



Personal energy data access platform

Georg Rute

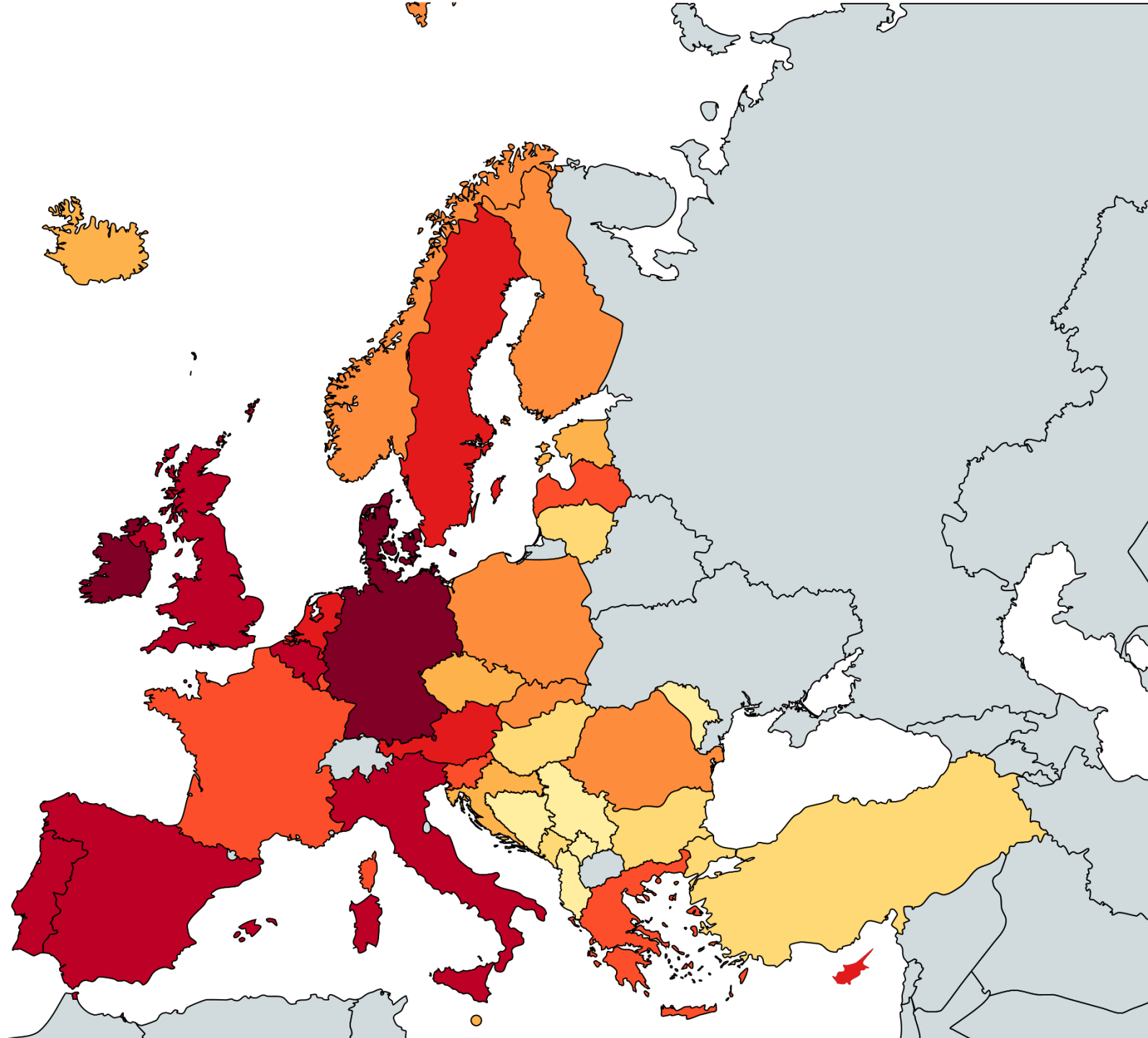
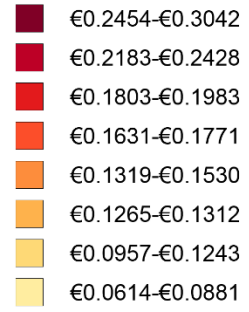
Digital development manager

Elering AS

Georg.rute@elering.ee

elering

Cost of 1kWh



Georg.rute@elering.ee

TOP 20 GLOBAL INTERNET COMPANIES

By Market Valuation

- | | | |
|--|--|--|
| 1)  APPLE | 8)  NETFLIX | 15)  UBER |
| 2)  AMAZON | 9)  ANT FINANCIAL | 16)  DIDI CHUXING |
| 3)  MICROSOFT | 10)  EBAY + PAYPAL | 17)  JD.COM |
| 4)  GOOGLE / ALPHABET | 11)  BOOKING HOLDINGS | 18)  AIRBNB |
| 5)  FACEBOOK | 12)  SALESFORCE.COM | 19)  MEITUAN-DIANPING |
| 6)  ALIBABA | 13)  BAIDU | 20)  TOUTIAO |
| 7)  TENCENT | 14)  XIAOMI | |

Source: Kleiner Perkins

FAREED'S TAKE

LIVE

CNN

Customer Empowerment through digitalisation: the story so far in Estonia

100% smart meters
(2013 – 2017)



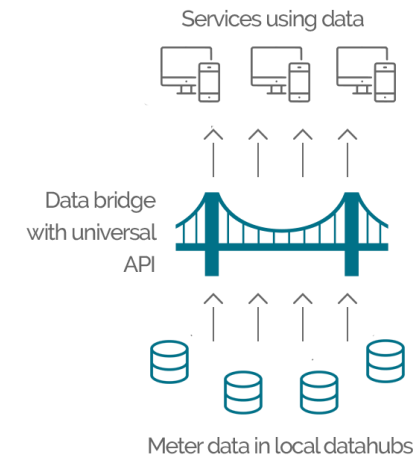
Landys-Gyr IDIS E450 PLC

Datahubs for electricity and gas
(2013, 2016)



Image from Wikimedia

Data access platform
(2017)



Next: retail
market
integration
Europe

2013

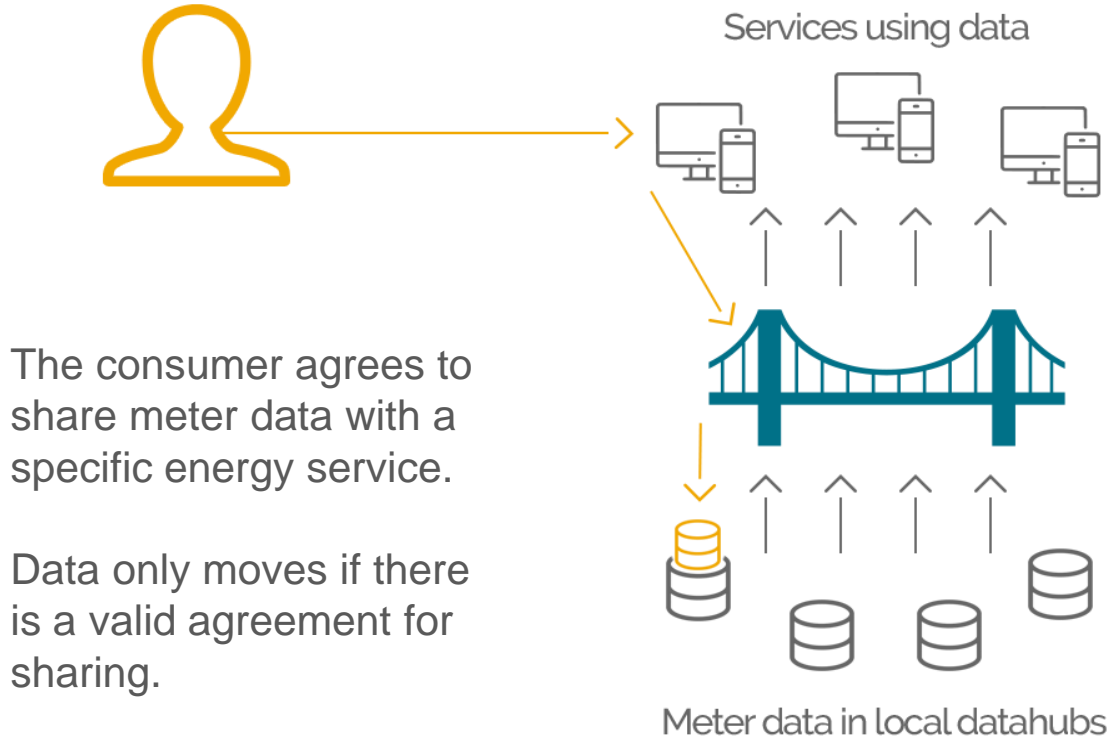
2016

2017

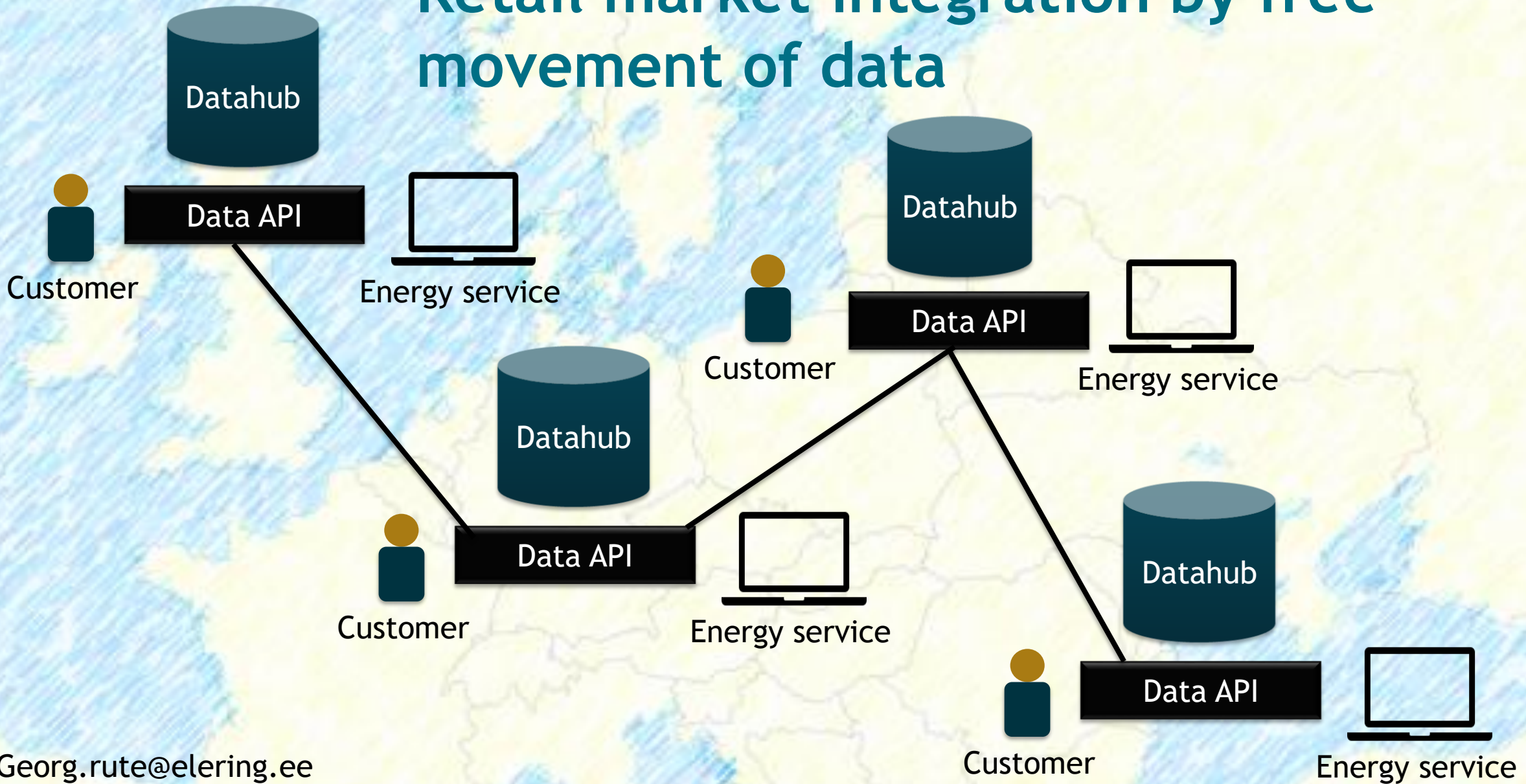
38% households on hourly
varying spot prices – low
prices for consumers

Consumers can
download and share
their energy data

Consumers can share their data with third parties, as required by the Clean Energy Package



Retail market integration by free movement of data





Thank you for your attention

Georg Rute

Digital development manager

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georg.rute@elering.ee

elering

GDPR and the Clean Energy Package require consumer data access

Clean Energy Package: consumers own their data

Directive on common rules for the internal market in electricity, Article 23:

1. Consumers must be able to share their data
2. Data access and exchange must be efficiently organised

→ **consumers must be able to share their energy data**

GDPR: data privacy must be ensured

1. The purpose of data use must be clear to consumers
2. Proper measures must be taken to ensure security, confidentiality, integrity, availability and resilience of data processing

→ **data sharing must be secure and approved by the consumer**