Services

Big and Open Data Working For the Benefit of Citizens

Aldis Viļums, Solutions Architect,
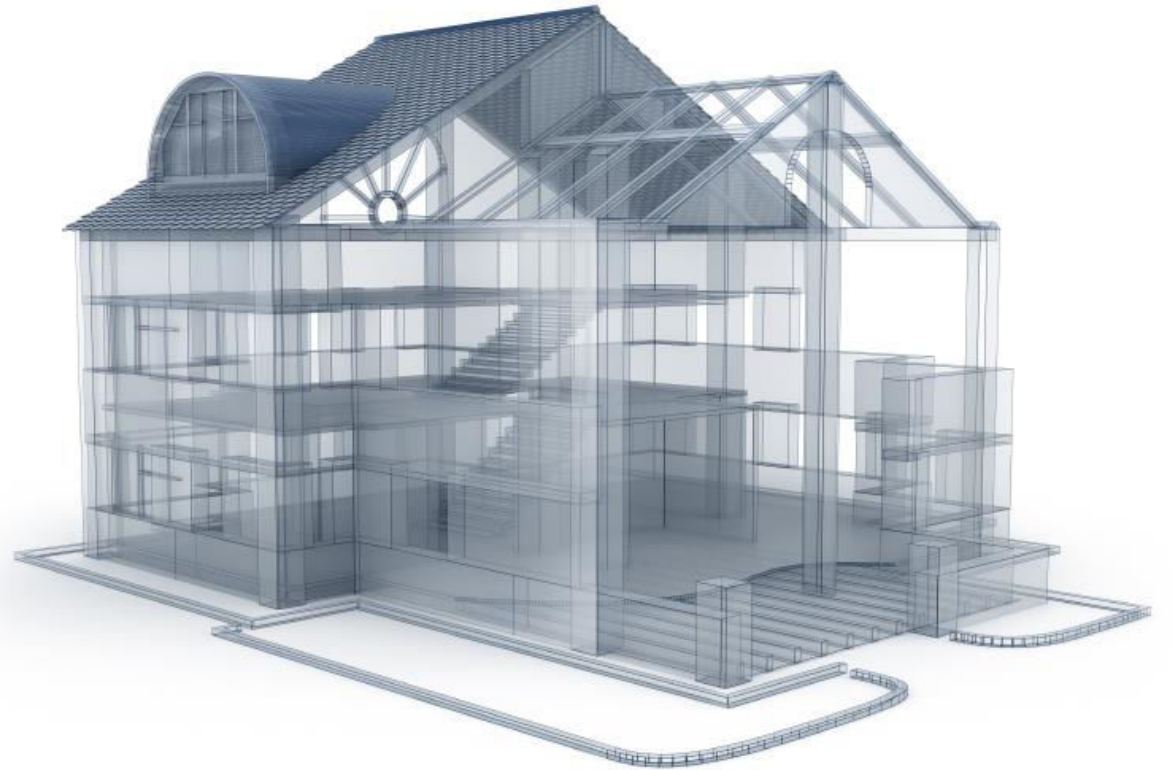Microsoft Services

Microsoft

Agenda

Big Data

Concept

Examples to spark some new ideas

Open Data

Nature,
Challenges,
Examples,
Suggested approaches

OpenData

Open Government/OpenData Principles

Transparency

Enable greater accountability, efficiency and economic opportunity by making government data more open.

Participation

Through the direct involvement of citizens, developers and entrepreneurs to deliver better and more cost effective government based services.

Collaboration

Generate new ideas for problem solving by fostering cooperation across levels of government and departments, and with the public

Open Data is the idea that public data should be broadly accessible and usable by humans and machines, free of any technological, legal or usability barriers.
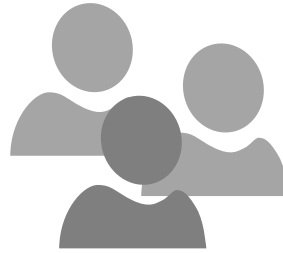
Usable by humans and machines

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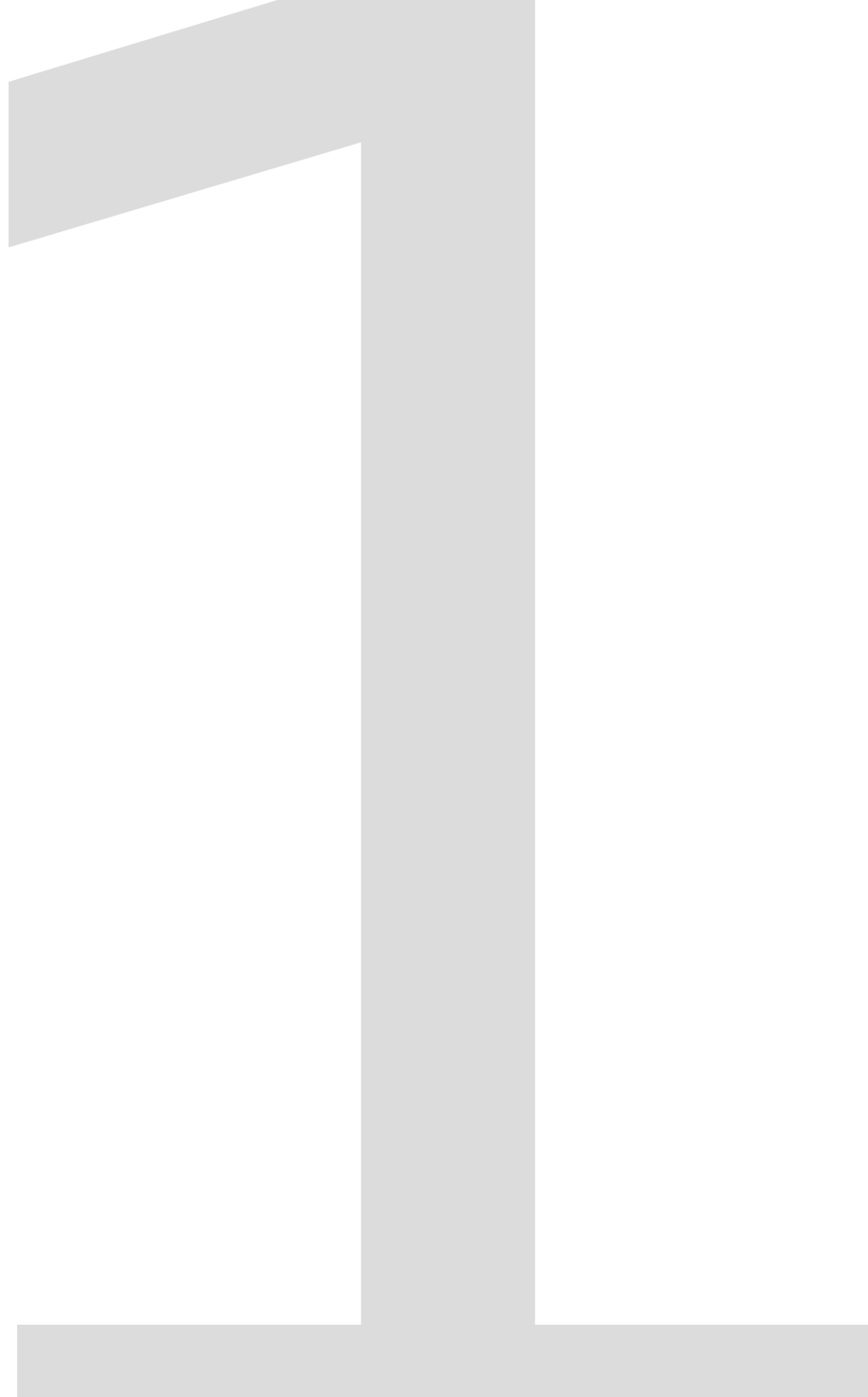
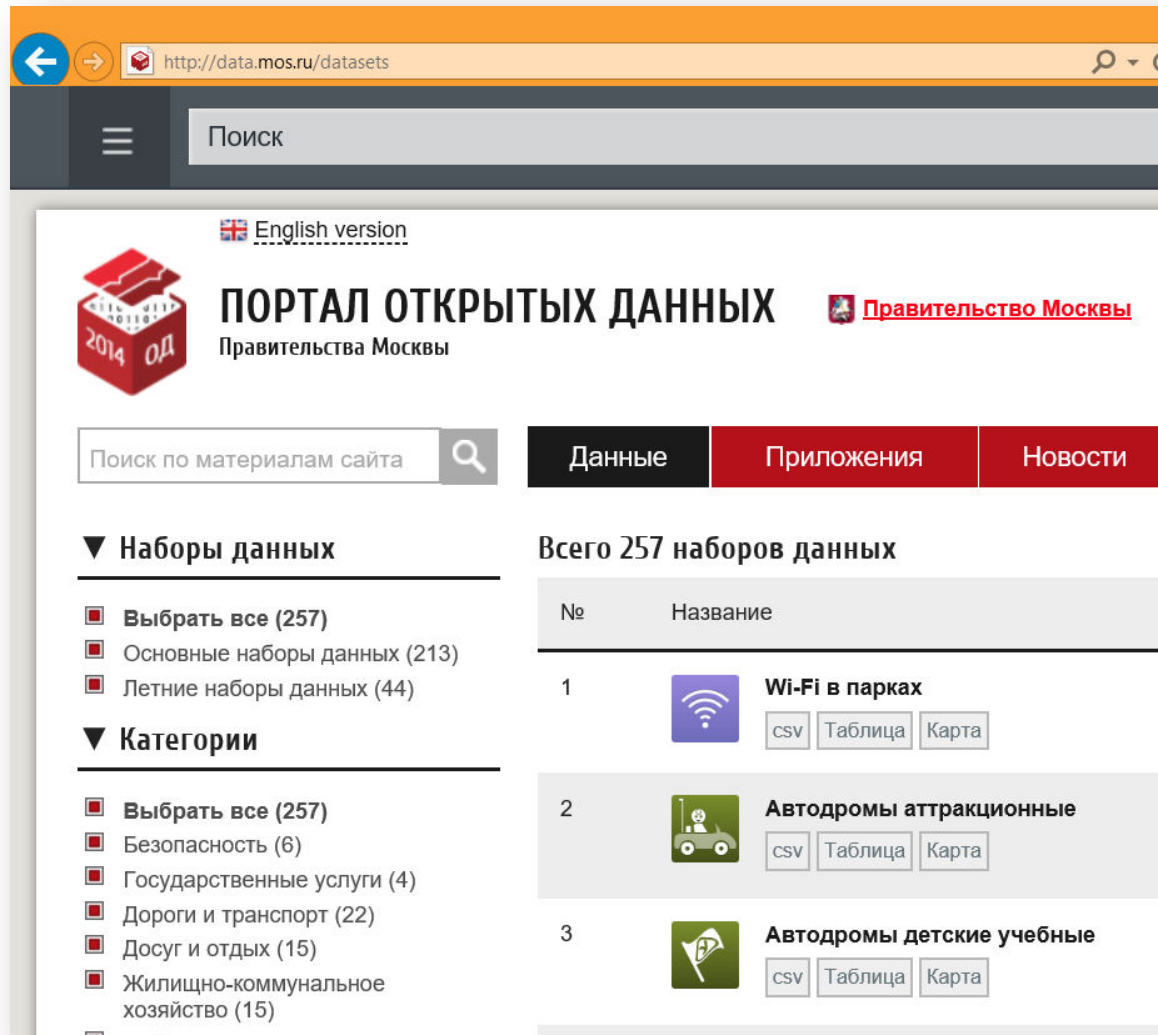# Users and their needs

Citizens

Researchers, Journalists

ISV and Independent Developers

Mobile app

Access to data in the common tools

Standardized, documented API

Where we start...

Researchers, Journalists

ISV and Independent Developers

What we really need...

ISV and Independent Developers

Researchers, Journalists

Citizens

Free of any technological barriers

Opening Up Data Effectively?

Public Portal

Business Solution

Database

Public Portal	Public Portal	Public Portal	Mobile API

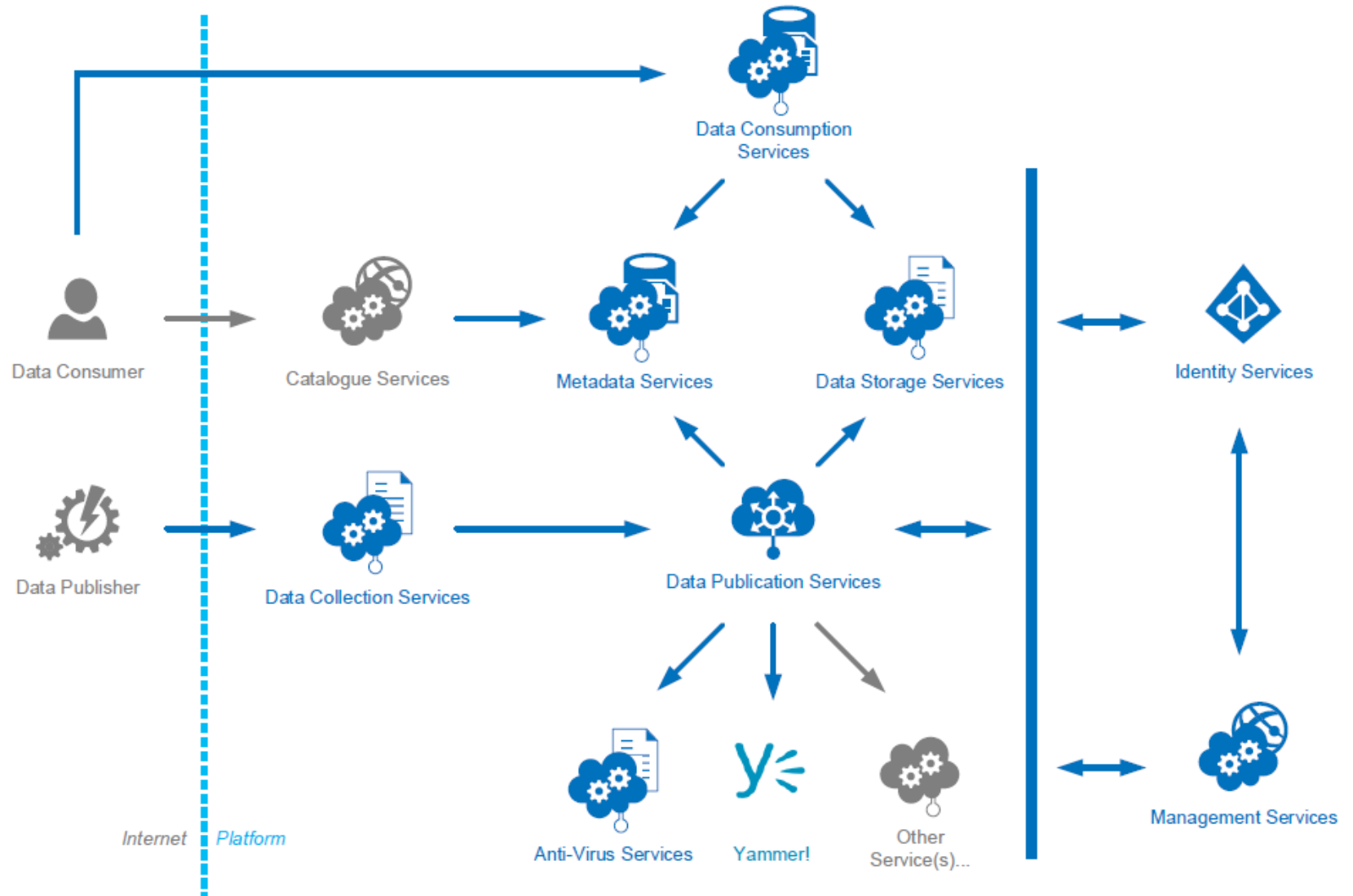| Business Solution |
| --- |

Cache

Database

Normalized Data
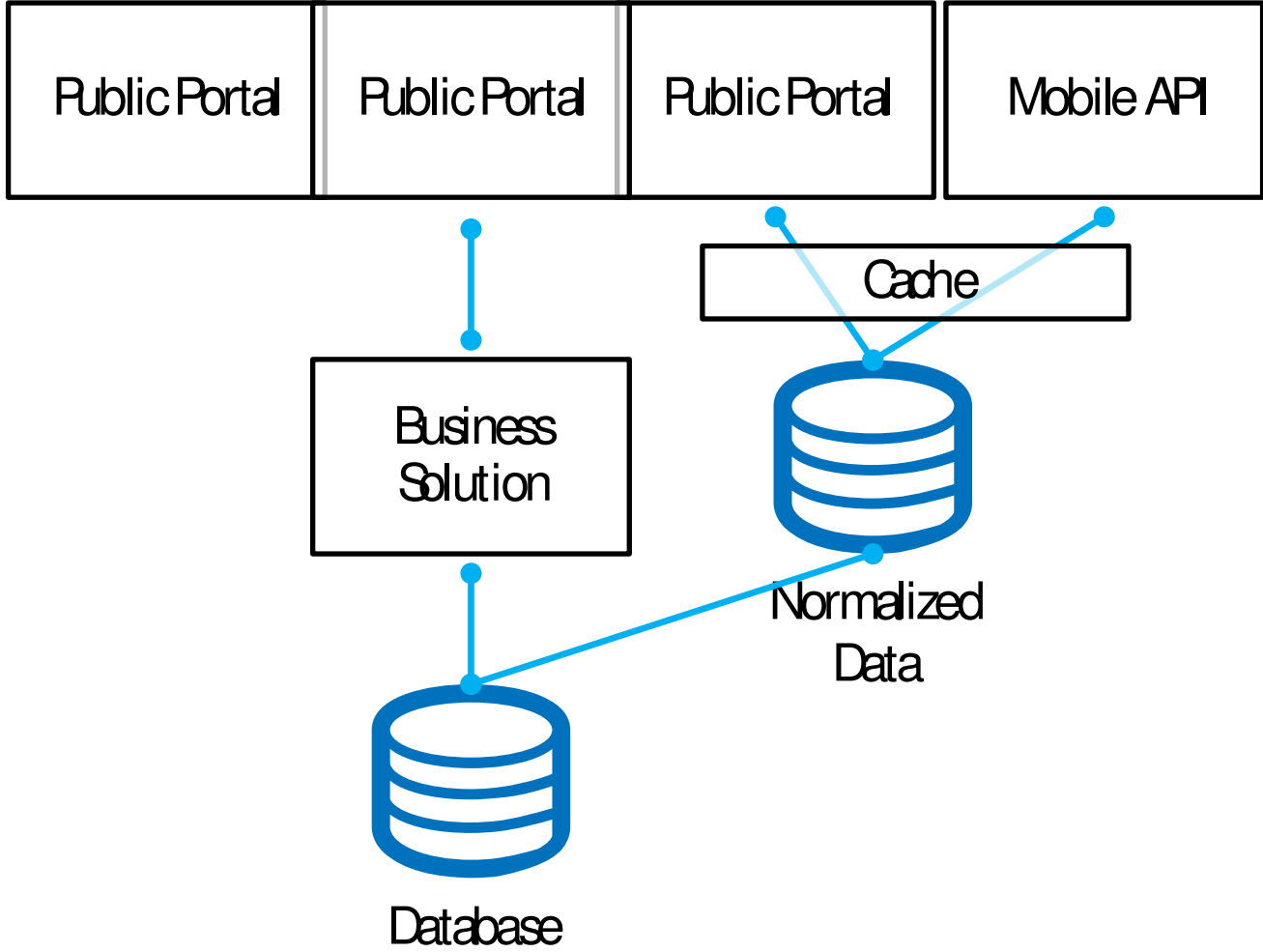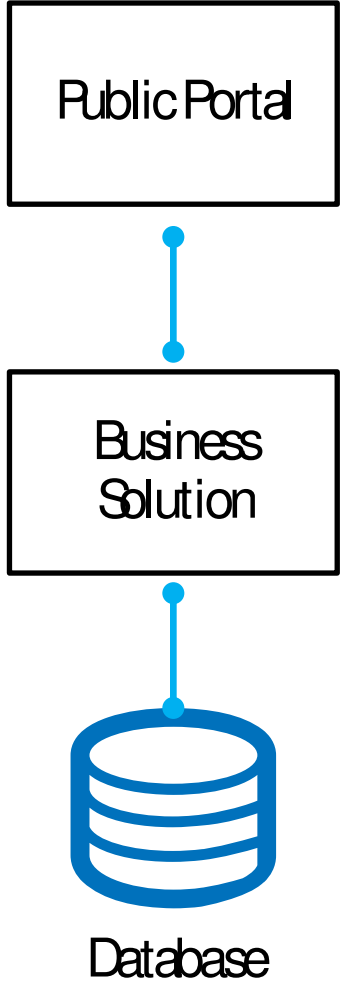
Centralized, public cloud approach

One entry point for consumers and developers

More efficient use of resources

Faster time to market

Data Consumption Services

Data Consumer

Catalogue Services

Metadata Services

Data Storage Services

Identity Services

Data Publisher

Data Collection Services

Data Publication Services

Anti-Virus Services

Yammer!

Other Service(s)...

Management Services

Internet   Platform

Free of any legal barriers

3

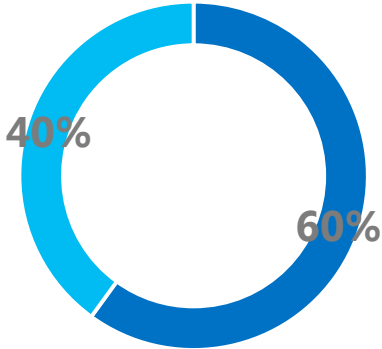# Organizational complexities

Public Portal

Business Solution
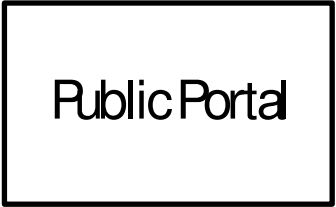
Database

Government Employees

Citizens

40%

60%
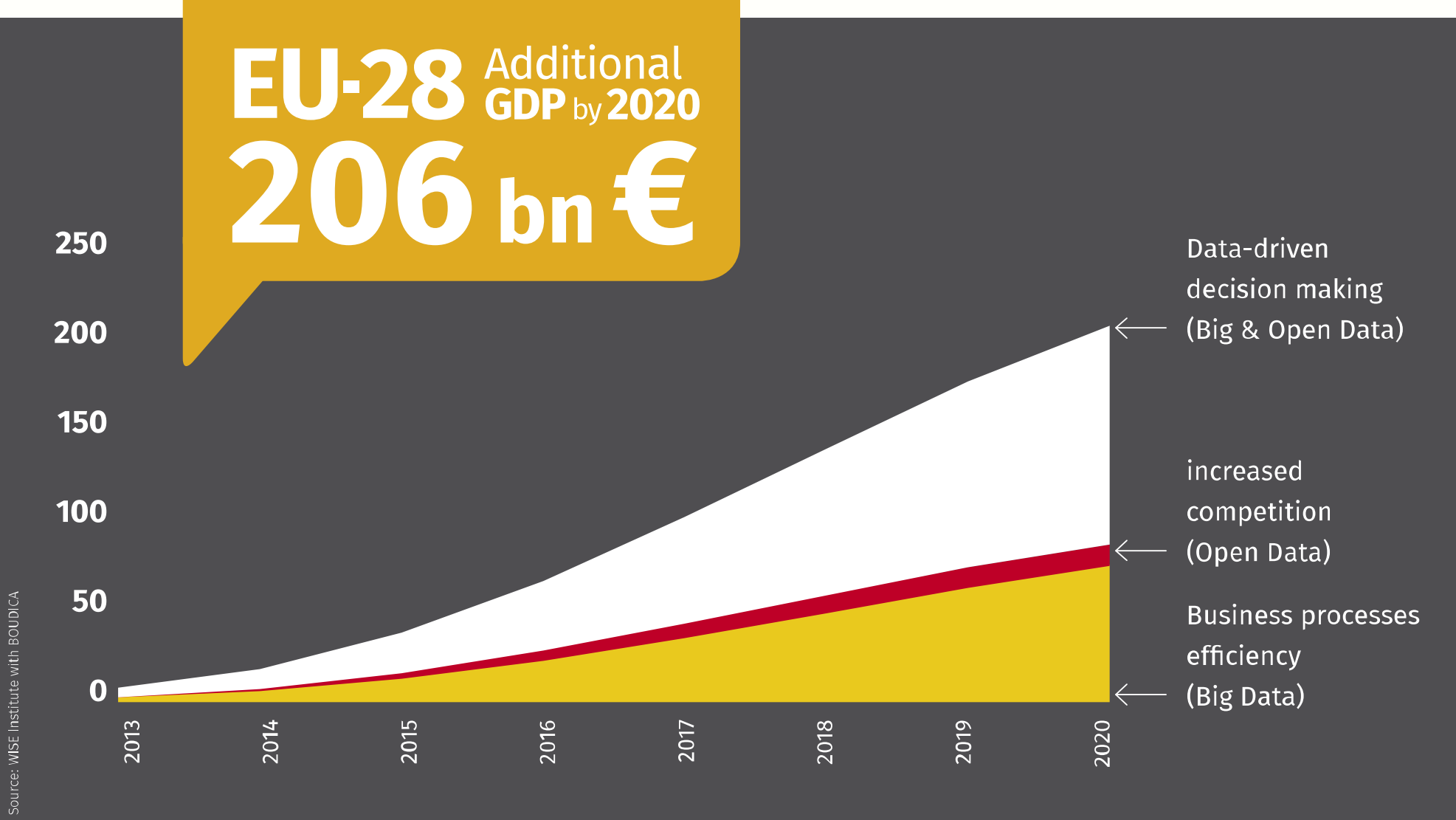
■ Planned budget

■ Earnings from services provided to citizens

Big Data

Big Questions
&
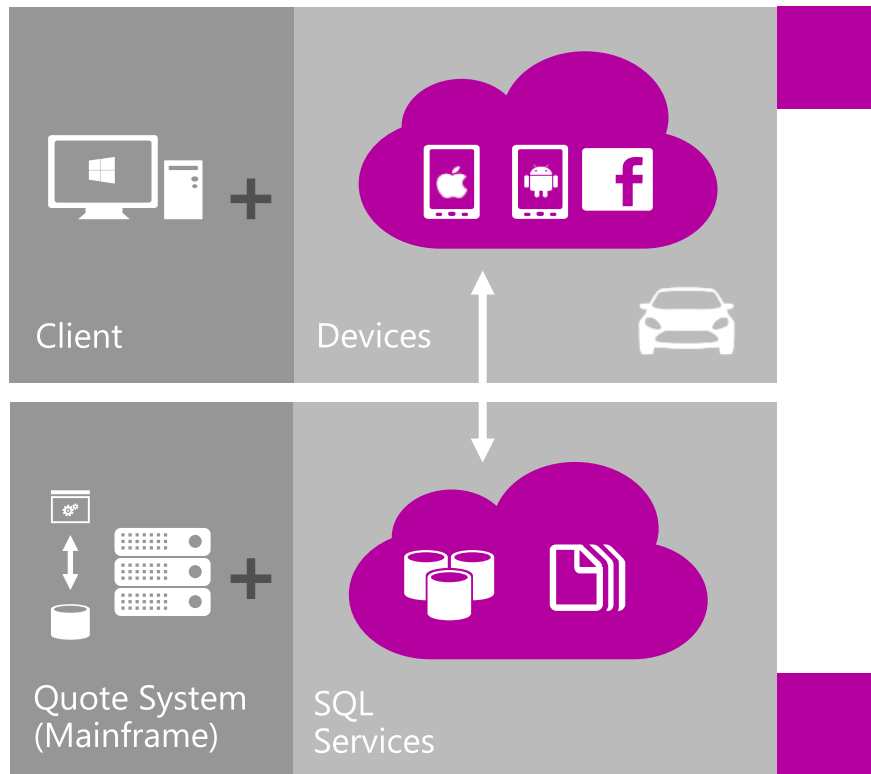Big Insights

Transformational Impact

EU-28 Additional GDP by 2020
206 bn €

250
200
150
100
50
0

2013 2014 2015 2016 2017 2018 2019 2020

Source: WISE Institute with BOUDICA

Data-driven decision making (Big & Open Data)

increased competition (Open Data)

Business processes efficiency (Big Data)

Big Uptake in Commercial Sector
Tailored car insurance

Client

Devices

Quote System (Mainframe)

SQL Services

"Our app is very much a product of its time, we can take advantage of capabilities that were unavailable before"

AVIVA
DAVID WHITBY
SOLUTIONS DELIVERY
CENTER DIRECTOR

Benefits

- Lowered premiums by 20%
- Younger drivers
- Dynamic market response

Primary areas in Public Sector

Transportation

Sentiment analysis using social networks

Energy consumption optimization

Public safety/Situational awareness

Fraud detection

Environment

Predictive Analytics: Air Quality

City Dashboard

In Conclusion

Microsoft