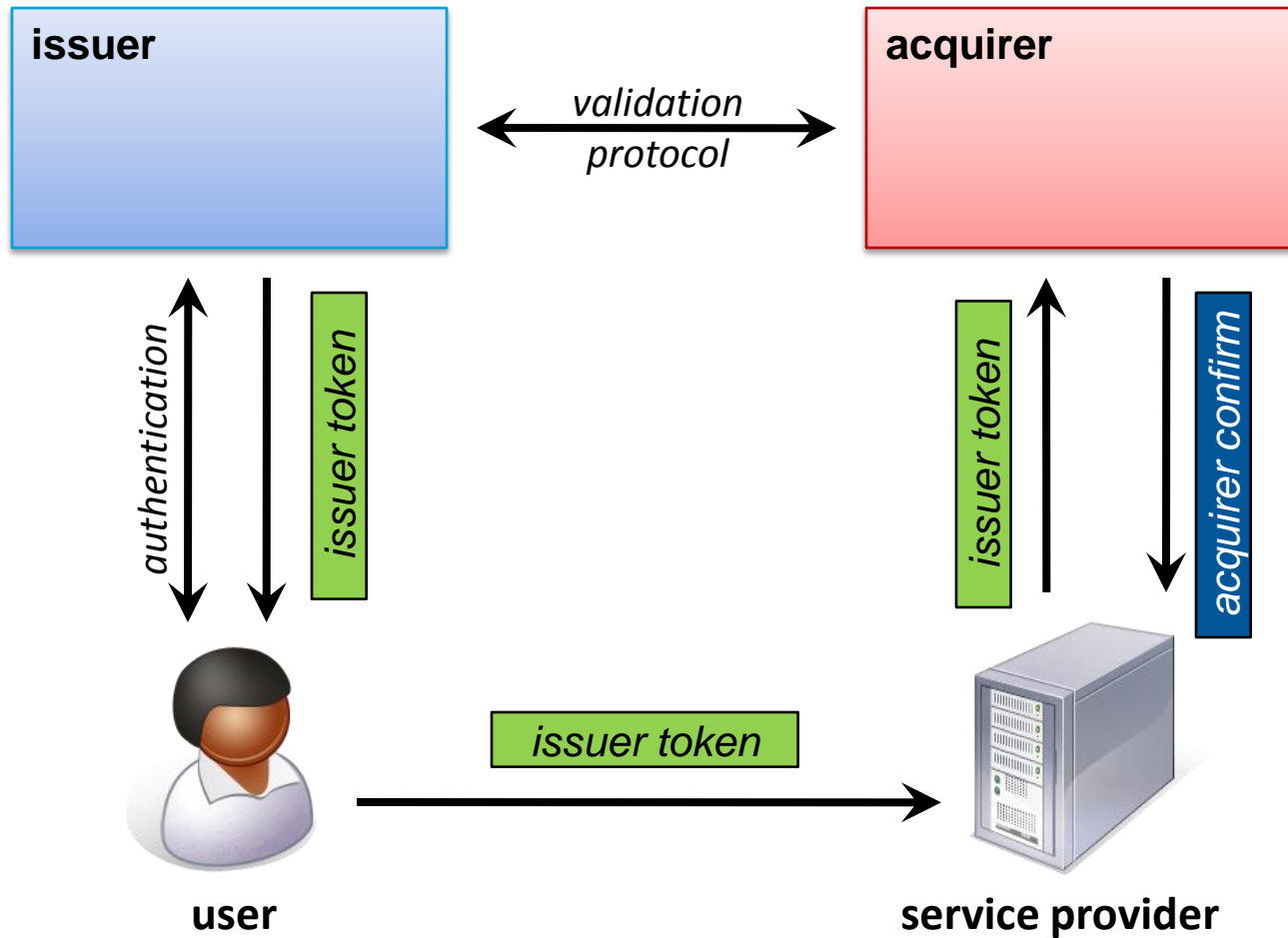


# Who defines the circle of trust



... single sign-on anyone? ...

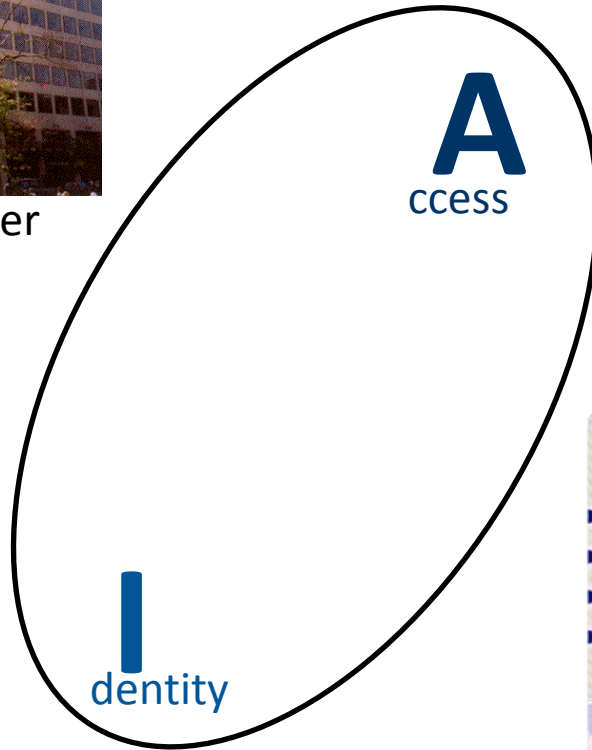
# Independent choice



# Access management



dienstaanbieder



Je eigen inlogcode voor de hele overheid

Gebruikersnaam:

Annuleren

Verder >



# Profile management

**P**rofile

**I**dentify  
identity



gebruiker



Broadcast Yourself



Identity 2.0

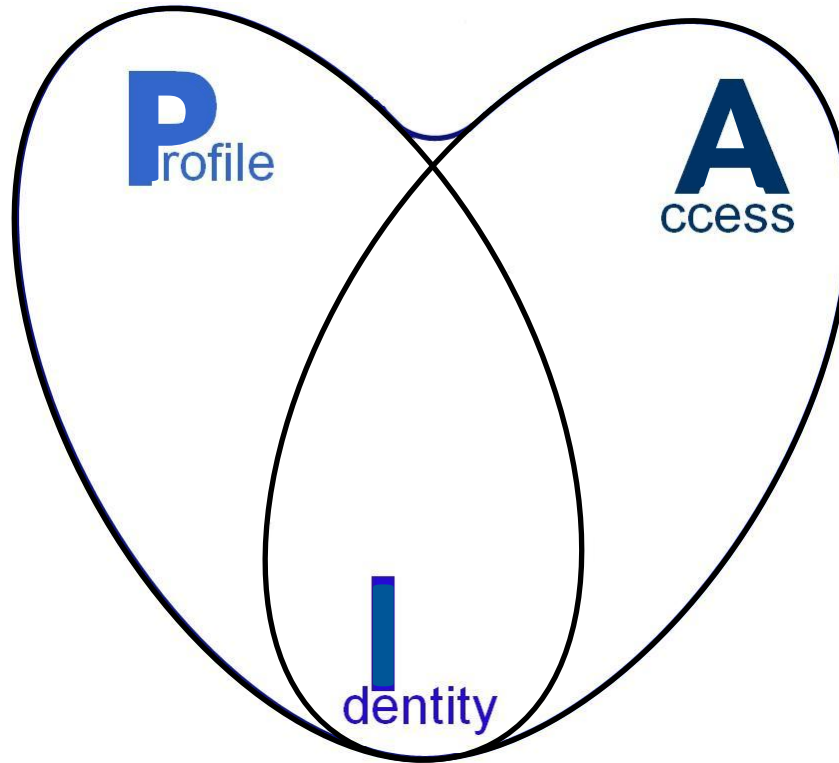


**myspace**<sup>®</sup>  
a place for friends

# The future: PIA



gebruiker



dienstaanbieder

# Identity crisis

- **What is identity?**
- **Can I trust the IdP?**
  - is trust “circular”...
- **Why do you need my name?**
- **Who is asking me anyway?**
- **Who manages my profile?**

# Discussion



[Monty Python's Argument Clinic sketch]