



TCS Group or Tinkoff (or the Group) are the names used in this Report for TCS Group Holding PLC and its group of companies operating under the Tinkoff brand in Russia. These include Tinkoff Bank and Tinkoff Insurance. Summary of presentation of financial and other information. All financial information in this document is derived from the financial statements of TCS Group Holding PLC and has been prepared in accordance with International Financial Reporting Standards as adopted by the European Union and the requirements of Cyprus Companies Law, Cap 113, which are for the year ended 31 December 2017 included in this document. A detailed description of the presentation of financial and other information is set out after page 59 of this document. Market data used in this document, including statistics in respect of market share, have been extracted from official and industry sources TCS Group Holding PLC believes to be reliable and is sourced where it appears. Such information, data and statistics may be approximations or estimates. Some of the market data in this document has been derived from official data of Russian government agencies, including the CBRF, Rosstat and the FSFM. Data published by Russian federal, regional and local governments are substantially less complete or researched than those of Western countries. Certain statements and/or other information included in this document may not be historical facts and may constitute "forward looking statements". The words "believe", "expect", "anticipate", "intend", "estimate", "plan", "forecast", "project", "will", "may", "should" and similar expressions may identify forward looking statements but are not the exclusive means of identifying such statements. Forward looking statements include statements concerning our plans, expectations, projections, objectives, targets, goals, strategies, future events, future revenues, operations or performance, capital expenditures, financing needs, our plans or intentions relating to the expansion or contraction of our business as well as specific acquisitions and dispositions, our competitive strengths and weaknesses, our plans or goals relating to forecasted operations, reserves, financial position and future operations and development, our business strategy and the trends we anticipate in the industry and the political, economic, social and legal environment in which we operate, together with the assumptions underlying these forward looking statements. We do not make any representation, warranty or prediction that the results anticipated by such forward looking statements will be achieved. Nothing in this document constitutes an invitation to invest in securities of TCS Group.



Russian Financial Market



Oliver Hughes





Russia stands out for Digital/FinTech development

- 67% of Russian adults have a bank account
- up to 90% in 2020
- High dwell time on the Internet 6.31hrs/day (vs the leader Brazil 6 8.67hrs)
- 268mn of payment cards in Russia at YE2017
- **₽60.8tn transaction volumes in 2017**
- 26% of PCE (personal consumption expenditures) on cards
- Source: World Bank, the CBR

Internet Penetration 76% (#2 in the World after UK Smartphone penetration 55% up to 75% by 2020





Russia is different from other countries

Tinkoff breaks traditions

- An IT company by nature but a Bank by regulatory status
- sheet traditional banking
- 100% Digital vs Brick&mortar model
- On-line acquisition with off-line fulfilment capability
- Moving into lifestyle, travel and entertainment

From consumer finance to lifestyle banking

In-house IT development and innovation vs Outsourcing and legacy systems

A hybrid of smart balance sheet and broker solutions vs Heavy balance



From on-line/e-com to financial services





Defining Publicly Traded Peer Universe

Platform Players



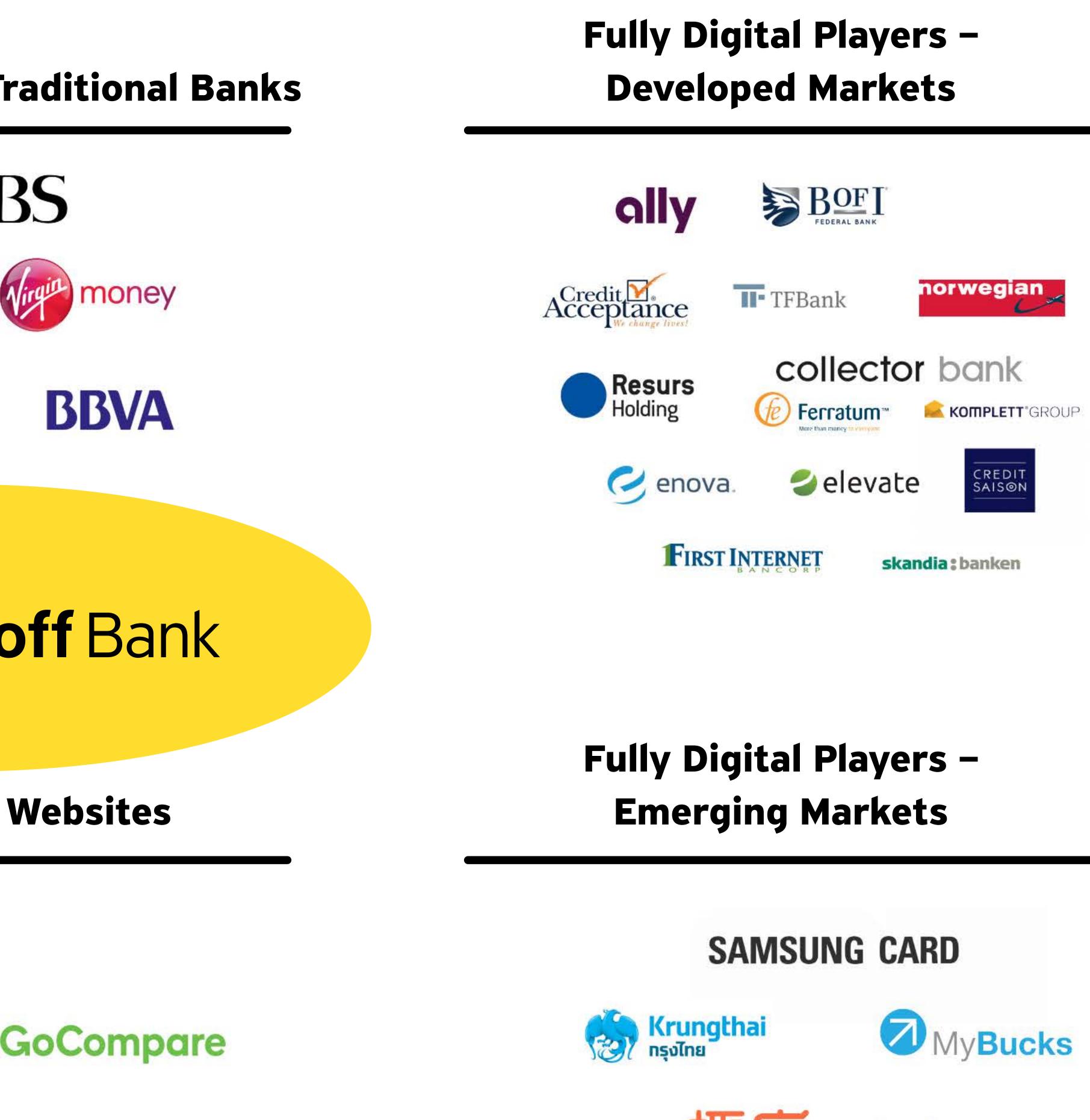
Fintech





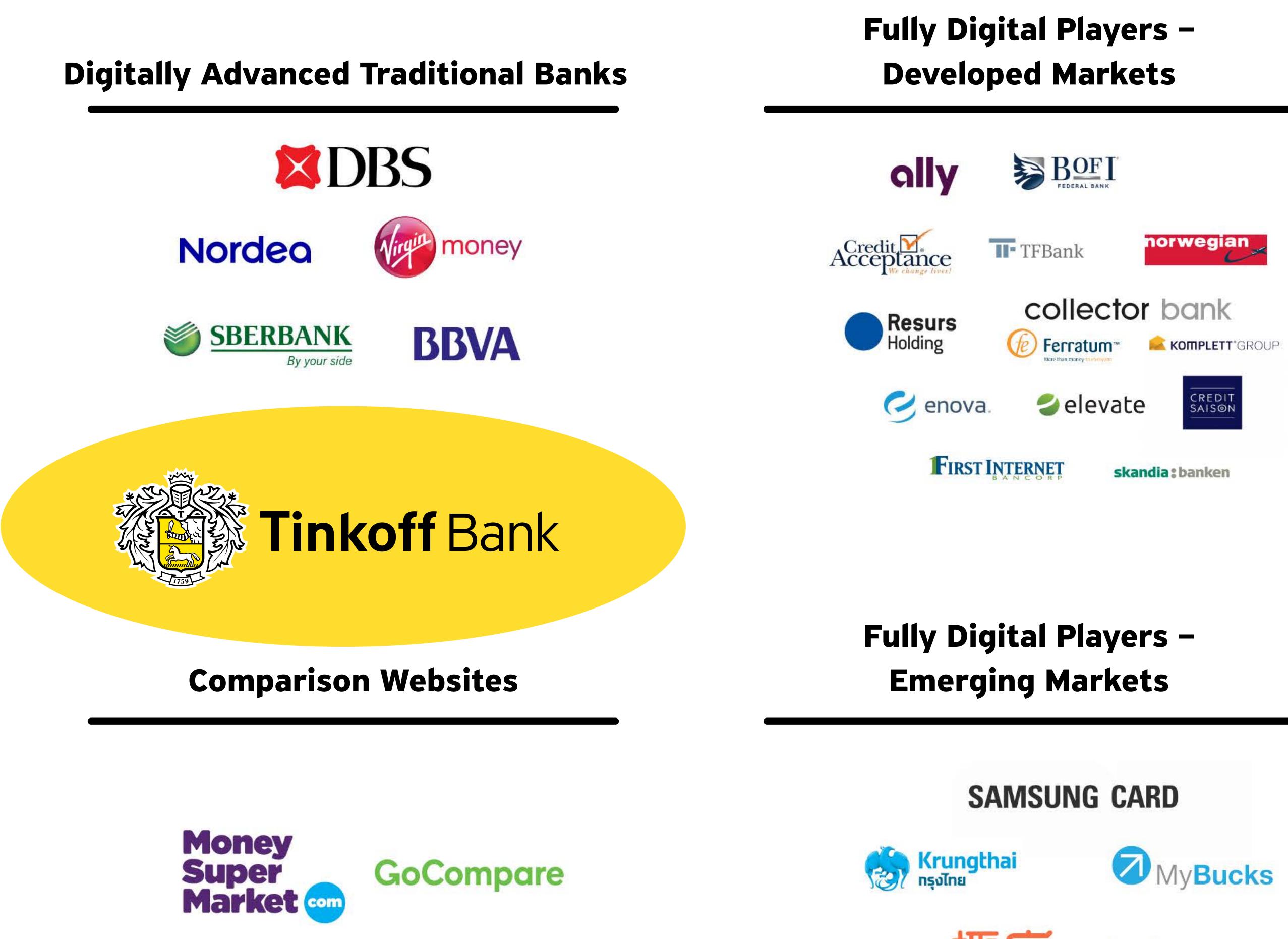














Non-listed Banks























Qudian.com





bankbazaar.com





Innovation will thrive



Artem Yamanov **Business Development Director**





Evolving customer preferences drive Innovation in banking

Current trends:

- Move to on-line vs physical vi
- Rapid growth of NFC payment (ApplePay, Google Wallet etc)
- Open banking API's (PSD 2 ar
- Bank requisites are fading out in favour of Payments by telephone number

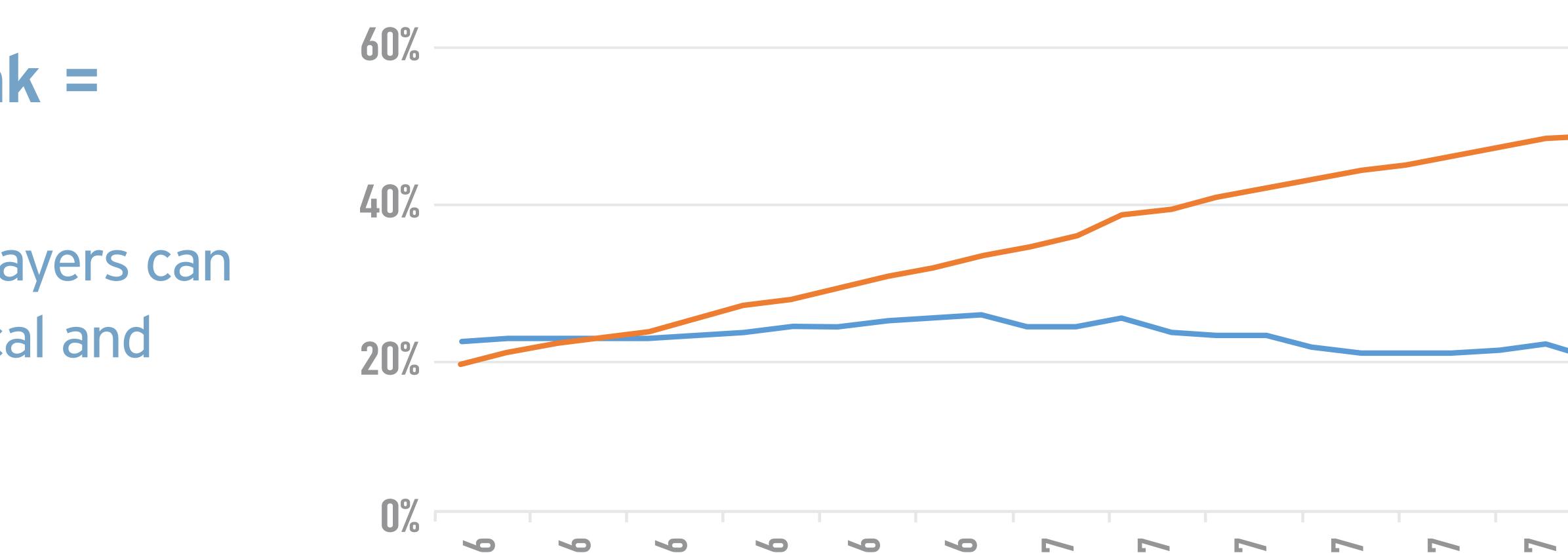
New-age digital bank = Mobile App

In Russia only few big players can afford being technological and competitive

• Rapi
Tink
• Entr
(Yan
• Lack

Jan





Threats for traditional banks:

oid development of existing ecosystems (Sberbank, koff, Alfa Bank)

ry of technology companies to financial market ndex, Google, etc)

k of interface in favor of social media apps

Penetration of IB and MB for the month







Global trends in mobile app usage

• Good news - mobile bank app is one of these apps

• Tinkoff customer visits mobile app c.200 times/year WHILE for example Facebook user makes 200 visits/month

 Less than 5-7 apps are used by customers on a frequent/ daily basis



 More than half of Mass Affluent customers visit mobile app every day

 High activity allows to push new ecosystem products

Customer Data is Key

Big Data enables more efficient customer engagement:

- Boost dwell time and expand interaction tools with customers
- A different angle of financial services fascinating, not boring
- Provide highly targeted offerings based on a psychological profile of a certain customer segment or even a specific person
- Fine-tune targeting and content/service provisioning models based on customer feedback and activity
- Involve partners, merchants, bloggers & vloggers in content/service generation and offering



BIG Data available for banks:

transactions, merchants, receipts

integration with social media



geodata, money transfers, social network

Product Evolution

Before

Product = **Product + Speed/Interface**

 Most of people cannot verbalize what they want

 People have a problem of choice

NOW

Product =

 Most people cannot verbalize what they want

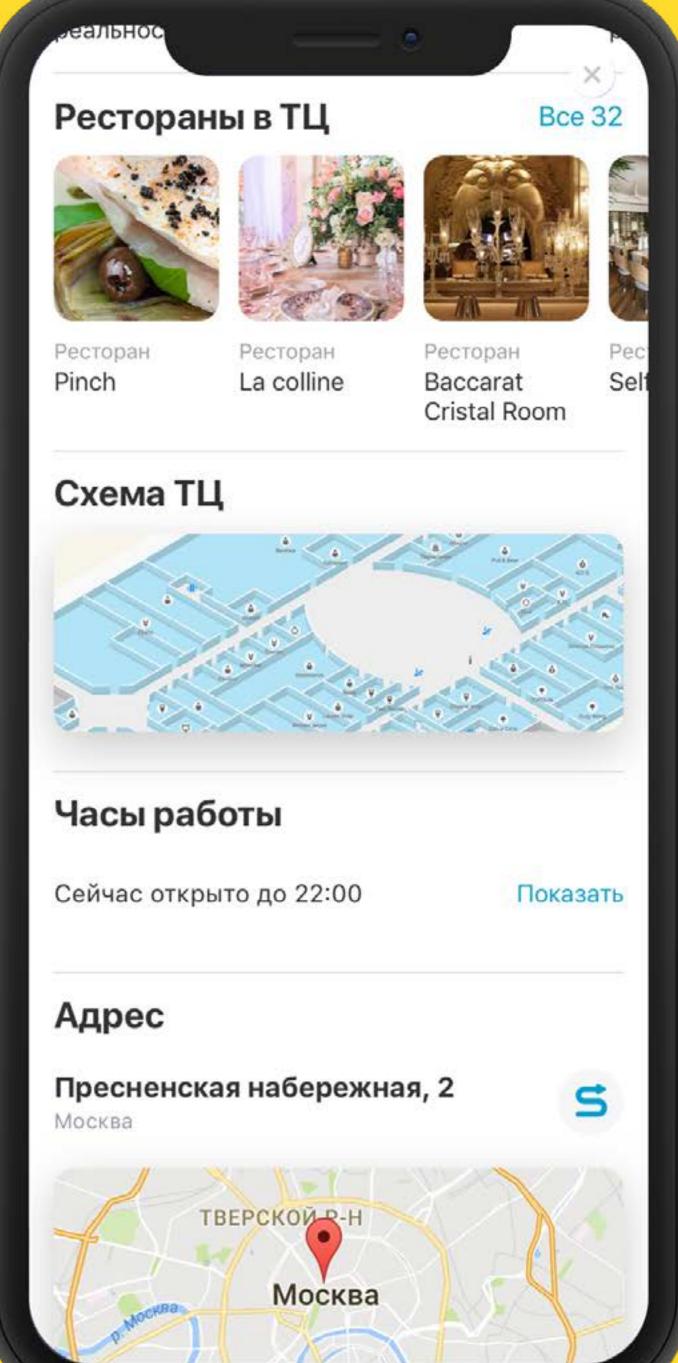
BANKING

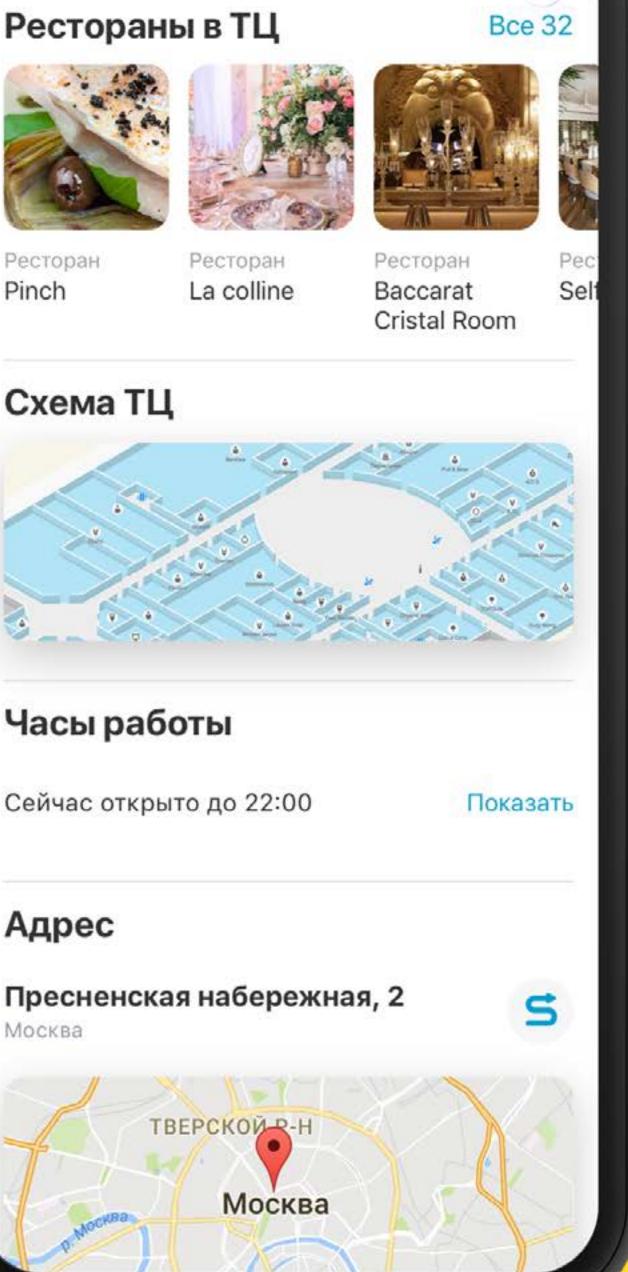
Solution (Advice/Content/AI) + Product

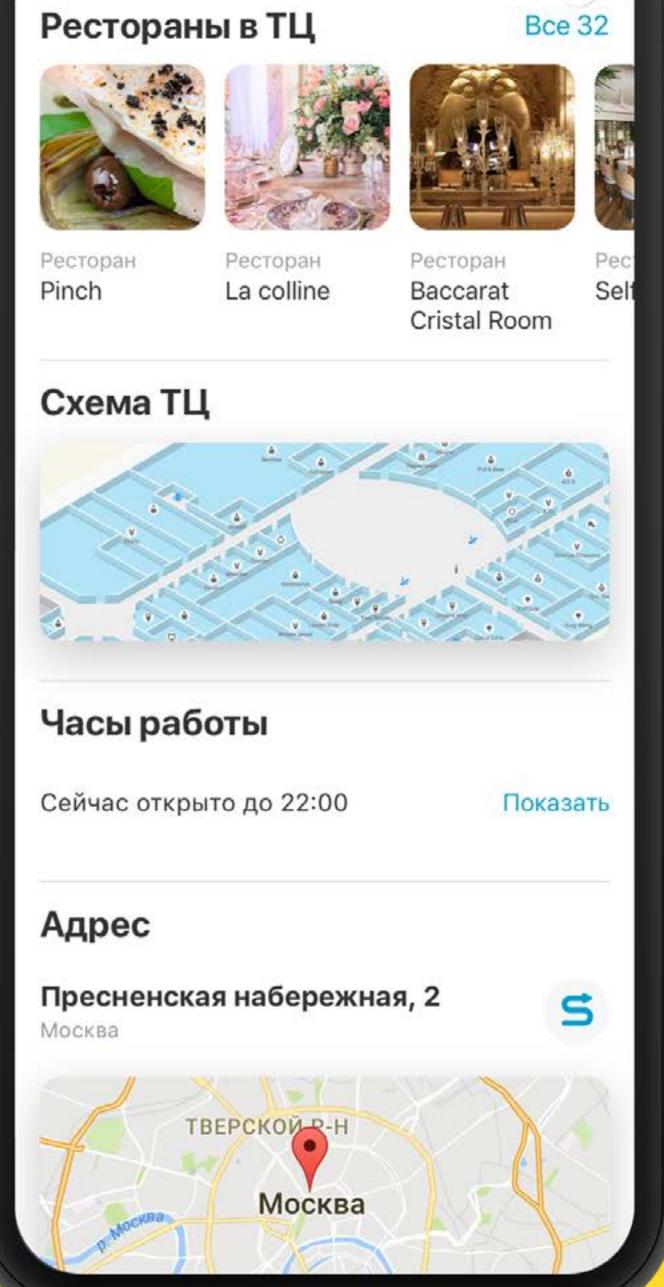
People have a problem of choice

Banking + Solutions for life =









*2111 2009DIRECTMAIL **В** Е накопительные SALES

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© 2006-2015, «Тинькофф Кредитные Систем»

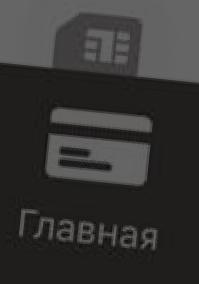
Новости • Курсы валют • Зарпл Вакански · Information fe

Дебетовые карты

Страхование

Настройки Друзь Связь с банком ожения Истор ои шаблоны = == Вная 1 百 Все получа 1 直 Дата лои Яндекс Деньги ОИСК 20 26.02.20 Моя кредитка в Ситибан: 20 Оля РосЕвроБанк 26.02 гории 20 Тепефон Markswebb 20 **ОЛЯ КРЕДИТКА ТКС** 2012Как не давать Денег в долг? 2011истории MOBILE <u>МОЛЬнисти предложения</u> PBANKING BANKING 52146,00₽ Моя карта «Рау 46 000,00 ₽ доступно 15% Активировать Долларовый счет Y 500 00 \$ Для звонков по России 8 800 555-2 **Tinkoff Mobile**

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Как

On-line customer-centric ecosystem





Daily banking needs (payments, P2P transfers, public services, utility bills, fines)

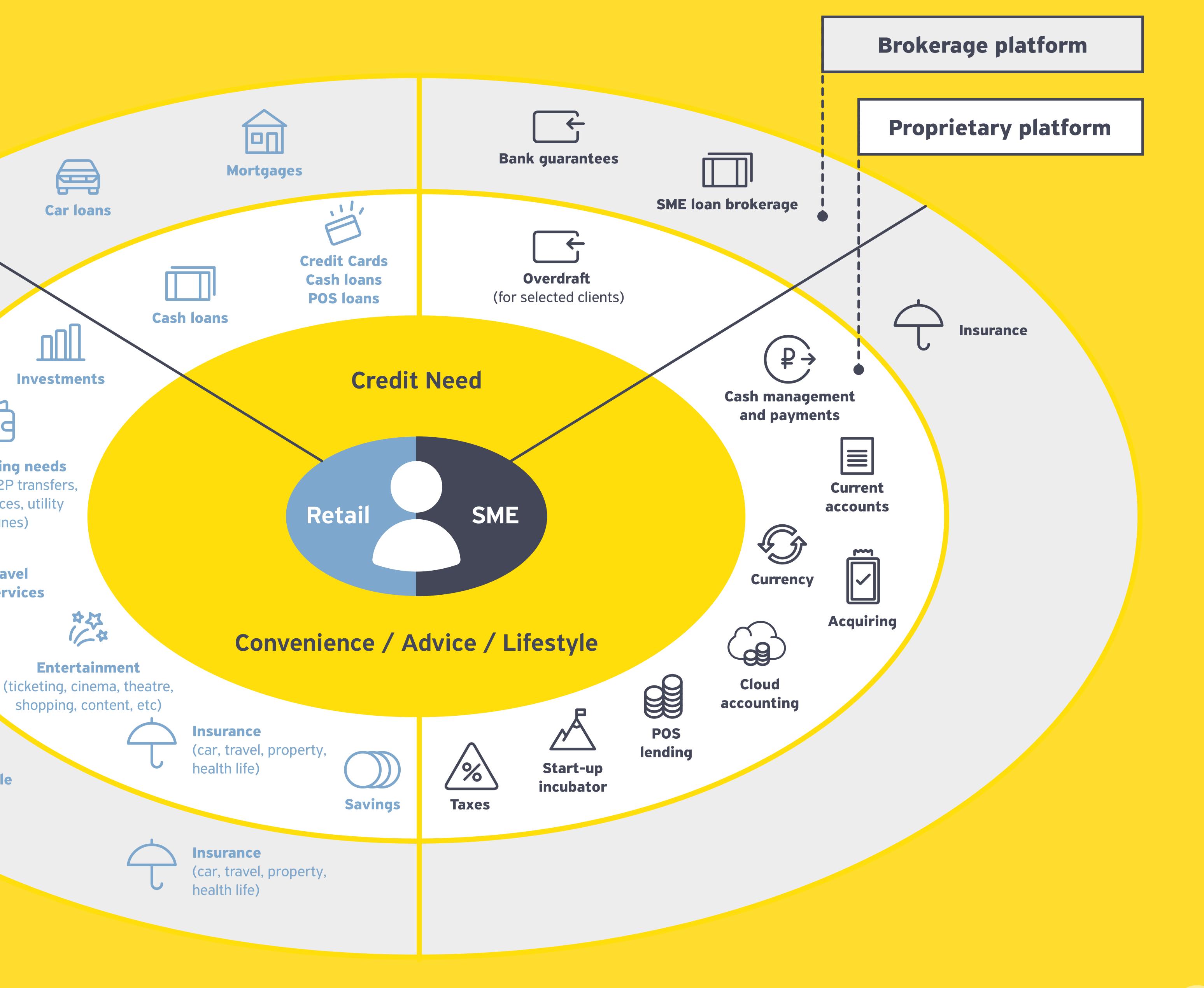


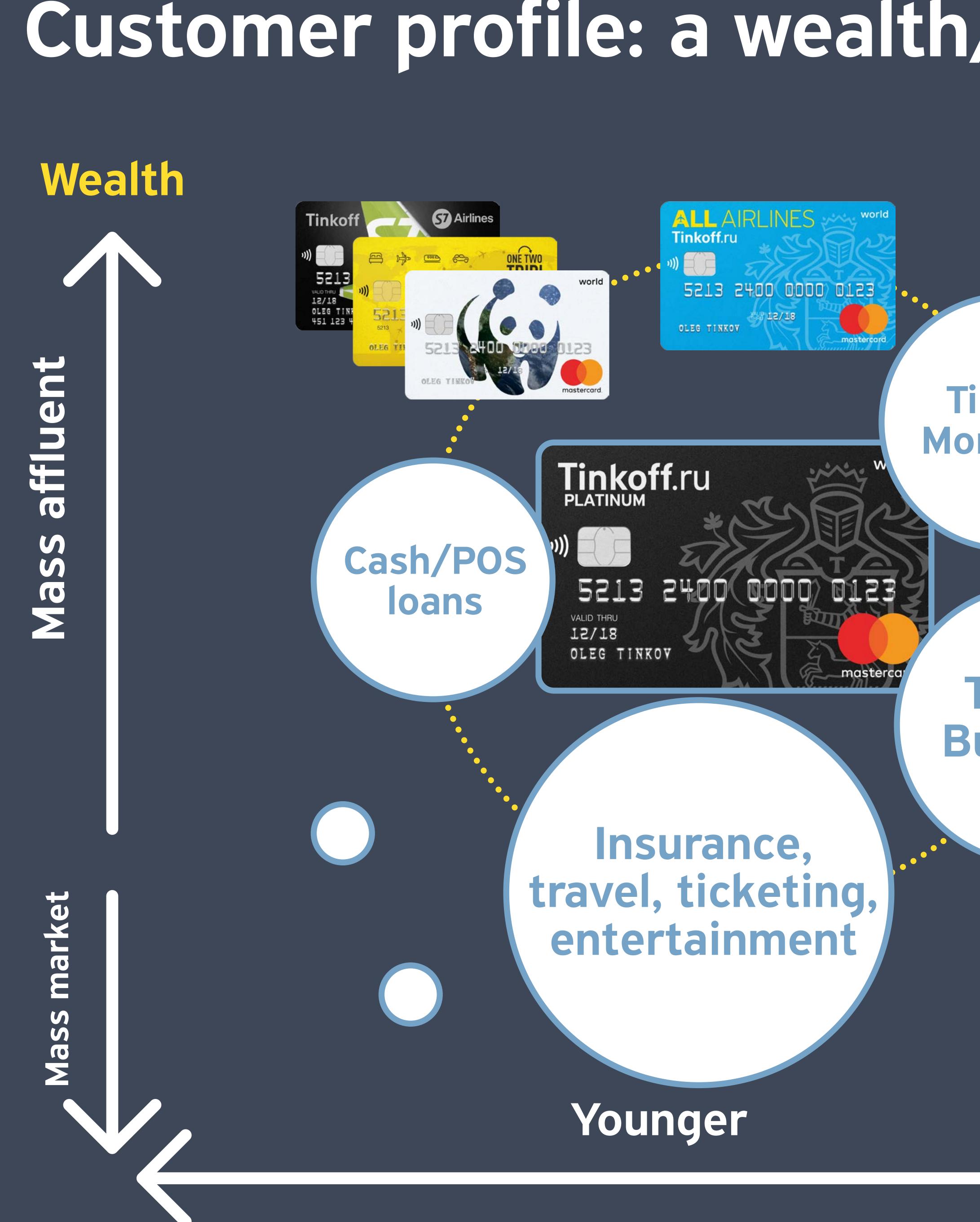
Travel services

Travel services



Mobile

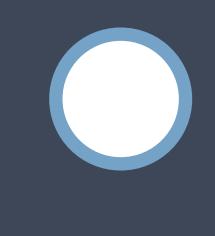




Customer profile: a wealth/age cross-section

Tinkof Mortgage

Tinkoff Business













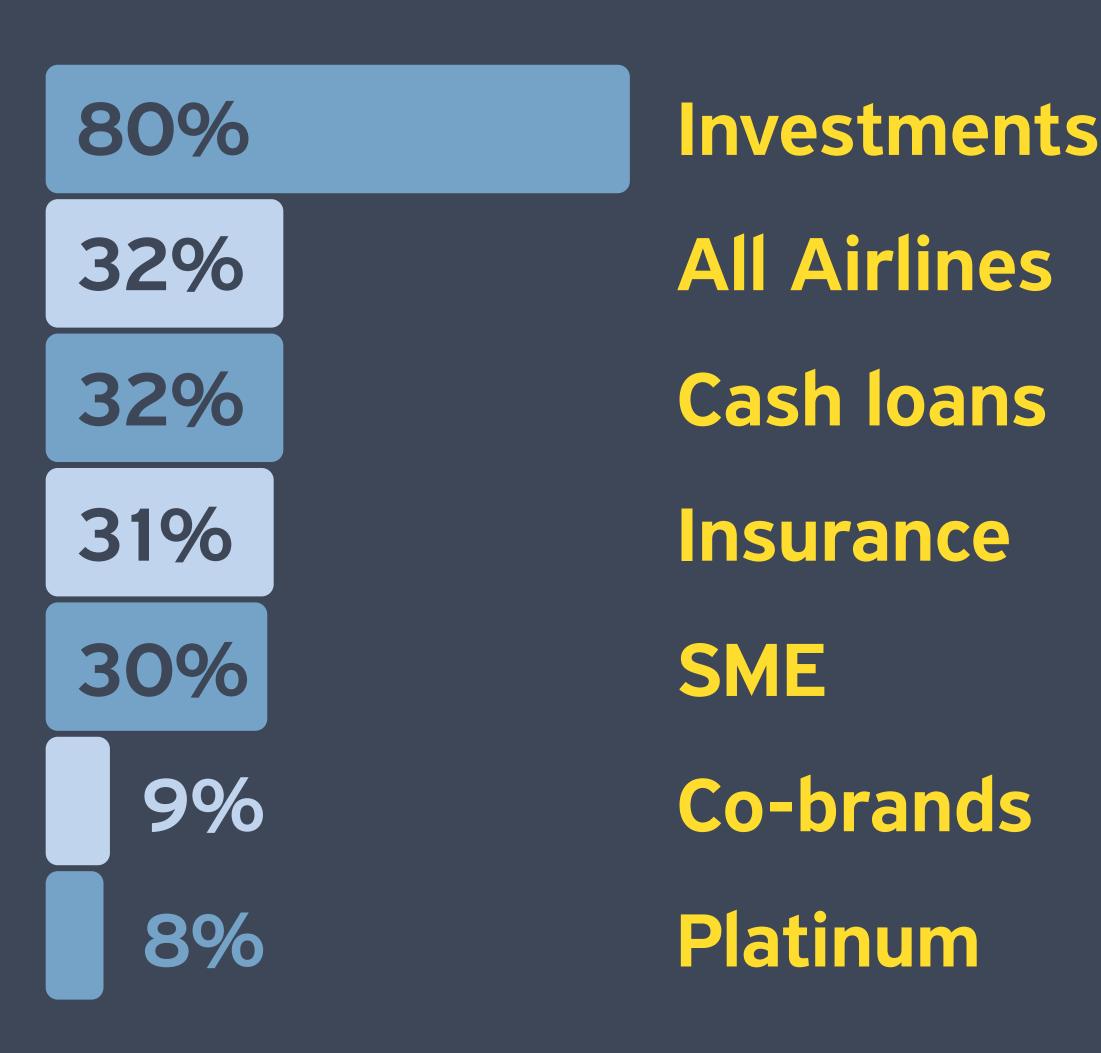




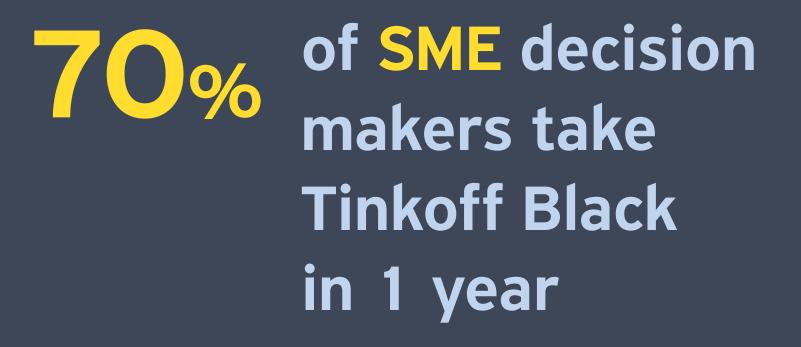


Cross-sell platform expansion How Tinkoff Black is involved into this story

It gives % of share of new customers inflow



The new disruptors



Is utilised by % of share of active customer base

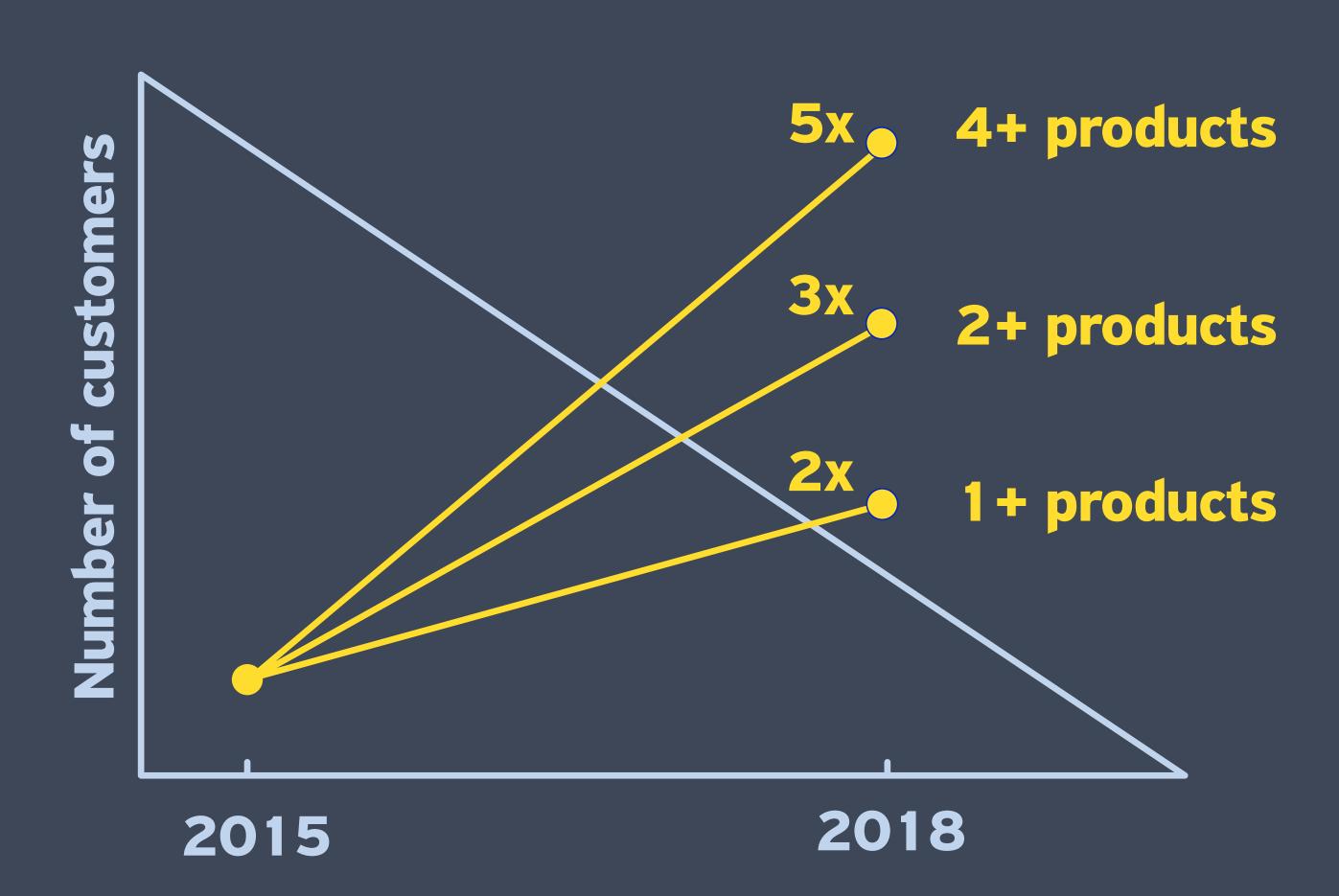
96% Cash loans All Airlines 47% 38% Insurance Platinum 9% **Co-brands** 8%



of SME customers use one or more additional corporate service vs. 30% a year ago



Customers tend to own more products



of POS customers have utilized a credit card within 1.5 years



of SME customers were newcomers in 2015 and 2018 58% correspondingly





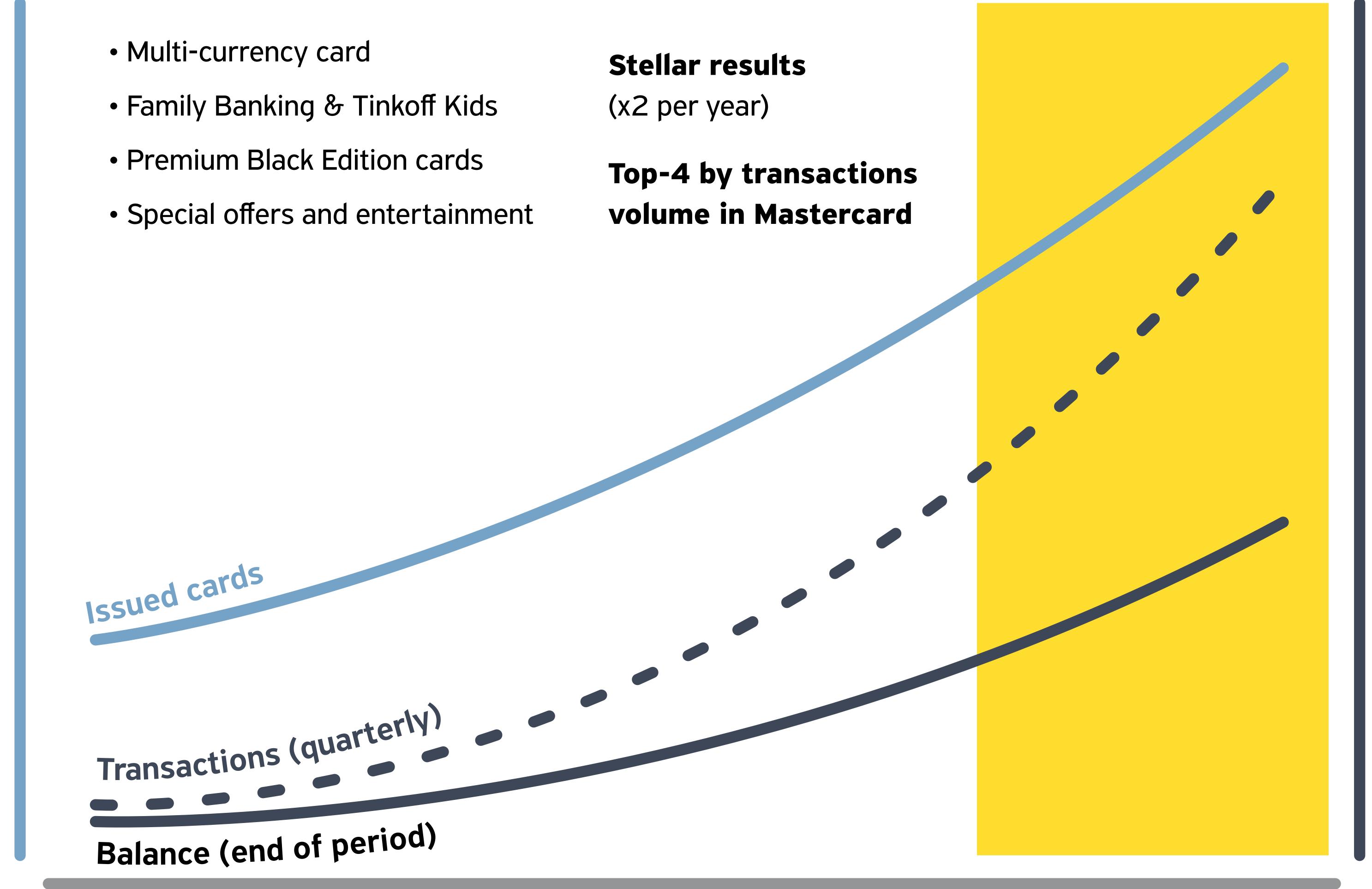
Tinkoff Black current accounts: juicy product for sophisticated customers

Issued cards (mn)

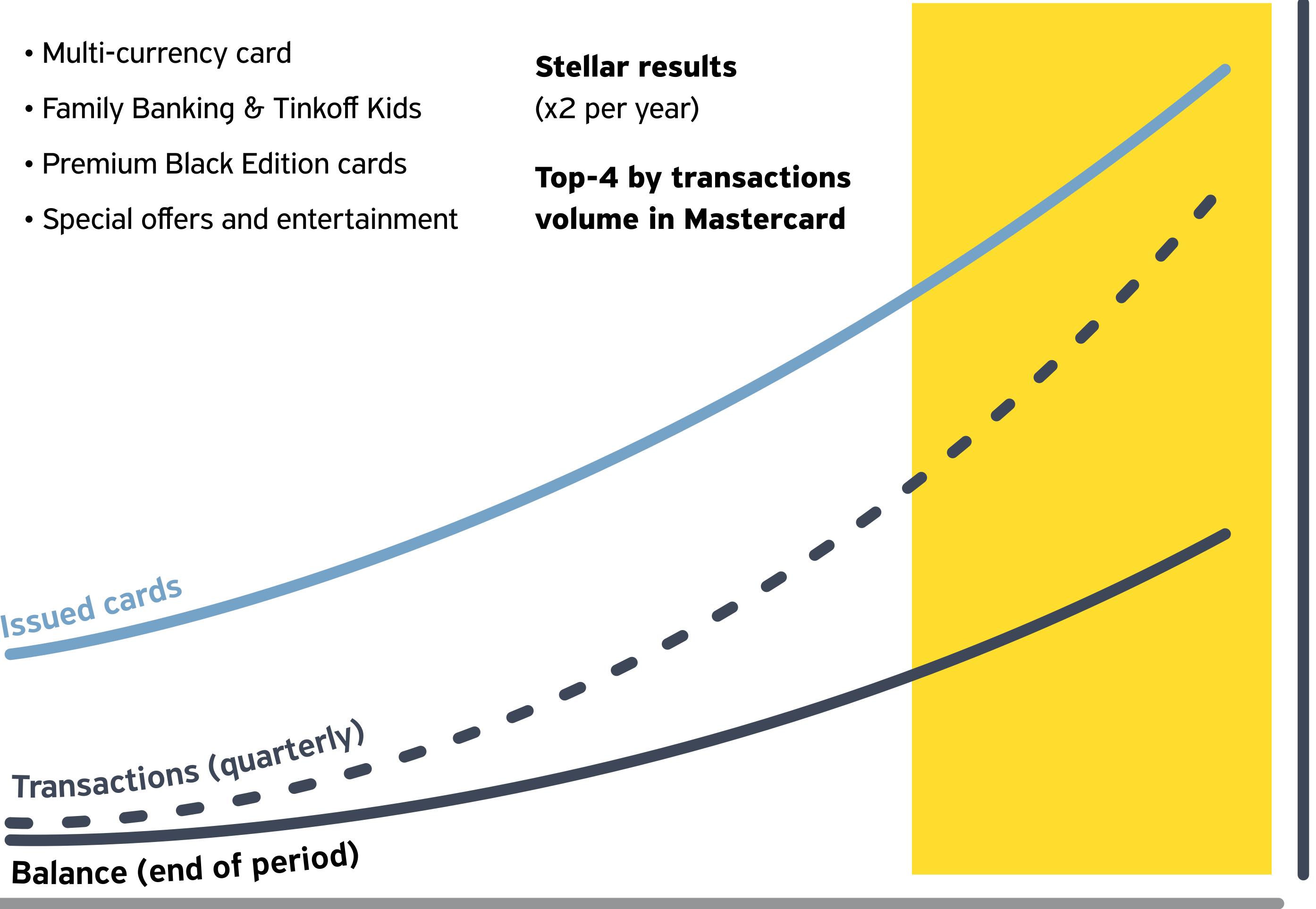








2017



2015

2016





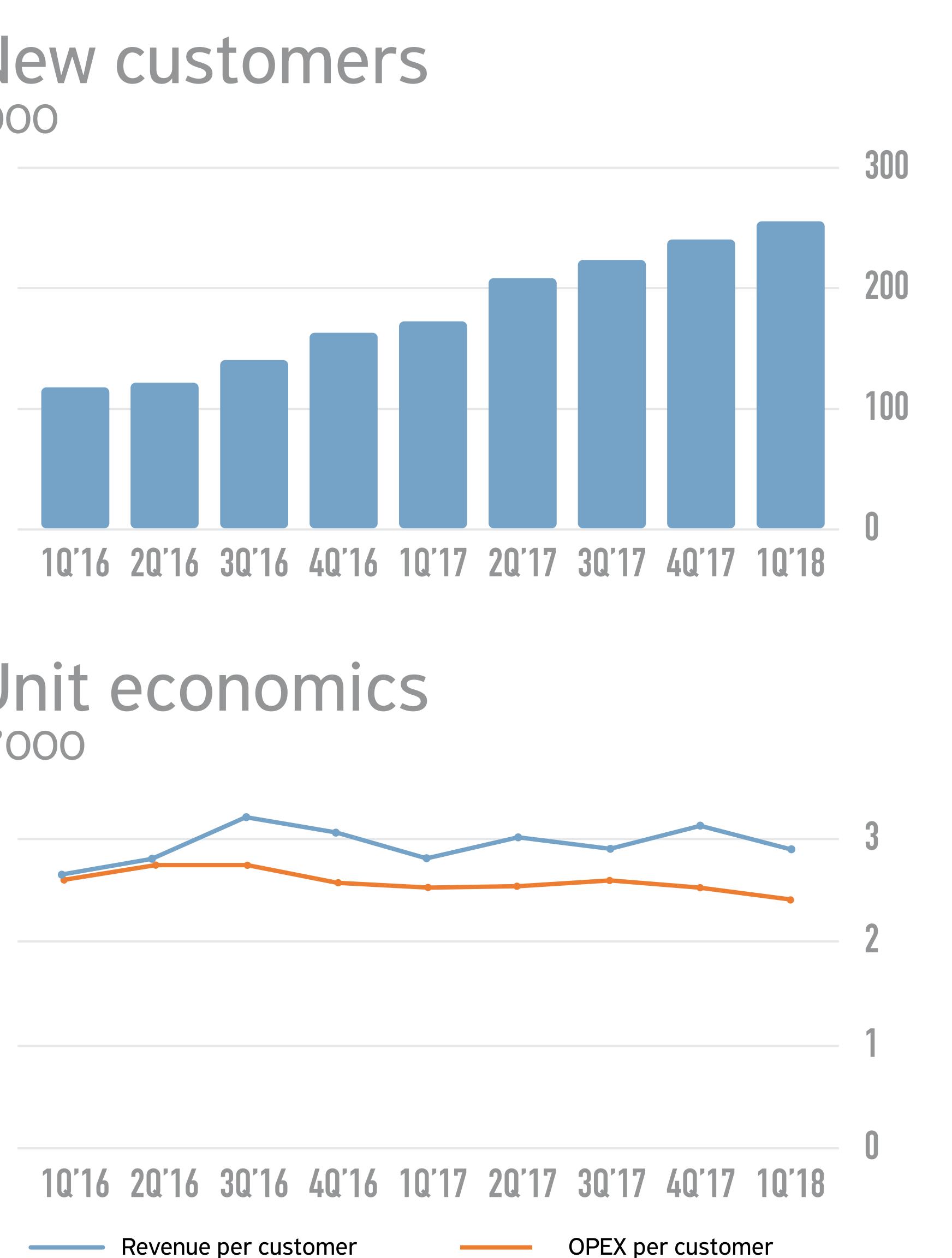






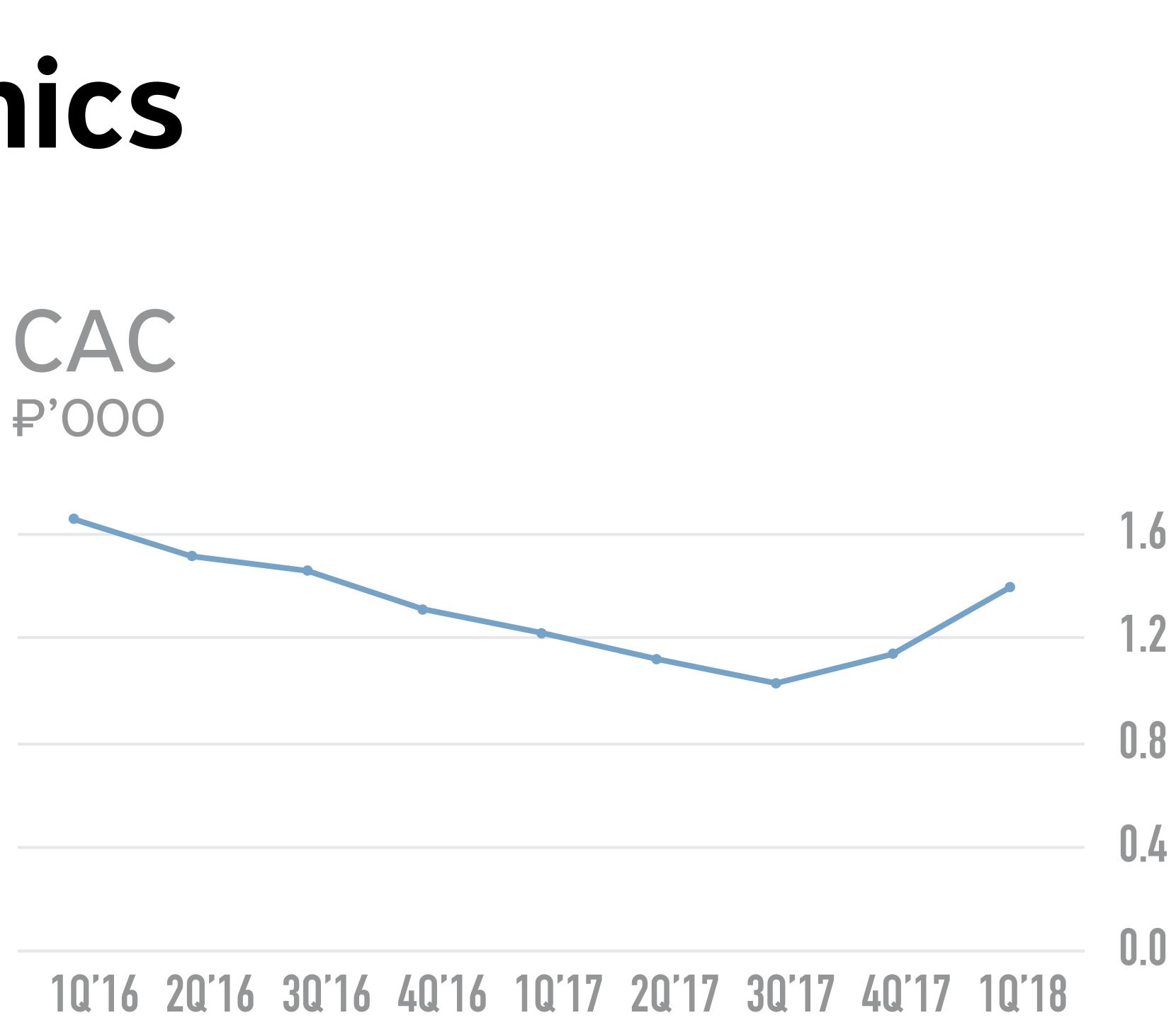
Current accounts economics

New customers **'**000



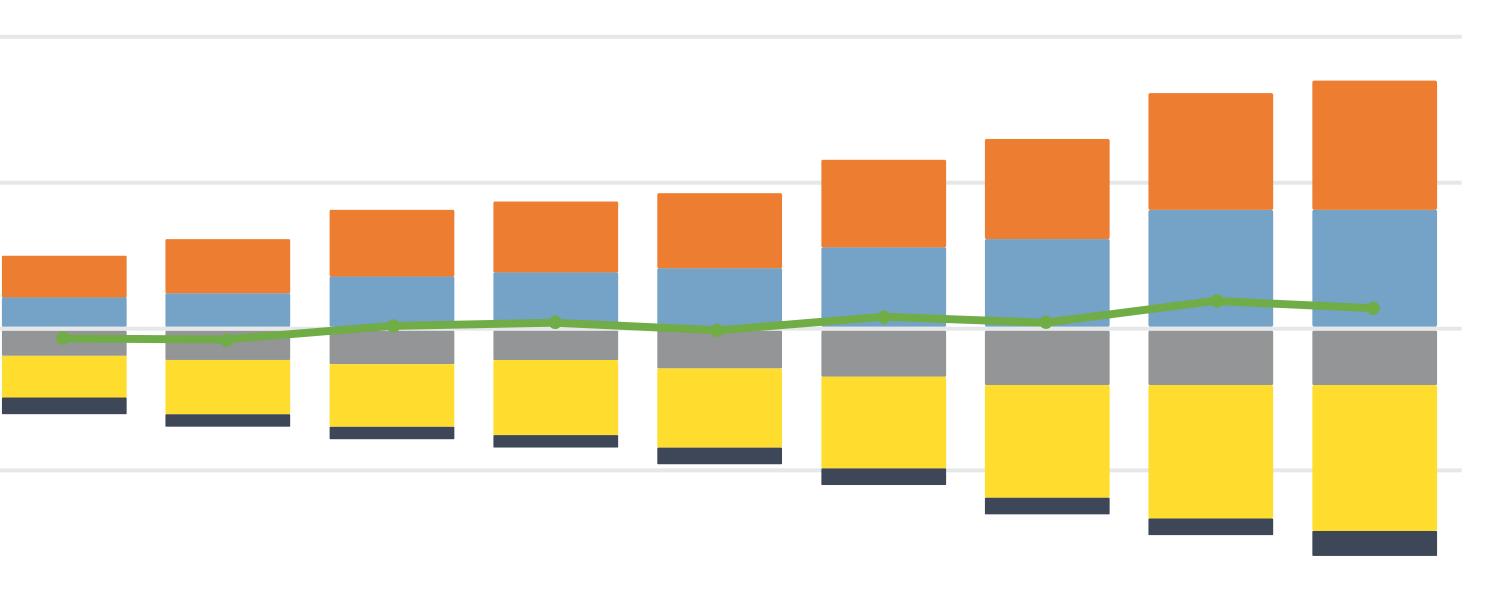
Unit economics ₽'000

Revenue per customer

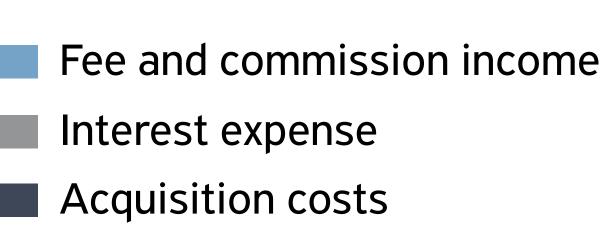


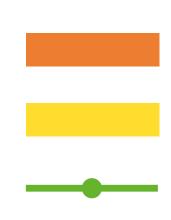
10'16 20'16 30'16 40'16 10'17 20'17 30'17

Business line P&L ₽mn



10'16 20'16 30'16 40'16 10'17 20'17 30'17 40'17 10'18





Interest income Transaction and service costs Operating income

4,000

2,000

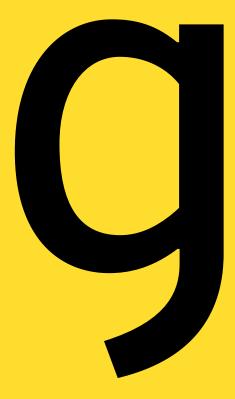
-2,000

-4,000



Lifestyle Banking

Maksim Evdokimov Head of Mobile





Lifestyle Banking

Negative Spending (those you HAVE TO pay, e.g. Taxes, Fines, Utility Bills, Loans, etc.)



There are Only 2 Types of spending:

Positive Spending (those you WANT TO pay, e.g. Restaurants, Leisure, Shopping, Travel, etc.)



Lifestyle Banking Know You Customer:

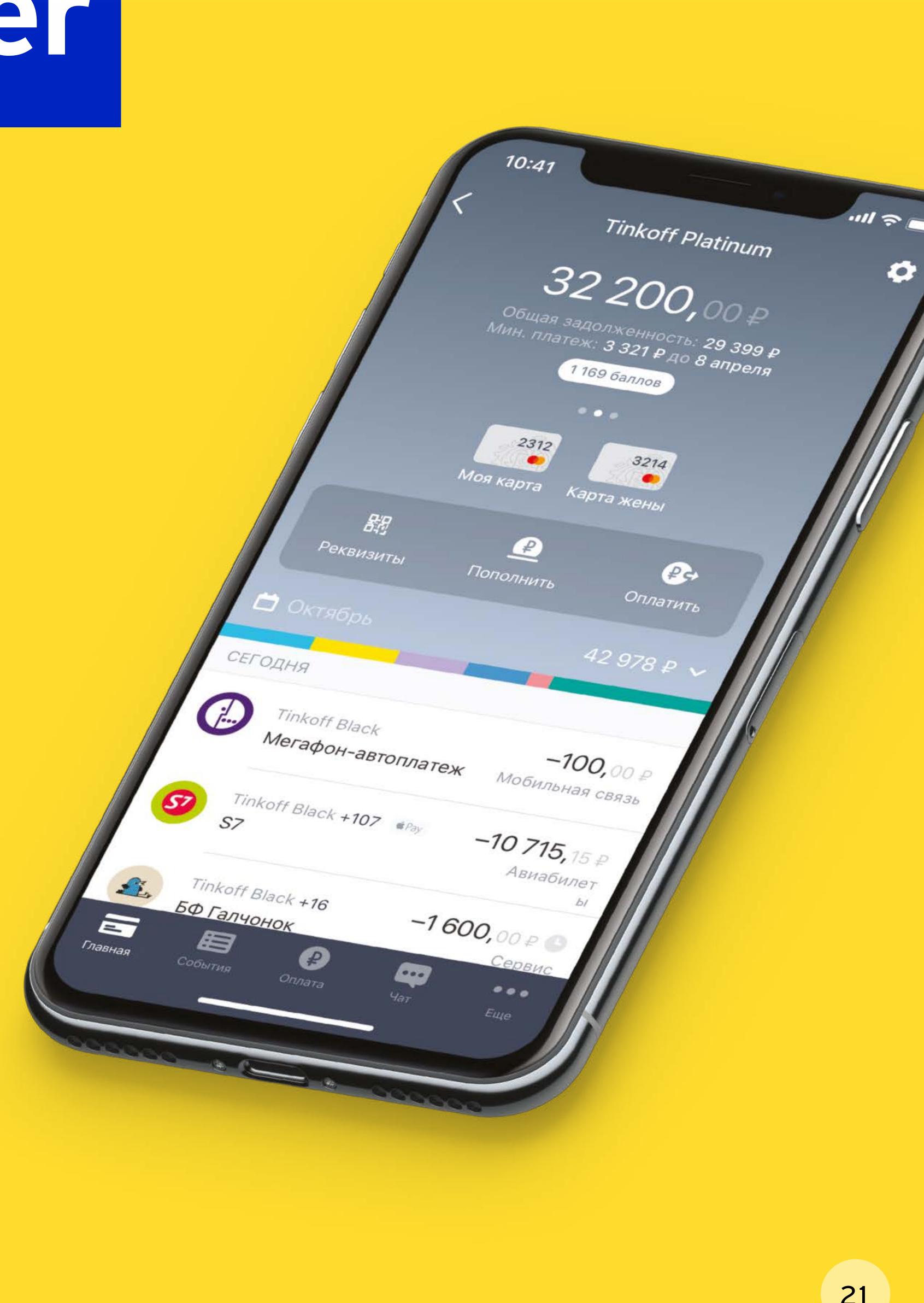
Not (Only) About Regulation

It Is Much More About Targeted Offering



Lifestyle Banking We Know Our Customer

What, When And Where He/She Needs? And We Provide It Within The App



Lifestyle Banking Shopping

тц Метрополис

Ленинградский проспект, 120

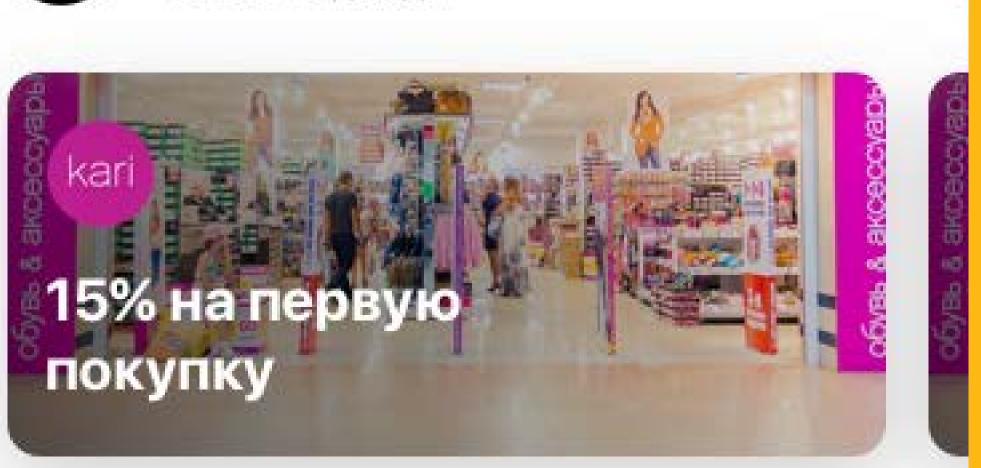
12:00 - 23:00

МЕТРОПОЛИС — это современный торговый центр, на трех этажах которого располагаются более 350 магазинов и ресторанов.





Магазин одежды



Сегодня Каро Фильм



Caption За гранью реальности



Caption Лед

Bce 32



Caption Движение вверх











4,9 из 5



Хороший круглосуточный гипермаркет рядом с домом.

Рестораны в ТЦ



Ресторан Pinch



Ресторан La colline



Ресторан Baccarat



Bce 32

Pec

Self





М.Видео – международная сеть магазинов модной обуви и аксессуаров. В магазинах сеть магазинов очень модной обуви, аксе еще

Отзывы

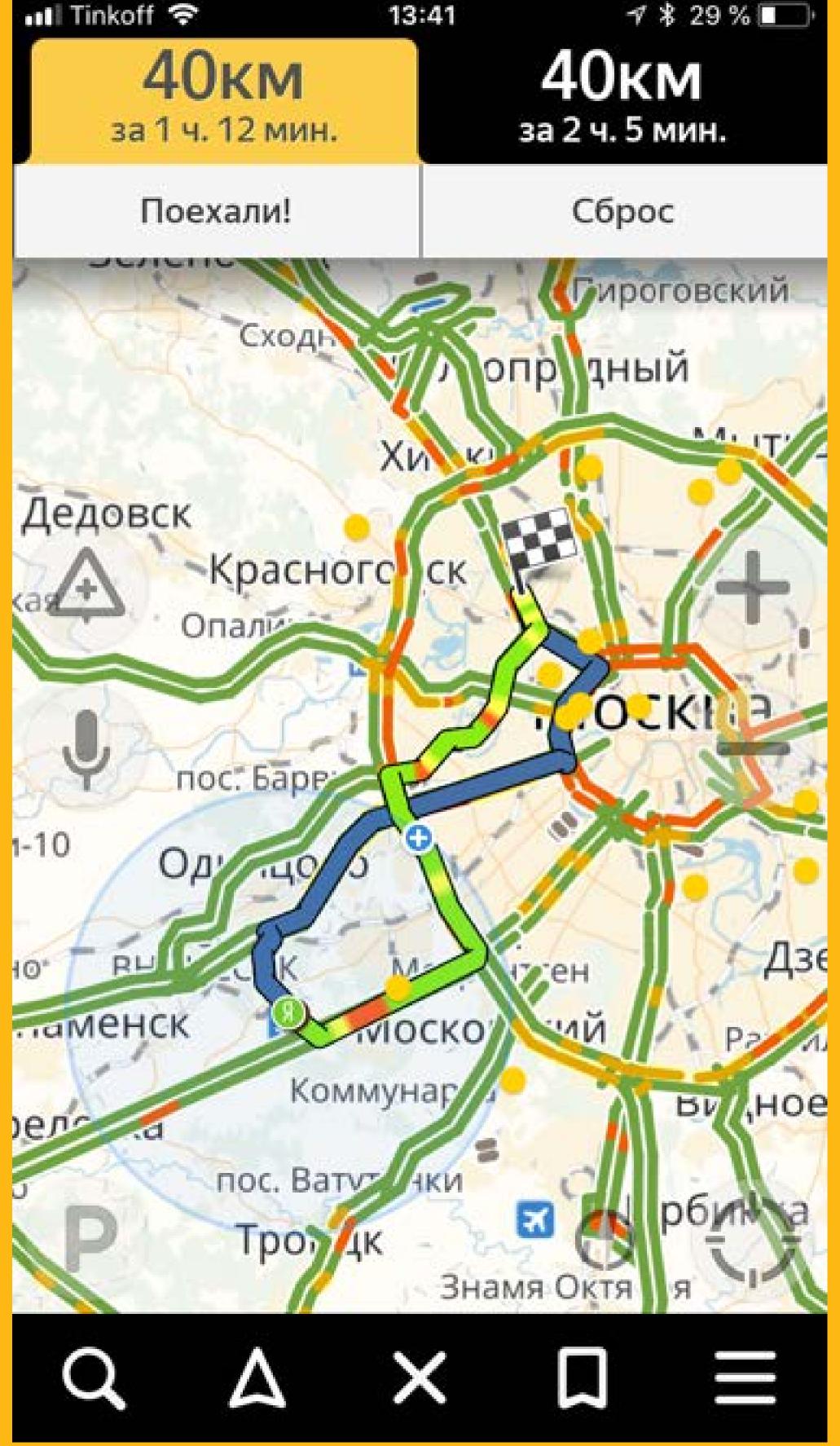
Bce 24

않 않 않 않 않

24 июля

Сергей ****

Написать отзыв



Lifestyle Banking

92 мин 18 +

Конченая Вон Стайн

Неонуар с тяжелейшей судьбой локализованного названия (в оригинале Terminal – «конечная»). Богатая палитра образов Марго Робби, наемные убийцы и ослепляющий неон. На вторых ролях – Саймон Пегг.



1200₽

Количество



Билеты

Купить билет

На первые 5 покупок (осталось 2)

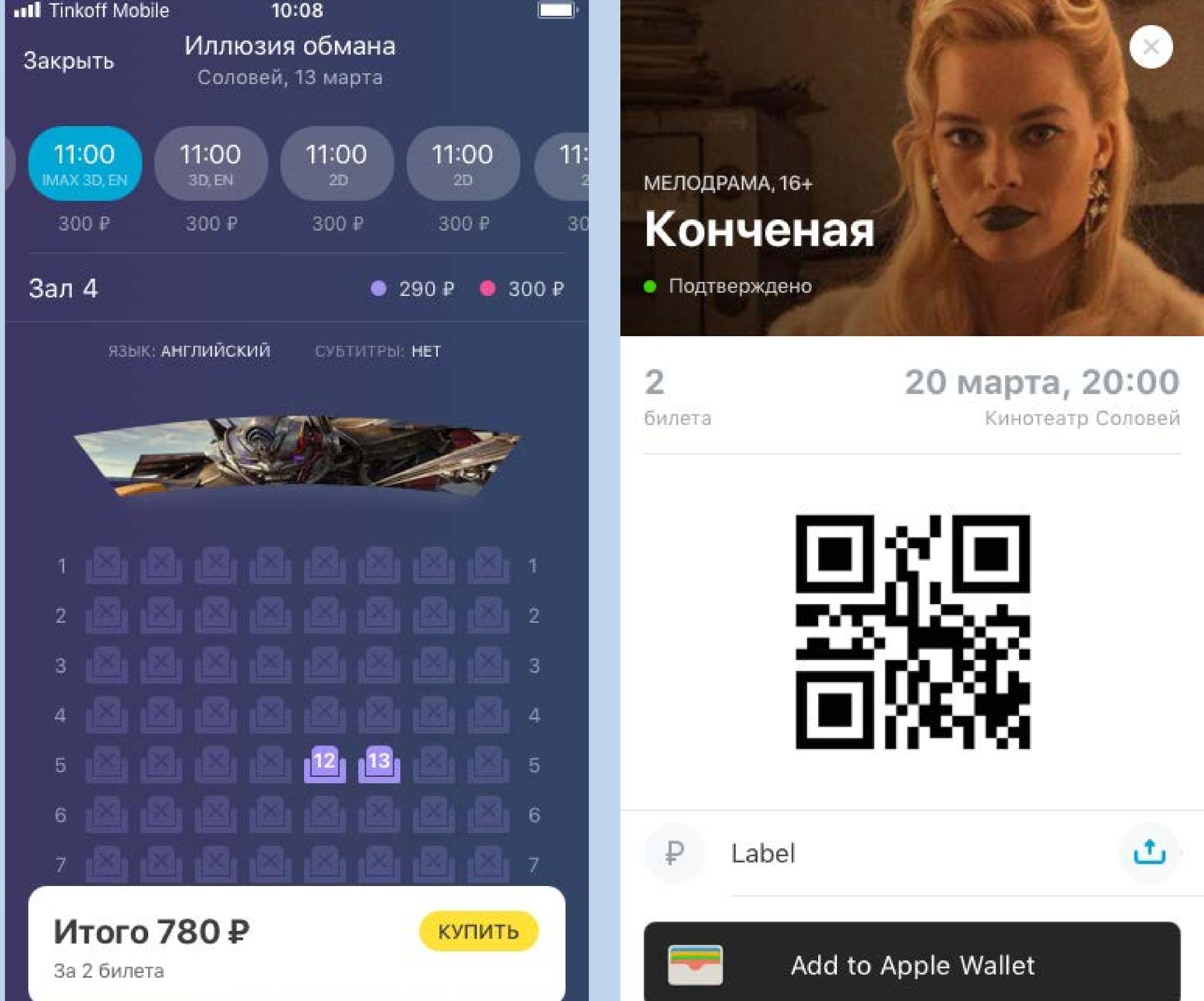
Минимальная сумма покупки

Срок действия 3 – 16 дек (осталось 6 дней)

Срок начисления 7 дней после операции

Информация









Lifestyle Banking Restaurants

Percorso Вознесенский просп., 1

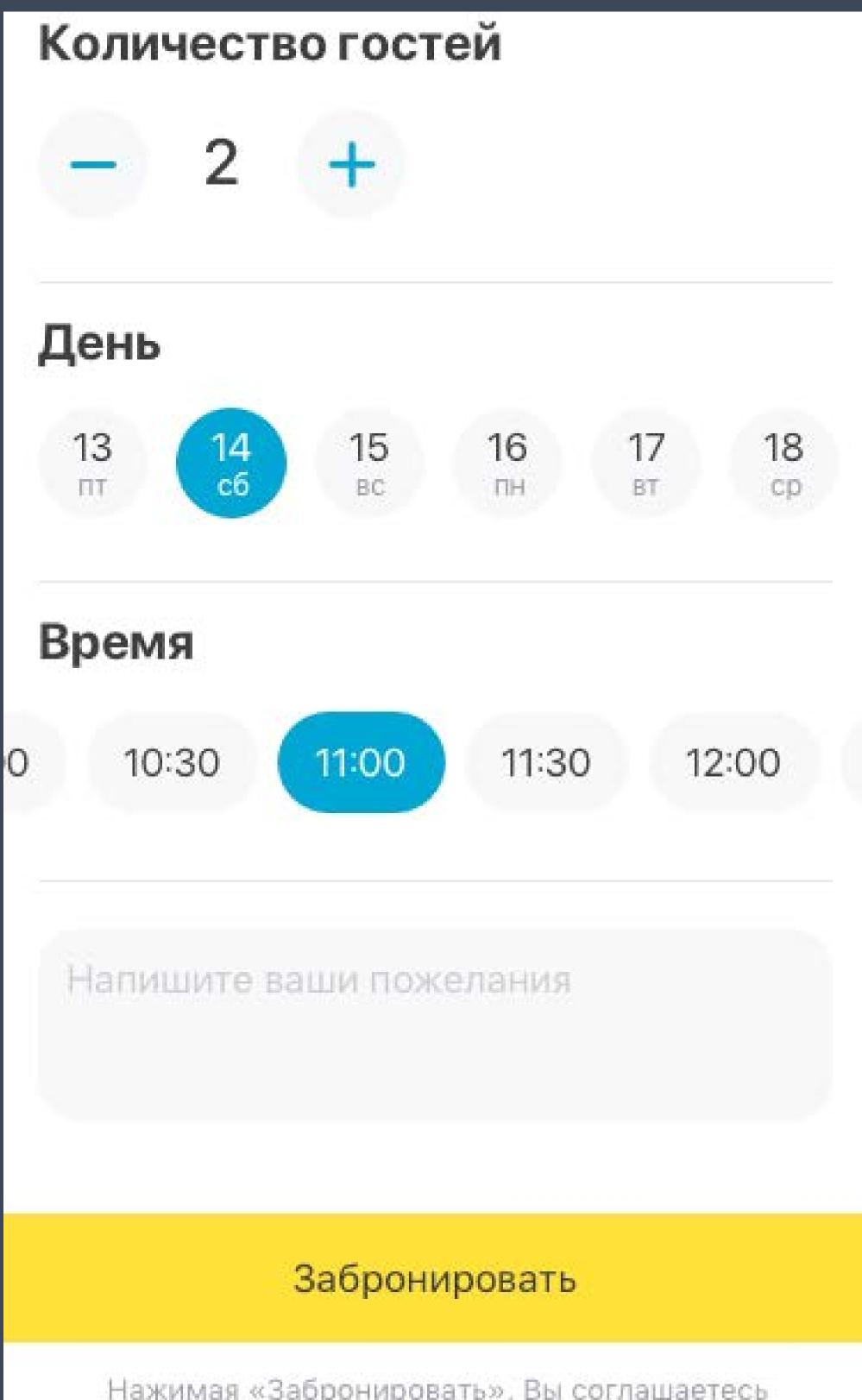
Более 2500 ₽ 13:00 - 0:00

Ресторан высокой итальянской кухни, где современный дизайн создает смелый контраст с традиционной роскошью дворца 19 века. Percorso предлагает редкое сочетание региональных рецептов и свежих фермерских продуктов.

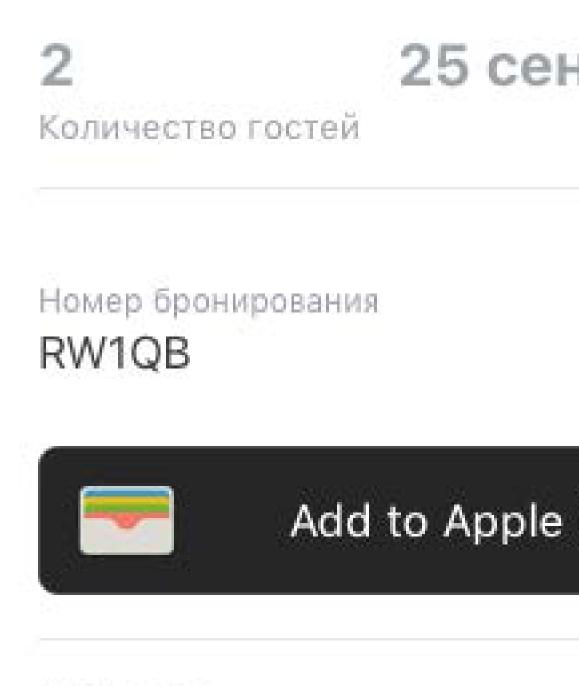
Забронировать

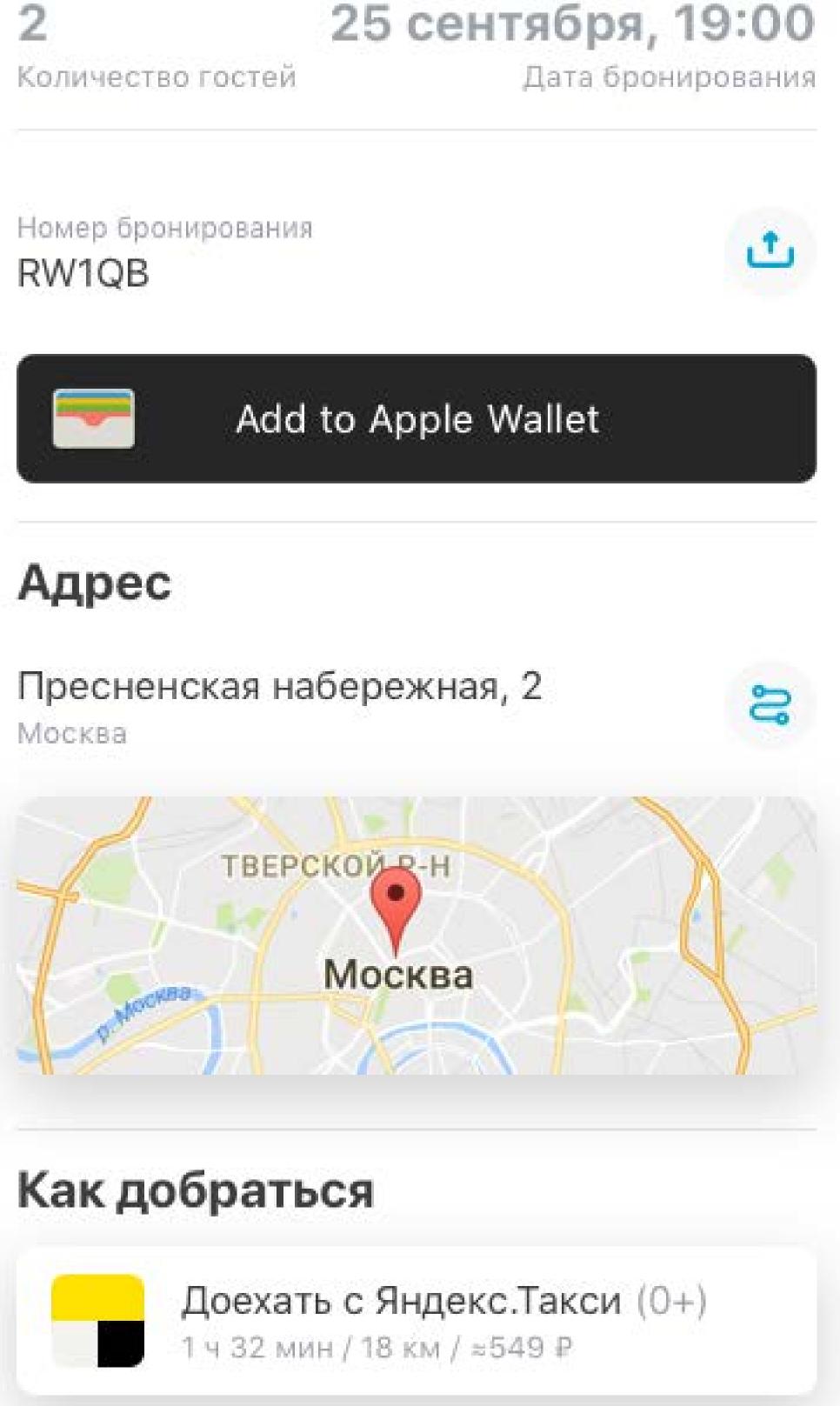






Нажимая «Забронировать», Вы соглашаетесь с условиями оферты









Lifestyle Banking Tinkoff Stories

Зимний дворец

Зимний дворец, построенный Растрелли в середине XVIII века, самое узнаваемое здание в городе. Сейчас здесь находится «Эрмитаж», а раньше дворец использовался как зимняя резиденция российских императоров - здесь жили все от Екатерины Великой до Николая II.



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кр	ыти	я вк	лад	ar				1	где	в я (
9	0	Как	ая						0	1
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- 10	73.			Ka	н	то Г	Ш	ака		
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В подсказках увидите варианты частых обращений. Выбирайте похожее на ваш вопрос.

И сэкономить время, деньги и нервы

Как получить ипотеку



источник агентство «Москва»

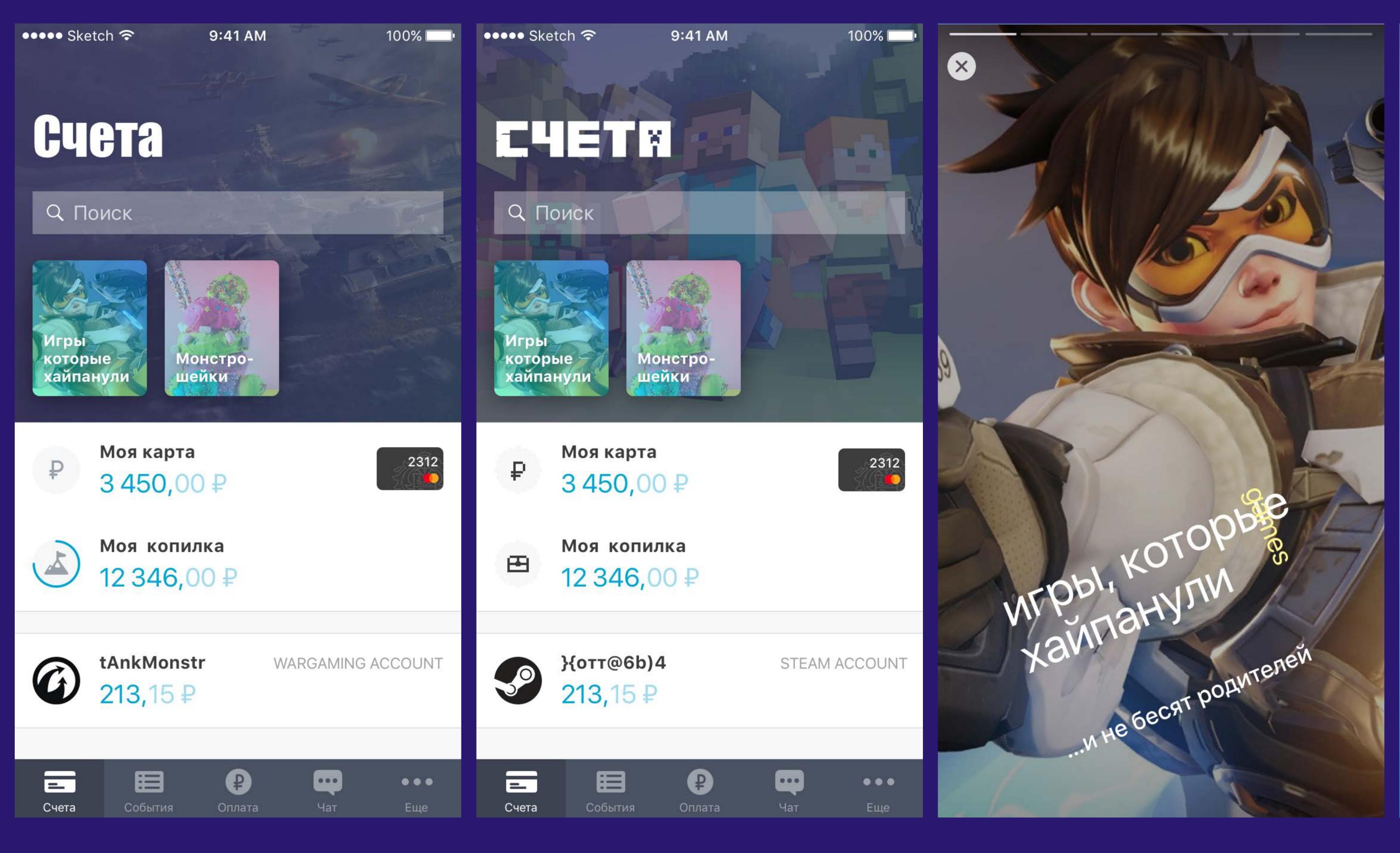
В эту сумму входит банкетное меню, развлекательная программа и оборудование.

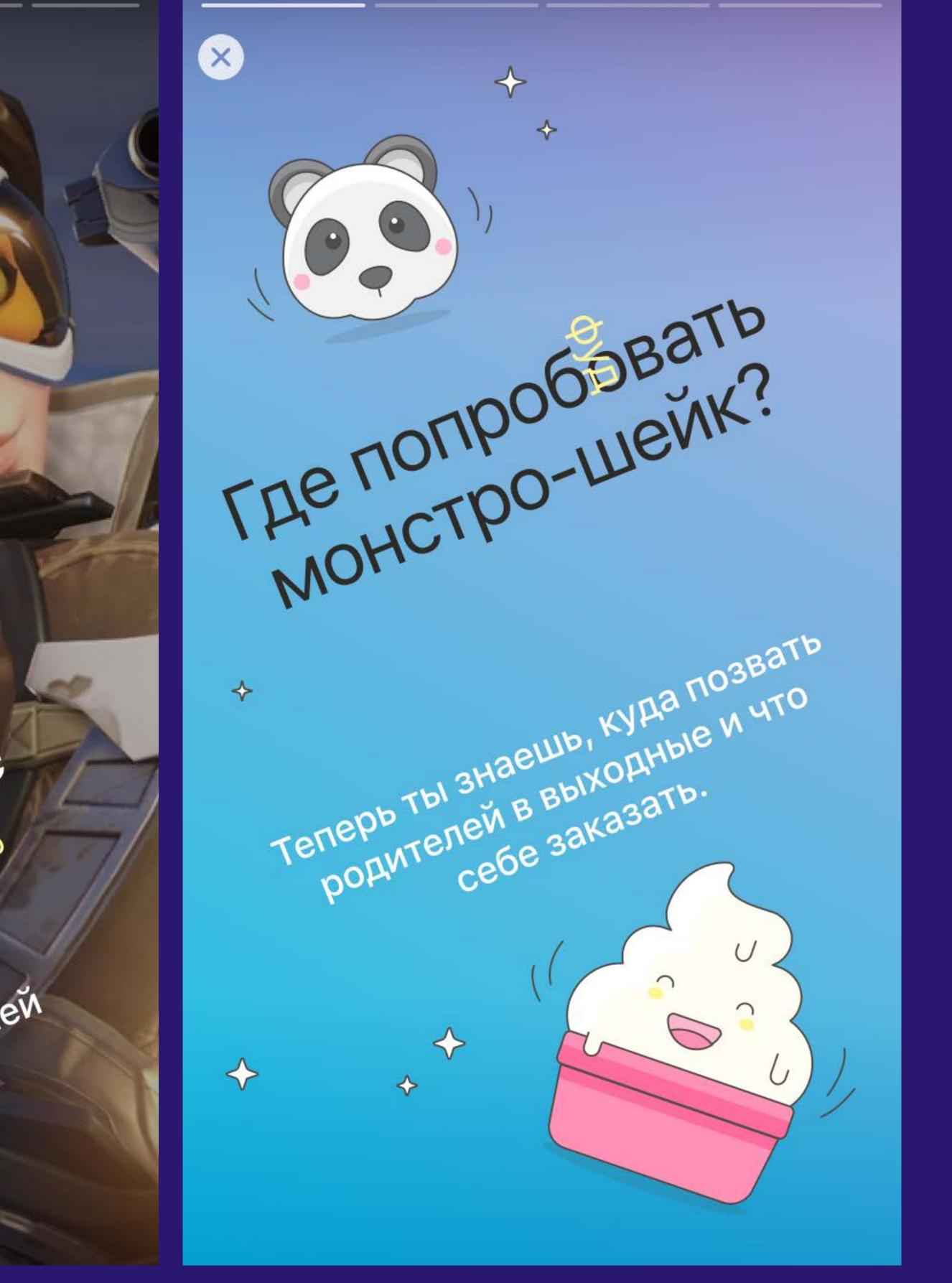
в среднем потратят родители московских одиннадцатиклассников на выпускной

27 000 P



Lifestyle Banking Tinkoff Kids







Lifestyle Banking Tinkoff Journal

Editorial Team with 100+ writers&analysts in the Cloud



• 3+ million MAU





2,5+ million MAU (1,7 million EOY2017)

• 30+ million sessions per month

(18 million sessions EOY2017)

8 million Installs (6,5 million EOY2017)

• 0,8+ million DAU (0,5 million EOY 2017)

2,5+ mins session length (1,5 mins session length EOY2017)









Operating efficiency

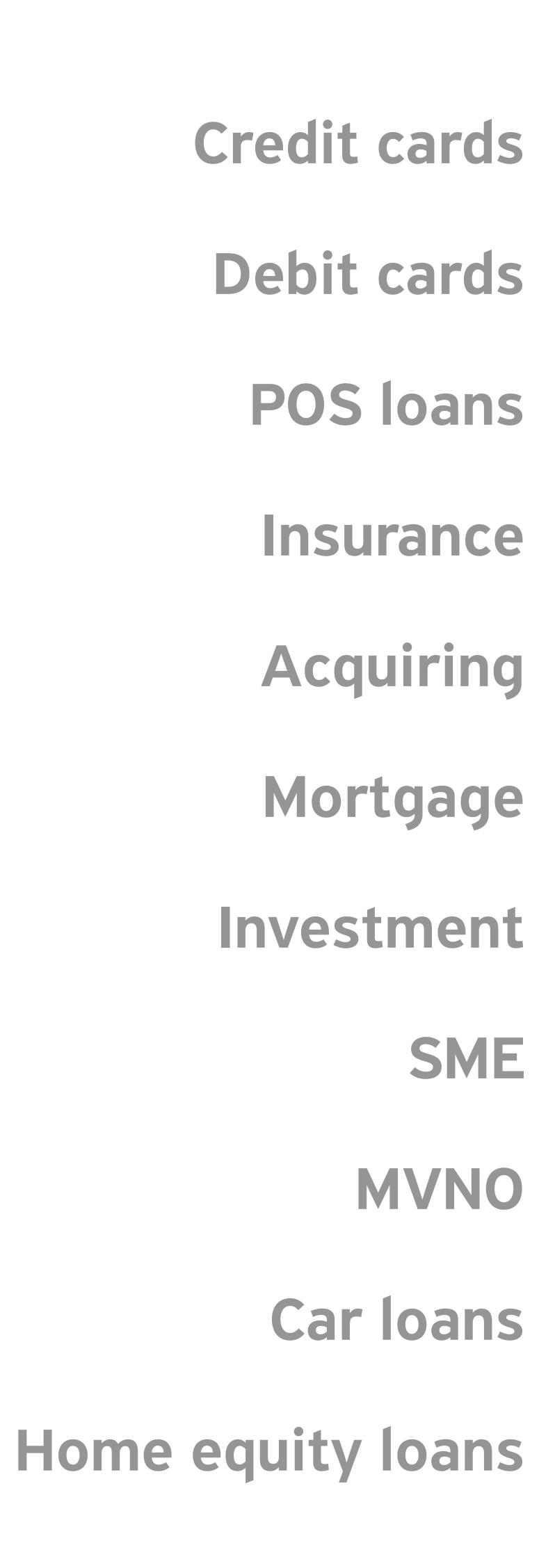
Stanislav Bliznyuk **Chief Operating Officer**





How Tinkoff.ru works

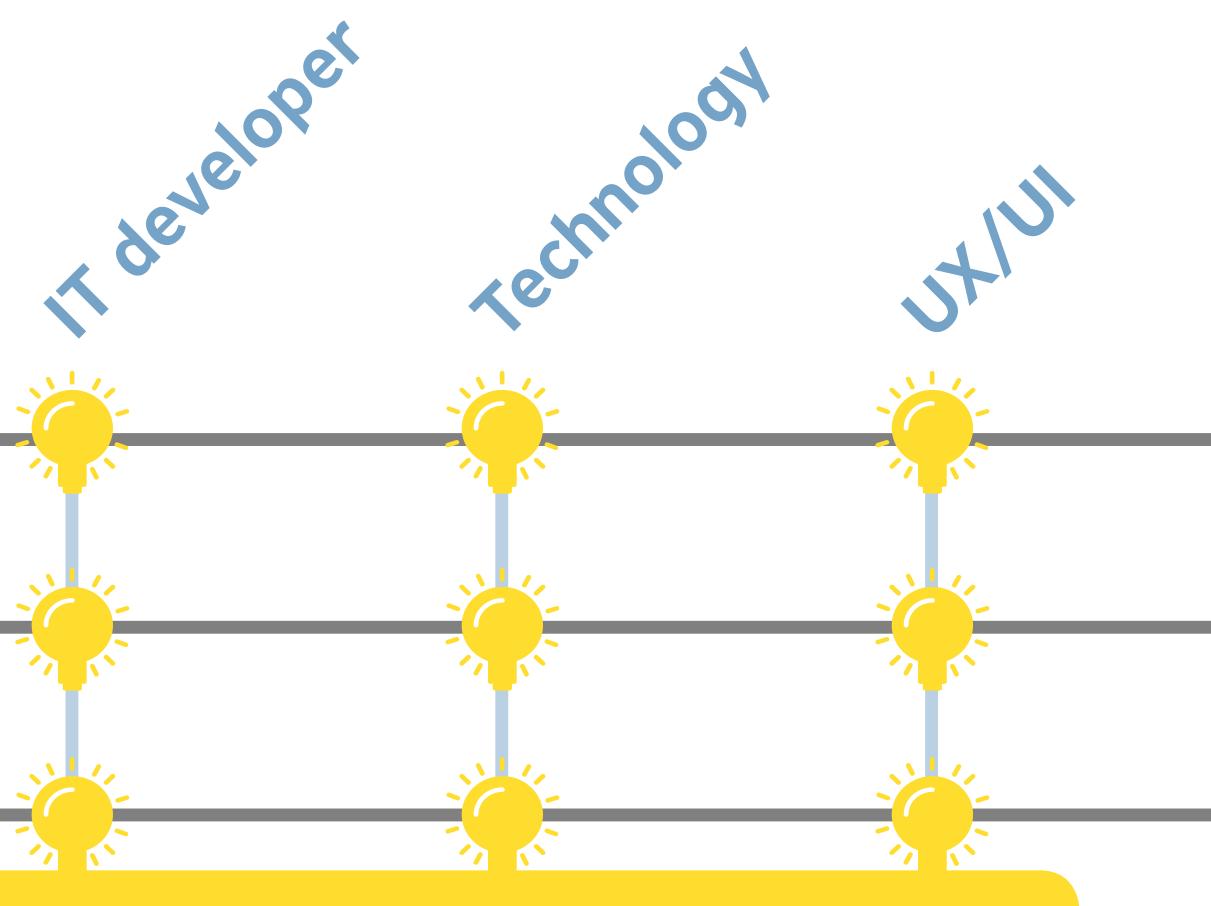
sales

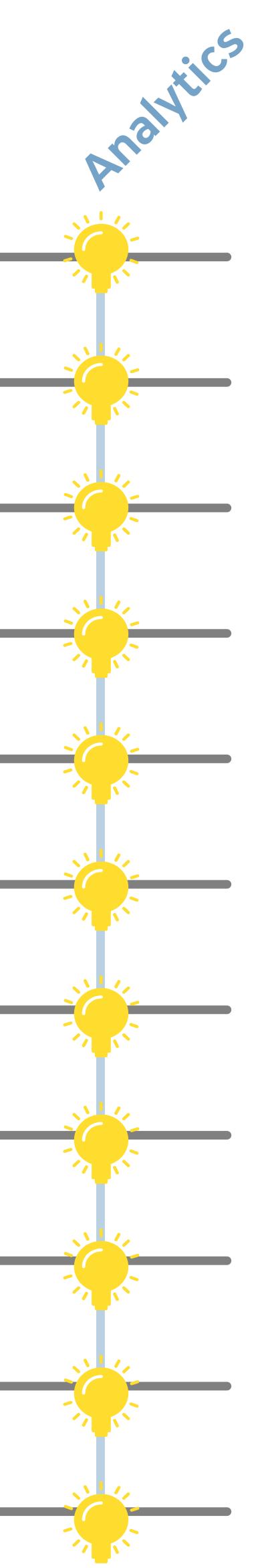


Quick "Time to Market" • Efficient & Flexible operations Scalability

Ecosystem approach

service





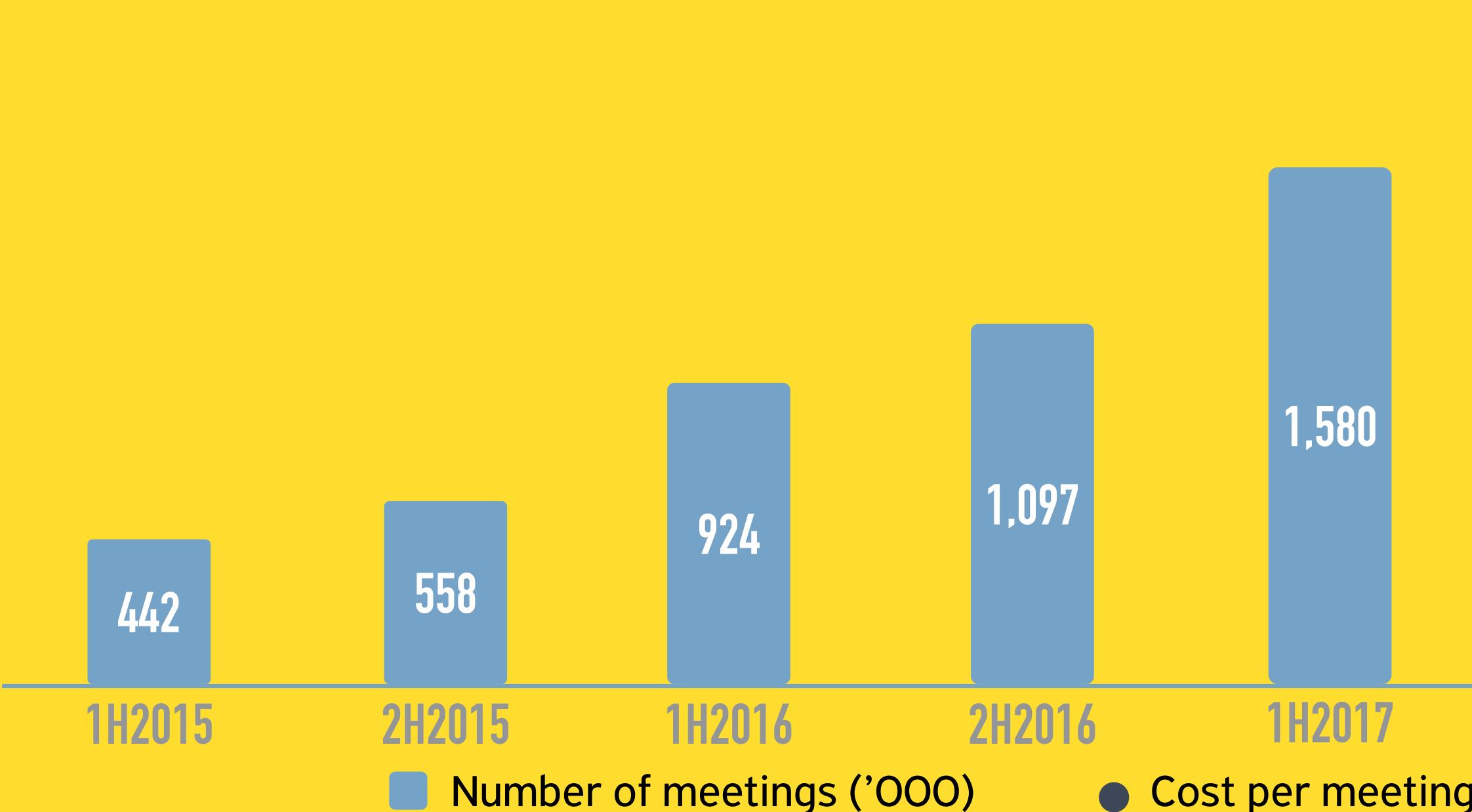
Off-line fullfilment: Smart courier today

Everywhere

•93% of Russia

•2,147 cities and towns





Everyday

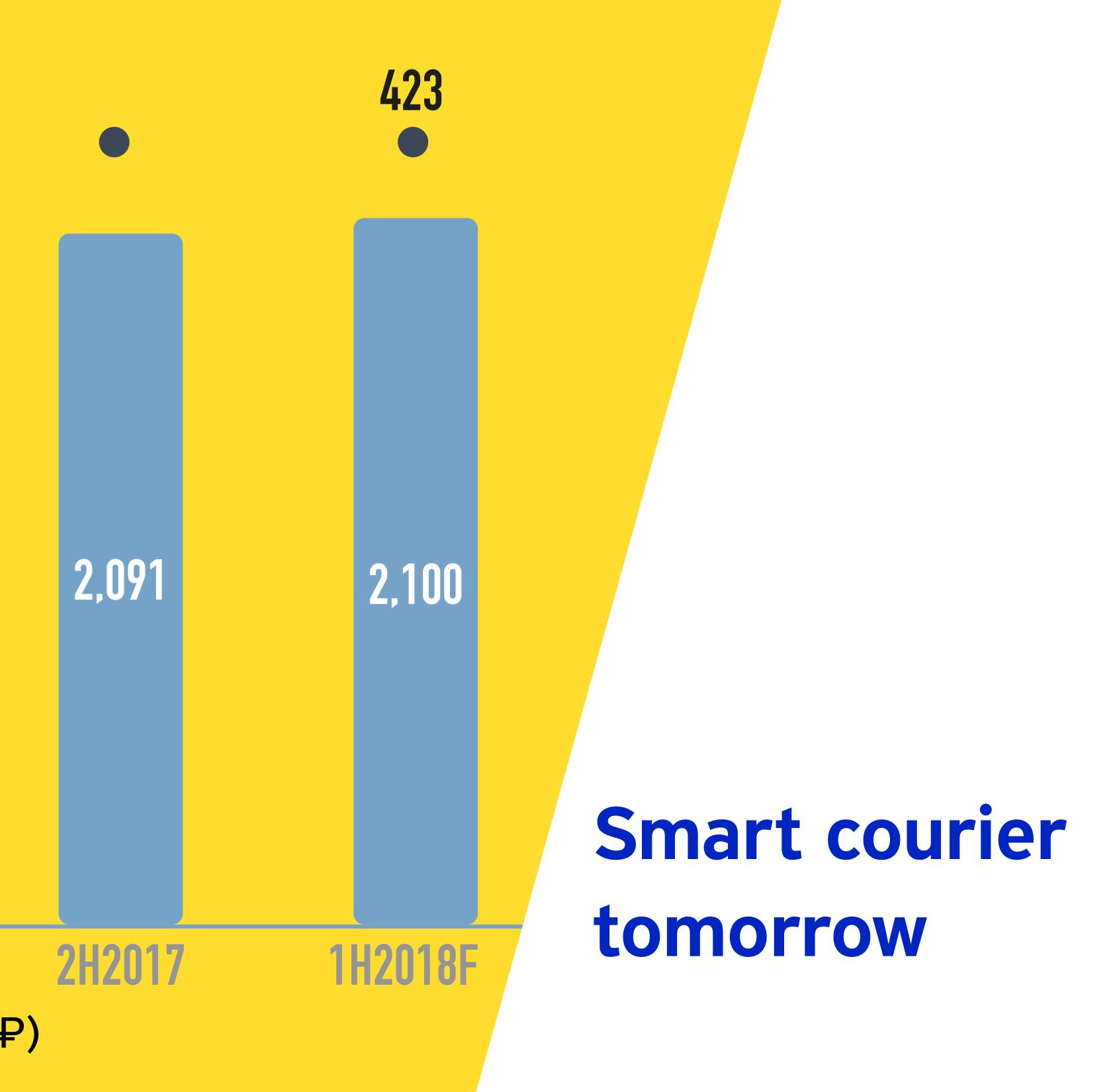
•20,000 meetings per day •All Tinkoff products

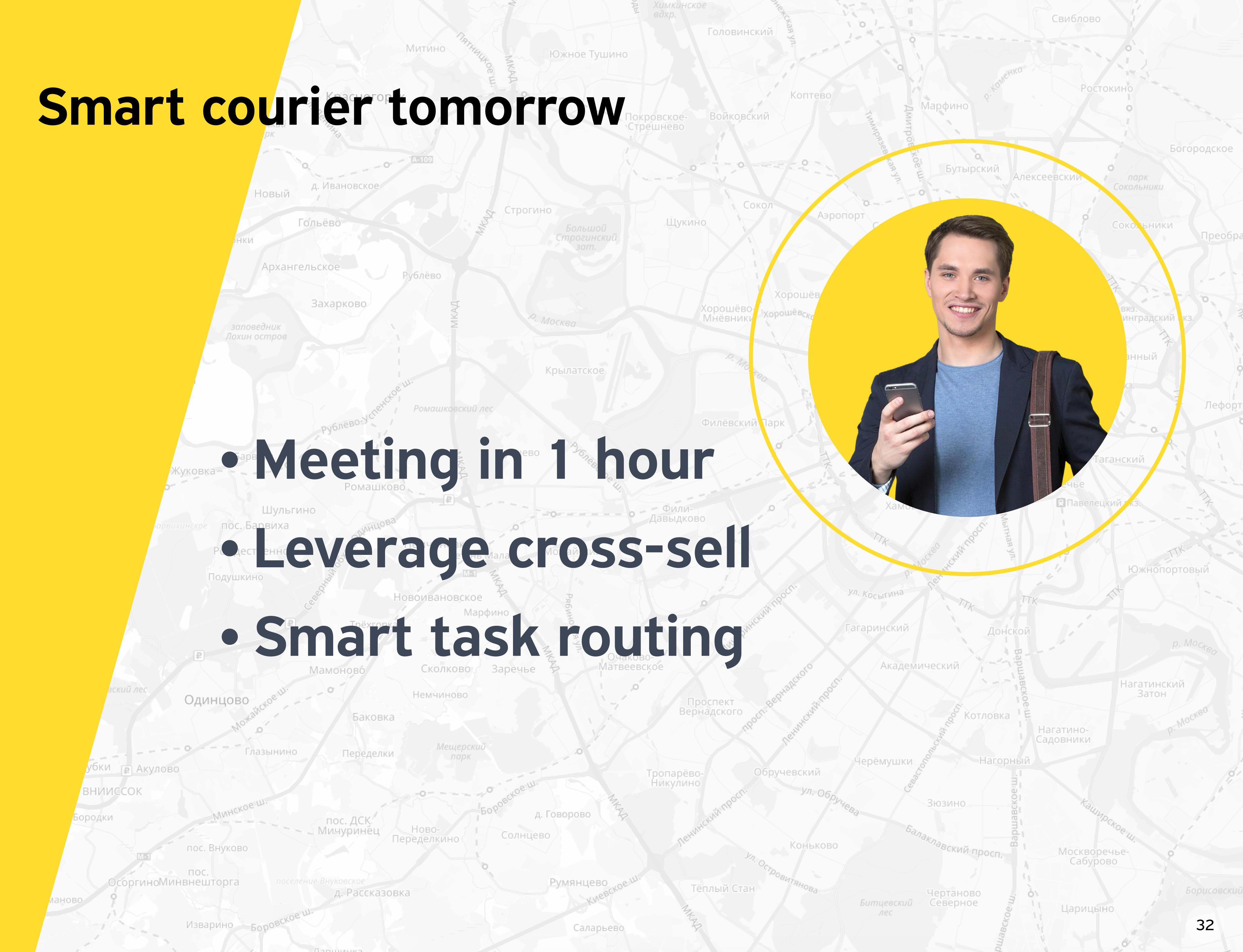
Over 70% next-day Over 50 delivery meetings

Cost per meeting (₽)

Everything

scenarios





Лапшинка

Telesales and service in the Cloud

Scalability 14,000 operators 500k activities per day

Social responsibility 2,000 disabled or on maternity leave Tinkoff Corporate University

Motivation Pay-as-you-go Career growth opportunities

Efficiency

No capex 77% of all activities ₽3bn savings in 2017

Evolution (or Revolution?...)

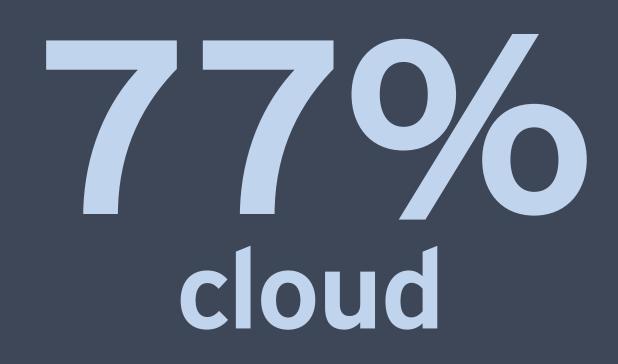
SUPER YESTERDAY

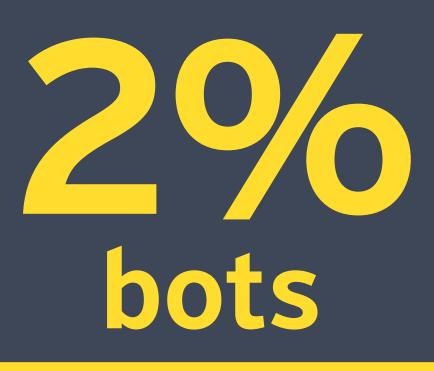




MEGA TODAY







AWESOME TOMORROW **tice**

cloud

50% bots







Tinkoff Bots

Scan

chat









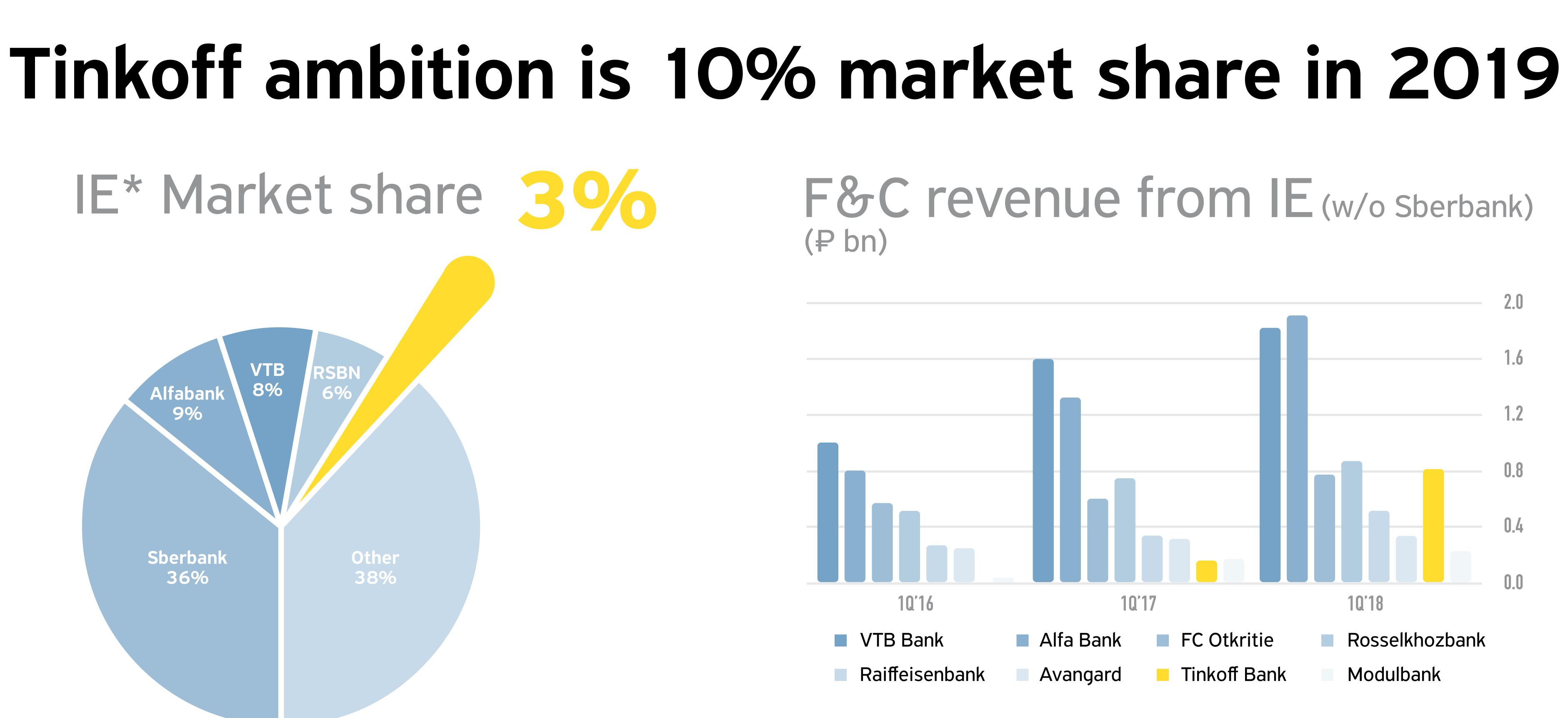


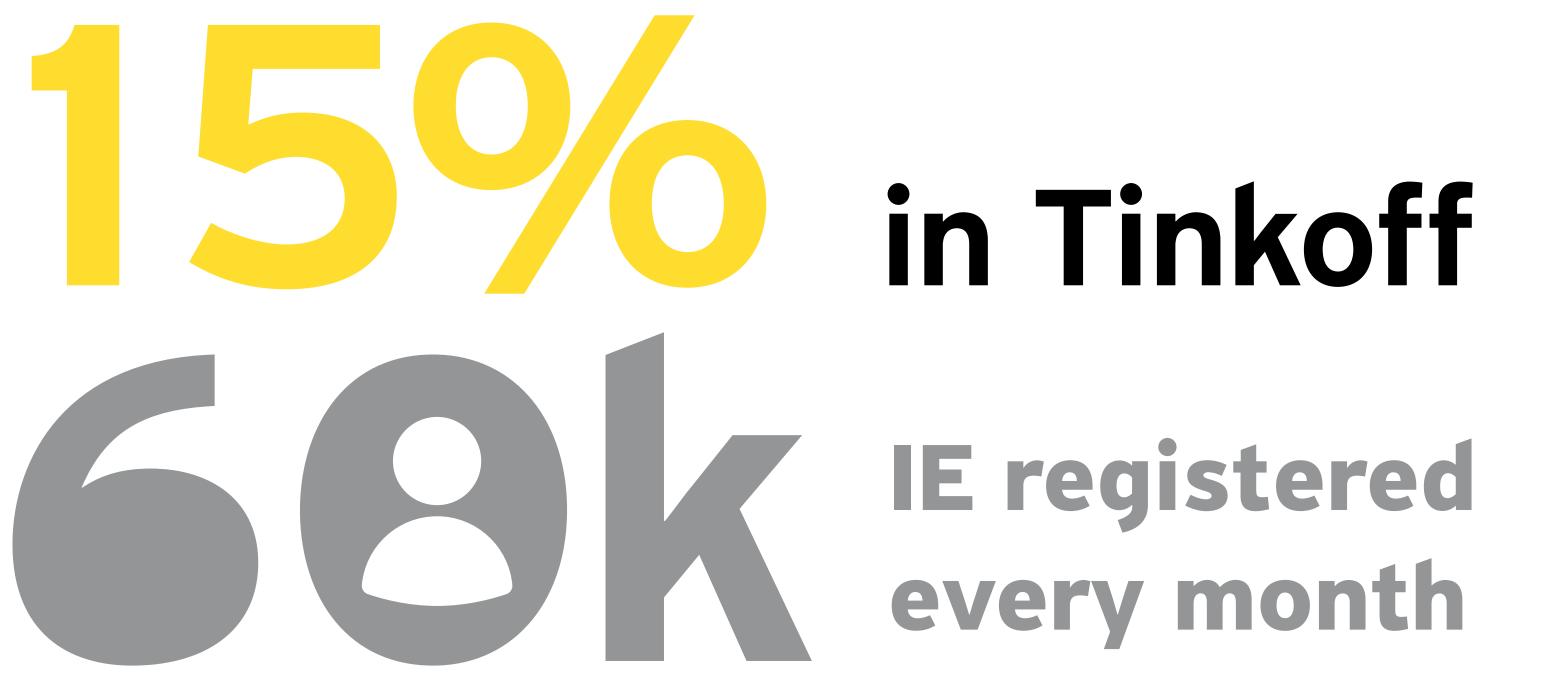
Stanislav Bliznyuk Chief Operating Officer









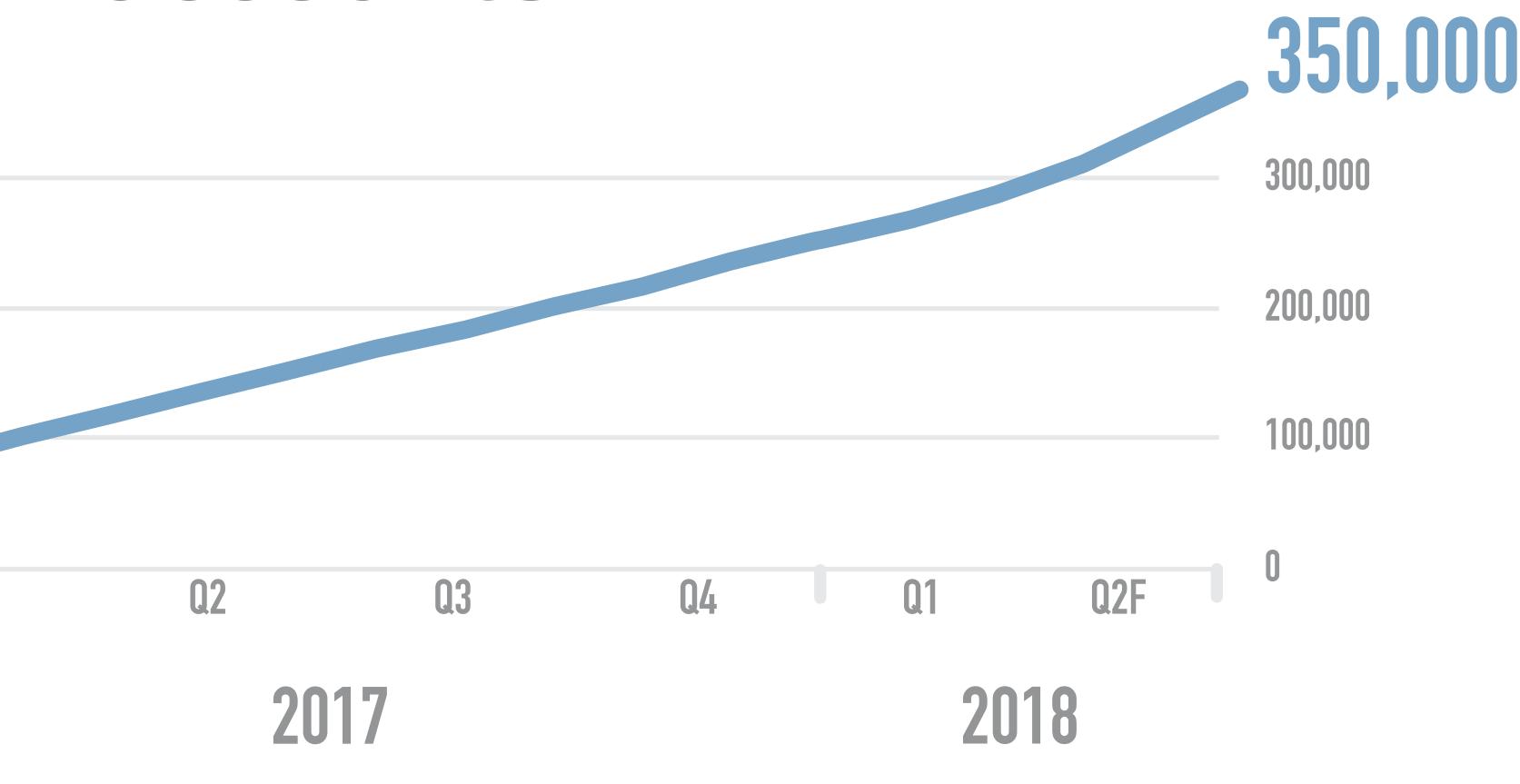


* IE means Individual Entrepreneurs Source: the CBR

in Tinkoff

Q1

Open accounts



2.0
1.6
1.2
0.8
0.4
0.0

Rosselkhozbank

Unique product proposition drives high NPS

- Personal manager
- Fast payments with a long business day
- Best-in-class Mobile bank and Internet bank
- Business account for free in **5** minutes
- Attractive tariff plans
- Up to 6% on current account balances





- ATMs

Lending

- Overdrafts
- Short- and long term loans
- Bank guarantees
- SME-loan brokerage

Cash Management & Payments

Internet and POS acquiring

Payroll programmes

Tax and Currency Control

Cash-in and cash collection

Accounting and State Authorities

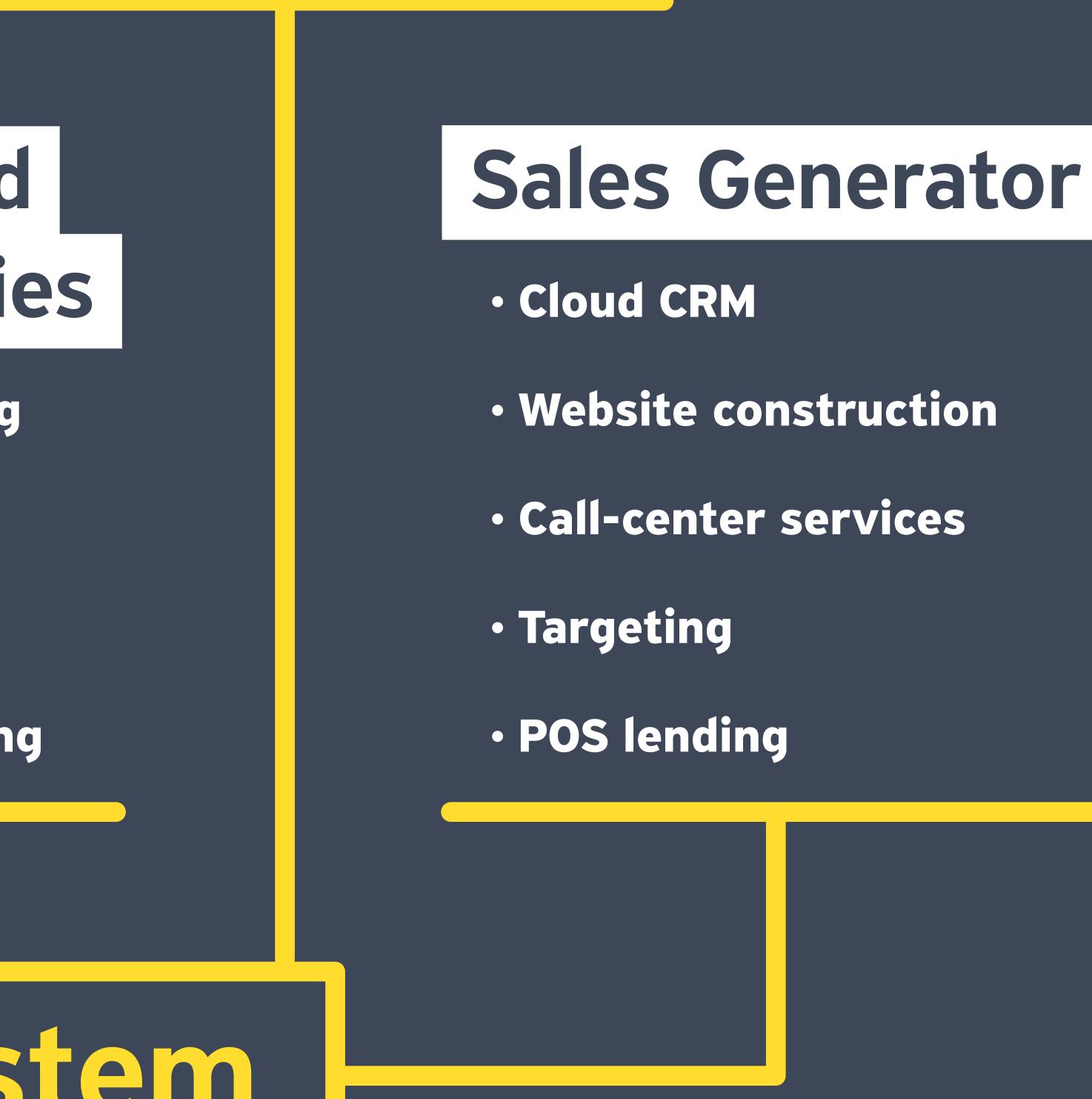
Self-service accounting

- Cloud accounting
- Qualified e-signature
- Legal and tax consulting

SME ecosystem

Start-up your business with Tinkoff

- Registration of new entities
- University of entrepreneur
- HR agency



Product penetration



Accounting 42% POS acquiring 4% Pavrol 5% Tinkoff Black 88%

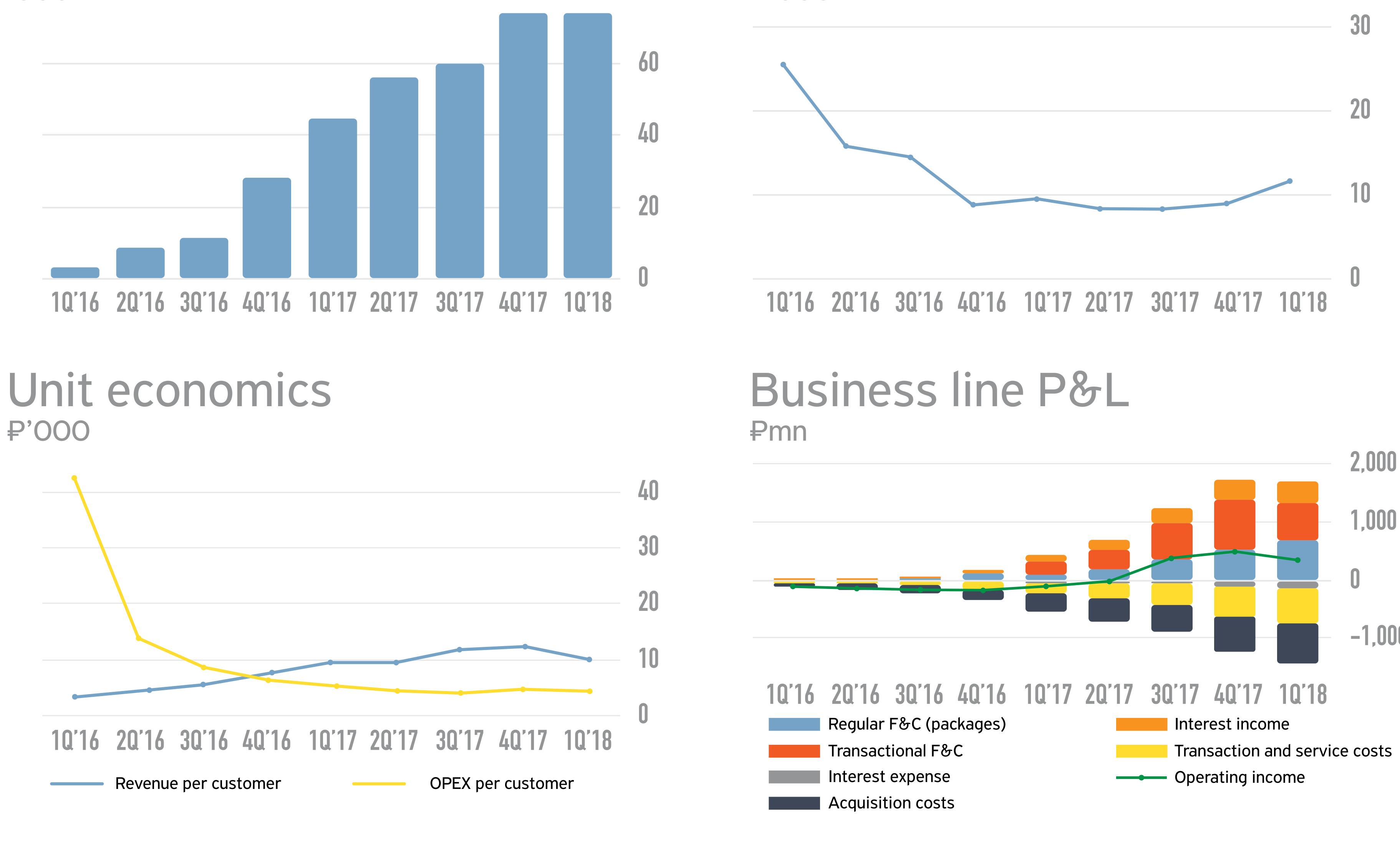
AND MORE...

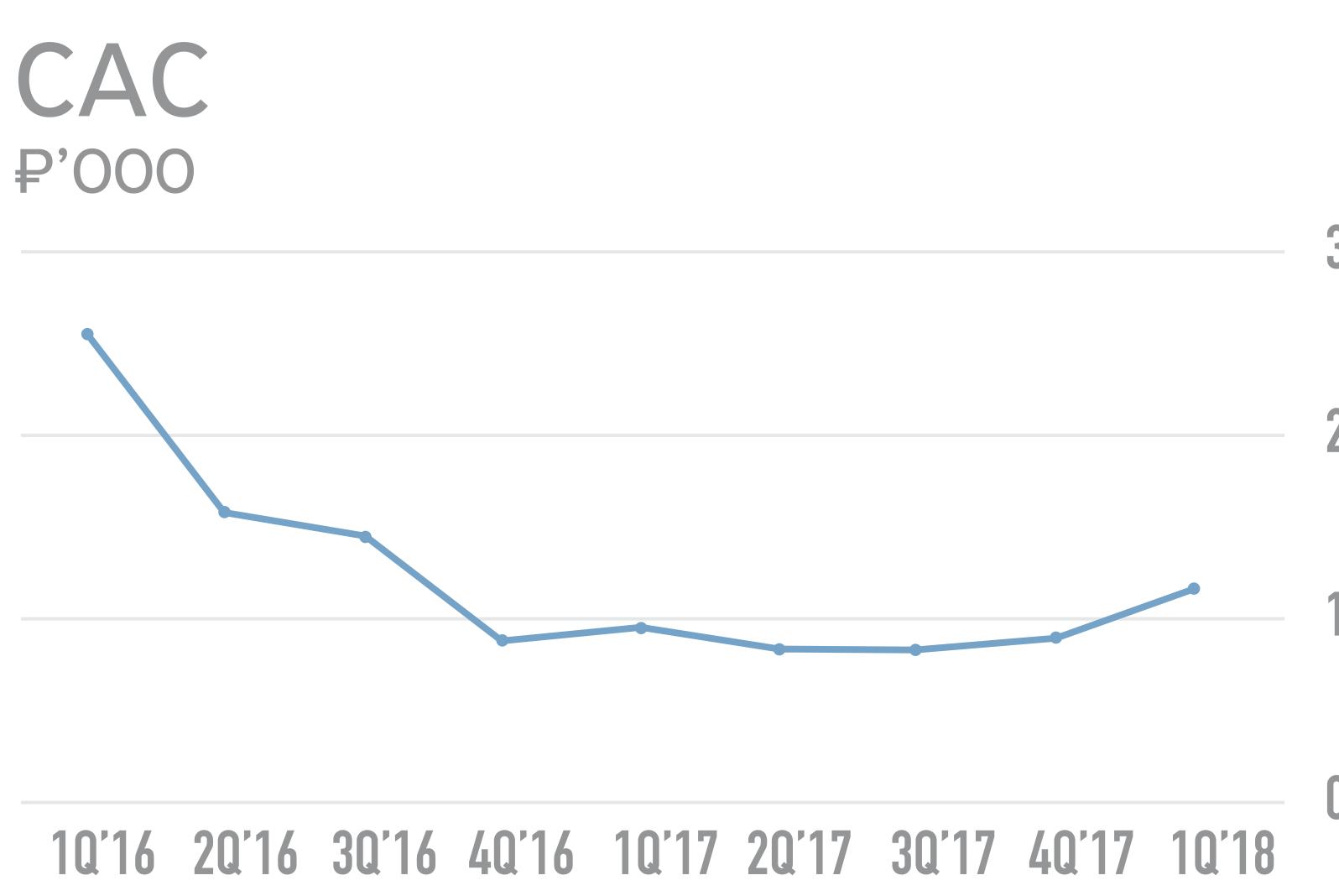




SME economics

New customers **'**000





- -1,000









Alexander Emeshev **Director for New Product Development**





Russian Quicken Loans + MoneySuperMarket

Unique business model

- The only fully on-line mortgage marketplace
- Al mortgage advisory engine
- 70% staff by demand



- - 24/7 service
 - 24/7 processing
 - On-line cover for off-line banks
 - All counterparties in one place
 - Free rates monitoring
 - Uber for insurance, appraisals, legal

Exceptional client experience

2 min on-line preapprovals

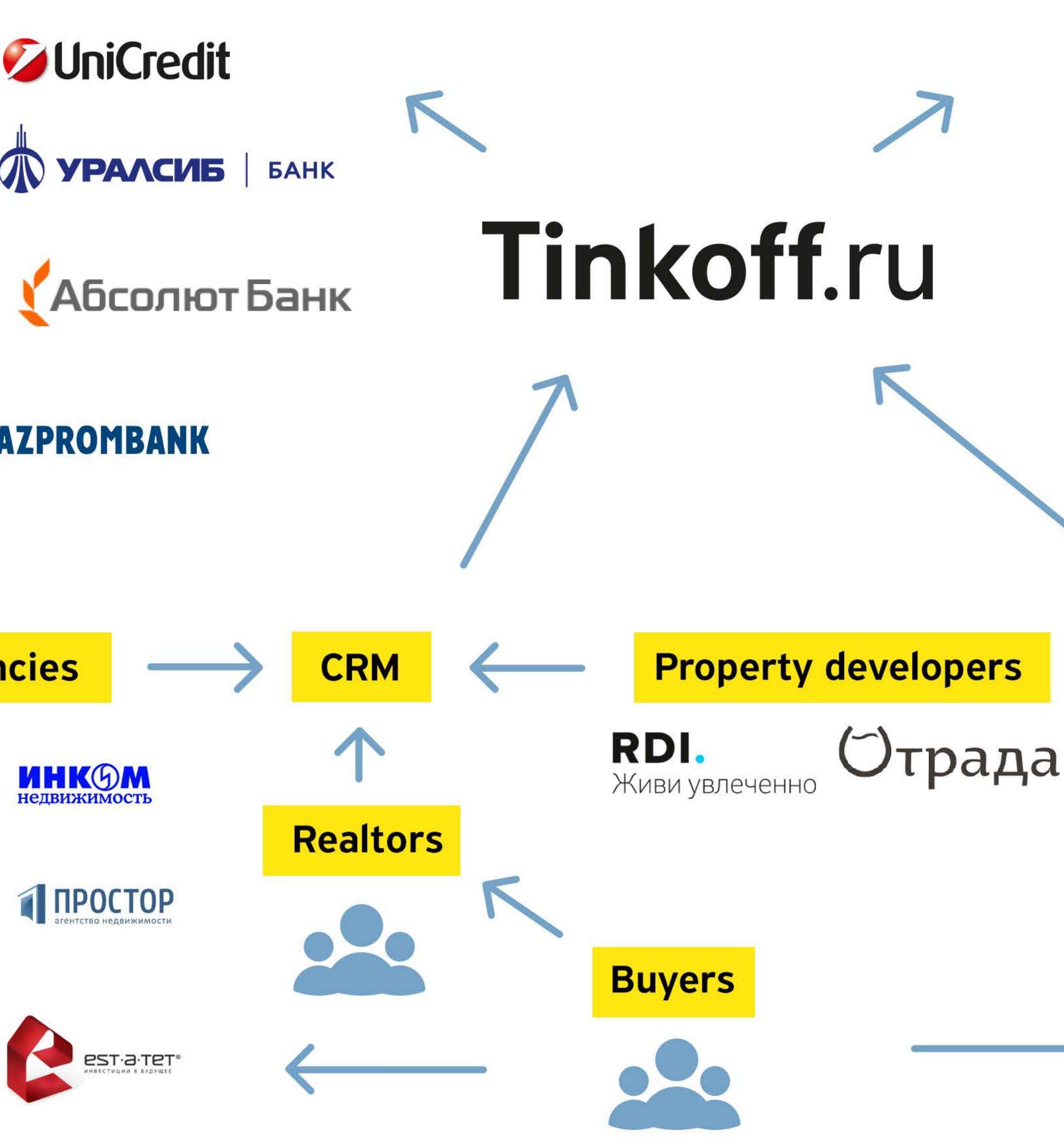


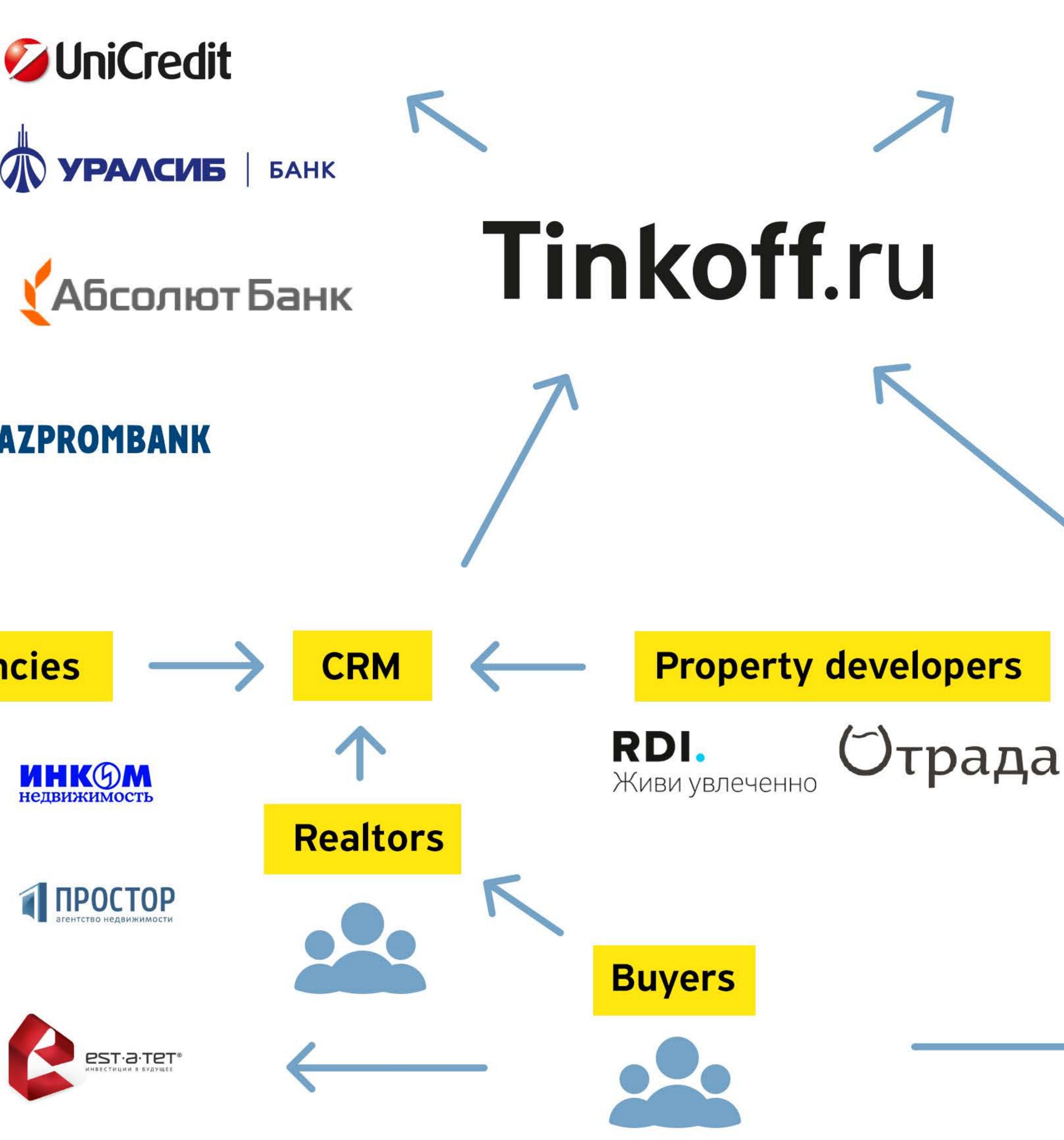


Housing Ecosystem

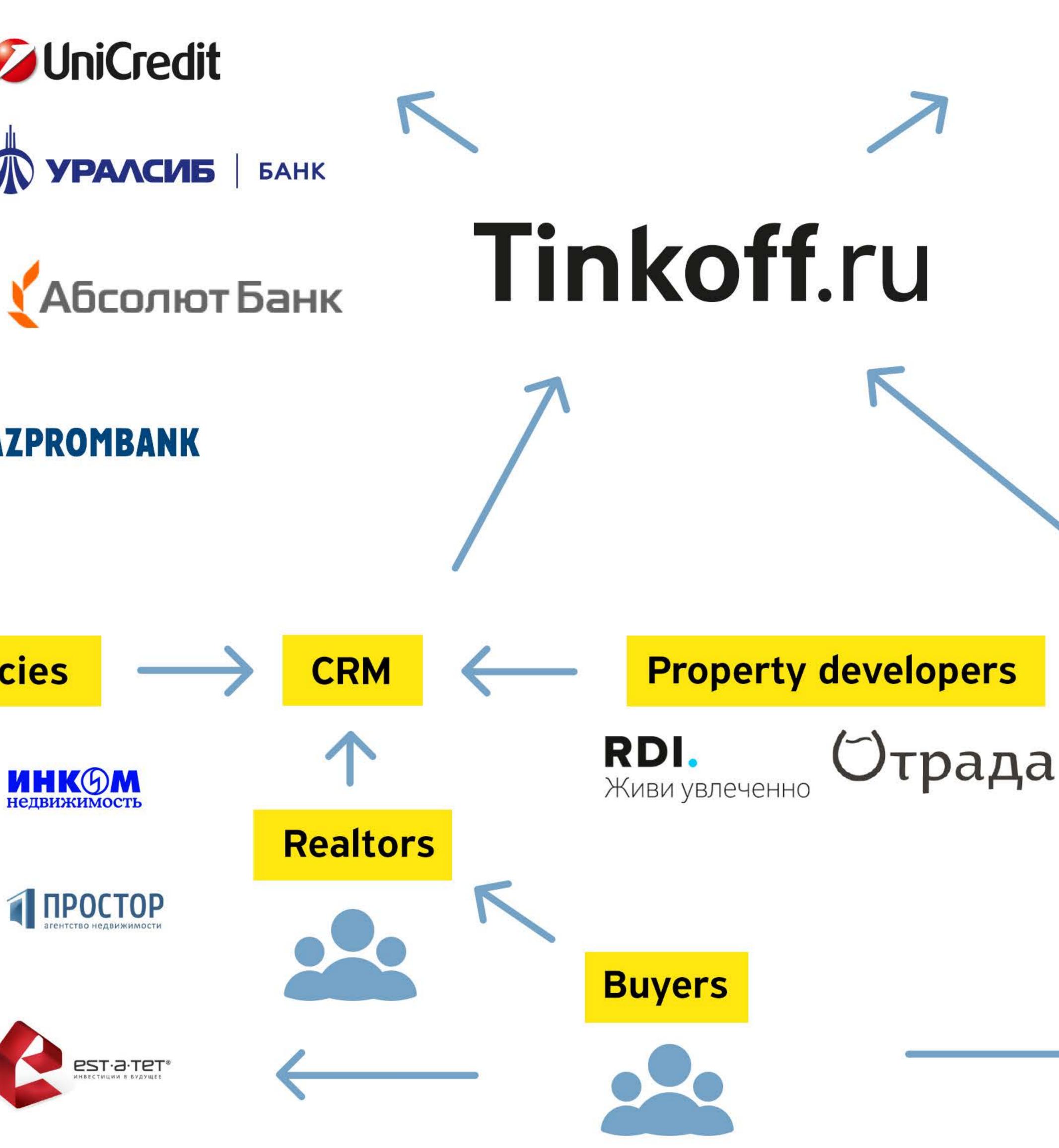
Mortgage banks

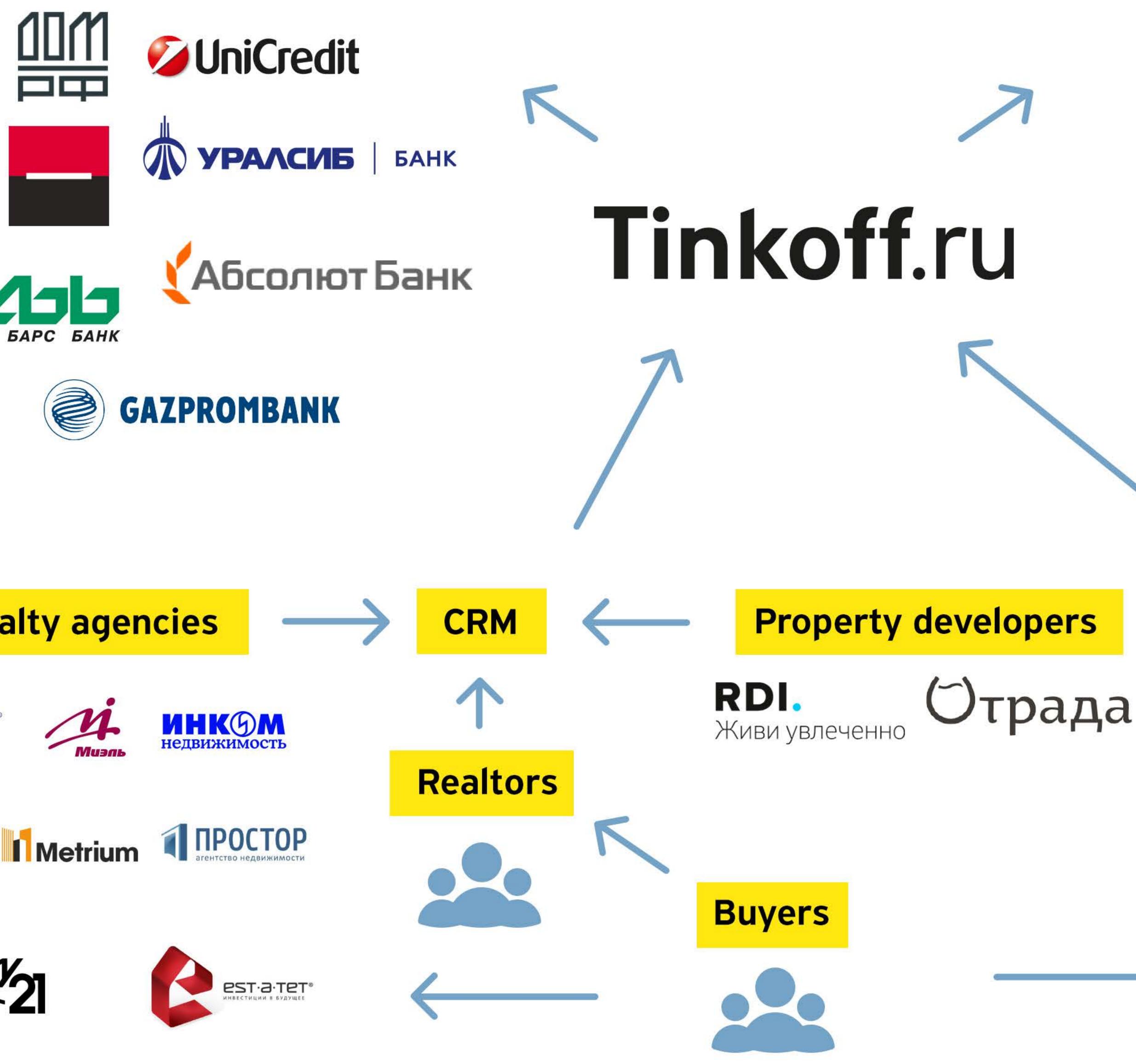












Realty agencies



















Property developers



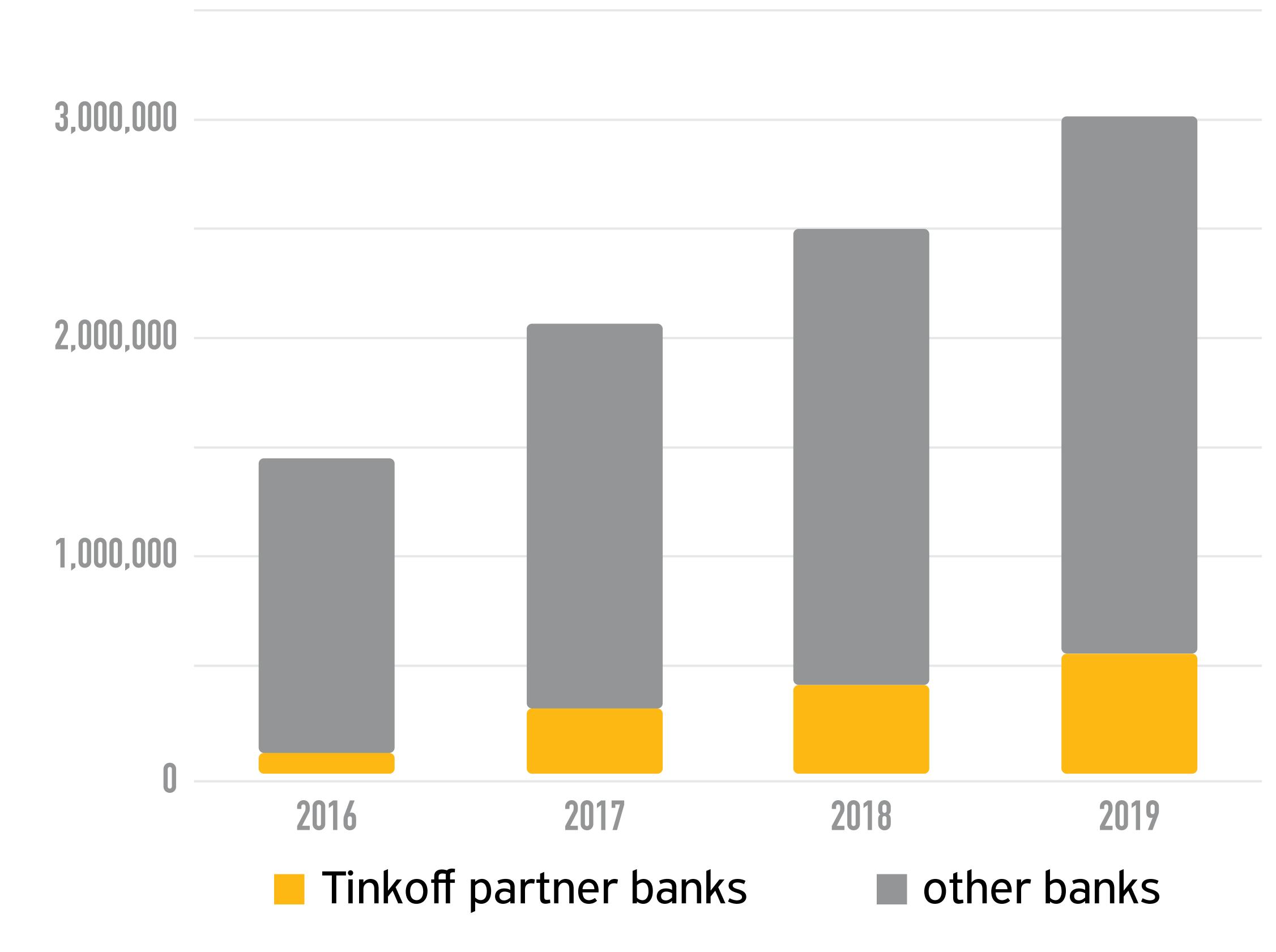








Mortgage Market Growth

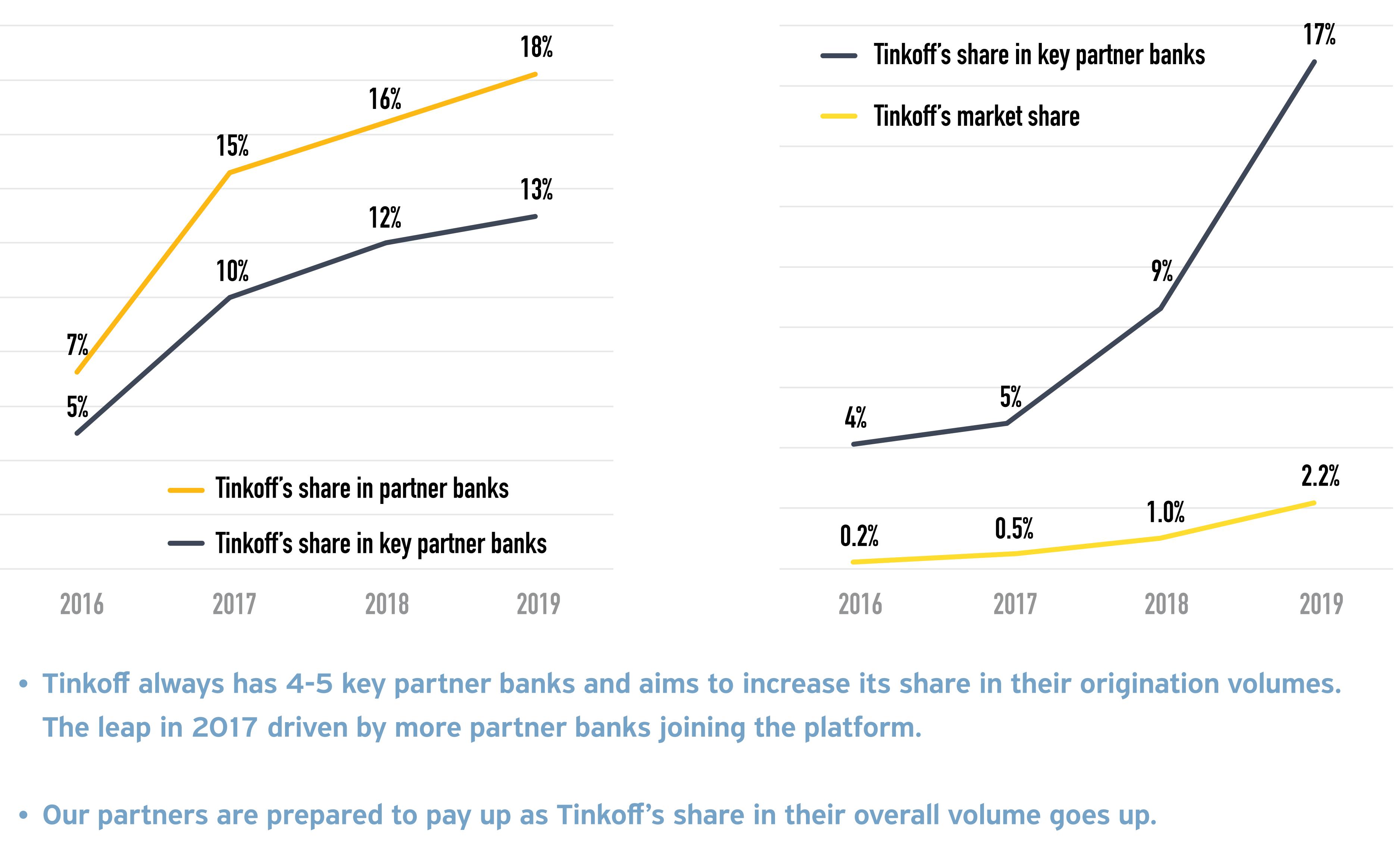


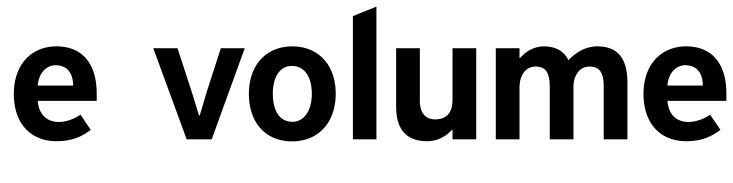
Sales (₽mn)

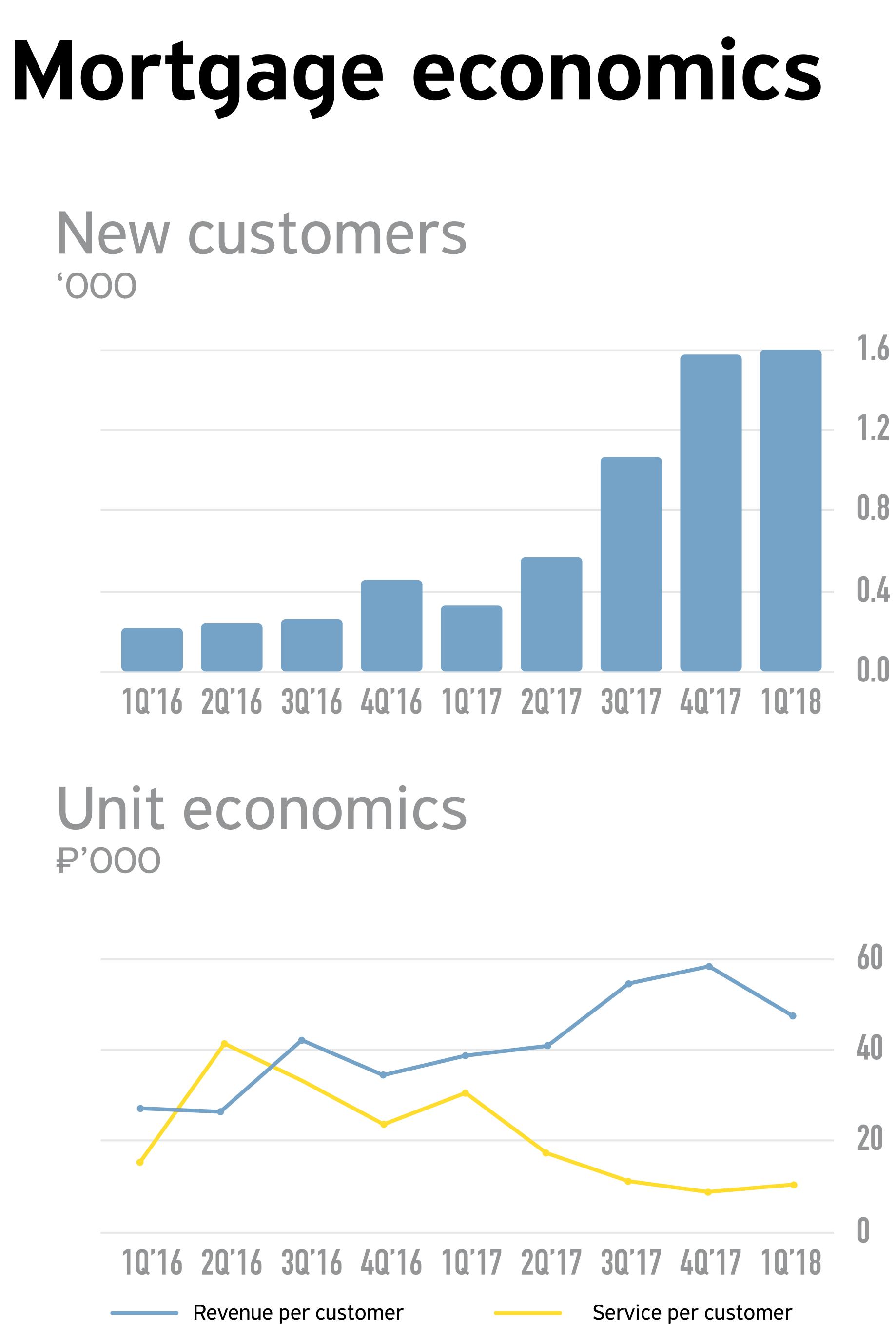
Mortgage rates decline from 12% to 9% drives market growth

Tinkoff increases number of partners so their aggregate market share will reach 18% by 2019

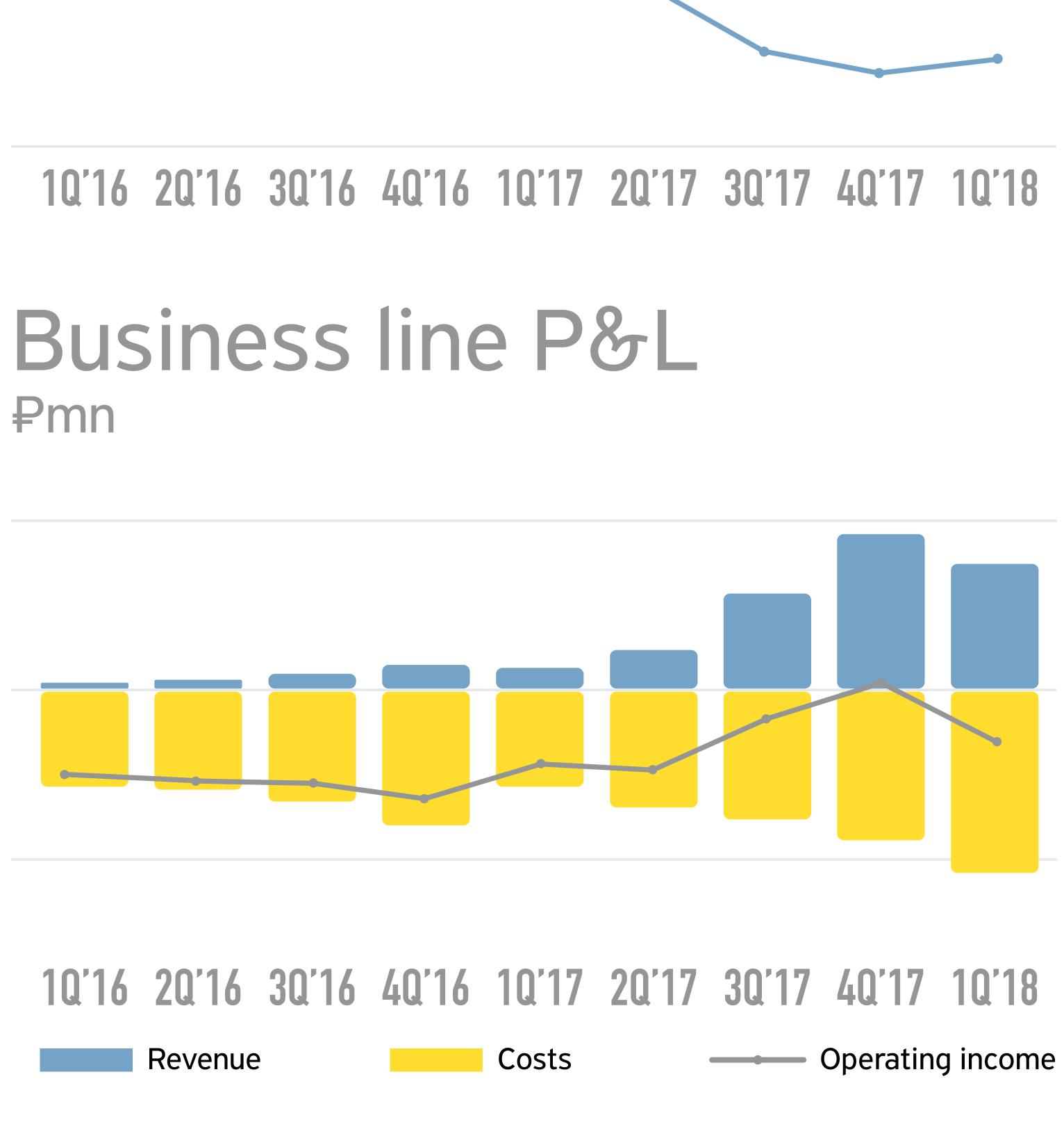
Tinkoff's share of mortgage volume origination







₽mn







100

-100

Next steps

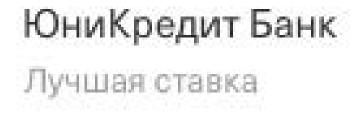
МЫ ДЕЛАЕМ СТАВКИ НИЖЕ



Банк Абсолют Выгодная ставка



ДельтаКредитБанк Быстрая сделка





АкБарс Банк Минимум документов



БЖΦ Кредит на любые цели

â

ВосточныйБанк Высокий процент одобрений

ВСЕ ПРЕДЛОЖЕНИЯ НА РЫНКЕ

Сбербанк С государственным участием

20

Райффайзен Банк Подача документов в офисе

Альфа-Банк Подача документов в офисе

8,99% вместо 9,5%

9,25% вместо 9,75%

> 10,15% вместо 12%

> > 12,15%

14,5%

10,15%

12,15%

14,5%

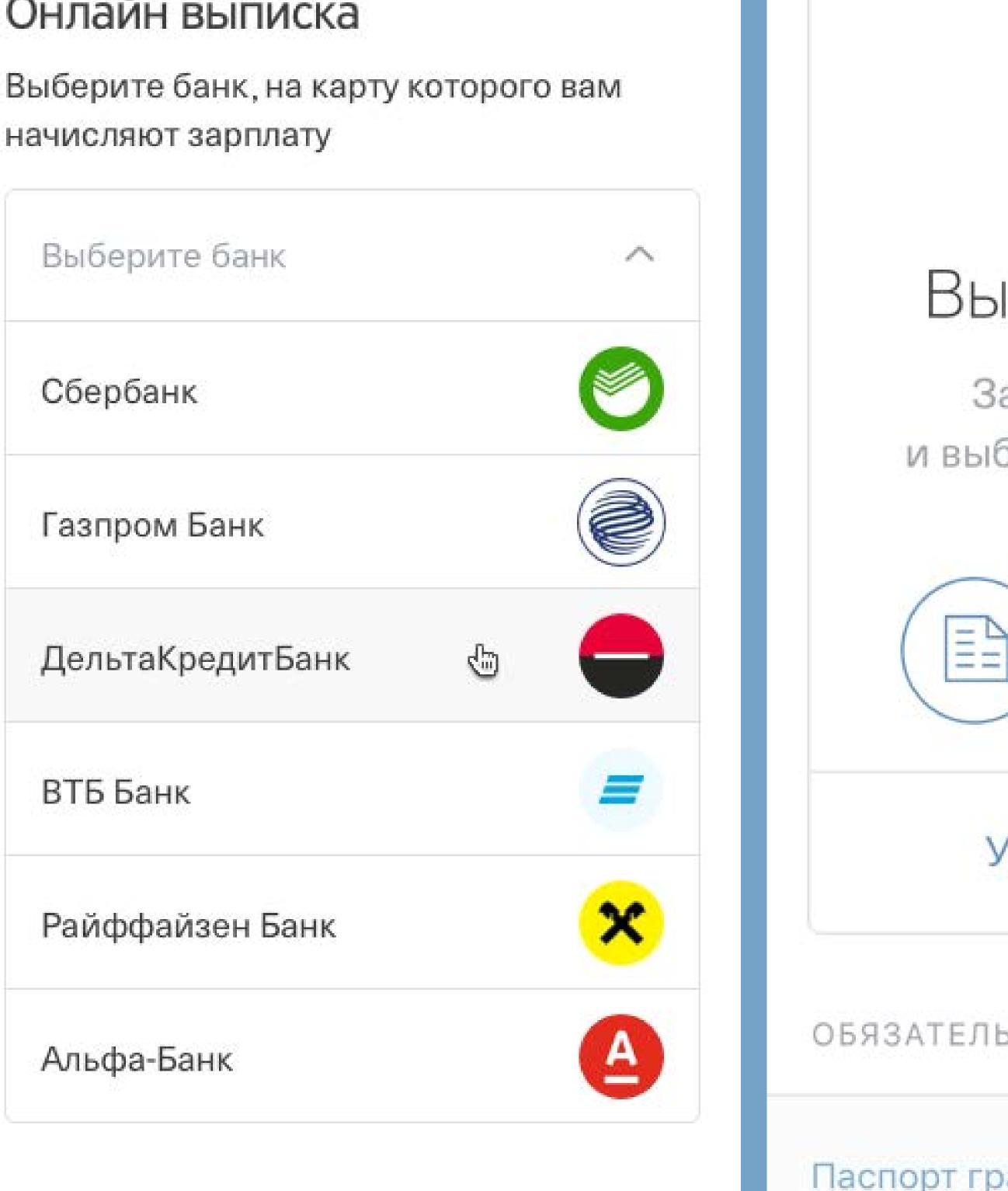
11,15%

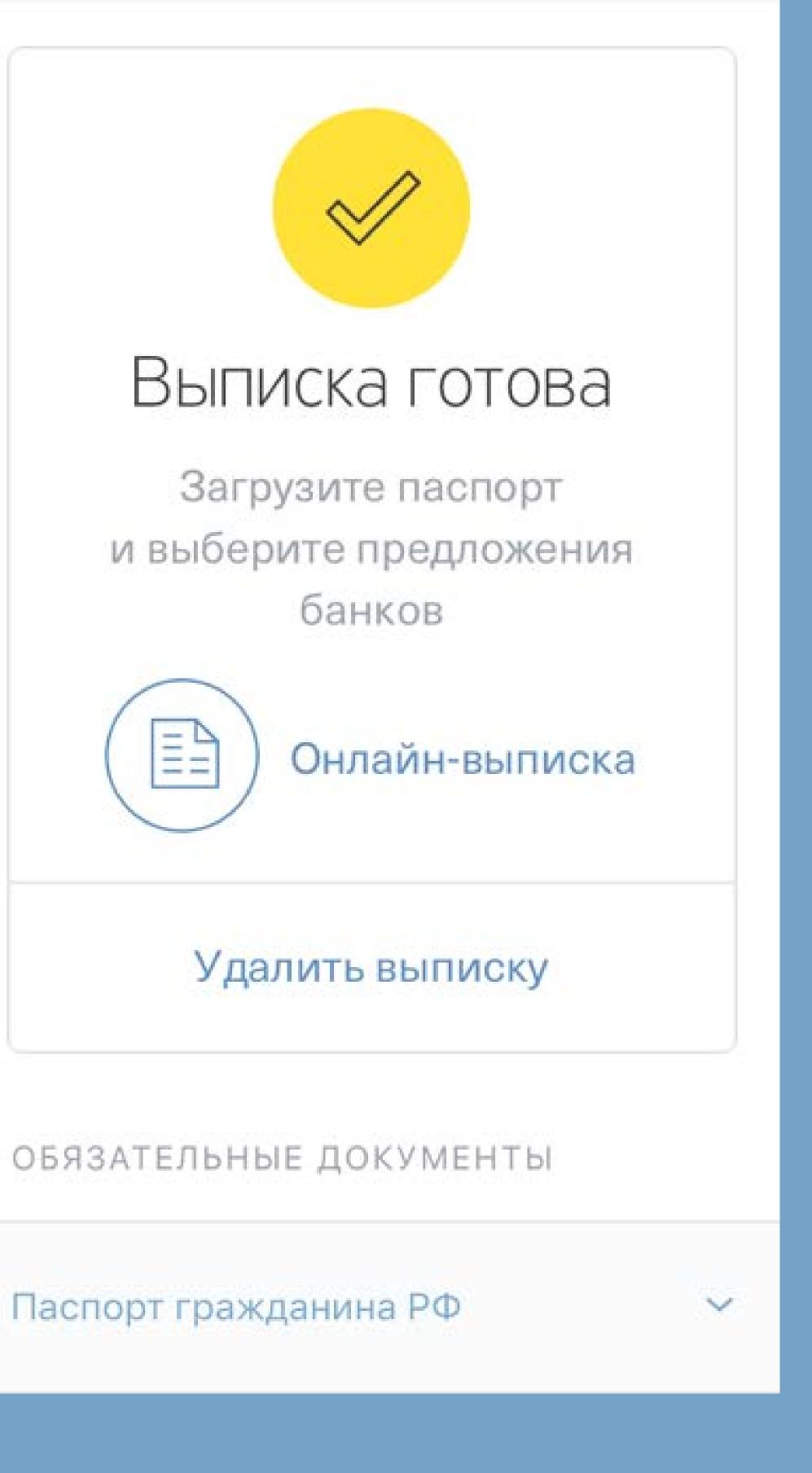
 1 hour mortgage deal for primary housing

Онлайн выписка Согласование договора Выберите банк и загрузите начисляют зарплату проект договора, предложенный застройщиком. Мы проверим, работает ли банк с данным типом договора, Выберите банк и сообщим результат Сбербанк Выберите банк Название банка Газпром Банк ДельтаКредитБанк — ... ДельтаКредитБанк Загрузите документ ВТБ Банк Проект договора V Проверено Райффайзен Банк Альфа-Банк



• "Just bring your passport with you"









Tinkoff Investments



Alexander Emeshev **Director for New Product Development**







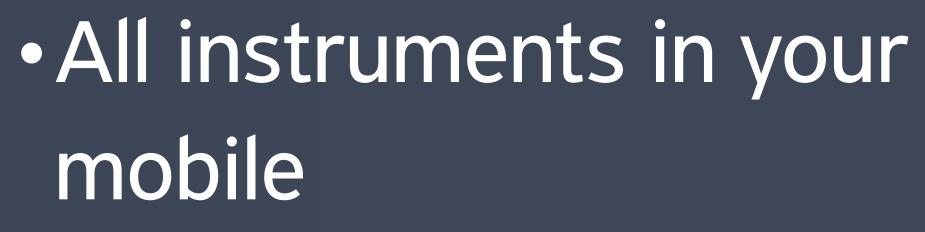
Russian Robinhood Now on our own platform. 100,000 accounts

Own sophisticated IT design concept

More technologically advanced and userfriendly

Featuring unique product range and service offering

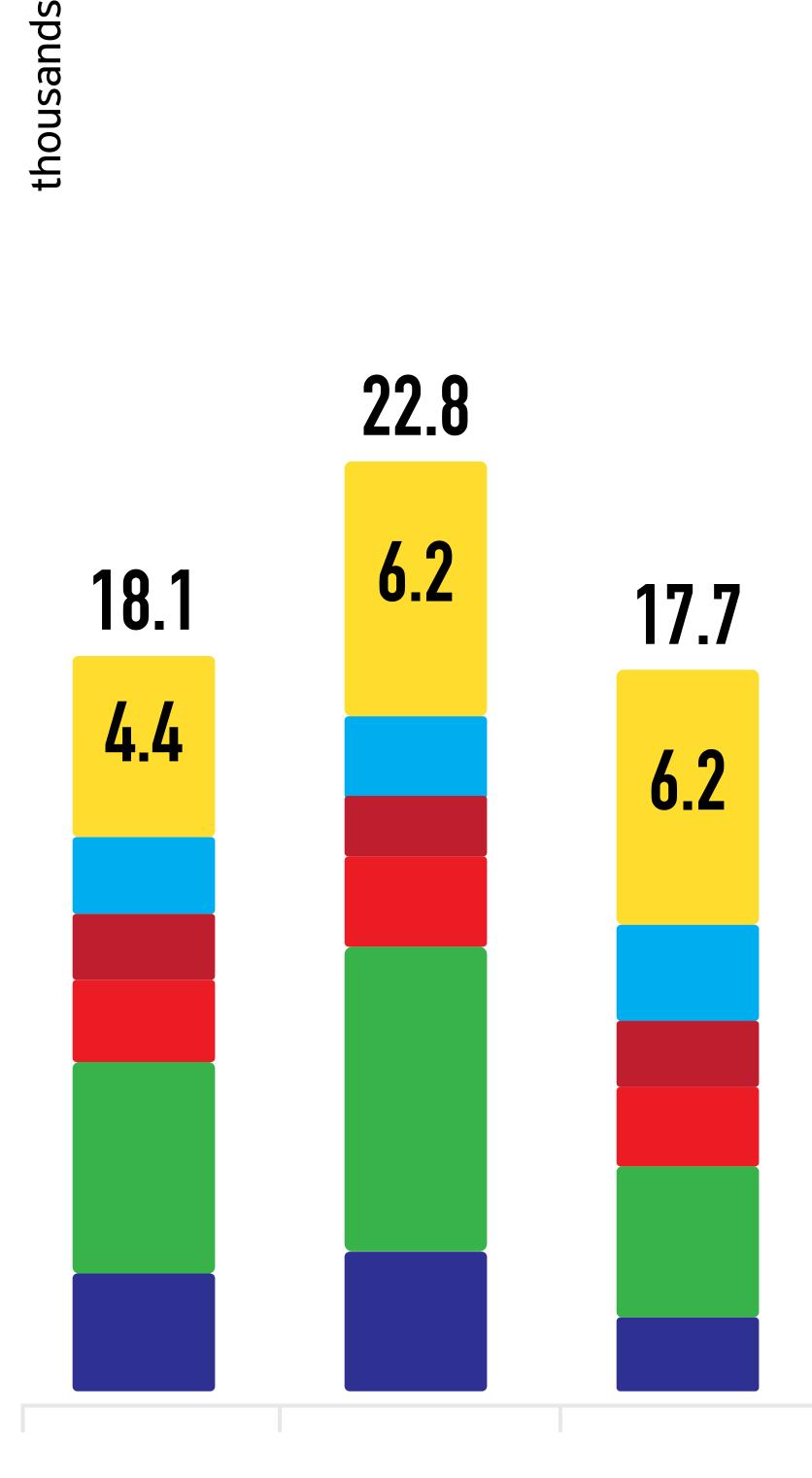
Q No	иск		
☆ ^	КЦИИ ETF (облигации	ИСЖ ВАЛЮТА
Adobe	Adobe Adbe	- And	251 ,77 \$ ↑ 0,78 \$ (0,31 %)
×	XL Group	2	55 ,94 \$ ↑ 0,06 \$ (0,11 %)
9	Seagate STX	5	57, 97 \$ ↑ 0,7 \$ (1,22 %)
V	Valero Energy Corporation VLO	~	123,82 \$ 123,82 \$
AMD	AMD AMD	w	14 ,47 \$ ↑ 0,1 \$ (0,7 %)
a	Amazon.com	~	1 652,16 \$ ↑ 6,31 \$ (0,38 %)
	Marathon Oil	~~~	21 ,51 \$ ↓ 0,1 \$ (0,46 %)
Портфеля	↓↑ Каталог	Е . Моя лента	ер 21 Чат Профиль



- Instant money bridge (same) as Rakuten Securities)
- «Fixed price» execution
- Single account
- Advisory, invest ideas, invest news feed
- The simplest tariff on the market
- Eurobonds from \$1,000

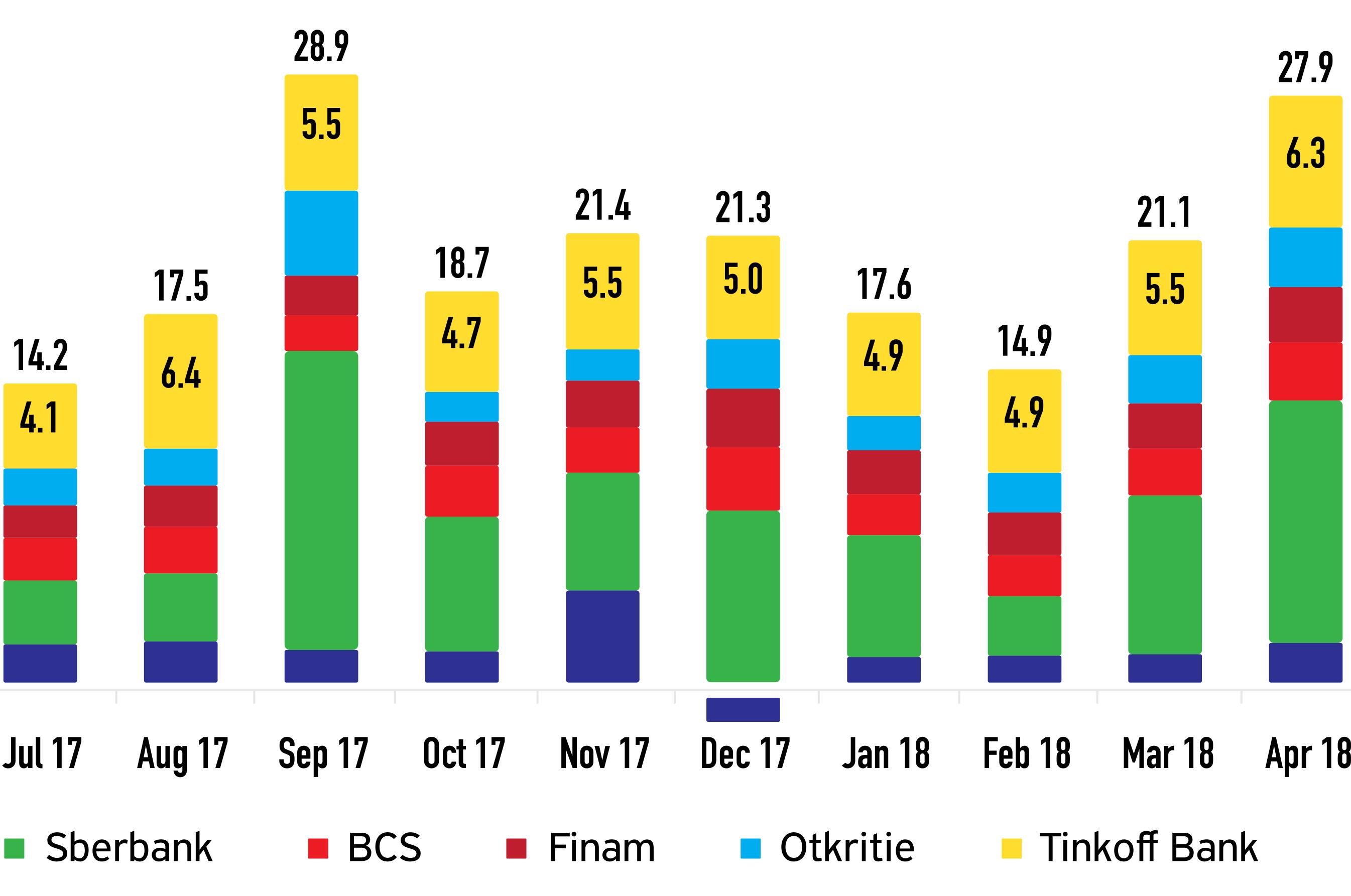


Retail investments market: origination



Jun 17 Apr 17 May 17

Tinkoff holds ~25% market share by new accounts Sberbank is the main competitor

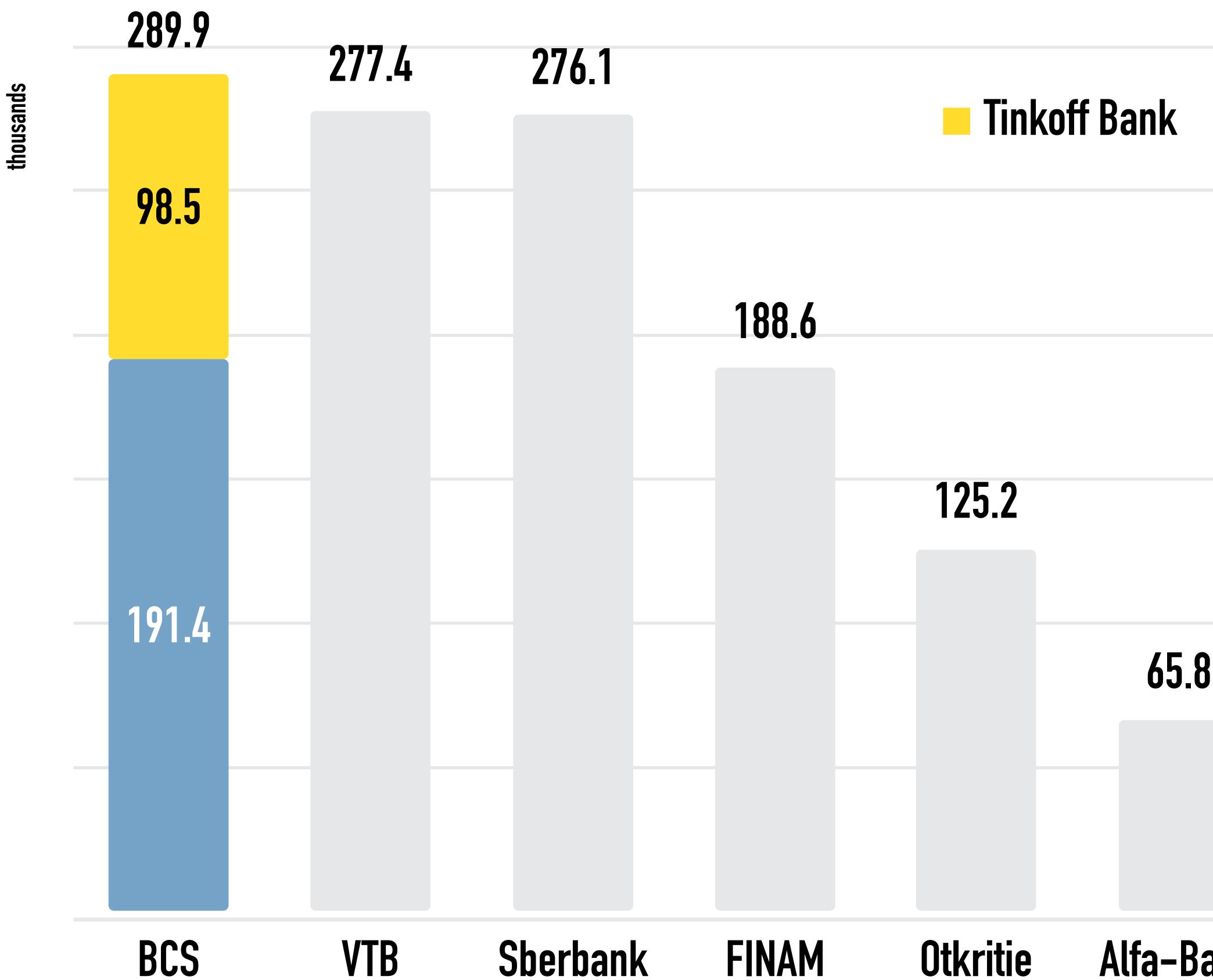


Jul 17

Sberbank

Apr 18

Tinkoff is Nº6 on standalone basis



Retail brokerage market: new accounts opened

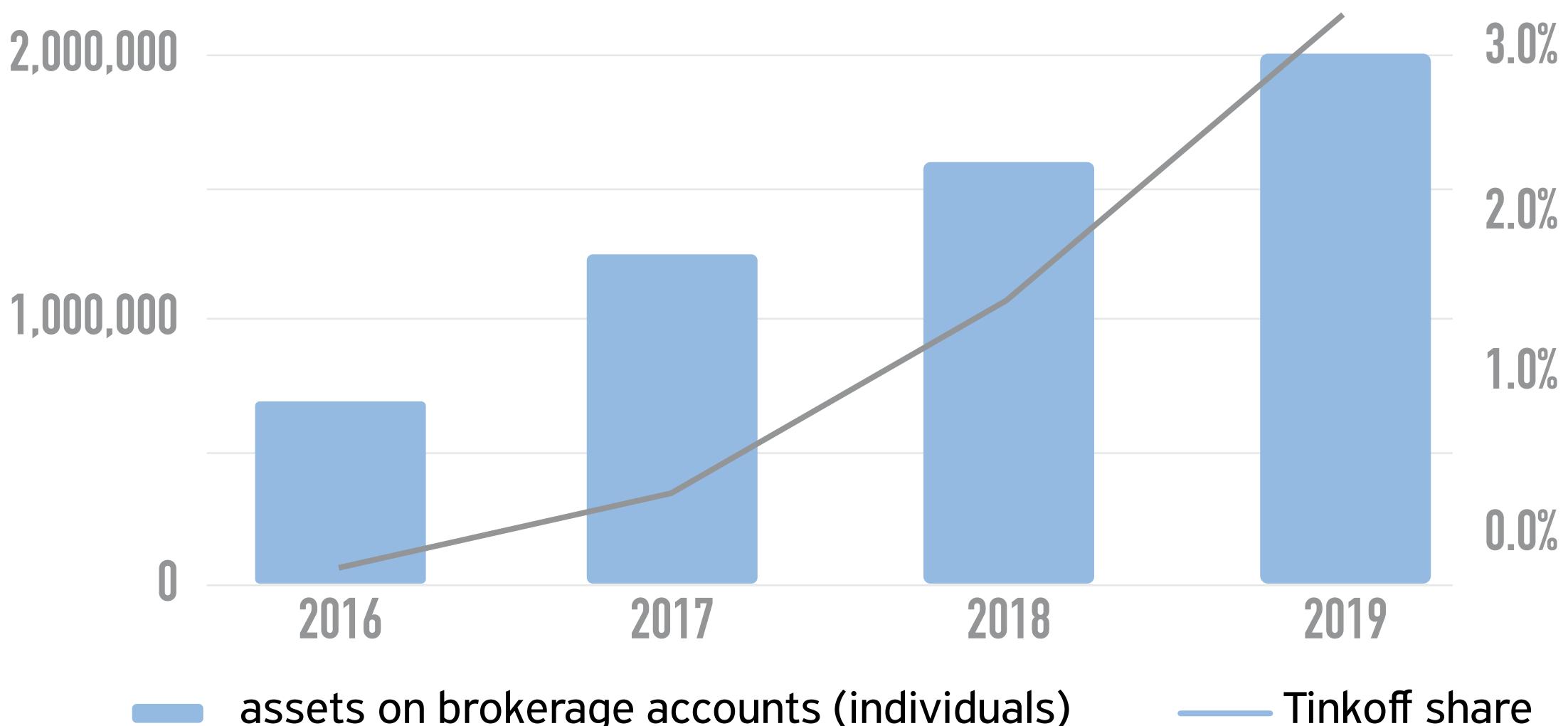
BCS becomes Nº1 due to Tinkoff partnership

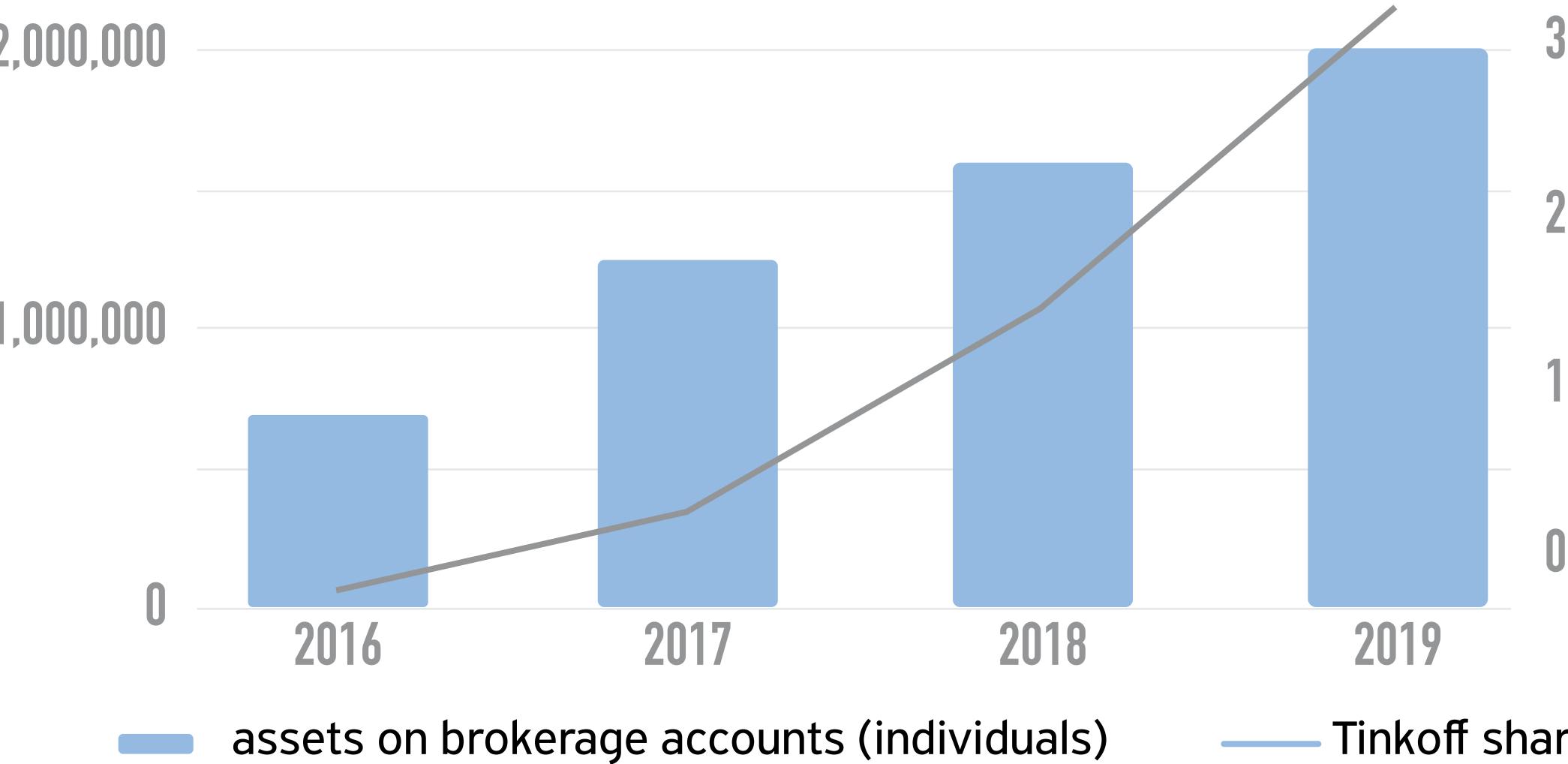
8				
ank	ATON	ALOR Broker	Freedom	

23.3

KIT Finance

Retail investments market: assets





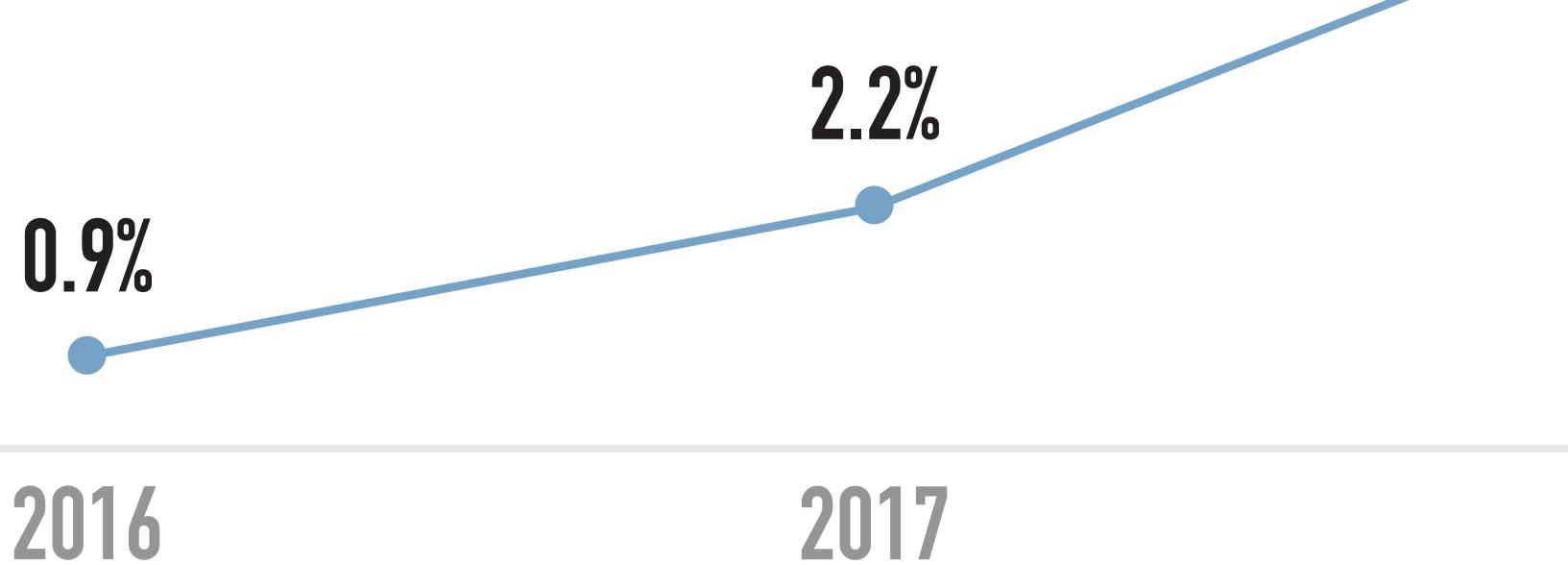
Deposit rates decline from 10% to 7% drives market growth

- 2.0%
- 1.0%

Tinkoff share increase:

- Market growth
- Increasing penetration into 0.0% current accounts base
 - Average portfolio growth (new customers segments)

Rakuten Securities has 40% penetration into current accounts customer base Key driver is instant money bridge – same as we done from the start

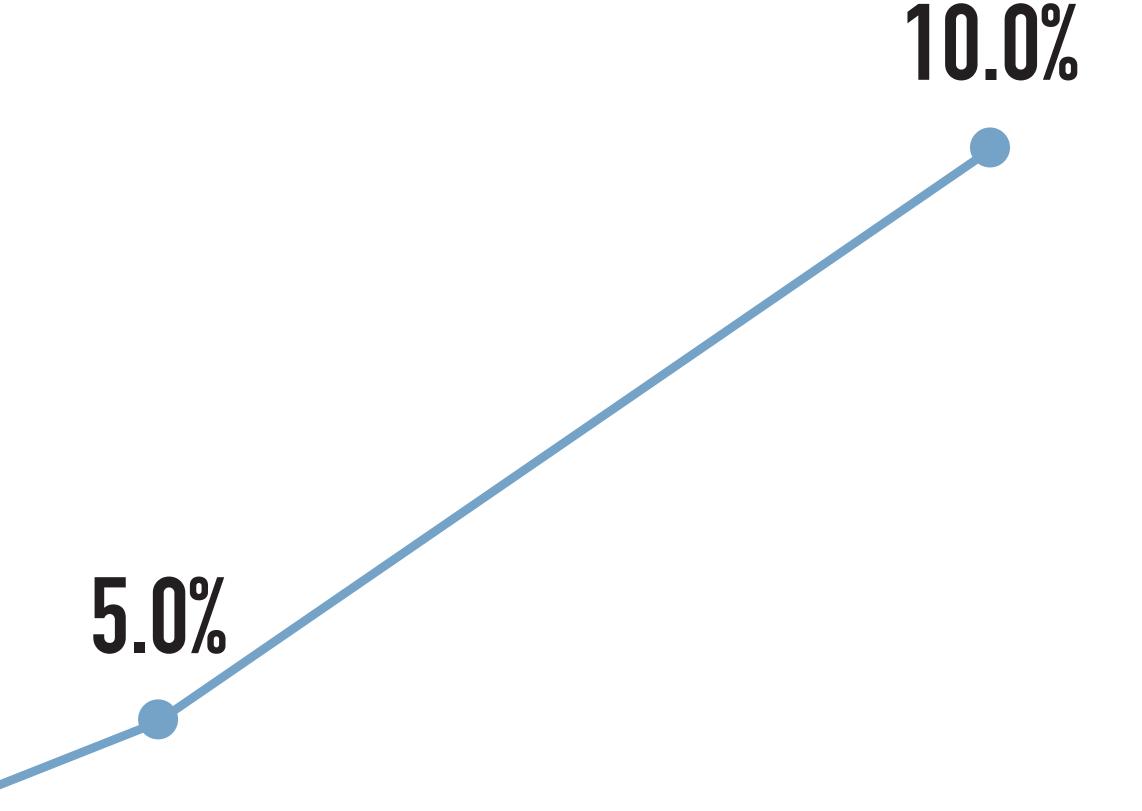




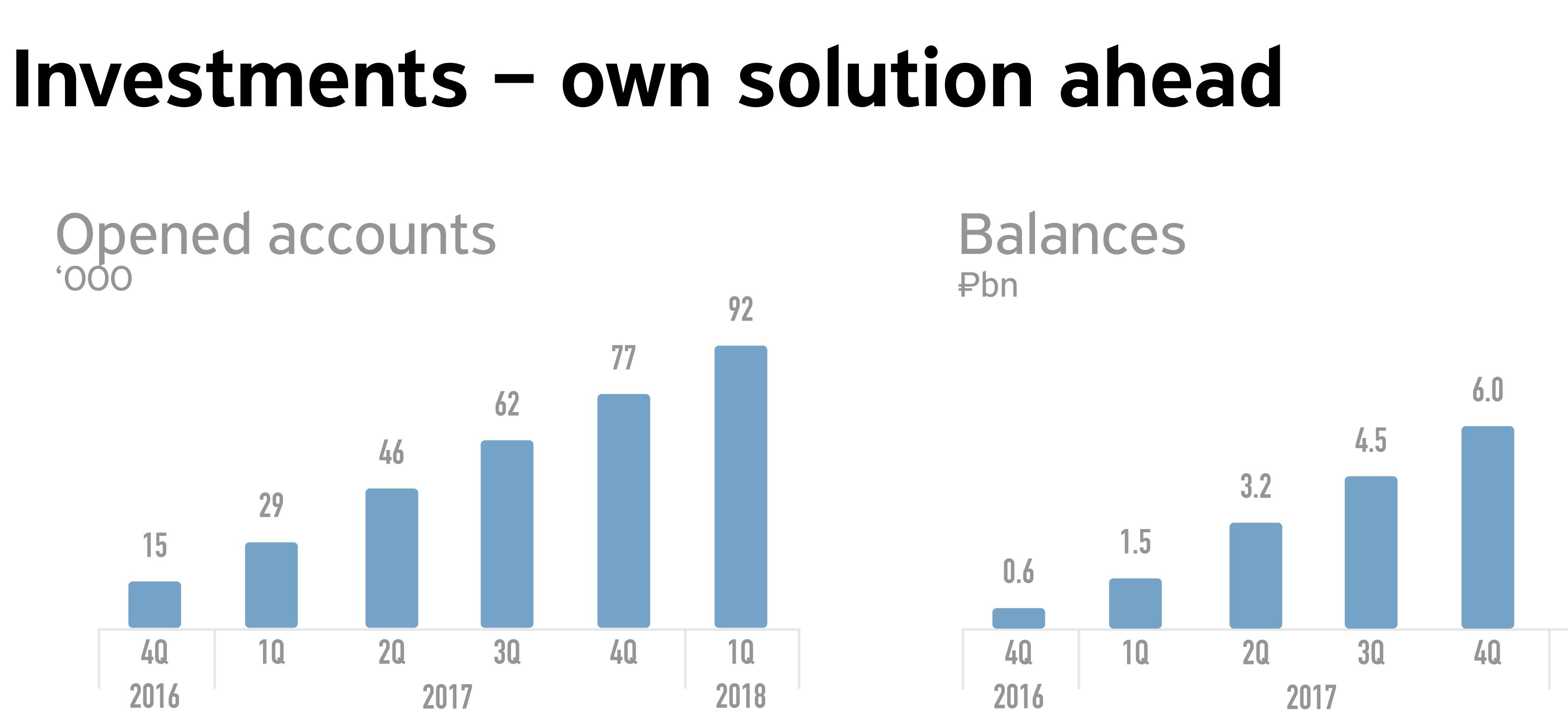
Huge cross-sell potential

2017

2018

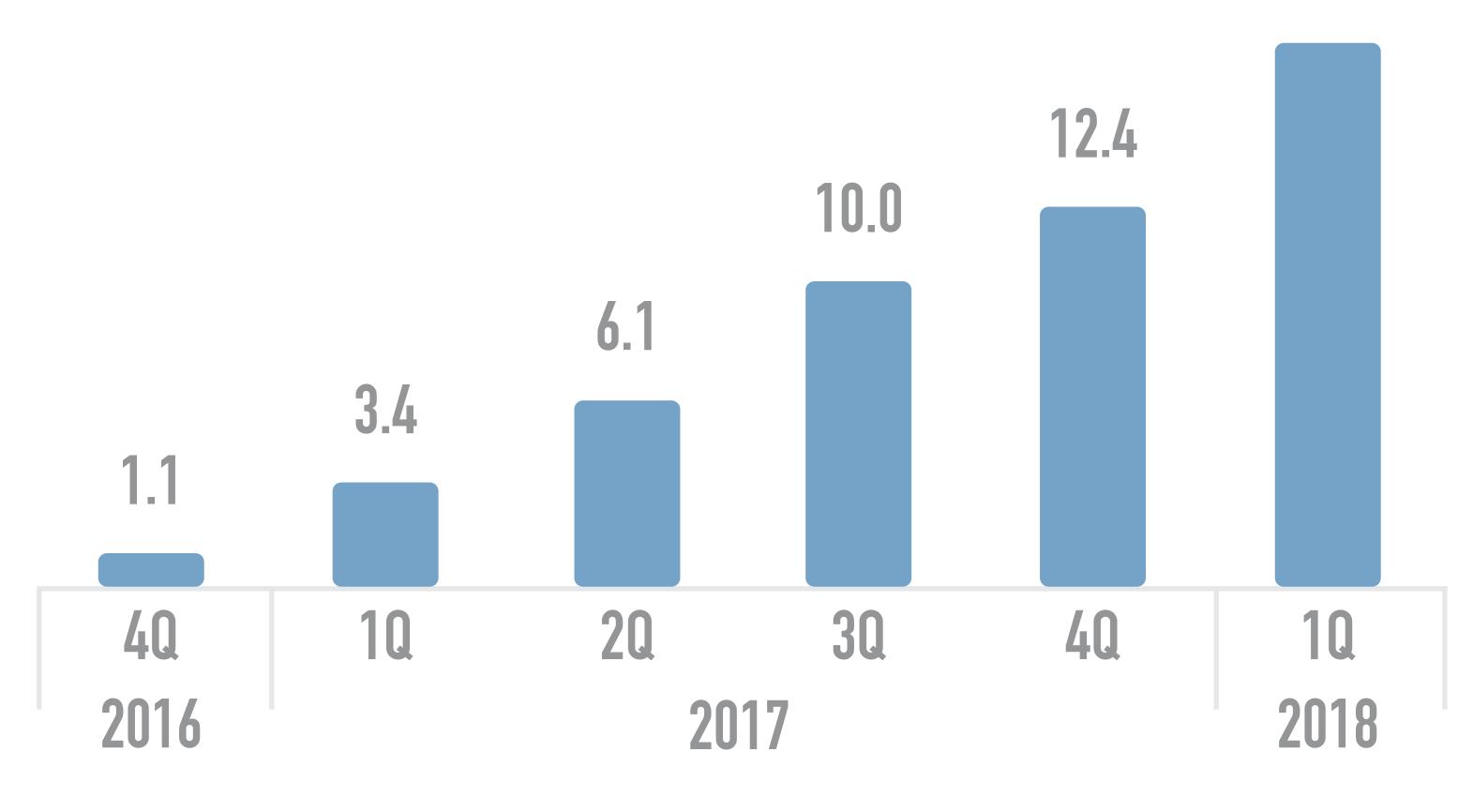


'OÓO

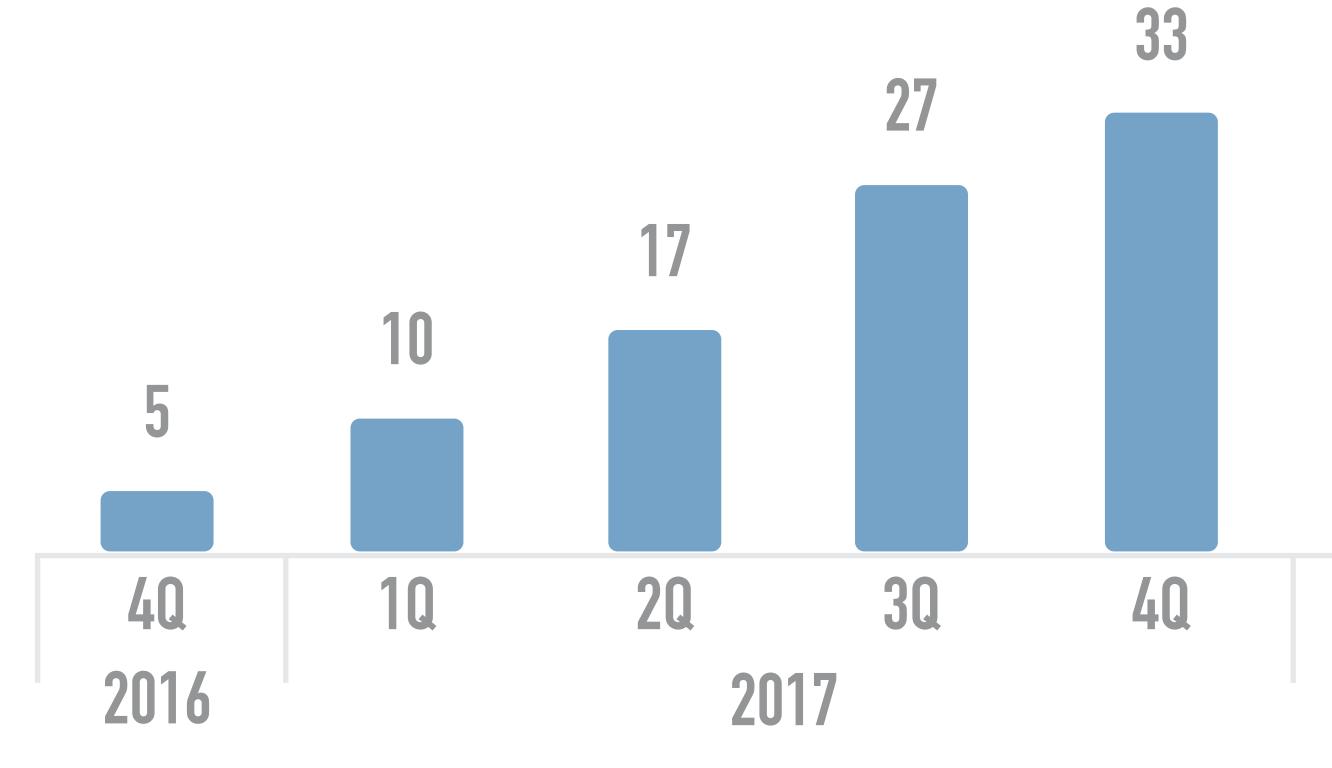


17.7

Deals volume ₽bn





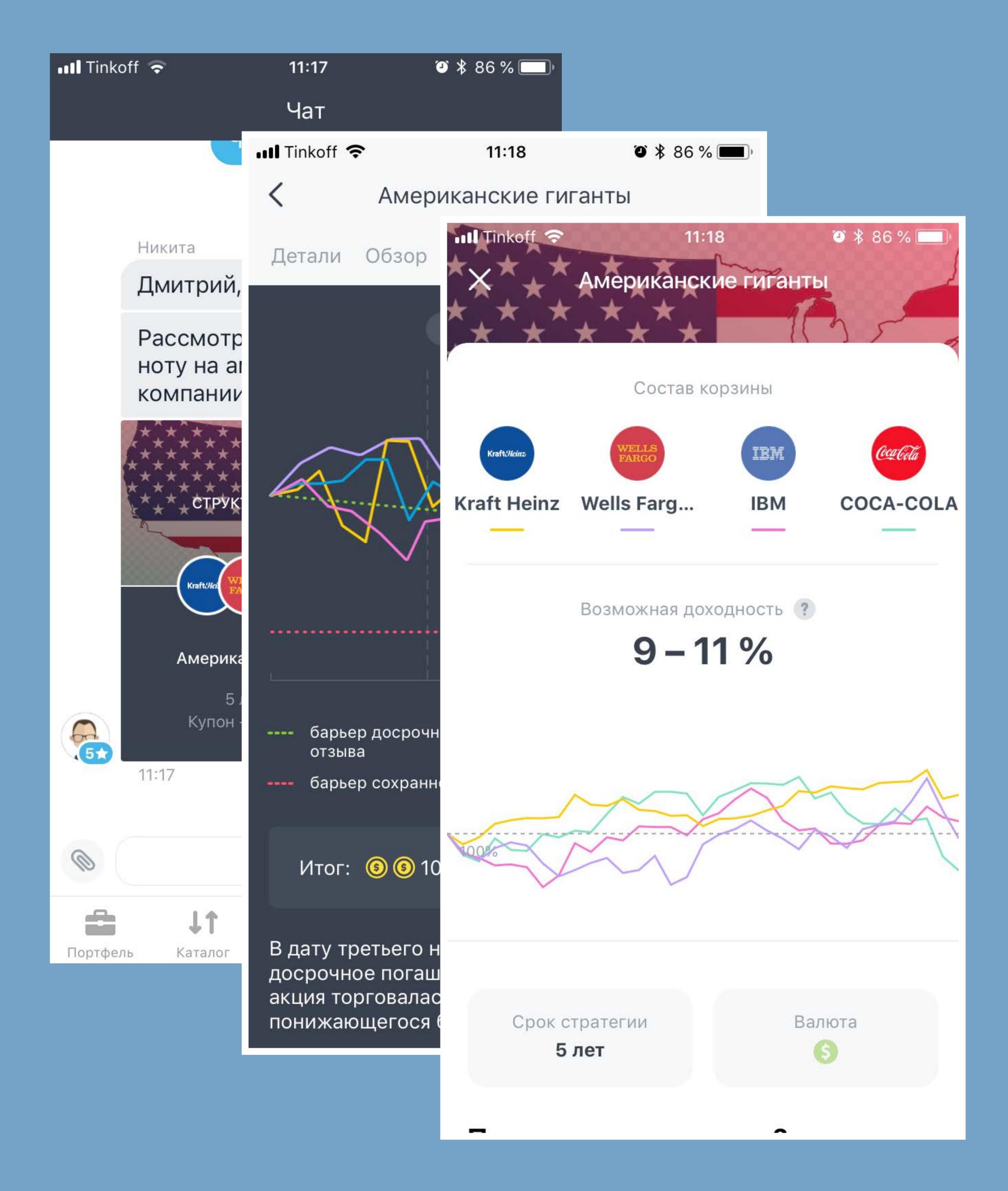


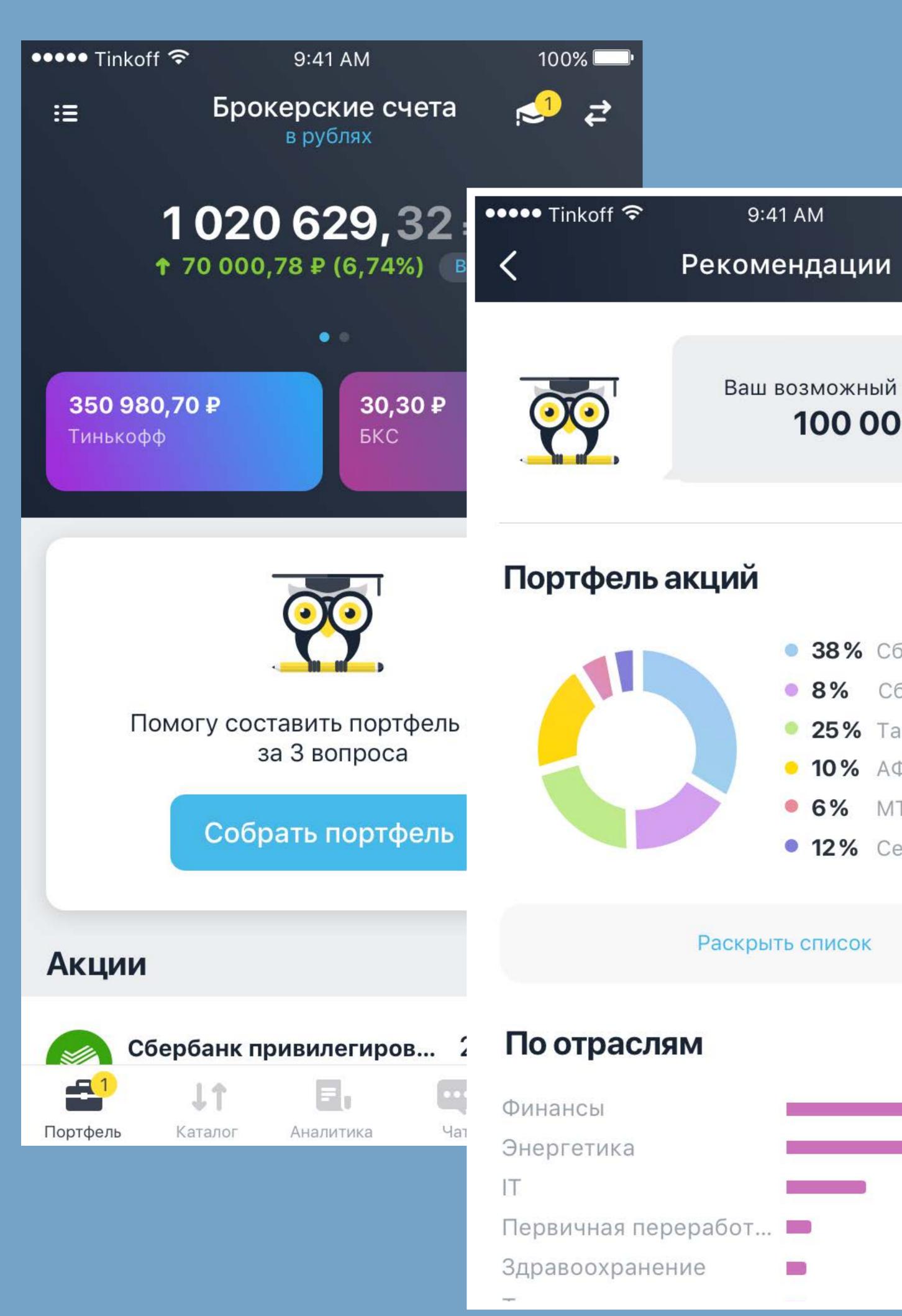
Fee and commission income



Next steps

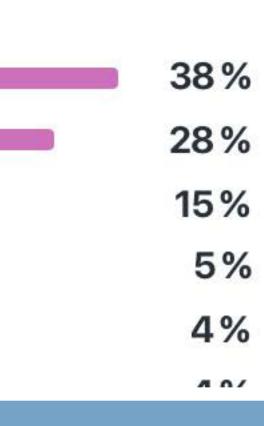
Premium service for affluent customers





Roboadvisor





- 10% АФК Система 6% MTC • 12% Северсталь
- 38% Сбербанк приви... • 8% Сбербанк 25% Татнефть
- Ваш возможный портфель на 100 000 ₽

100% 💷 י





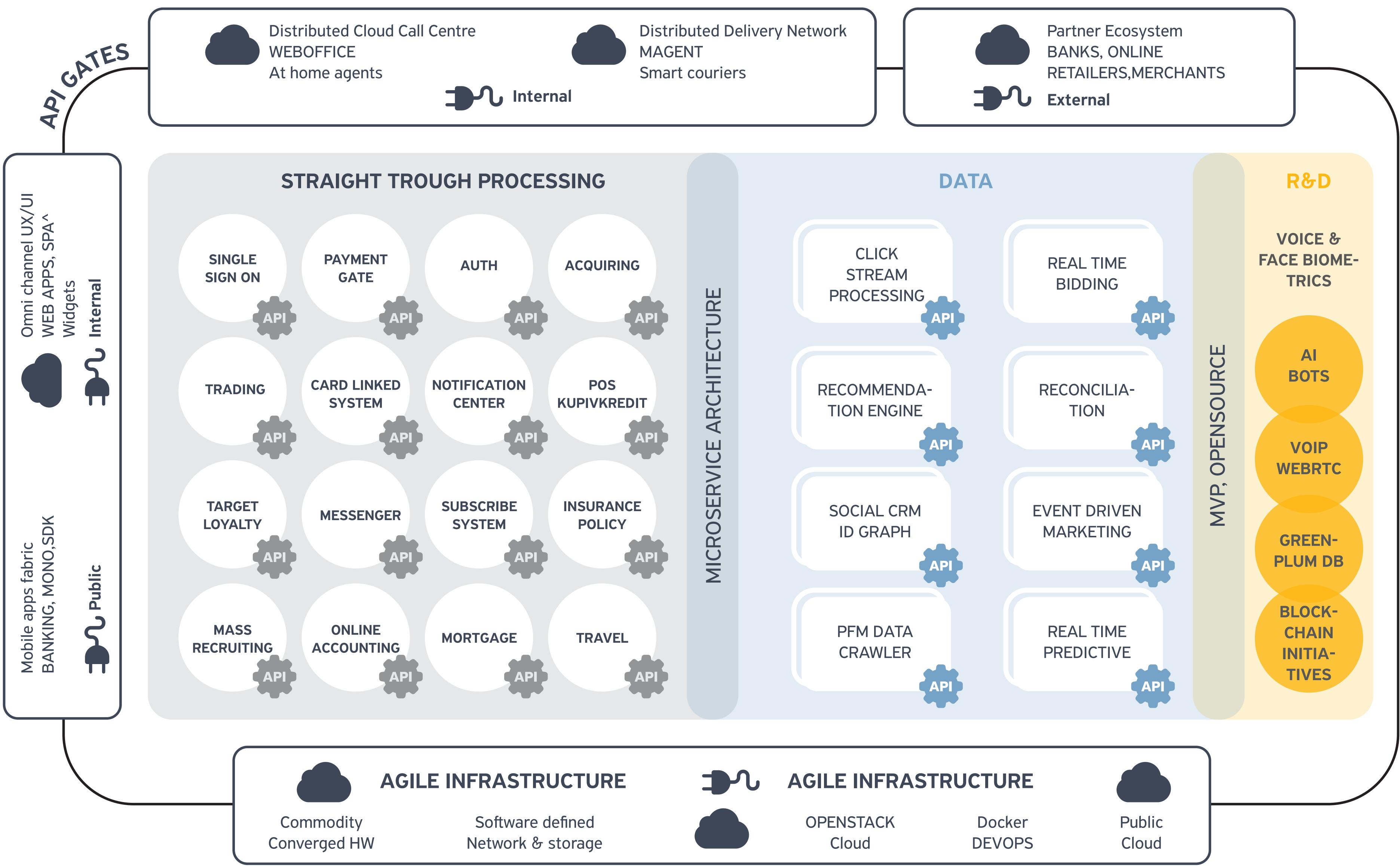
Viacheslav Tsyganov **Chief Information Officer**







Intelligent Cloud Platform



Technology culture



Low-end hardware

Microservice architecture

In-memory processing

MVP approach

 Share of own development 100% Uninterrupted 24/7 functioning of all services is a priority Data Science function across all business units



Agile & DevOps
Opensource culture
Containerized applications
Teamwork & Collaboration
Hybrid clouds

Cybersecurity



Low latency infrastructure

Gradual replacement of legacy technologies

Machine learning platform

Bots



Continuous Integration & Development



Autoscaling on **Kubernetes**

Real-time streaming data platform

Application platform as a Service

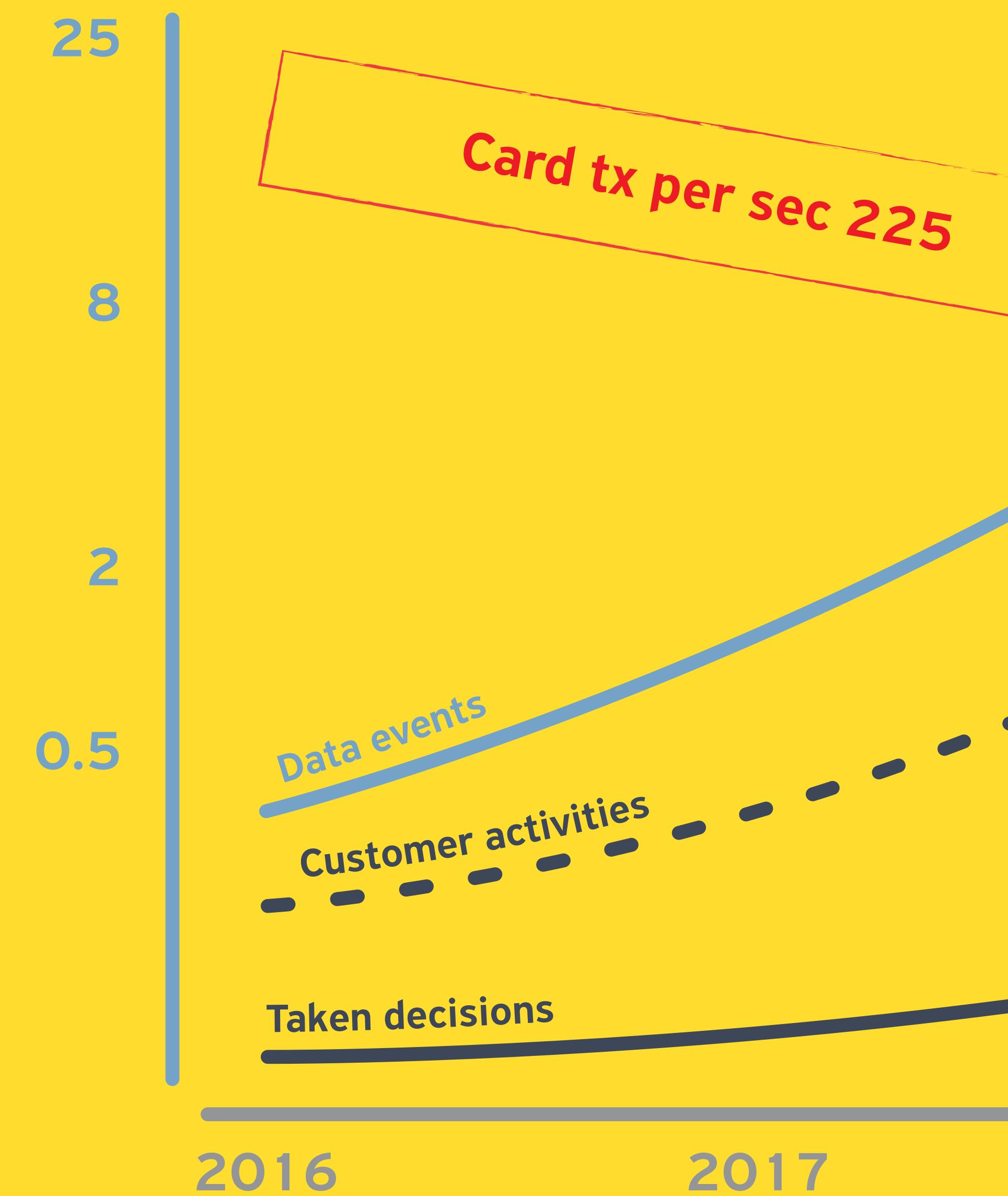
Ability to plug-and-play third parties

Al-empowered products



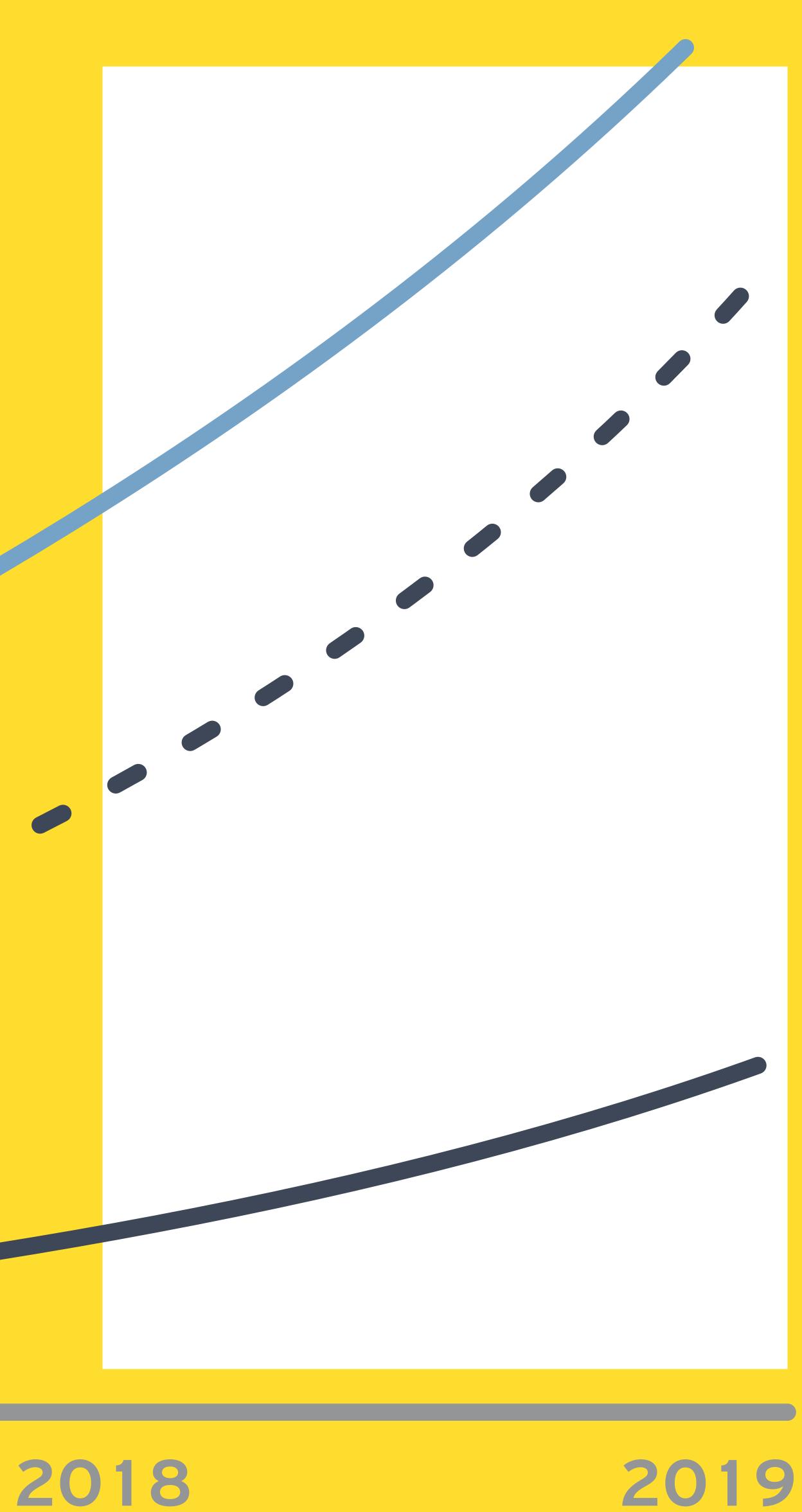
Agility amid growth

Billions per day











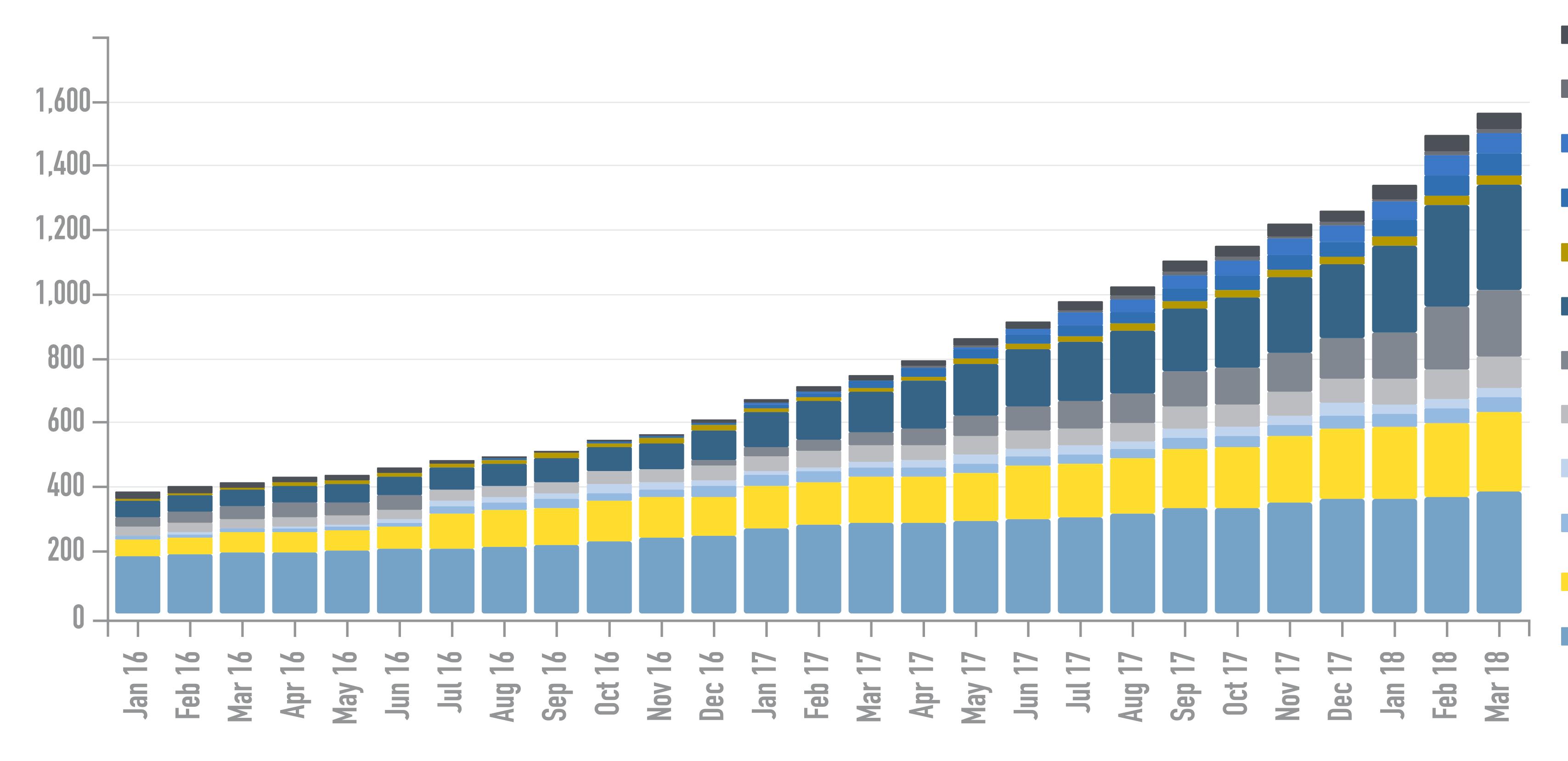












IT resource allocation by business line

Other
Travel
MVNO
Investment
Mortgage
SME
Platform
Loan
Insurance
Deposit
Debit card
Credit card

Tinkoff.ru Re-Inventing core banking

ATM

- NFC authentication
- Quick cash with QR codes
- Modern UX based on React/Redux/TypeScript/ RxJS
- Access to all products and services

Face recognition

Пополнить

Avg # of clients per agent increased by



CRM

 Search-engine style Interactive routines & KB Chatbots instead of support

Messengers as 1st channel

Voice assistants

• Predictive & paperless

Avg service time per request decreased by



Future banking services

Unique Next-level PFM

- Digital receipts
- Fiscal data linked by card
- Spend transparency
- Cashback from manufacturers
- Price check service

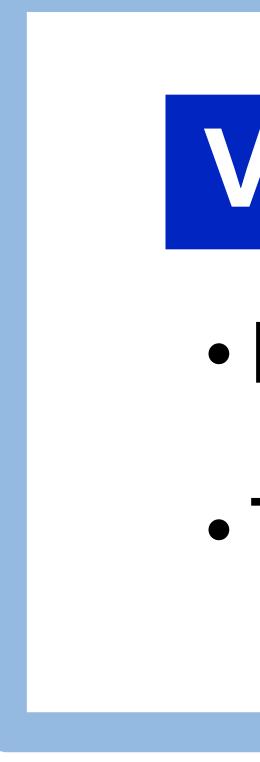
Municipal services

- Registration of personal account
- eGovernment services





- Aggregators: Sberbank, VISA, Mastercard
- Money transfer using phone number
- Money request (coming soon)

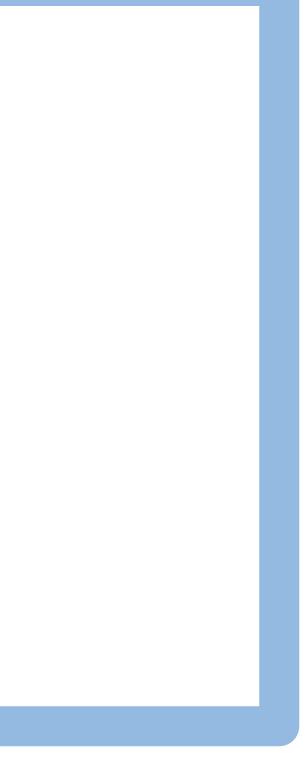


Fast payments

Virtual reality

- Digital mortgage
- Training







Al at every step

Robo-quality assurance

Paraphrase

Speech Analytics

Web-mining

Financial Voice Assistant



Real-time operator assistant

TCRM

Natural Language Processing, Understanding

Speech2 Text

A/B-testing via Reinforcement Learning

Look-alike Modeling

Geo analytics Sentiment & emotions

Voice identification

Voice

Computer vision

Remote sensing



Receipts



Successful R&D strategy

Voice biometry

- Customer authentication
- Fraud prevention
- National Unified Biometric System
- National Credit Bureau POC

Speech analytics

- 100% of calls translated to text
- Automatic quality management

Recommendation engines

- Stories
- Trading
- Target
- Best Offers

Computer vision

- Merchant solutions
- Analyzing satellite images



Software development at country scale

93% engineers

Multi time zone

St. Petersburg

Skolkovo

Nizhny Novgorod Izhevsk **O** Kazan Innopolis Ekaterinburg Novosibirsk

Ryazan

Rostov-na-Donu





Headcount

Dec 2016

2017

250

30

Cost saving = 25%

Top tech brand

2018	2019
400 (850)	1,350



Tinkoff got talent

Fintech School

4 launches since 2016

 4 areas in focus Machine learning Functional programming Mobile development **Front-end development**

- Only real projects
- Only acting developers as lecturers
- 100 graduates become a part of the team

Top-tier Universities

Technology Community



Tinkoff got talent

Fintech School

Top-tier Universities

- MIPT Master program "Financial technologies"
- MSU Faculty of Mathematics and Mechanics
- ITMO University
- Saint Petersburg State University
- Innopolis University
- Sochi «Sirius» Educational Center for gifted children



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Technology Community

Tinkoff got talent **Top-tier** Fintech Universities School

Technology Community Case-championship with 45,000 participants Data Science Challenge Computer vision tournament Frontend contest Mathematics game Algorithms and data structures Postgres, Scala, Angular community Top ranking tech blog at Habr.com Leading tech conferences and mathematics contests















Evgeny Ivashkevich







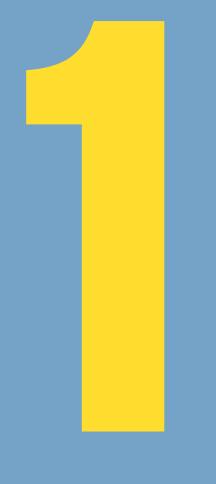
Double shift of analytical paradigm

Statistical Modeling

Machine Learning



Analysts Historical Data



Standard approach



Optimization of data requests

Al agents Current & Historical Data



Adaptive scoring models





Adaptive strategies

Scoring Modeling

Behavior Characteristic

Statistical Models

Independent Variables

Raw Data









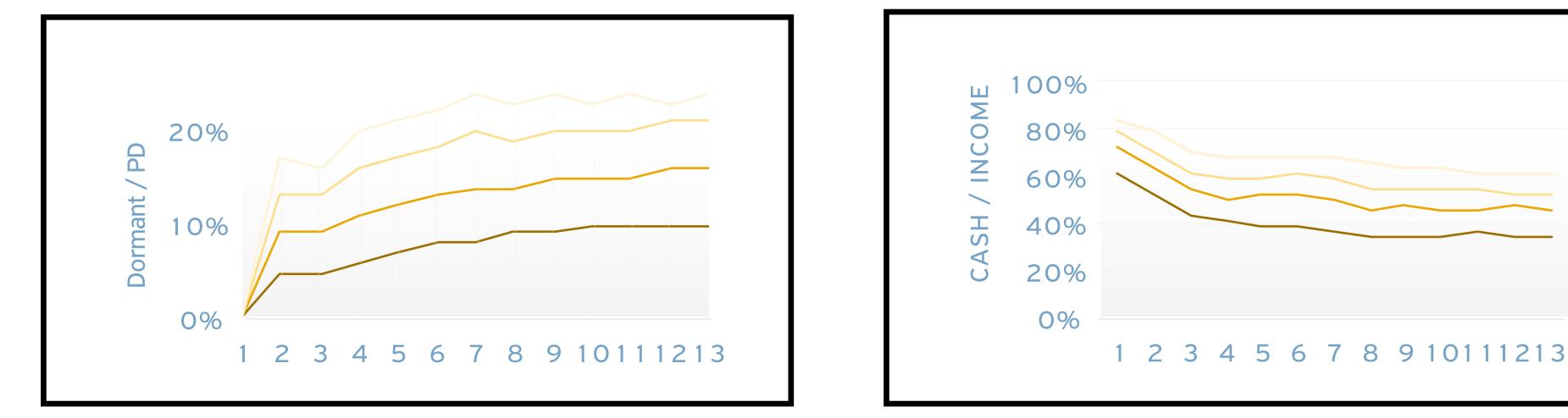
NPV modeling

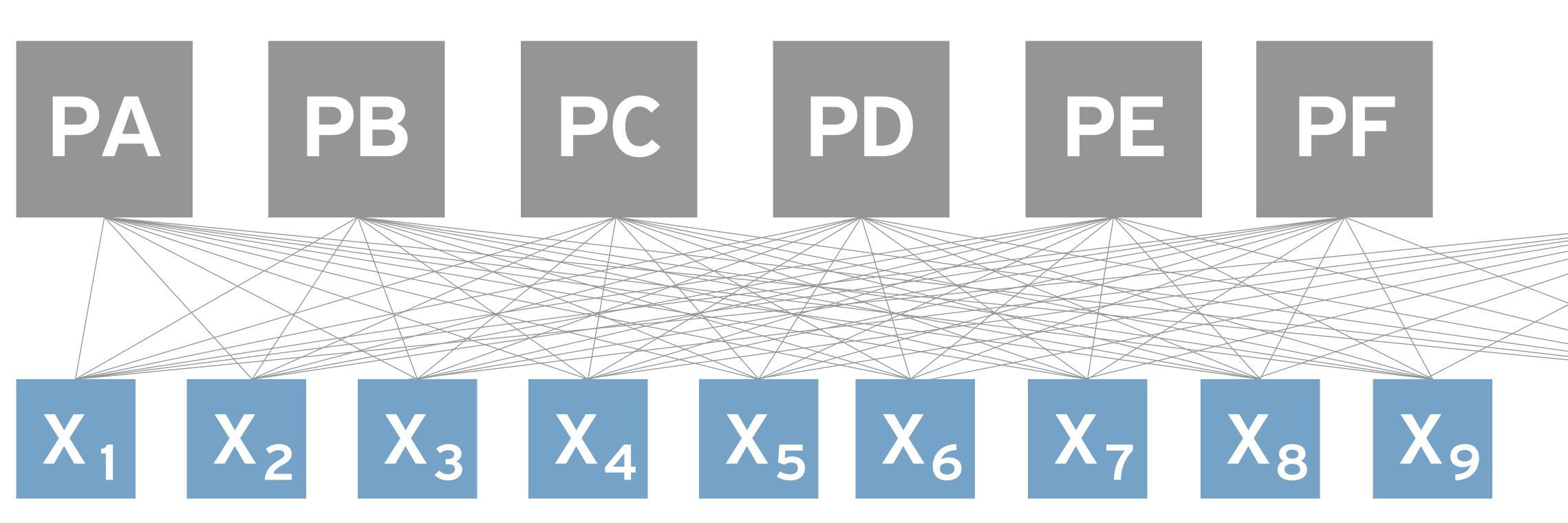
Decision

Business Models

Behavior Forecasts

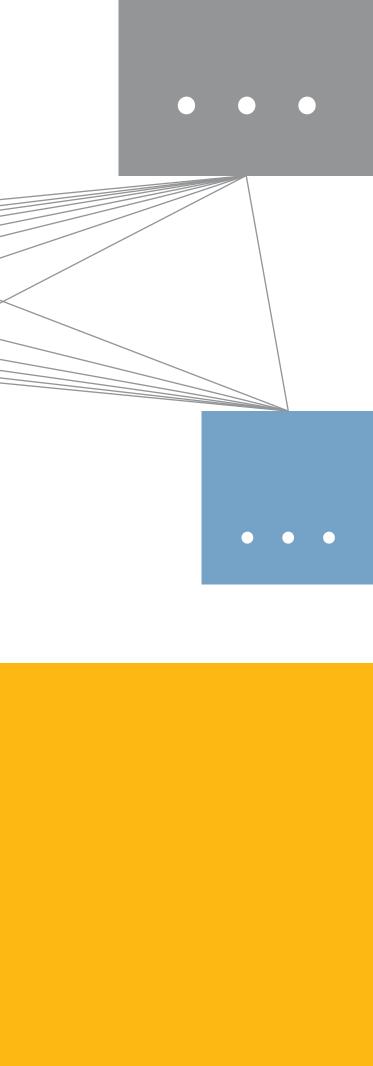
Independent Variables





Historical Sample







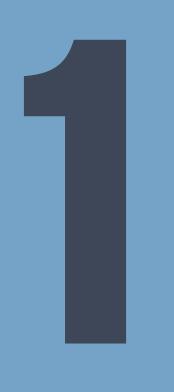
Double shift of analytical paradigm

Statistical Modeling

Machine Learning



Analysts Historical Data



Standard approach



Optimization of data requests

Al agents Current & Historical Data



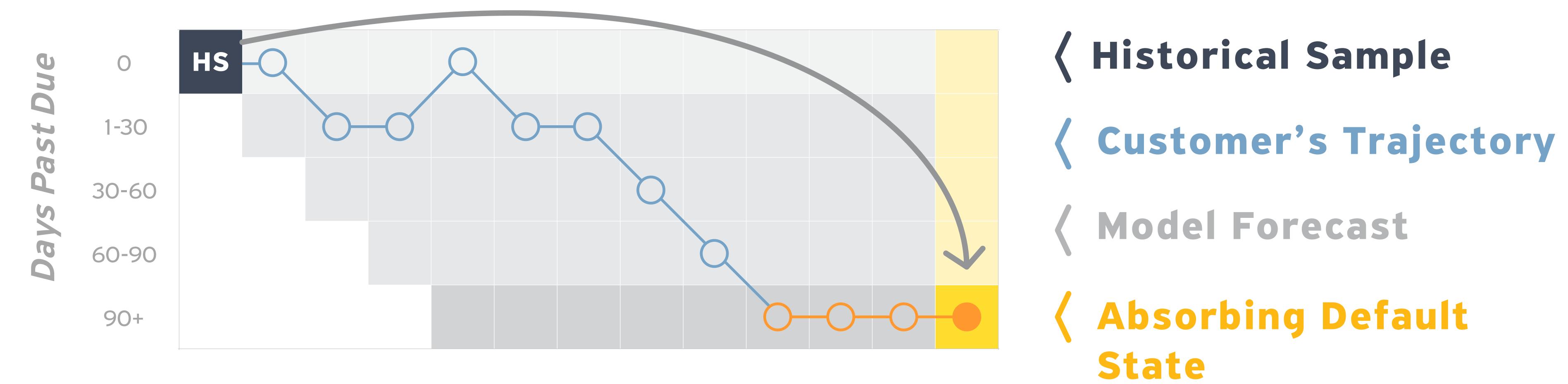
Adaptive scoring models

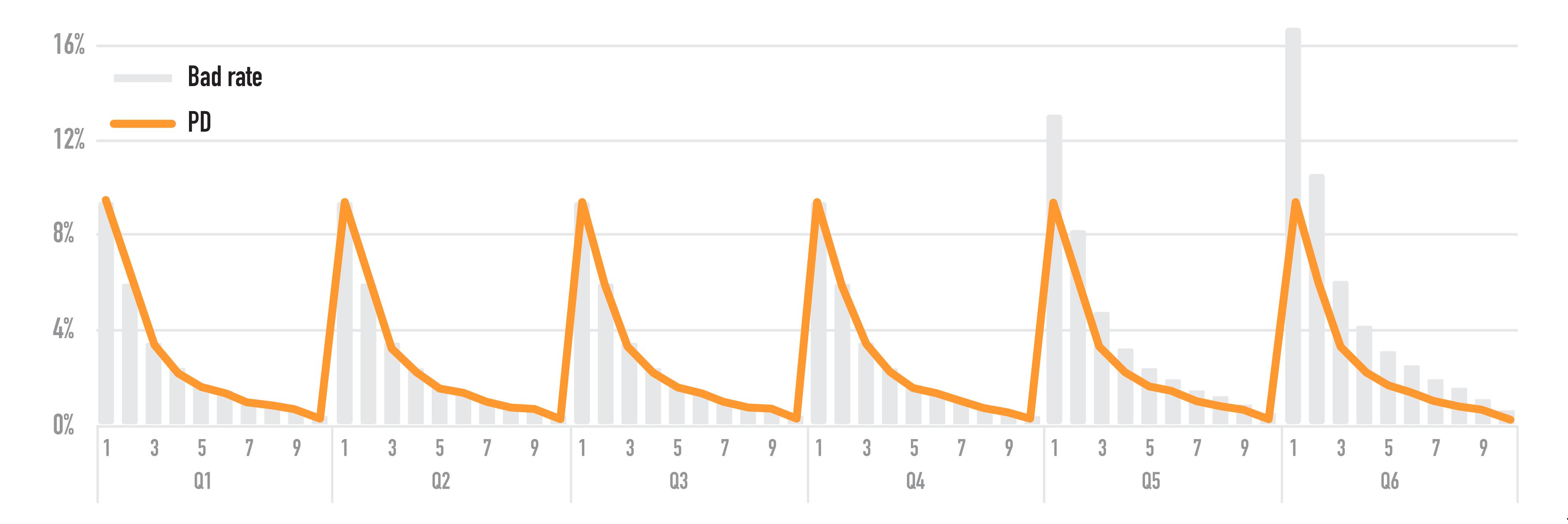




Adaptive strategies

Case #1: Adaptive scoring models

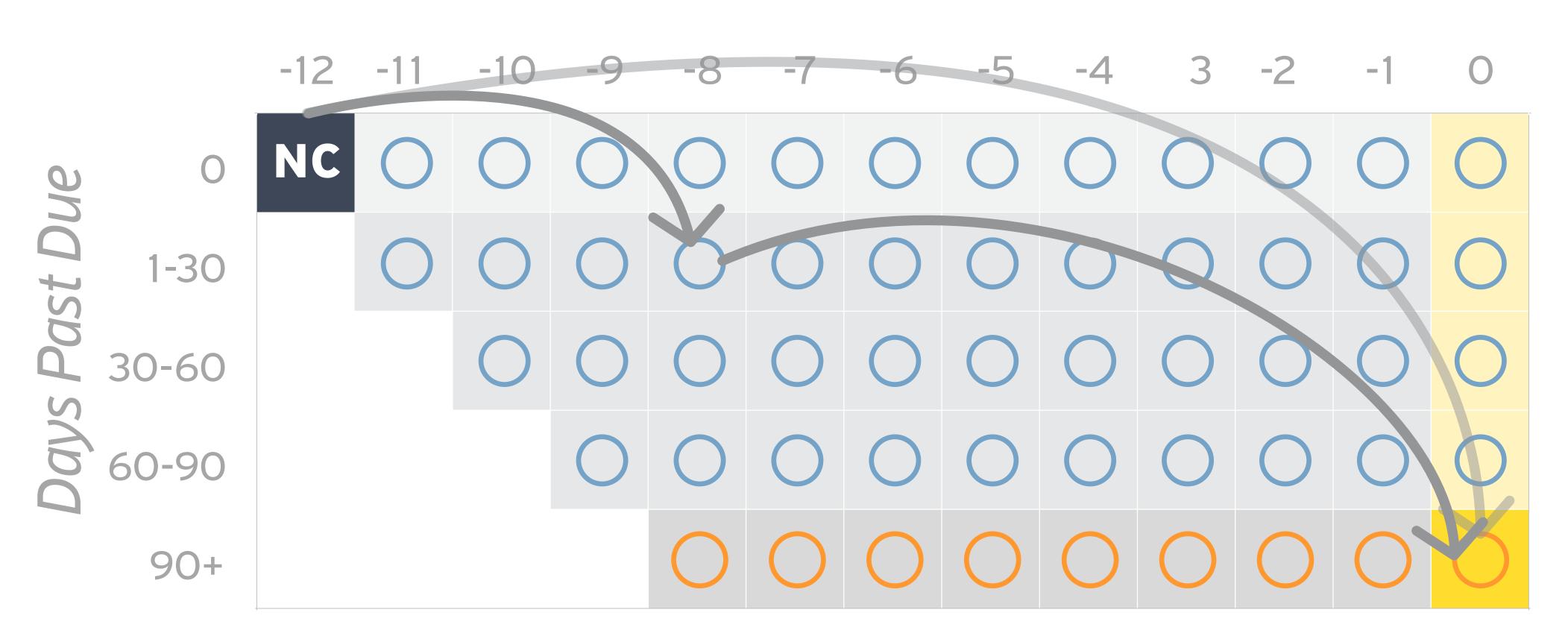


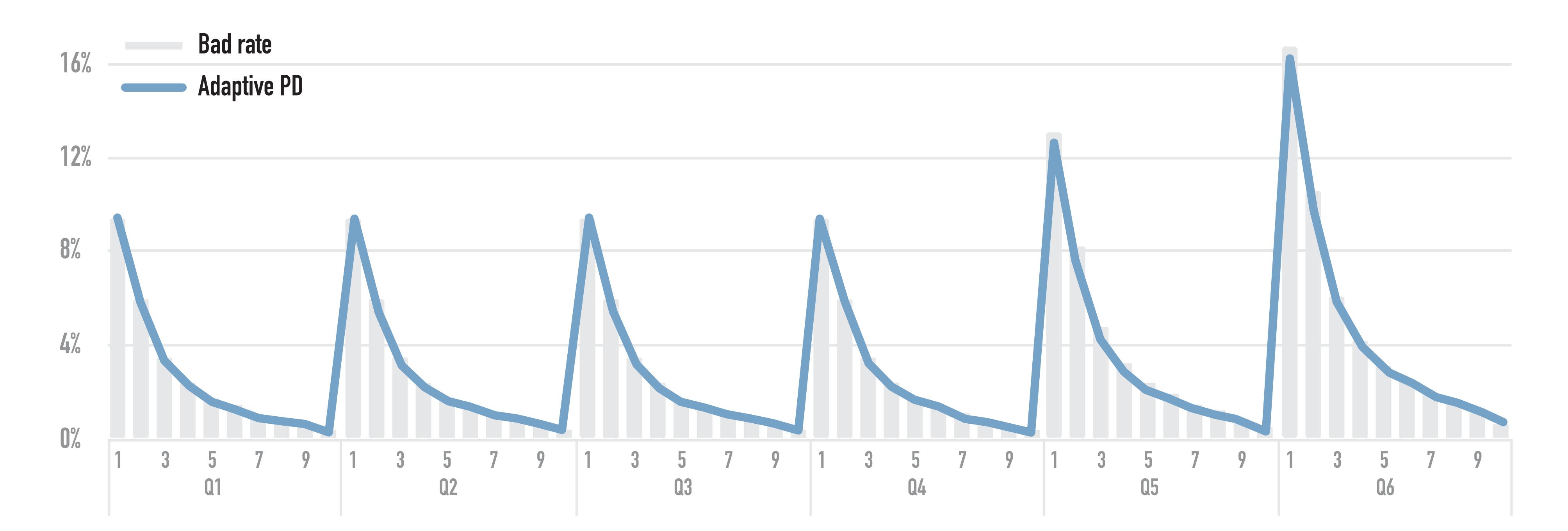


Months On Books



Case #1: Adaptive scoring models





Months On Books

New customers Early delinguencies Model Forecast Absorbing Default State





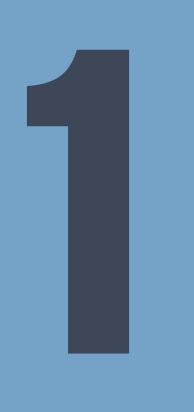
Double shift of analytical paradigm

Statistical Modeling

Machine Learning



Analysts Historical Data



Standard approach



Optimization of data requests

Al agents Current & Historical Data



Adaptive scoring models



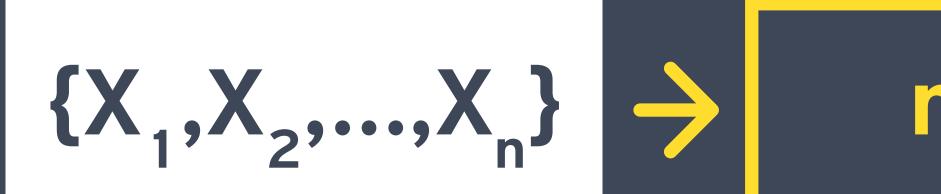


Adaptive strategies

Two analytical cultures

Statistical Modeling

- Linear regression
- Logistic regression



Model

- Interpretable
- Transparent

Parameters

• Means and variances are estimated from the data

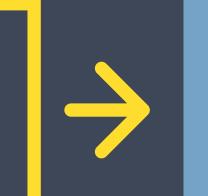
Model validation

Goodness-of-fit tests and residual examination

Problem types

- Long forecast horizon
- Through the cycle
- High cost of model failure

model





Machine Learning

Gradient boosting

Neural networks



Model

• Noninterpretable

• Opaque

Parameters

Means and variances are not determined

Model validation

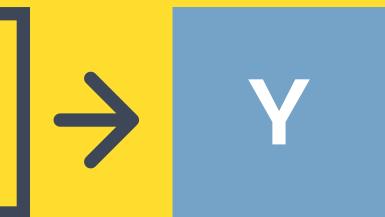
Measured only by model's predictive accuracy

Problem types

Short forecast horizon

Local trends

Low cost of model failure



algorithm

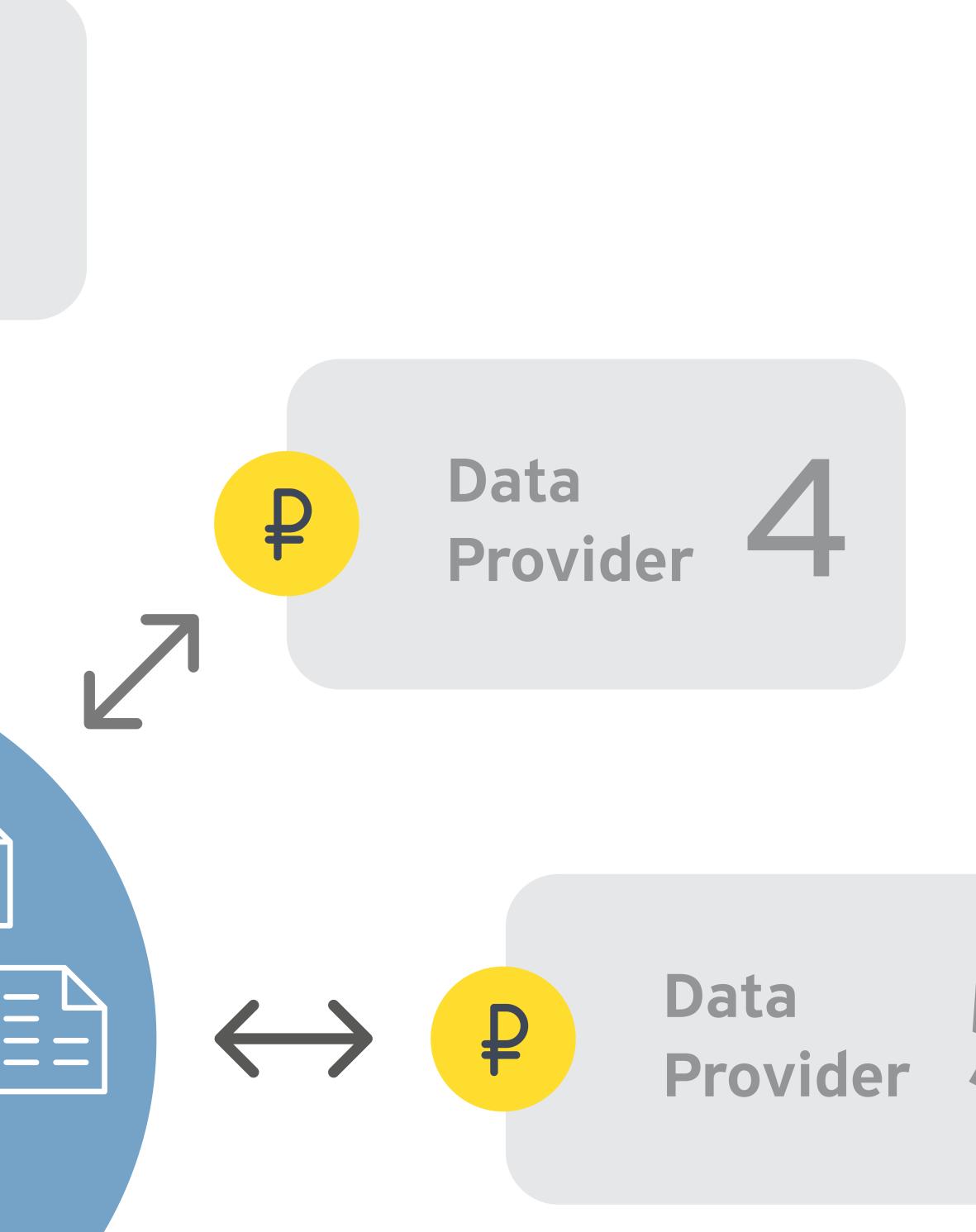


Data 3 Provider ₽ Data Data ₽ ₽ Provider Provider Data Provider Data ₽ ₽ Provider Ŧ

Case #2: Optimization of data acquisition What data to buy? Whom to call?









Call to all

Logistic regression



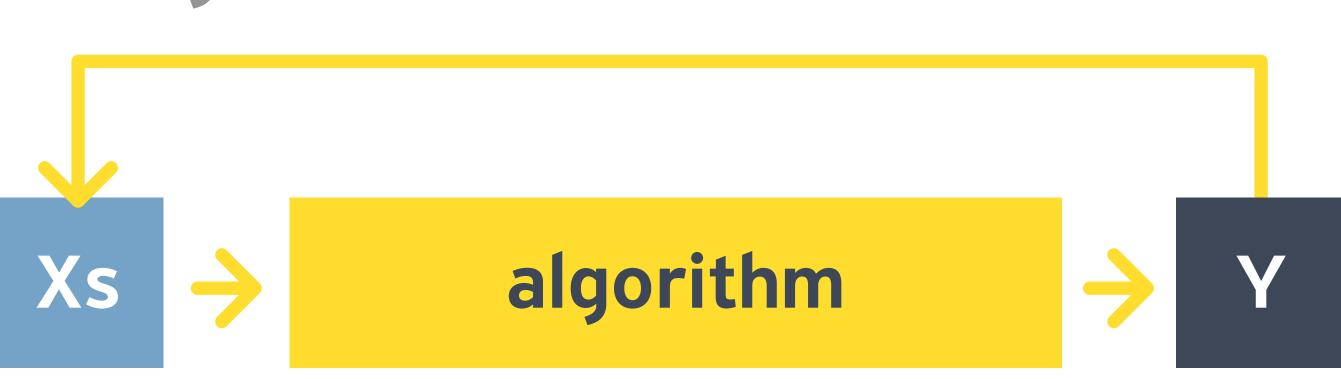
model

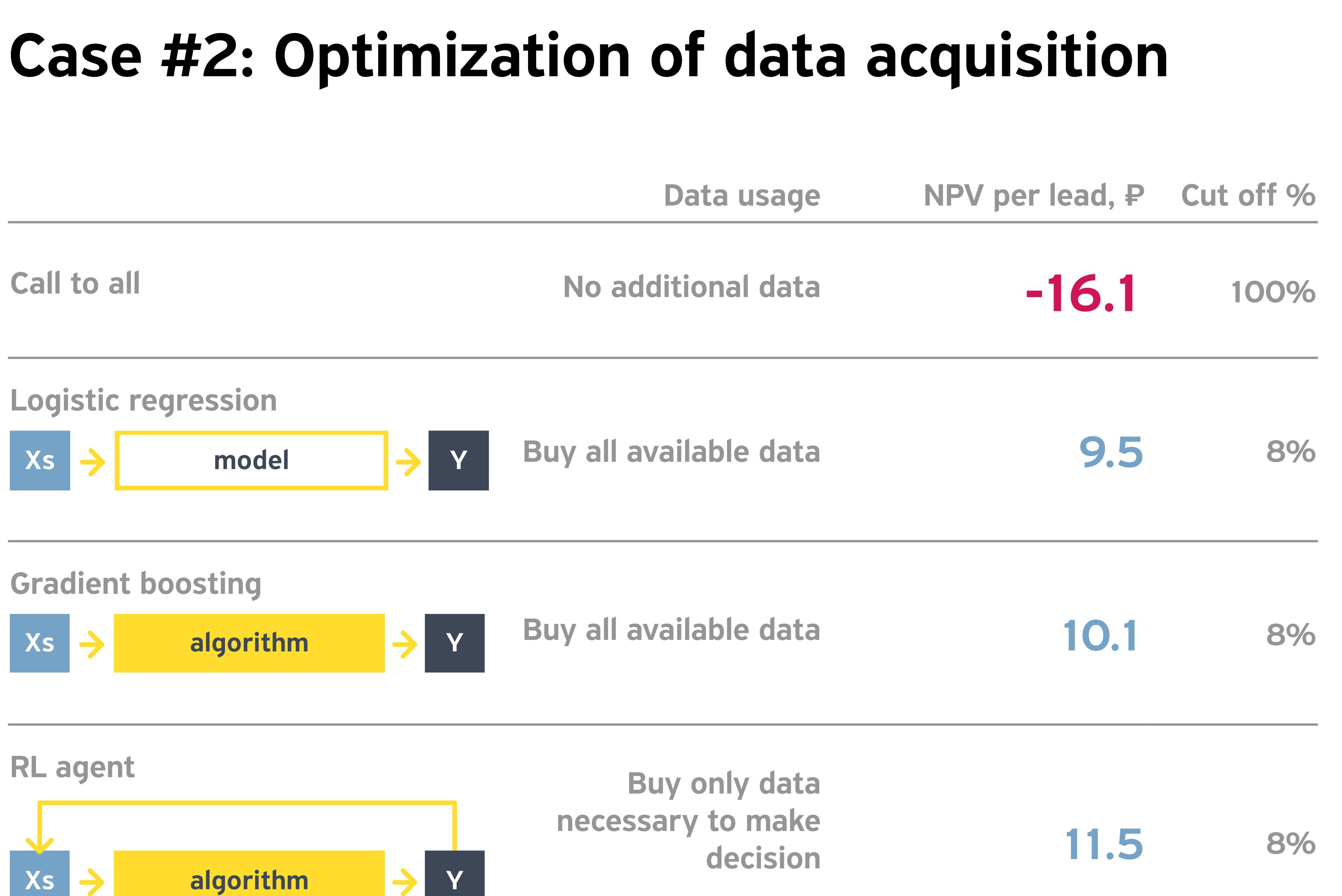
Gradient boosting

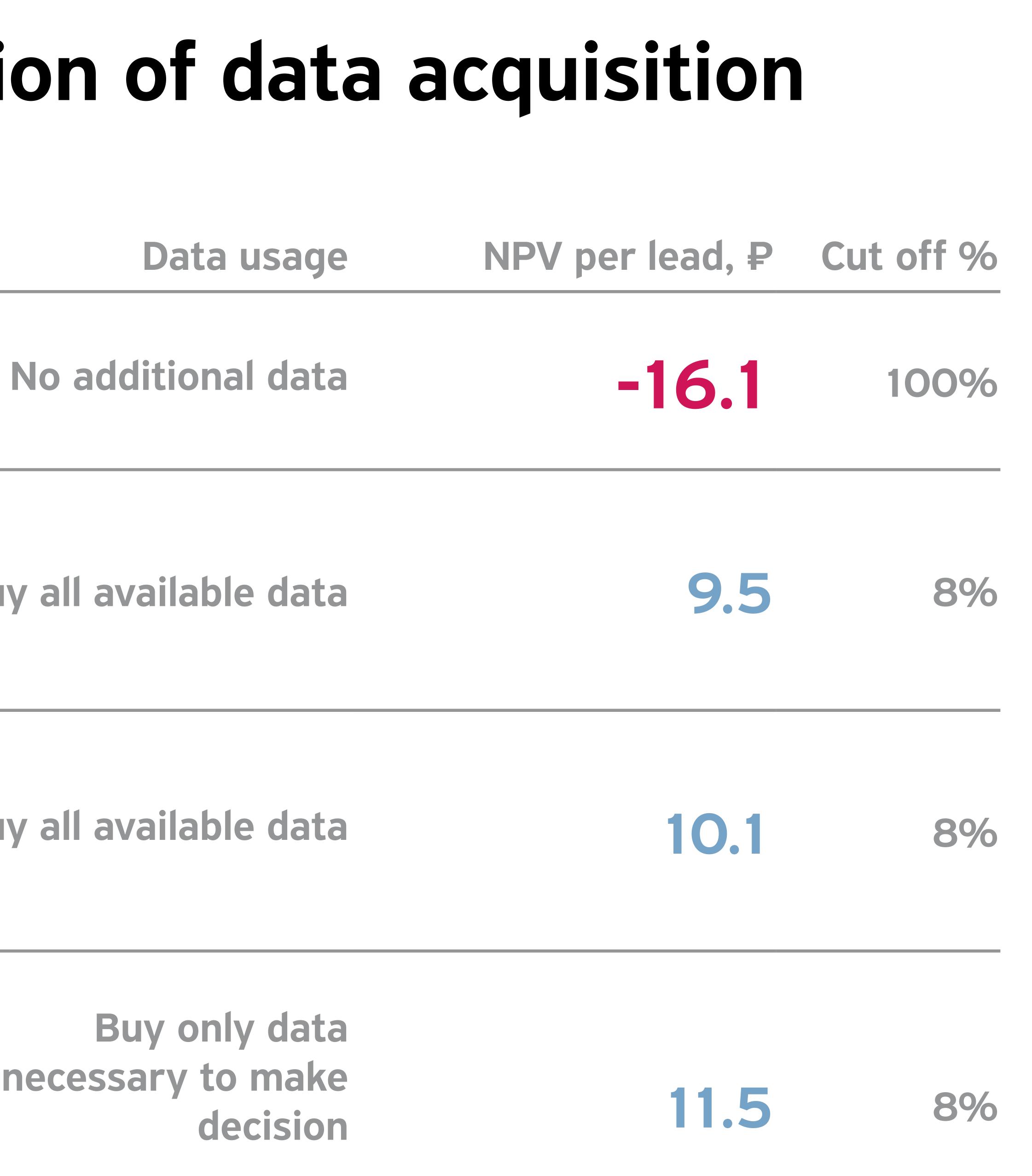


algorithm

RL agent







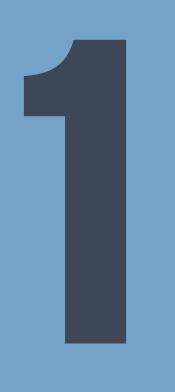
Double shift of analytical paradigm

Statistical Modeling

Machine Learning



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Standard approach



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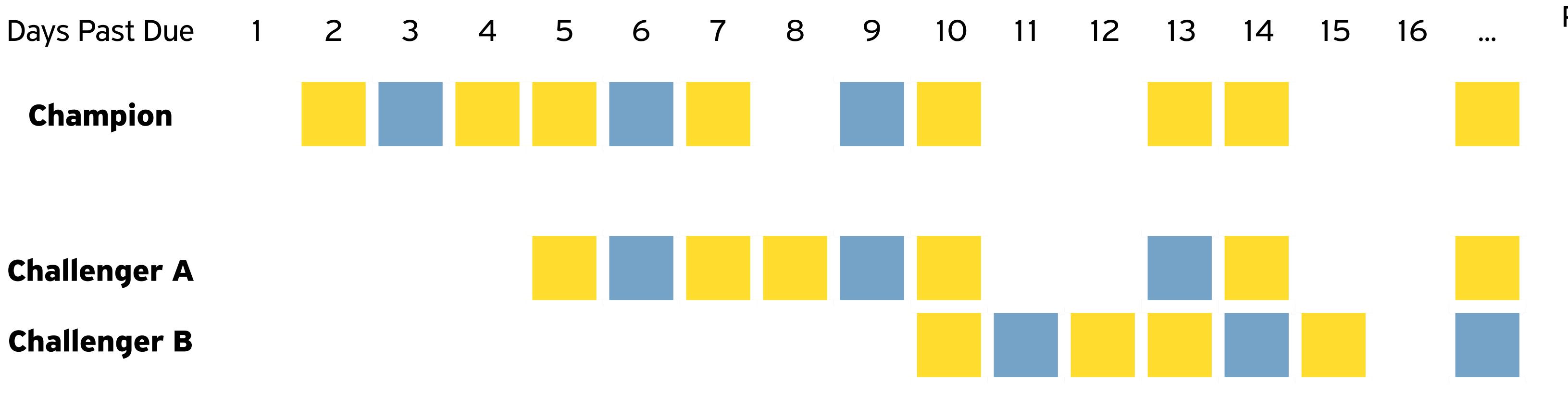
Adaptive scoring models





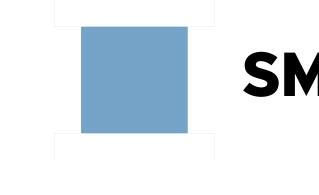


Case #3: A/B-testing of collection strategies

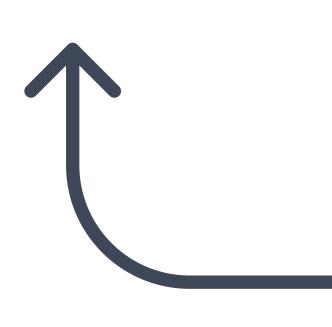








Strategy adjustment



SMS (\$)





Statistical analysis





Recovery less Cost 52%

53%

51%



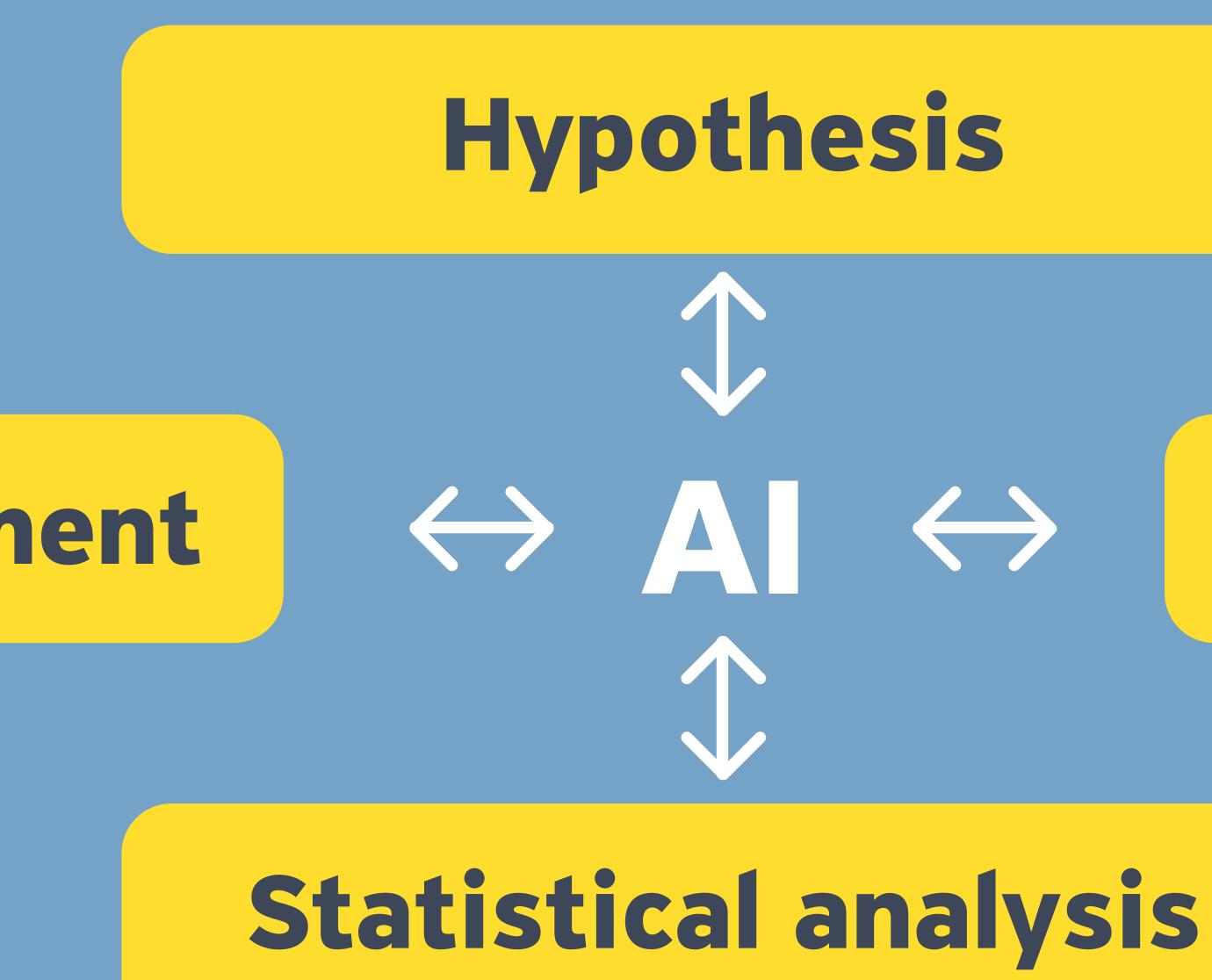


• Al uses reinforcement learning algorithm based on neural network

Strategy adjustment

Case #3: Al-based collection strategy

• Al creates	• On
and tests new	cho
strategies by	clie
design	ON
	be



n-line action oice for each ent based individual havior

 On-line strategy adjustment







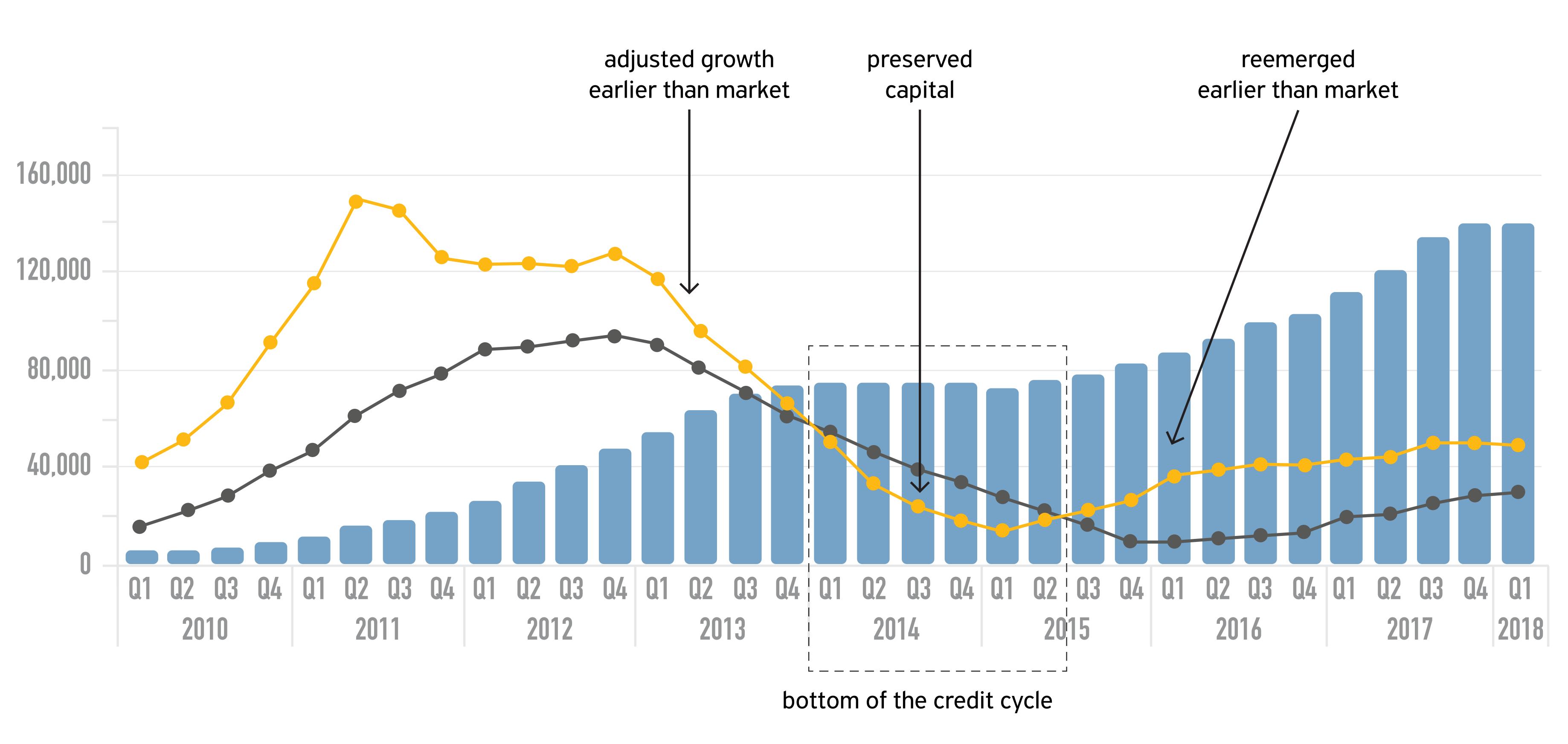
Statement of Financial Director



Chief Financial Officer



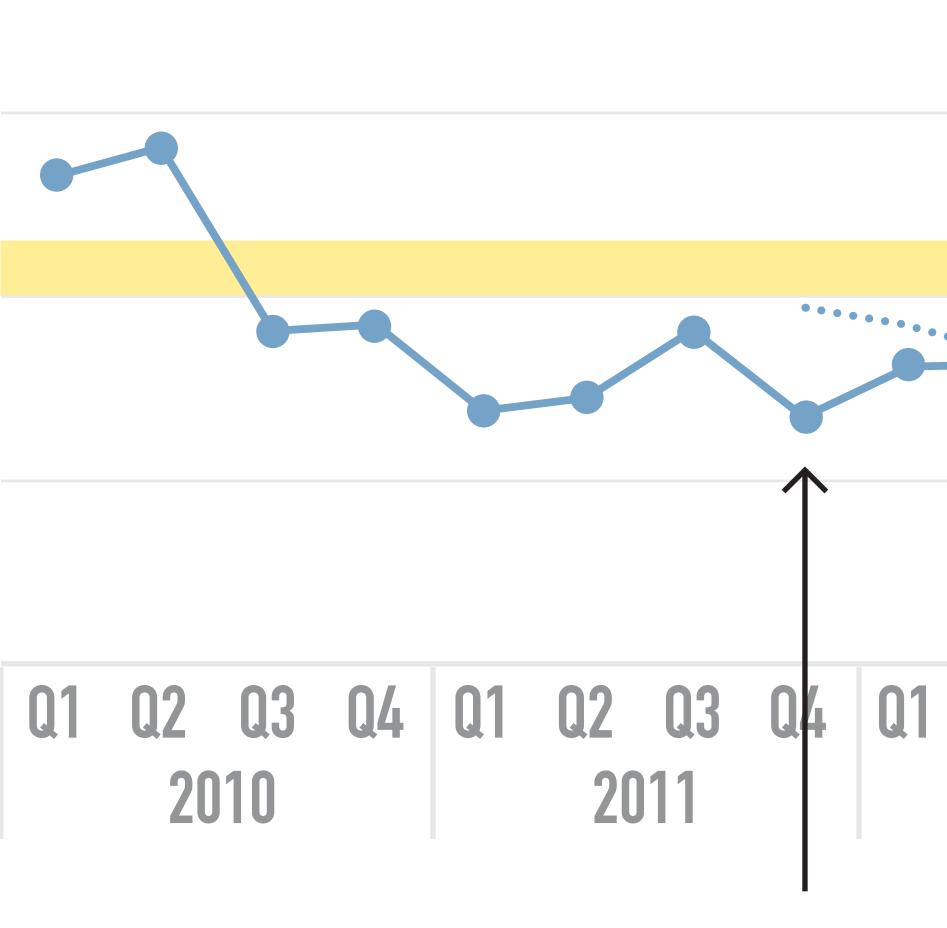
Credit portfolio: growth



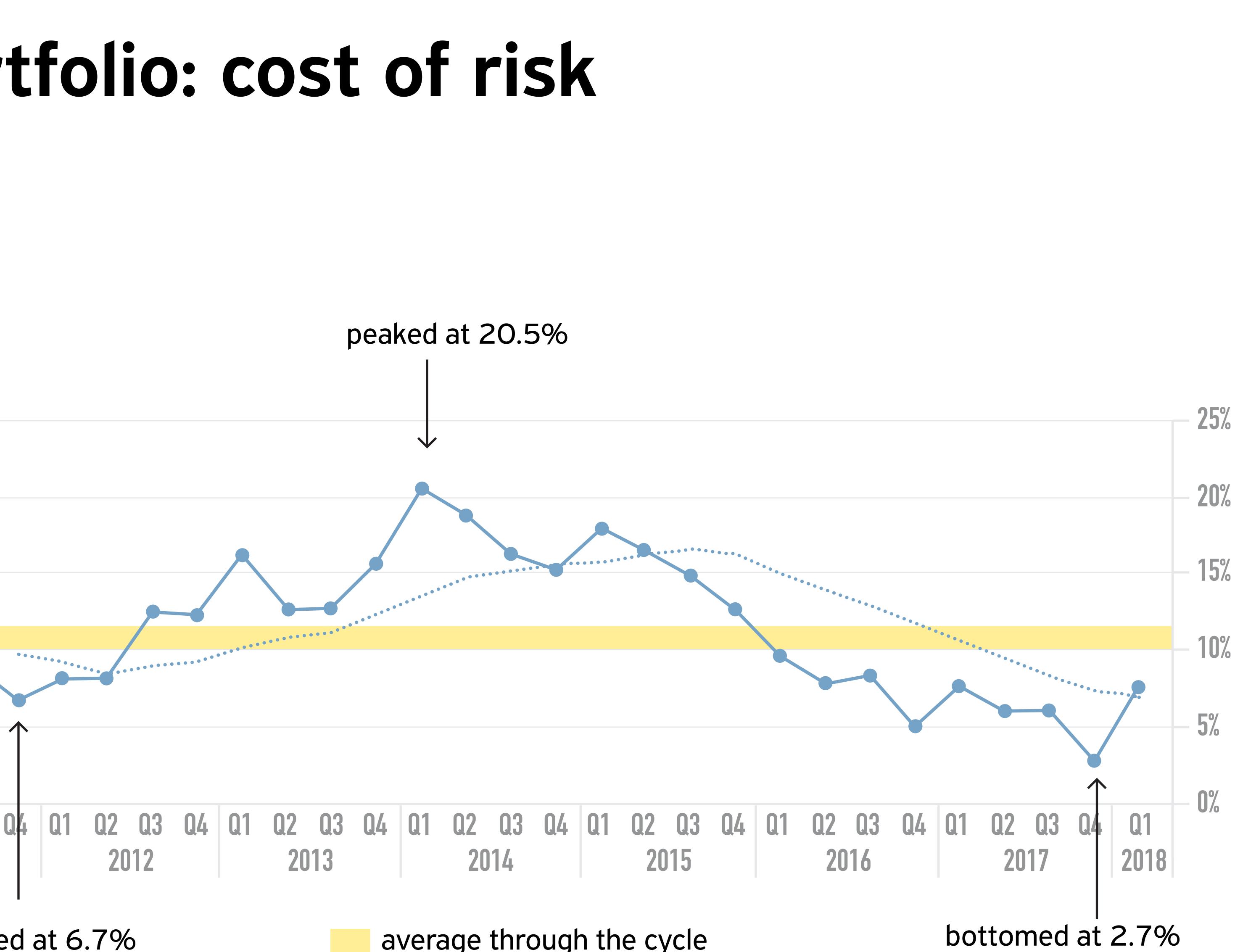
Loans and advances to retail customers LTM Tinkoff portfolio growth*, rs LTM market growth, rs **———**

140% 100% 60% 20% -20%

Credit portfolio: cost of risk



bottomed at 6.7%

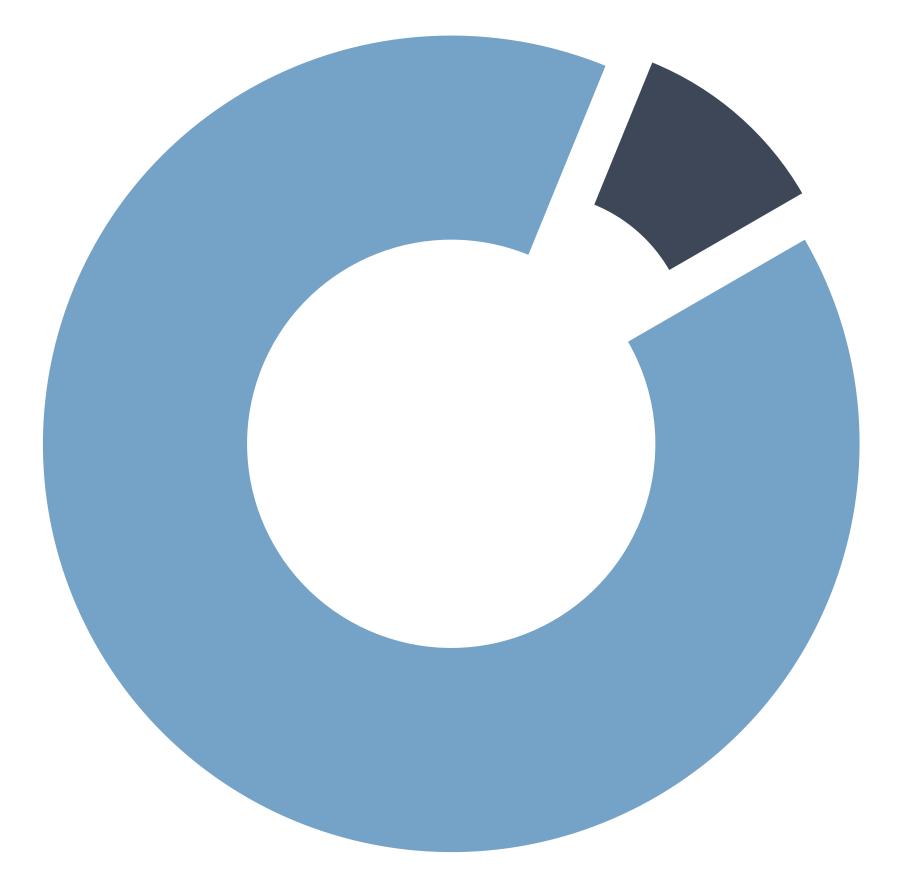


average through the cycle



Credit portfolio: composition

Credit cards Cash & POS loans 10.5% 89.5%



Currently we test two types of collateral loans:

Car loans: Average size: ₽620k Term: 1-5 years Rate: 16-23%

Home equity loans:

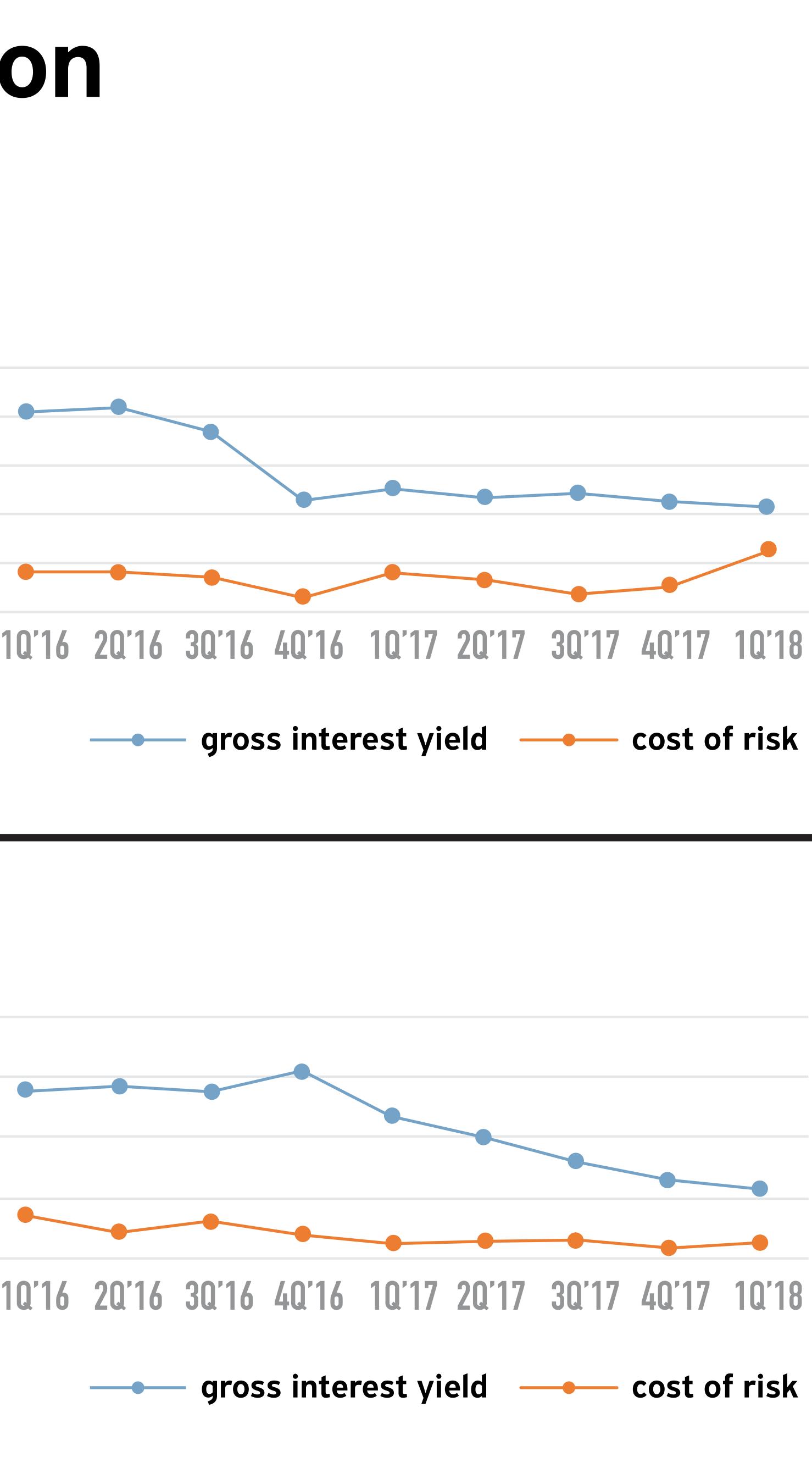
Size: up to ₽10mn Term: up to 10 years Rate: 10-15%

Cash loans

- Average size: ₽220k
- Term: up to 3 years
- Rate: 12-23.9%

POS loans

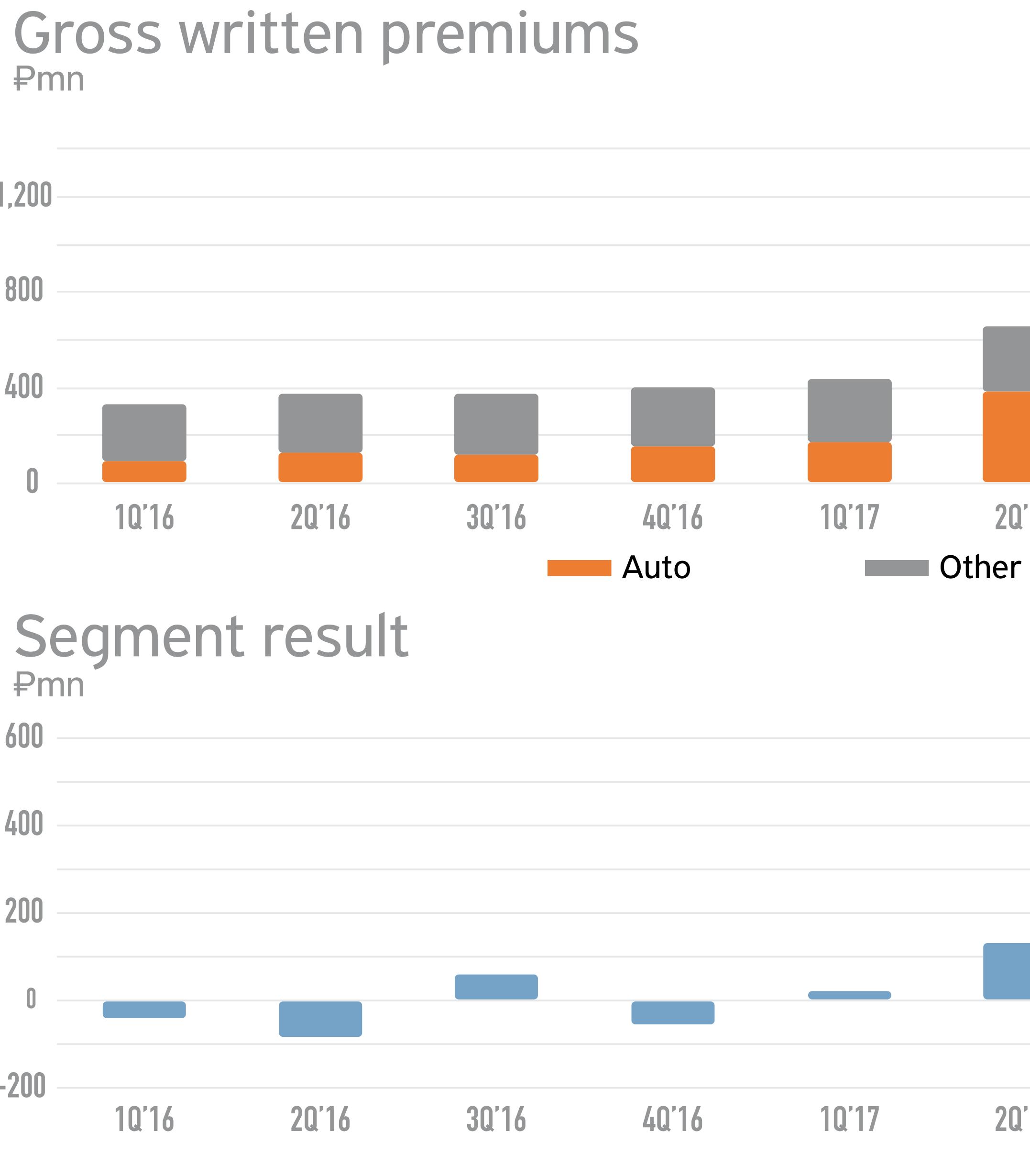
- Average size: ₽26k
- Term: up to 2 years
- Rate: 6.7-25%

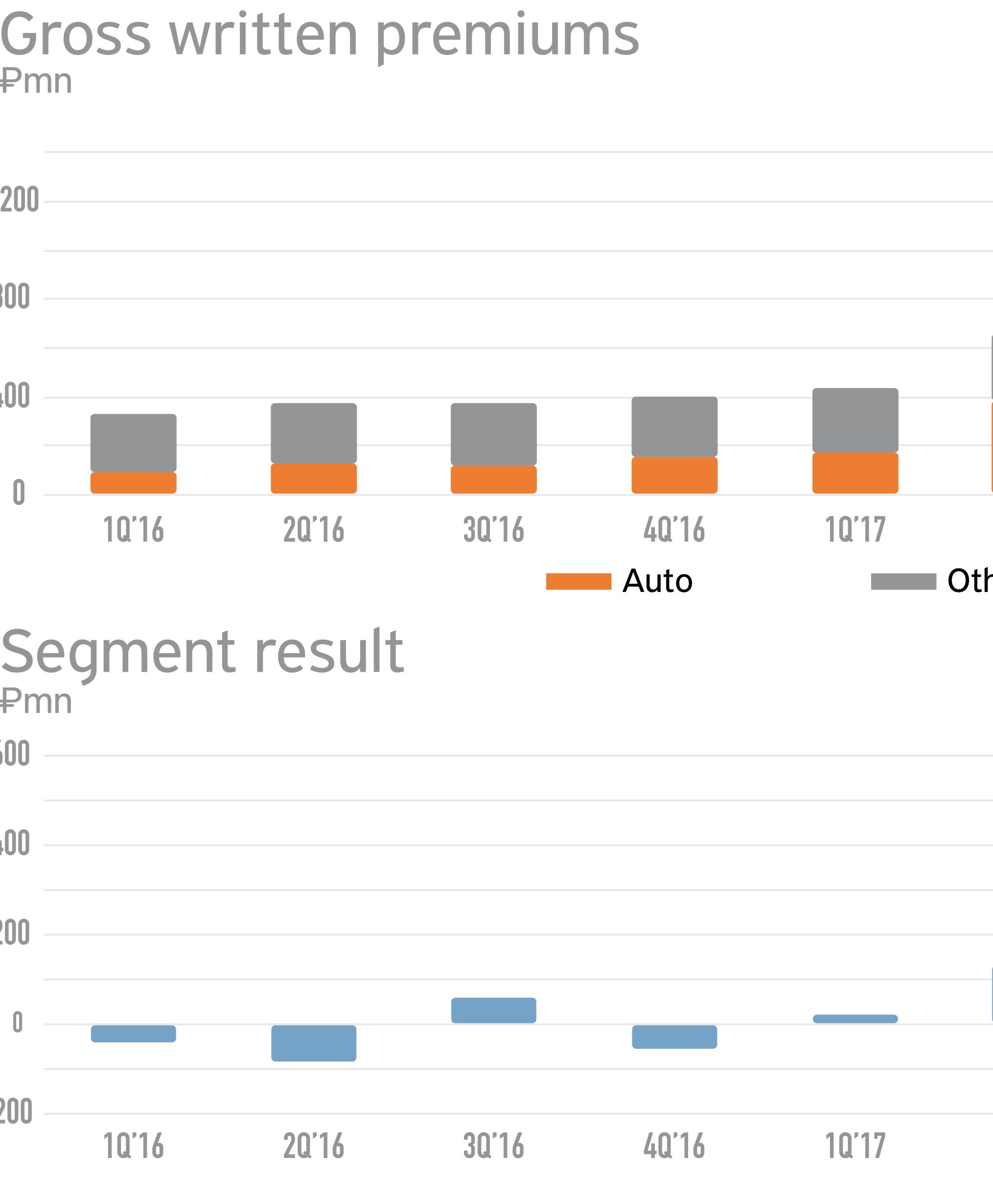


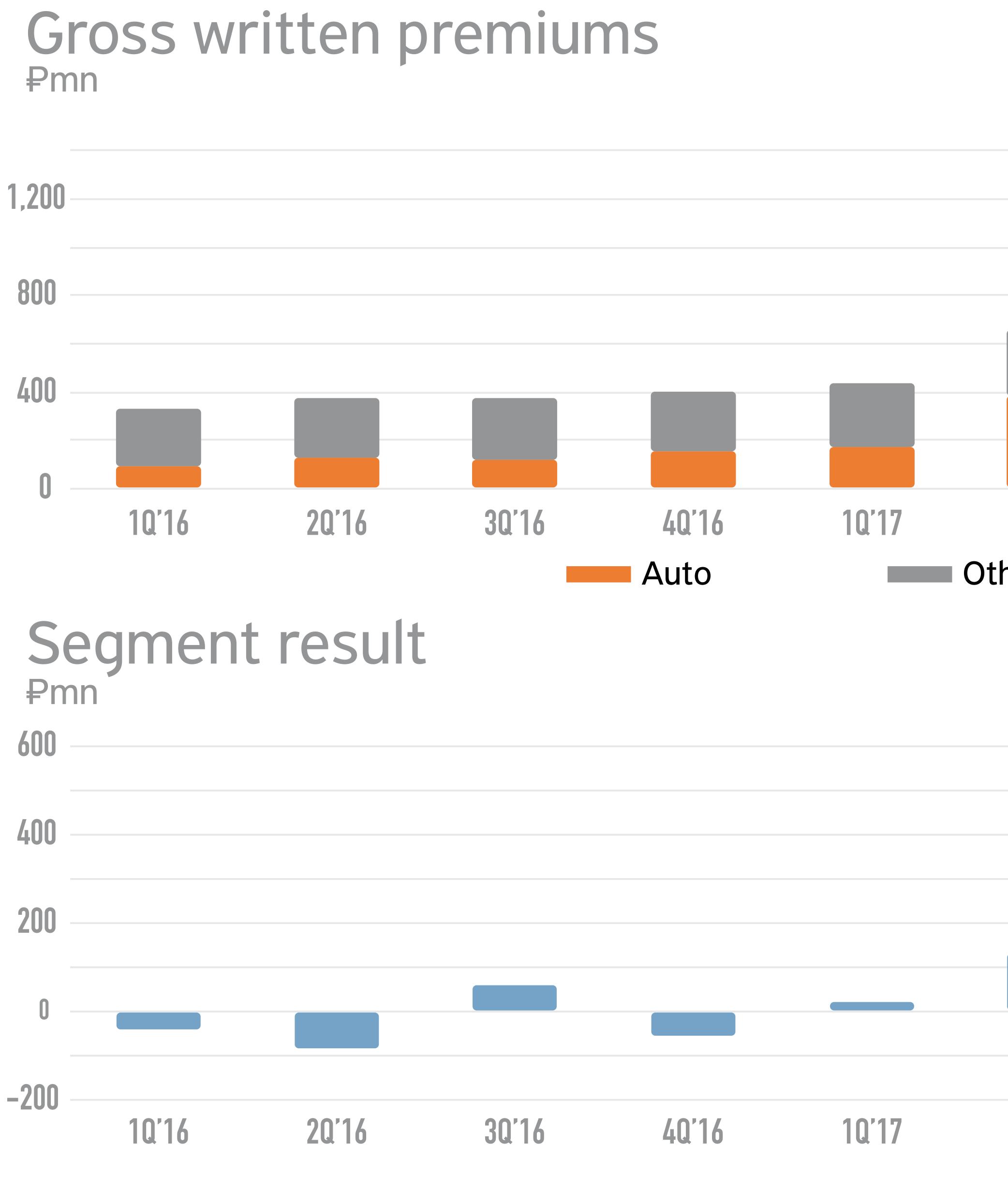
80% 60% 40% 20% 0%

50% 40% 30% 20% 10% 0%

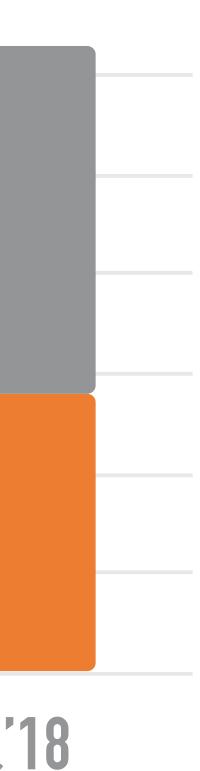
Insurance

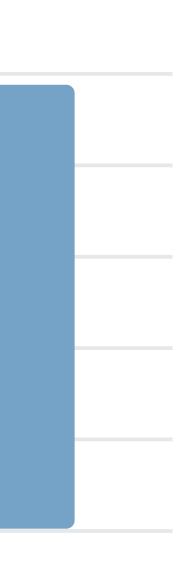






2Q'17	3Q'17	4Q'17	10″

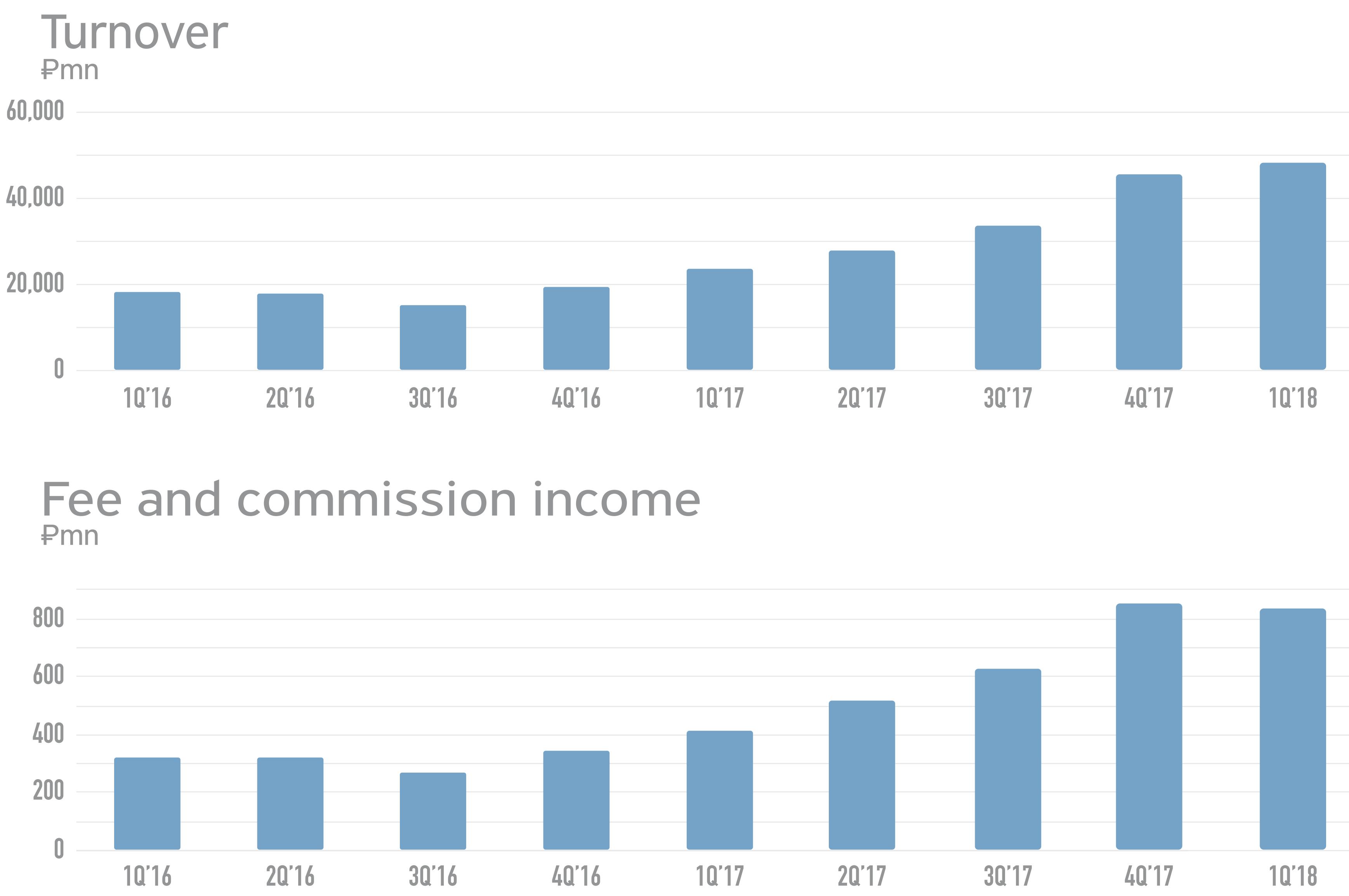








On-line acquiring





FY2018 GUIDANCE

25%+ Net loan portfolio growth 7% area Cost of risk 6-7% Cost of borrowing **P24bn+** Net income

2018 - 2019ANBITIONS

- We believe that our Net Income has growth potential of 20-40% per year for the next two years
- We see a contribution from new (noncredit card) Business Lines of **P** 6-10 bn by end of 2019
- This would account for around 30% of the Group's Net Income by end of 2019
- These non-credit revenue generating businesses should help us to reduce earnings volatility through the credit cycle



Tinkoff Investor Relations Larisa Chernysheva ir@tinkoff.ru

Tinkoff.ru

We welcome feedback on the non-financial, CSR and diversity information we publish. Please use this address to contact us on this: stakeholderengagement@tcsgh.com.cy

