



Ethical Industrialisation of Personal Data

luk vervenne

Thesis 1:

After 25 years of Internet, ...
we now have a clear DUOPOLY!
...which is not (yet) recognised by the FANG!



<https://www.ft.com/content/3d5425ac-5dbf-11e7-b553-e2df1b0c3220>

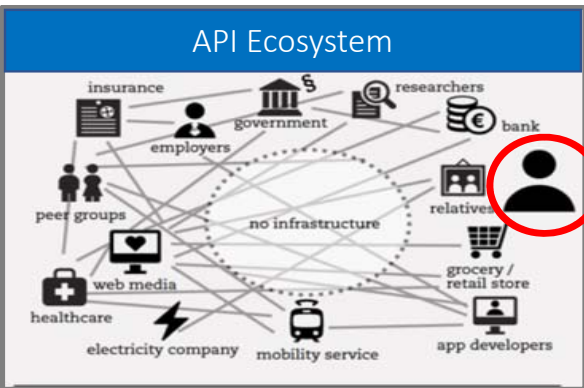


Thesis 2 :

GDPR is part of the
Digital Transformation

which is leading to the

Ethical Industrialisation
of Personal Information



Ethical Industrialisation of Personal Data as the "New Normal" for Organisations

- Rethink the *Relationship between Org. & Ind.*
- (Data) Ownership replaced by *A-U-D Rights*
- *Capacity2Interact* is the enterprise new secret.
- Privacy needed for Transactions and *Analytics*.
- Cross-domain Smart Data + Consent

The Duopoly analysed (=GDPR)

Individual

- Empowered
- Control over personal data
- User consent
- Access Right
- Transparency
- Minimal Disclosure
- Purpose binding
- Right to Delete / Use

Organisation

- need NEW Insights!
- *Insights* instead of *Data (ownership)*
- Legal Compliance
- Access Right (rather than ownership)
- No secrecy, ...openness
- Process-limited
- Purpose binding
- Focus on *Insight* rather than *Data*

...part of Digital Transformation

- *Organisations:*

- User (Experience) -driven
- Cooperate in complex (API) decentralised services.
- Need transactions AND *a democratisation of (REALTIME) ANALYTICS*

- *Individuals:*

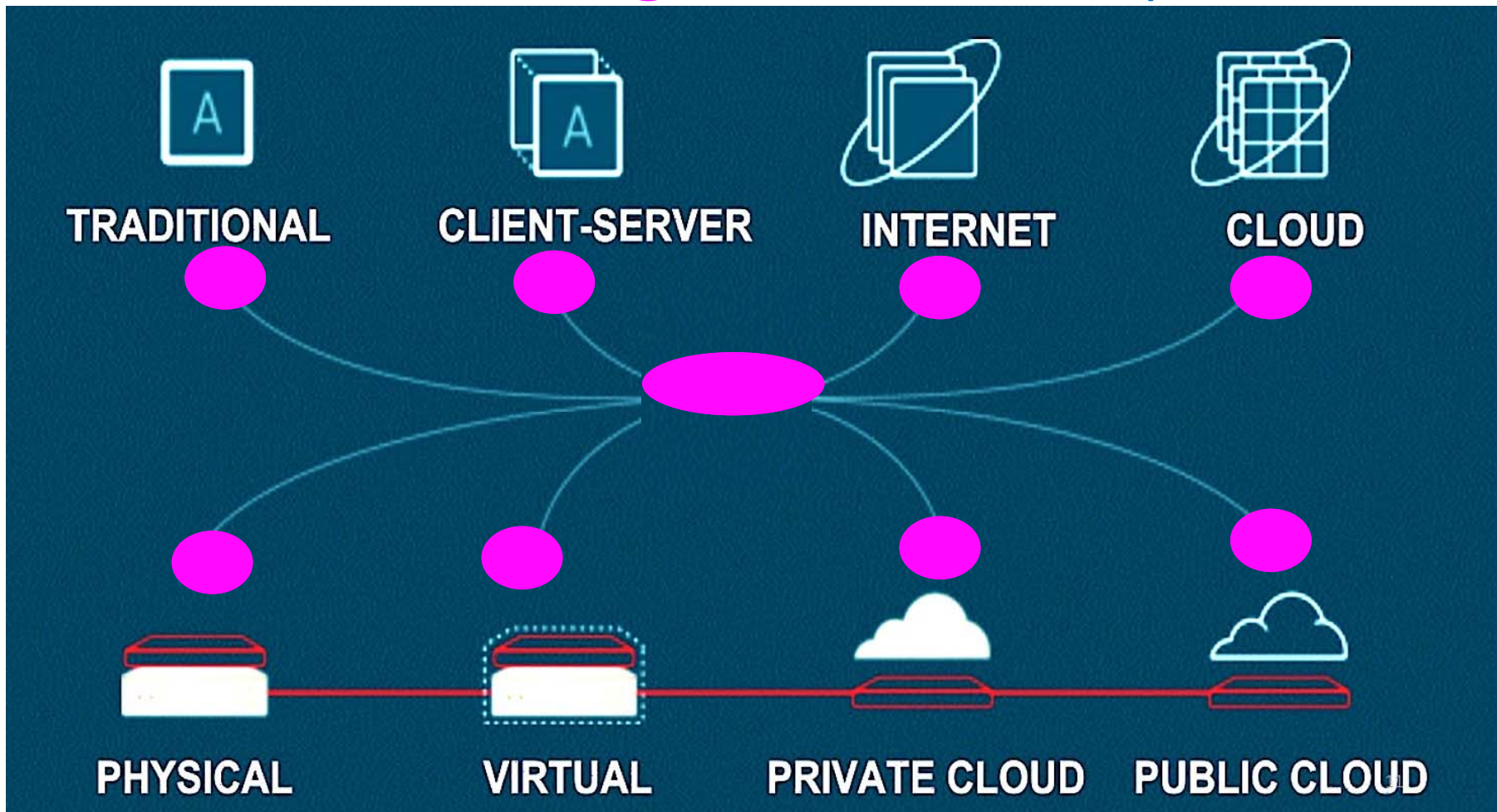
- GDPR-proof control (1) of their personal data, (2) of intent casting, ...etc.
- Give me more contextual policy choices, including (1) analytics, (2) portability, ...etc.

- *Ecosystem Architecture:*

- *Decentralised* GDPR-proof Ecosystem Integration (technology)
- *end2end Trust Assurance* based upon a *techno-legal-contractual* framework
- Microservices and Integration = *Micro-Integration*
- Massive, distributed OLTP and OLAP compatible, XACML3.0-enabled PDS database

Ecosystem Integration

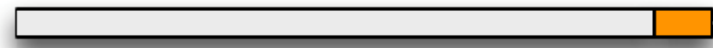
Smart Edges - Dumb Pipes



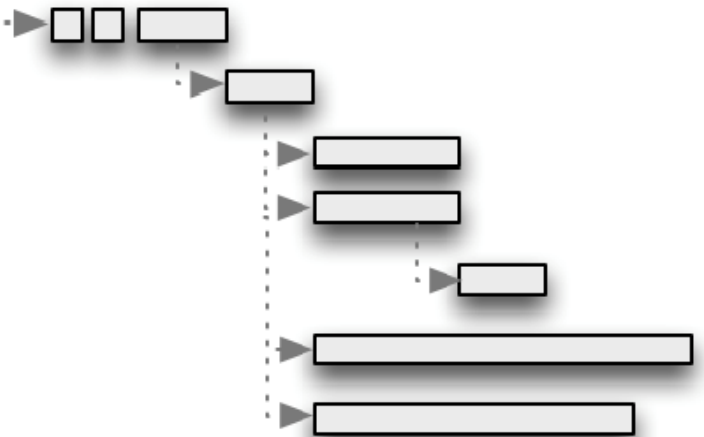
API complexity with SMART EDGES (notably in 5G)

□ Server Request Latency ■ Network Latency

Device
Server



Complex API's



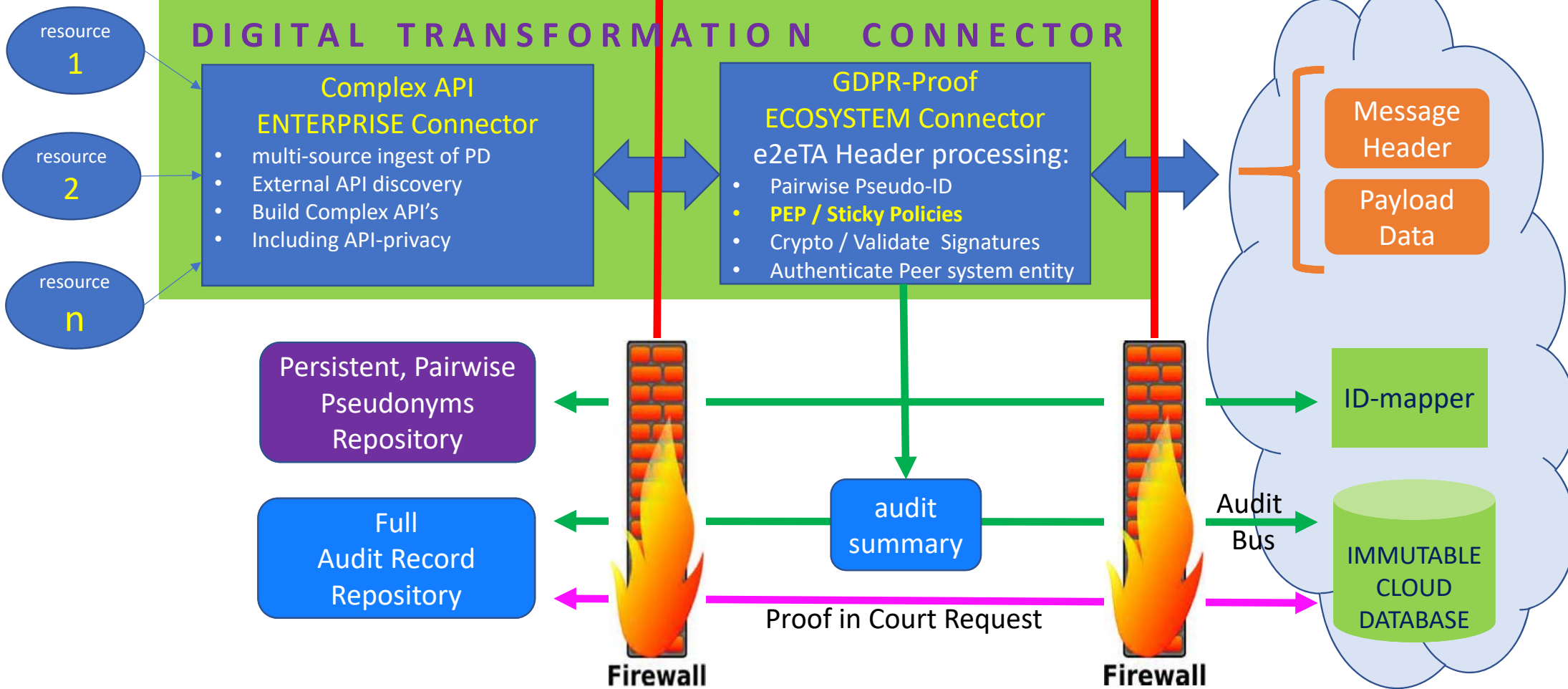
9 network calls collapsed into 1.
WAN network latency cost paid only once.

Client logic pushed to server.
20+ redundant calls removed.

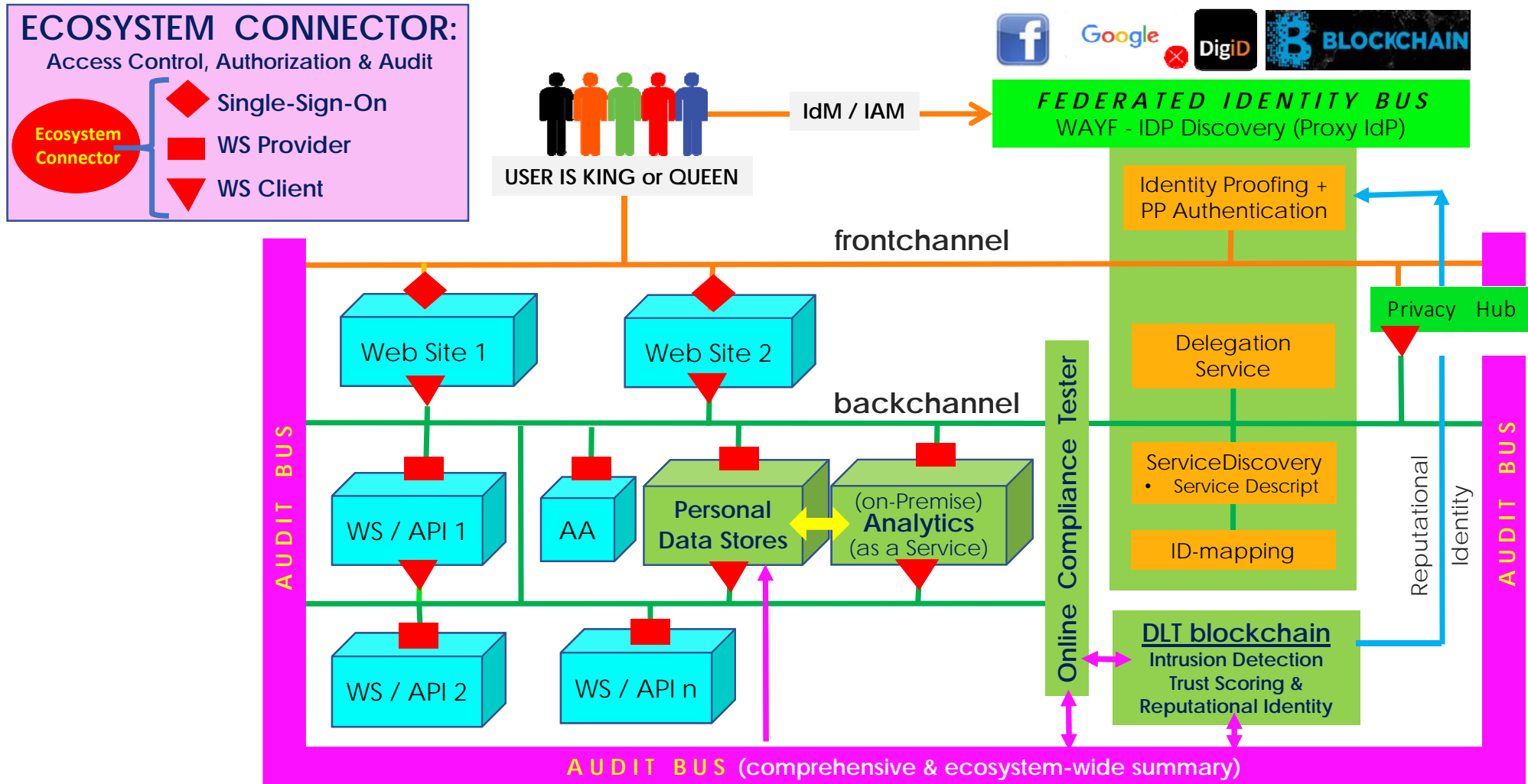
ENTERPRISE

DMZ

ECOSYSTEM



end2end Trust Assurance Architecture



"SEPARATION OF CONCERN" TRUSTED ECOSYSTEM GOVERNANCE & INTEROPERABLE TECHNOLOGY