



ДАВИД РАФАЛОВСКИЙ

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Technological transformation of Sberbank

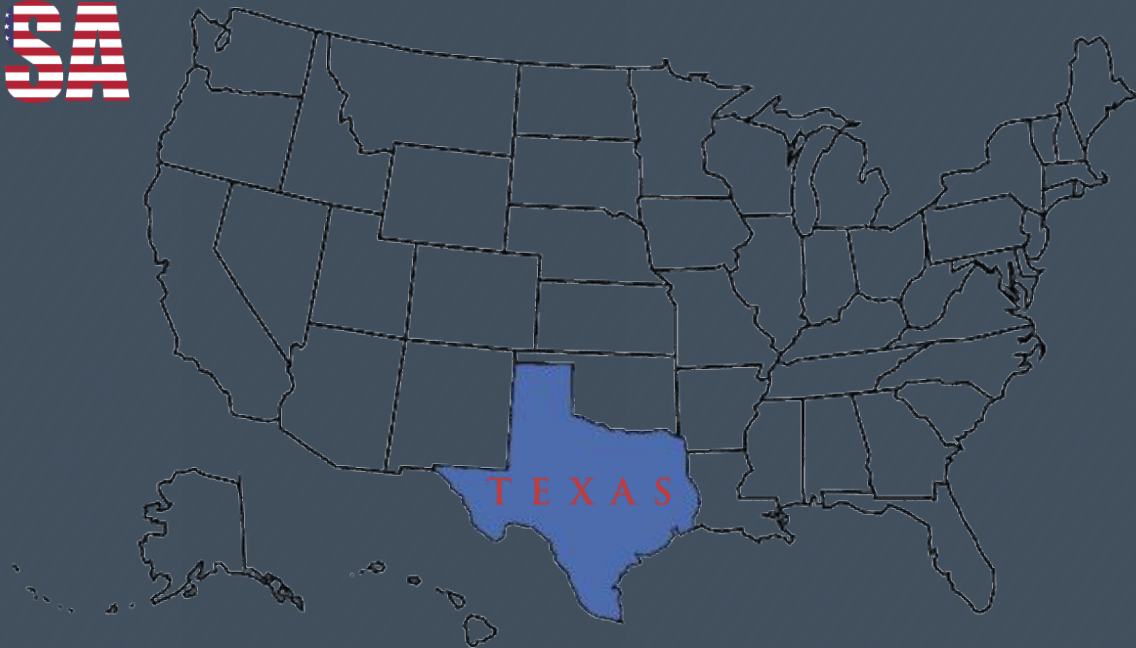
October 2019



B A R B E C U E







REGIONAL BARBECUE STYLES

KANSAS CITY



pork, beef, chicken, turkey, mutton
+
tangy-sweet tomato-and-
molasses sauce
+
cooked over indirect heat,
finished over direct heat

KENTUCKY

pork, mutton, chicken, beef
+
tangy, vinegar-based sauce
+
slow-smoked
over hickory



MEMPHIS



pork (ribs, butt, shoulder)
+
spicy-sweet dry rub
+
slow-smoked over indirect heat,
finished over direct heat

NORTH CAROLINA EAST

pork (whole hog, shoulder)
+
vinegar-based
sauce
+
pit-cooked over direct heat



NORTH CAROLINA PIEDMONT



pork (whole hog, shoulder)
+
tomato-based sauce
+
pit-cooked over direct heat

SOUTH CAROLINA

pork (whole hog, shoulder)
+
mustard-based sauce
+
pit-cooked over
direct heat



ST. LOUIS

pork (ribs, shoulder)
+
seared on the grill
+
sweet, tomato-
based sauce



TEXAS

beef (brisket, ribs)
+
savory-smoky dry rub
+
slow-smoked over indirect heat,
finished over direct heat





**All ingredients are very
simple**



Brisket



⇒ **Salt and
pepper**





Wood





Barbecue pit





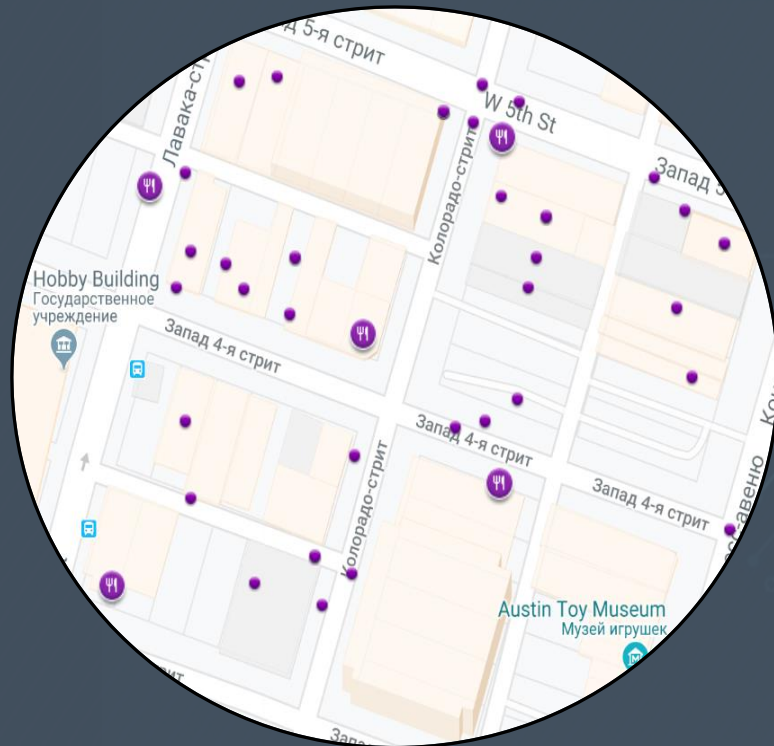
In Austin there are around

800

BBQ restaurants

➔

10 restaurants at one crossroad






Franklin

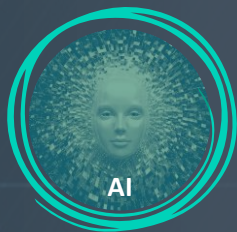
BARBECUE

➔ **Aaron
Franklin**



The background is a dark blue gradient with light blue circuit-like patterns. On the left side, there are several parallel lines that curve downwards and to the right, ending in a right-pointing arrow. On the right side, there are several parallel lines that curve downwards and to the left, ending in a left-pointing arrow.

**Majority of companies invests in
same areas**



AI

Companies grow expertise in AI:
number of AI start-ups, acquired
within 5 years

Google 11

Apple 7

Facebook 5

Source: IDC, CB Insights, PWC



Cloud

All leading ecosystems in the
world have their own cloud

amazon → aws

Microsoft → Microsoft Azure

Alibaba.com → Alibaba Cloud

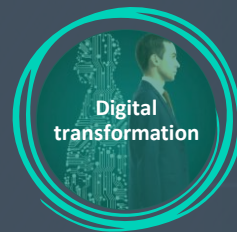


UX
design

Top-notch design became a
prerequisite of a technological
product

BBVA

1000 ambassadors
spread within organization
best practices in design



Digital
transformation

\$1,7 trillion
investments in digital
transformation and internal
reengineering globally by the end of
2019

60%
companies will implement digital
platform by 2020

Business strategy: dilemma №1

Companies make 3 types of platform decisions:

1. To be a platform

Create shared technological components, that unify companies-participants of ecosystem

2. To use a platform

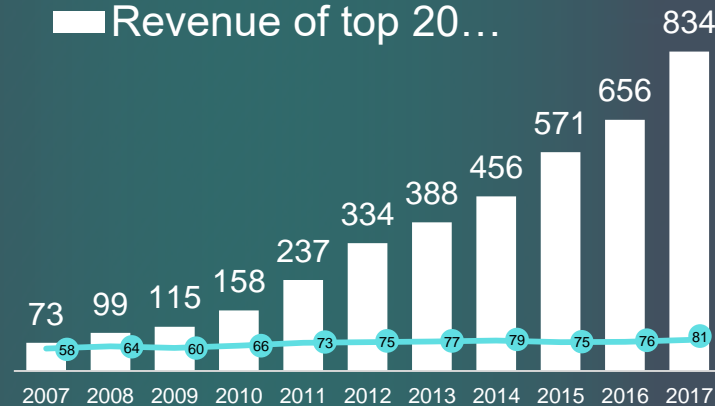
Connect to existing platform and focus on value, distributed in the chain of participants

3. To re-platform

Migrate applications and infrastructure from legacy to new solutions

Platform companies are taking the world by storm

■ Revenue of top 20...



Source: IBM



**There is always a line
for the best product**

Next step for Sberbank

Bank



Traditional financial services



Traditional channels

Technological company



Company of choice for clients and employees



AI in all processes



Data-driven decision making



Ecosystem of financial and non-financial services

Scale of our technological transformation

We transformed into
a product-centered
engineering team

and implement

40

large-scale
technological
programs in order to
shift to a new
business model,
including...

Cloud platform

SberCloud

Application
development process

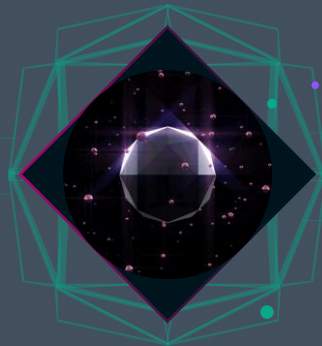
SberWorks

Analytics and AI
platform

SberData

Technological
platform

SberPlatform



Cloud Platform



We create world-class cloud platform, the largest in Russia



Guarantee

- ✓ Business agility
- ✓ Deployment speed
- ✓ Reliability
- ✓ Cost reduction



Our partners – leading technological companies



Cloud-centric strategy: cloud for us – key enabler of technological transformation

We offer to the market the same cloud solutions that we use in the bank



BANK



ECOSYSTEM

Individuals

SME

Large enterprises

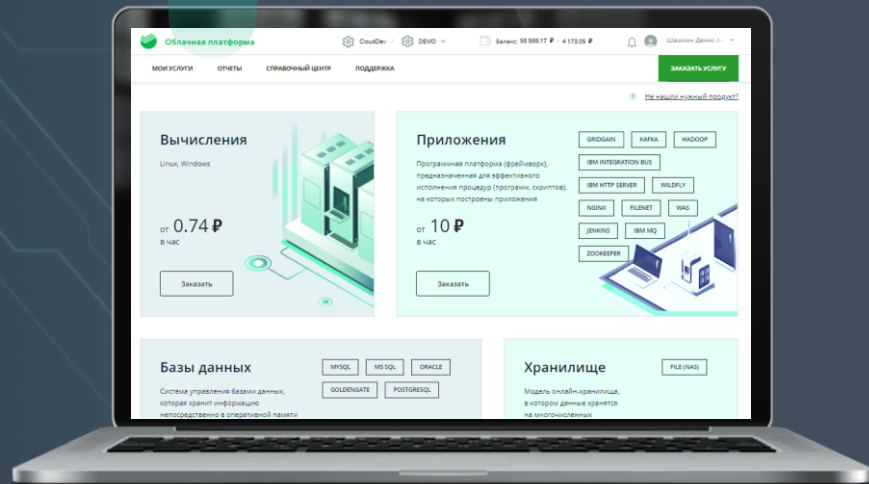
Government

MARKET

Cloud Platform for Bank



We have a private cloud and provide infrastructure dynamically through the portal



- 1 Significant reduction in time to provide infrastructure
- 2 Increase of server infrastructure utilization
- 3 Self-service provisioning of infrastructure
- 4 Usage-based pricing – transparency and pay-per-minute billing

>80%
of infrastructure
provisioned automatically

5 min
delivery time of
infrastructure products

1 min
billing

The balance between speed of provisioning and cost optimization

The speed of provisioning

Optimal use of infrastructure applying application architecture and coding practices



From Cloud-Ready to Cloud-Native Applications

Cloud-Ready

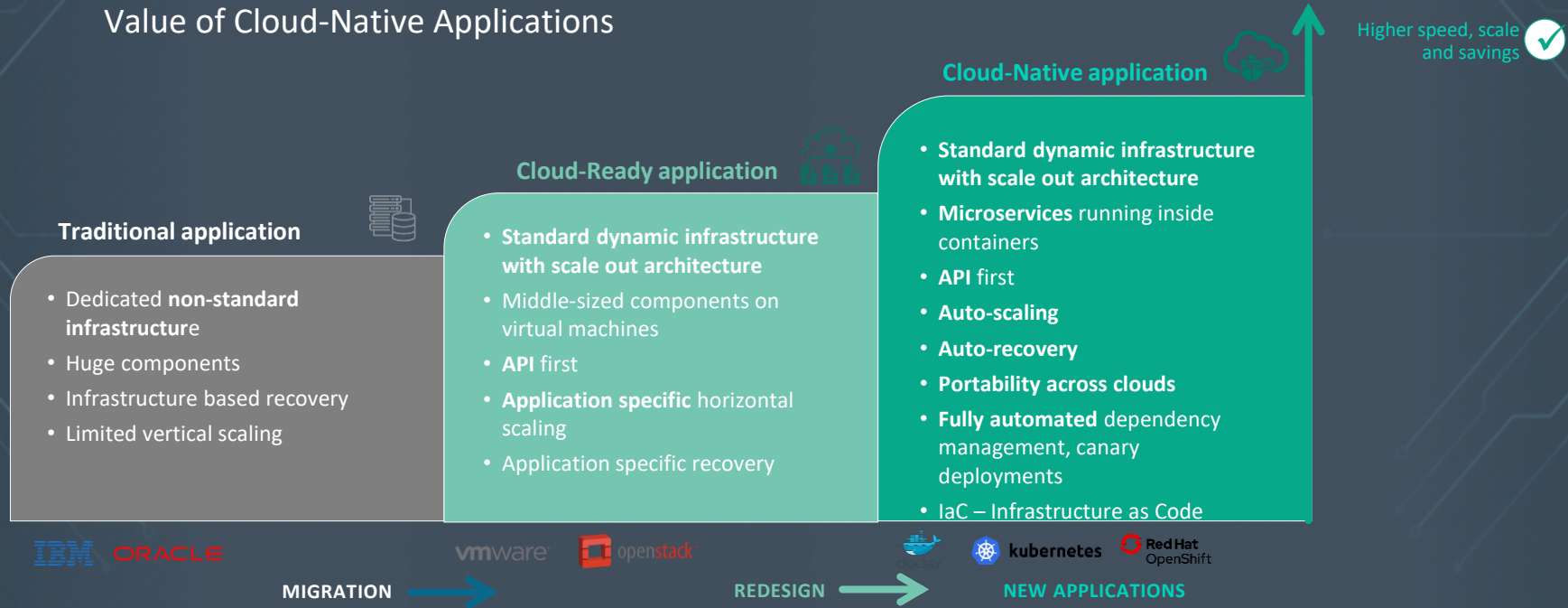
application, adapted to migrate in cloud environment with limitations to app-specific configurations



Cloud-Native

application that is based on microservices and built by design to take full advantages of cloud architecture

Value of Cloud-Native Applications



Analytics and AI Platform

We have **technologically advanced analytics platform** that allows

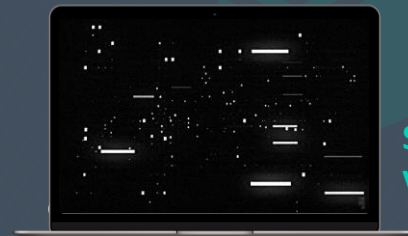


process **big volumes of data**



any **non-technical employee** to use **tools for analysis** and reporting

Platform enables us to be pioneers in AI and implement 2000+ models



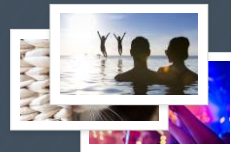
Sberbank data volume



4650

Library of Congress
(printing materials)

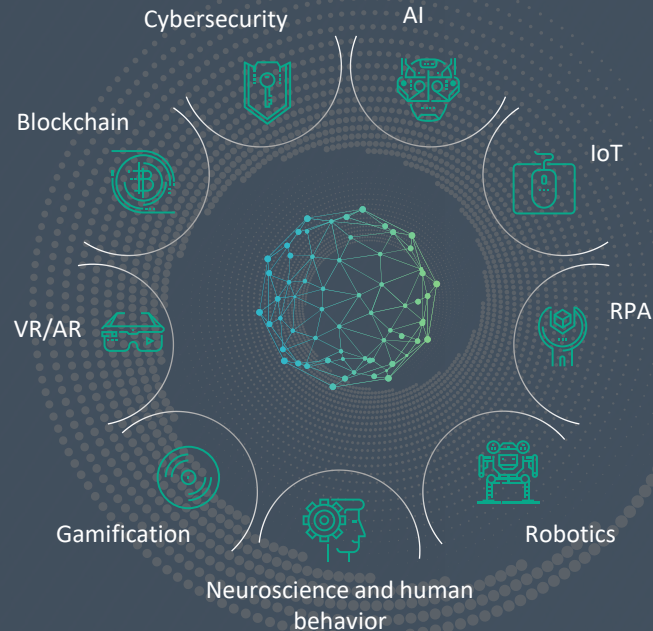
or



620 bln
photos in Facebook

Innovation is a part of our DNA

One of the instruments is innovation laboratories, where we create breakthrough research initiatives to integrate in business



Examples of completed projects

Identification of different stroke types by neural network

Cash delivery by drone


Cashless payment in public transport

Automatization of cash management in encashment center by robot

Tracking of shipments and payments in blockchain platform

Want to be as 

Create as 
Alibaba.com

Be more effective than 
amazon

#LIKE_IN_SBER

