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Data Based Business Models – Legal and Regulatory Governance

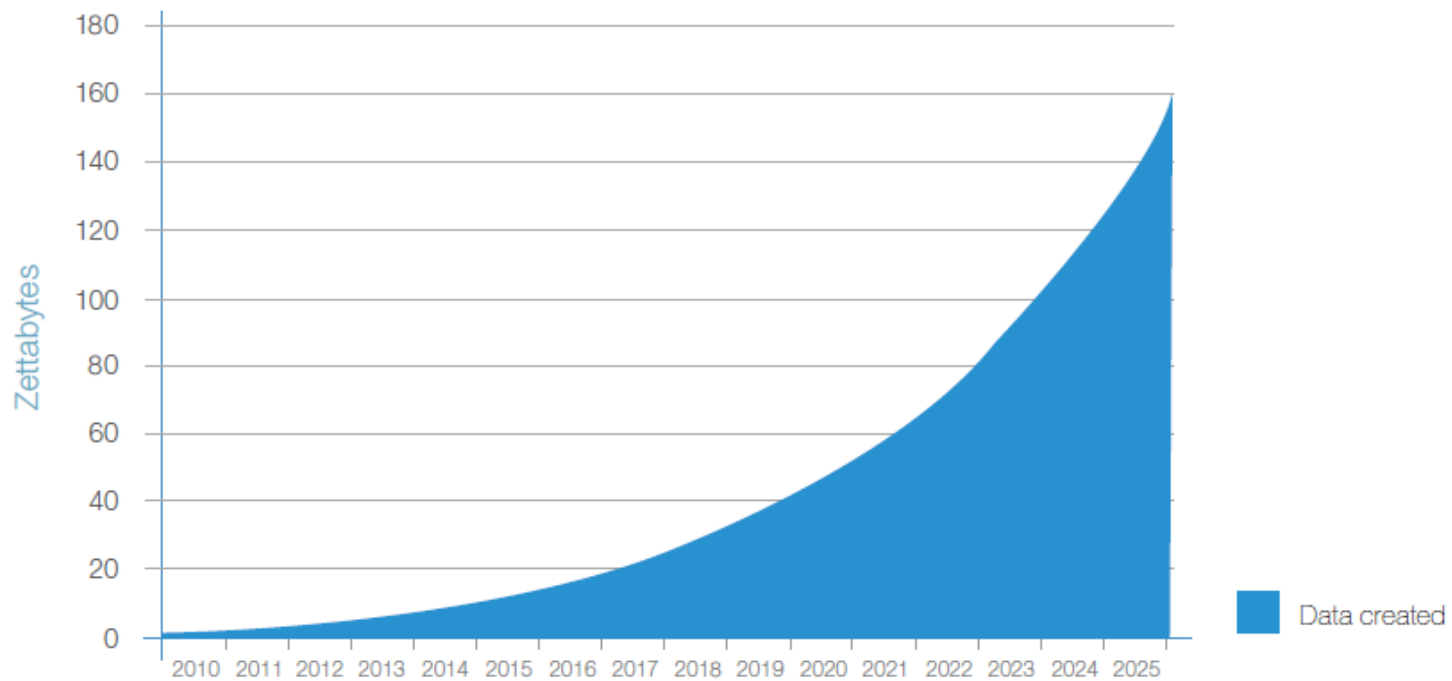
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NKF

Overview

- Intro
- **Benoit Van Asbroeck** – Is there a need for "data ownership"?
- **Emily Jones** – Data Sharing and Pooling – Practical Impacts
- **Lukas Morscher** – Data Governance and Compliance
- **Nikhil Narendran** – Big Data in Governance: Checks and Balances
- Q&A

Explosion of Data



Source: IDC's Data Age 2025 study, sponsored by Seagate, April 2017

What is Big Data?

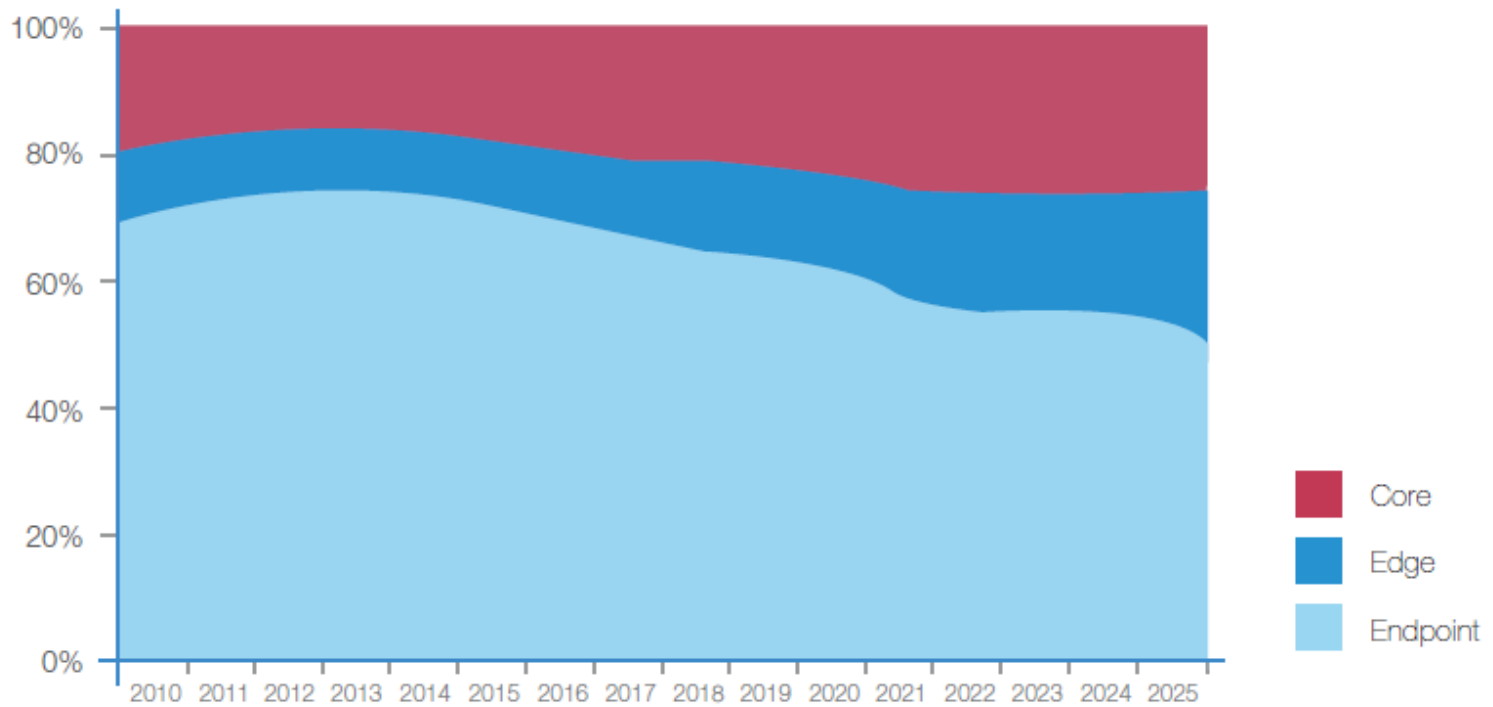
- Bit = 1 | 0
- Byte = 8 Bits
- Kilobyte (KB) = 1'000 Bytes
- Megabyte (MB) = 1'000 KB = 1'000'000 Bytes
- Gigabyte (GB) = 1'000 MB = 1'000'000'000 Bytes
- Terabyte (TB) = 1'000 GB = 1'000'000'000'000 Bytes
- Petabyte (PB) = 1'000 TB = 1'000'000'000'000'000 Bytes
- Exabyte (EB) = 1'000 PB = 1'000'000'000'000'000'000 Bytes
- **Zetabyte (ZB) = 1'000 EB = 1'000'000'000'000'000'000'000 Bytes**
- **Yotabyte (YB) = 1'000 ZB = 10^{24} Bytes**
- **Brontobyte (BB) = 1'000 YB = 10^{27} Bytes**
- **GeopByte = 1'000 BB = 10^{30} Bytes**
- ...

1 Gogol* = 10^{100}

*) The term was coined in 1938^[1] by 9-year-old Milton Sirotta, nephew of American mathematician [Edward Kasner](#) (see <http://en.wikipedia.org/wiki/Gogol>)

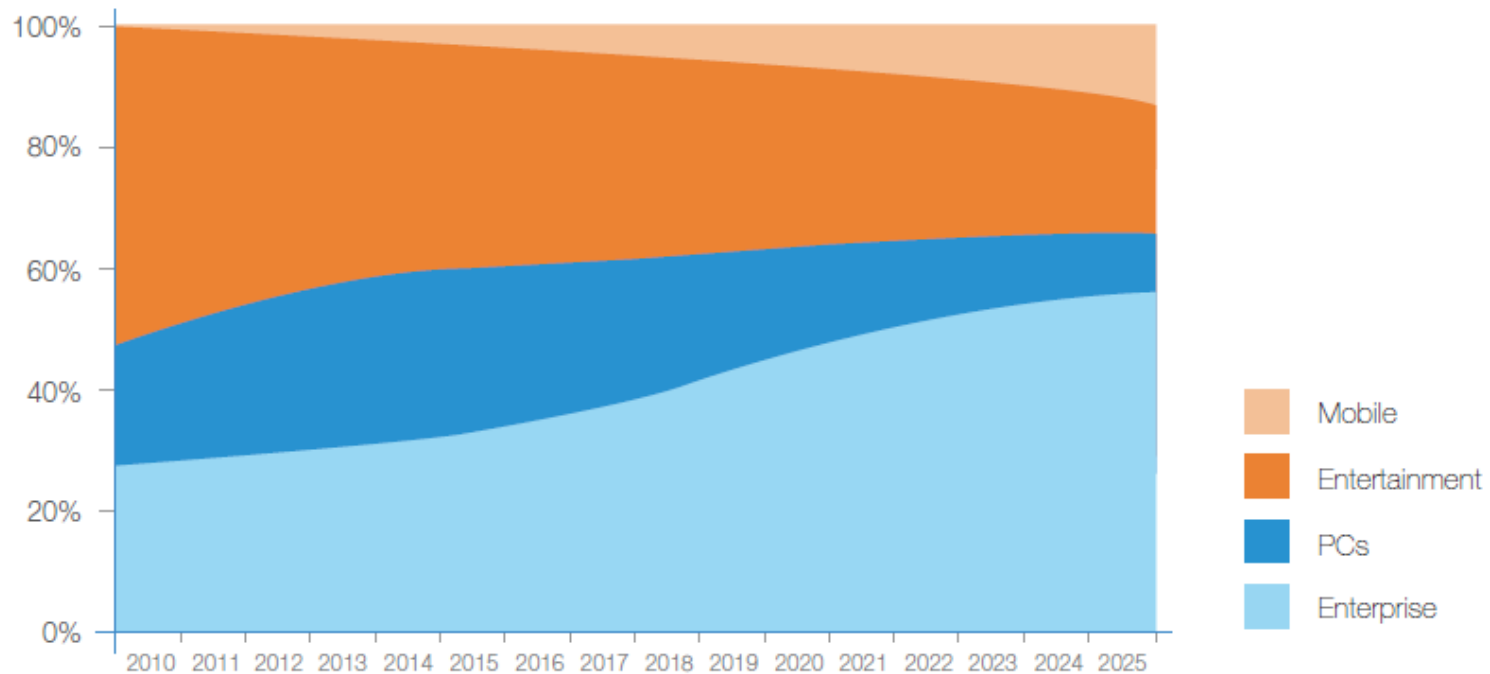
Source: Die Digitale Schweiz, Denkanstösse zur Datenpolitik

Where is Data generated?



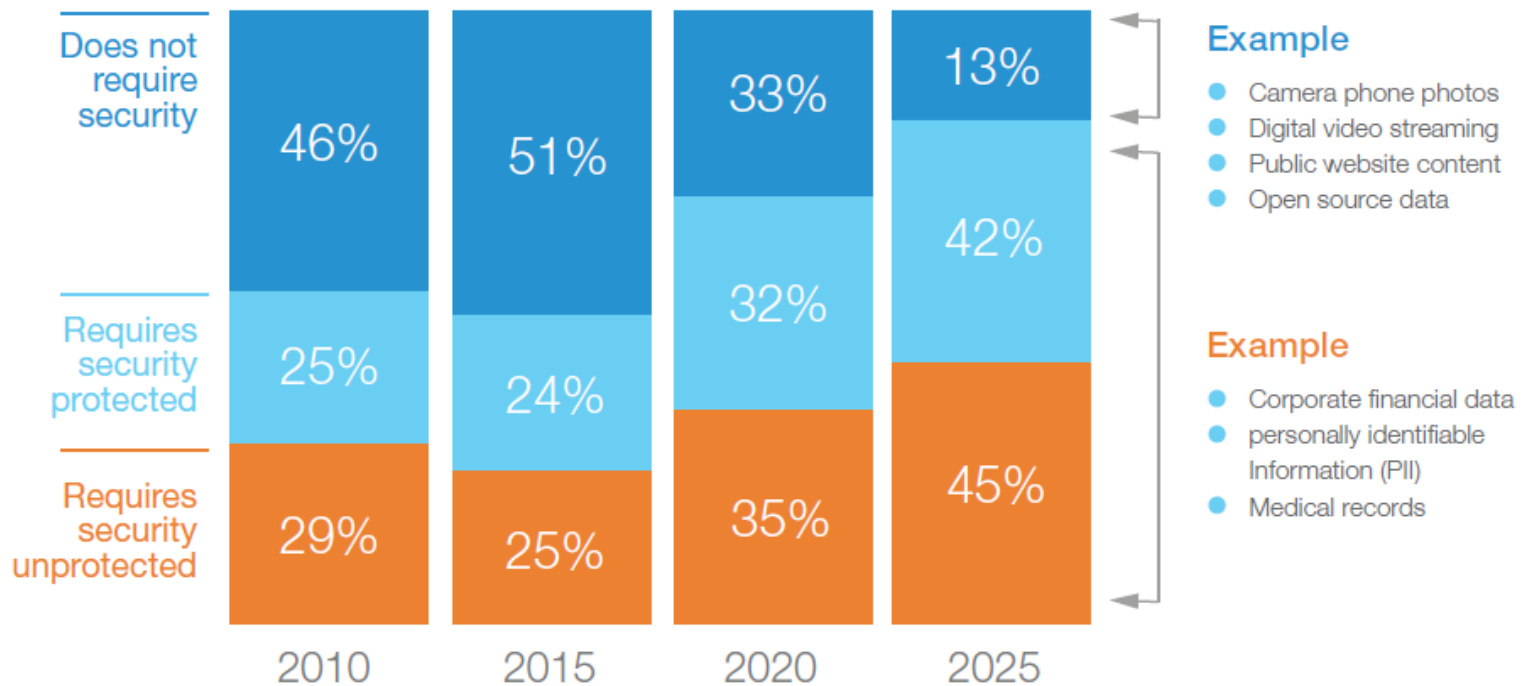
Source: IDC's Data Age 2025 study, sponsored by Seagate, April 2017

Where is Data stored?



Source: IDC's Data Age 2025 study, sponsored by Seagate, April 2017

Data Security



Source: IDC's Data Age 2025 study, sponsored by Seagate, April 2017

Conclusions

- Explosion of data: 163 ZB by the year 2025
- Data is becoming more valuable: «Personal Data – The New Asset Class»
- Daten mainly accrue with the enterprises and are saved there
- Data are becoming life-critical
- Data security is becoming more important and is still underestimated
- Requirements for data security are increasing
- Imbalance between data producers and data consumers
- All in all this leads to various questions around data ownership, data sharing, data governance, etc. which we will analyze today....