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**Auf dem Weg zum digitalen Staat –
Dänemark als Vorbild?**

AUF DEM WEG ZUM DIGITALEN STAAT – DÄNEMARK ALS VORBILD?

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DENMARK HAS LONG BEEN A FORERUNNER (1/2)

2001:

- Introducing the **digital signature**
- Digital communication with and by the authorities (via e-mail)

2004:

- **NemKonto** (mandatory default citizen's bank account for payments from the authorities)
- **Virk.dk** (digital public services web portal for businesses)
- **Sundhed.dk** (web portal providing personal access to personal health data)

DENMARK HAS LONG BEEN A FORERUNNER (2/2)

2007:

- **NemID** (eID solution enabling log-in to online public services)
- **Digital Post** (digital mailbox for messages and communication from public authorities)
- **Borger.dk** (digital public services web portal for individuals)

2011:

- **Digital Post** made mandatory for individuals and businesses
- **Online self-service** solutions made mandatory for individuals and businesses

PUBLIC SECTOR DIGITIZATION MUST PROVIDE GOOD CONDITIONS FOR GROWTH

Automatic Business Reporting

- Business spend substantial resources on reporting to the authorities
- Authorities should be able to retrieve relevant data directly from businesses' systems
- The goal is to ease the administrative burden on businesses by 3 billion DKK by 2020



FROM SINGLE SIGN ON TO A UNIVERSAL WALLET

From NemID to MitID to MitWallet?

- NemID's days are numbered. In future 4.7 million users of NemID will have to get used to a different system and, to start with, a new name, which is MitID ('MyID')
- A strong public-private collaboration regarding the new MitID ensures continued secure access to online banking, public services and other aspects of digital life that requires confidentiality.

NEM ID

Mit 

DENMARK THE EU LEADER FOR DIGITAL PAYMENTS

From cash to cashless to moneyless?

- Eight out of ten Danes shop online, and with the likes of MobilePay, fewer than 25 percent of transactions in Danish shops involve cash.
- Danmarks Nationalbank estimates that 46 percent of Danes carry less than 100 kroner at any given time.
- The future of cash is debated, even a cash ban by 2025.



PRIVACY IS DEAD, LONG LIVE PRIVACY

Giving control back to the citizen?

- Scott McNealy, then CEO of Sun Microsystems, claimed already back in 1999 ***“privacy is dead, get over it”***.
- Tim Berners-Lee himself suggested the creation of a ***“Magna carta for the Web”*** to *“hardwire the rights to privacy, freedom of expression, affordable access and net neutrality into the rules of the game”*
- In a blockchain secured world, we can gain ownership over data again with **“persistent digital ID and persona”** on a blockchain.





ISO/TC 307 Blockchain

WG 1 Foundations

Paolo
Tasca



WG 2 Security, privacy and identity

Julien Bringer



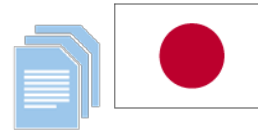
WG 3 Smart contracts and their applications

Volker Skwarek



SG 2 Use cases

Takeo
Nishikata



SG 6 Governance

Roman Beck



SG 7 Interoperability

Eric Cohen



WG 1 deliverables/project leaders:

ISO/IEC 23257
Reference Architecture
Heather Kreger



ISO/IEC TS 23258
Taxonomy and Ontology
Peter Luo



ISO/IEC 22739
Terminology and concepts
Victoria Lemieux



WG 2 deliverables/project leaders:

ISO/IEC TR
Overview of privacy and PII protection
Stephen Holmes



ISO/IEC TR
Security risks and vulnerabilities
Shin'ichiro Matsuo



ISO/IEC TR
Overview of identity
Paul Ferris



WG 3 deliverables/project leaders:

ISO/IEC TS 23259
Legally binding smart contracts
Philippa Ryan



For further information please contact me!

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