

DR. STRAUSS & PARTNERS MANAGEMENT CONSULTING

Banks in Bulgaria – Sector review 2024

Comprehensive analysis of 15 BG banks – highlights,
key trends & challenges, and benchmark findings

August 2024

*Study excerpt – key
results and interesting
findings*

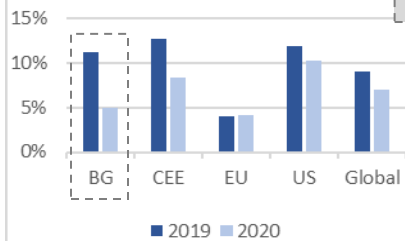
Agenda

- I. **Benchmarking results and contextualization**
- II. Profit and efficiency KPIs
- III. Key challenges and response options of Bulgarian banks

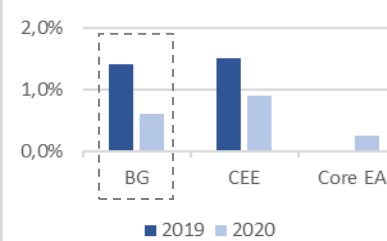
Bulgarian banking sector in a broader context (Global / EU / CEE)

Banking Sector: Profitability, Efficiency, and Risk

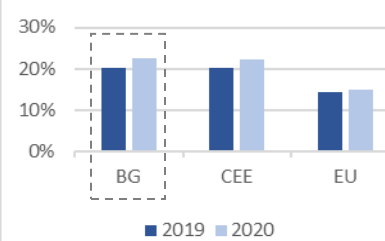
Return on Equity (RoE)



Return on Assets (RoA)

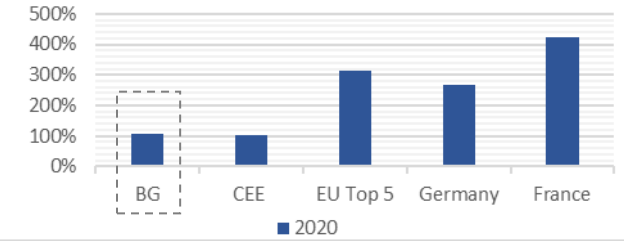


Capital Adequacy Ratio (CAR)

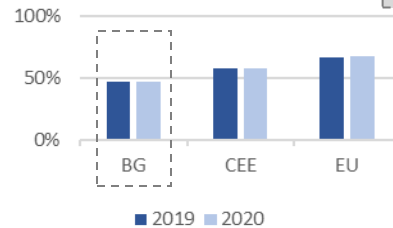


Banking sector: Concentration measures

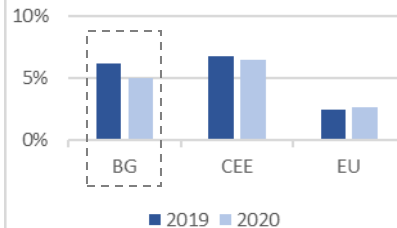
Size of Banking Sector (Assets / GDP)



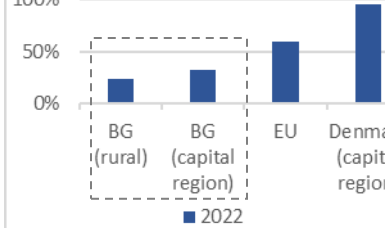
Cost/Income-Ratio (CIR)



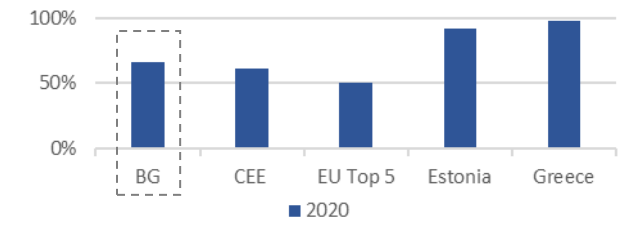
Non-Performing loans (NPL)



Online Banking penetration



Top 5 Banks concentration (assets / all assets)



- BG banking system **generally in good shape** compared to EU, CEE and global competition (based on 2019 / 2020 data – assuming stable relations over time)
- **Mixed profitability results:** slightly below average (CEE), yet better than EU & US; **overall good capital strength**, and **more efficient** than competitors
- However, **Bulgarian banking sector shows some significant variances** the different players

- **Size of BG banking sector in lower third** – leaves room for growth in line with GDP as key driver
- **BG banking sector moderately concentrated** in comparison (2020: top 5 banks: 66% of assets) – also leaves room for further concentration

Sector review (“Benchmarking”) result: Ranking of Bulgarian banks

| Ranking | | | | | | | | |
|----------------|-------------------|------------------------|----------------------------|--------------------|------------------------------------|--------------------------|----------------------|---------------|
| Fastest Growth | | Highest Profitability | | Highest Efficiency | | Avg. Rating (1 = top) | Ranking (1 = top) | Banks |
| Asset growth | Net profit growth | Avg. Net Profit Margin | Avg. Return on avg. Assets | CIR | Avg. Ratio Ops Exp. / Total Assets | | | |
| 4 | 8 | 2 | 2 | 2 | 6 | 4,0 | 1 | DSK |
| 6 | 4 | 3 | 6 | 3 | 4 | 4,3 | 2 | BACB |
| 11 | 11 | 1 | 4 | 1 | 1 | 4,8 | 3 | UniCredit |
| 9 | 6 | 4 | 9 | 5 | 2 | 5,8 | 4 | Intl Ass Bank |
| 3 | 12 | 8 | 5 | 4 | 7 | 6,5 | 5 | Postbank |
| 2 | 7 | 7 | 13 | 8 | 3 | 6,7 | 6 | UBB |
| 7 | 1 | 9 | 3 | 7 | 13 | 6,7 | 6 | D Commerce |
| 1 | 5 | 14 | 1 | 9 | 15 | 7,5 | 8 | TBI |
| 5 | 10 | 5 | 7 | 12 | 10 | 8,2 | 9 | ProCredit |
| 14 | 13 | 6 | 8 | 10 | 5 | 9,3 | 10 | Allianz |
| 12 | - | 10 | 10 | 11 | 8 | 10,2 | 11 | Investbank |
| 10 | 3 | 11 | 14 | 14 | 11 | 10,5 | 12 | Municipal |
| 15 | 14 | 13 | 11 | 6 | 9 | 11,3 | 13 | FI |
| 8 | 2 | 15 | 15 | 15 | 14 | 11,5 | 14 | Texim |
| 13 | 9 | 12 | 12 | 13 | 12 | 11,8 | 15 | CCB |

Key findings

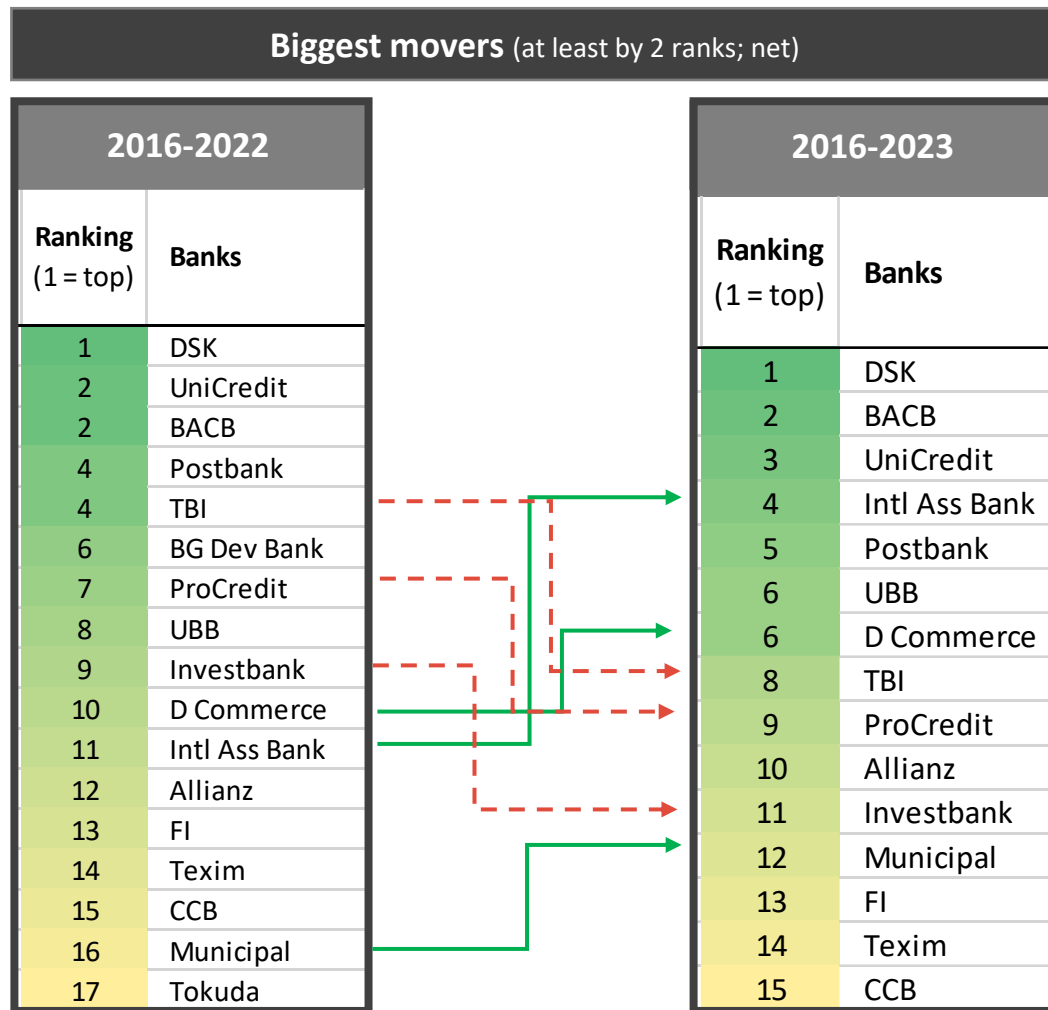
- 4 of 5 largest banks in Top 6 – underpinning obvious strengths through size, client focus, internationality, and ownership factors
- DSK and BACB never top a single ranking but very good overall classification (1 & 2)
- UniCredit with 3 and “challenger” bank TBI with 2 “best-in class” rankings
- Small and medium sized banks with focus on corporate business find themselves in lower tiers of ranking
- Low growth (asset & profits) can be seen as one of the key drivers for lower rankings
- Up to 2 lower rankings can be overcompensated by other rankings being top notch

Comprehensive metrics & stable results: Using a long duration (2016-2023: 7 years) and applying long-term averages with averaged data to smoothen indicators supports **solid and meaningful results**

Note: Following banks have different calculation periods due to availability of annual report figures: ProCredit 2019-2023, TBI 2018-2023, Texim 2018-2023. In case of averages, calculation periods are reduced by another year. This might have an effect on the calculated (average) rates and growth rates and needs to be taken into consideration in evaluating the results.

Best-in class

BG Banks: Comparison of long-term rankings and biggest movers



Very favorable economic and interest-rate scenario had two-fold impact on various banks – for the better as well as for the worse:

- Top performers 2016-22 generally kept top spots
- 3 mid-size universal banks (D Comm, Intern. Ass. Bank, Municipal) increased positions – reasons being:
 - D Commerce: Combination of huge increase of return on asset (interest rate increase), coupled with cost discipline
 - IAB: Net profit growth & margin significantly increased coupled with CIR reduction
 - Municipal: Lost net profit growth momentum but increased in all other KPIs (growth, profit, and efficiency)
- 3 mid-sized banks lost ground – partially significantly:
 - ProCredit (-2 ranks): Efficiency decrease due to high costs overcompensates (still) very strong profit and growth elements
 - Investbank (-3 ranks): Very strong asset growth & good cost discipline; profit element not a factor for increased ranking
 - TBI (-3 ranks): Cost increase overproportional vs. growth and especially revenue: efficiency issues combined with plateauing revenue increase drags numbers and ranking down

Note: Tokuda (as acquisition by BACB announced in 2024) and BDB (as significantly different and thus almost incomparable business model) have been taken out of benchmarking, thus reducing number of analyzed banks from 17 to 15

Business elements & ranking: Is there a “winning formula”?

| Rank | Name | Tercile | Business characteristics | | | | | |
|------|-----------|---------|-------------------------------|-------------------|-----------|------------------------------|----------------|-------------------------|
| | | | Size ¹ (Assets) | Growth metrics | Bank type | Client focus ² | Owner- ship | Specialty / other |
| 1 | DSK | Top | Super large | | Universal | Retail | Foreign | |
| 2 | BACB | | Medium | | Universal | | | |
| 3 | UniCredit | | Super large | | Universal | | Foreign | |
| 4 | IAB | | Medium | | Universal | | | |
| 5 | Postbank | | Large | Acquis. | Universal | Retail | Foreign | |
| 6 | UBB | Middle | Super large | Acquis. | Universal | Retail | Foreign | |
| 7 | D Comm | | Medium | | Universal | | | |
| 8 | TBI | | Medium | | Universal | Retail | Foreign | Challenger ³ |
| 9 | ProCredit | | Medium | | SME | | Foreign | |
| 10 | Allianz | | Medium | | Universal | Retail | Foreign | |
| 11 | Investb. | Low | Medium | | Universal | | | |
| 12 | Municipal | | Medium | | Universal | | | |
| 13 | FI | | Large | | Universal | | | |
| 14 | Texim | | Small | | Universal | | | |
| 15 | CCB | | Large | | Universal | Retail | | |

| Business charact. | Hypotheses (potential explanations) for ranking results |
|-------------------|--|
| Size (Assets) | (+) Economies of scale by distributing fixed costs by larger base |
| | (+) Better distribution of revenues streams and/or portfolio risks |
| | (+) Broader & deeper offering for more & different client groups |
| Growth metrics | (-) Higher complexity and alignment effort, potentially higher costs |
| | (+) Additional inorganic growth via acquisitions support positive size effects – if integration is properly managed and executed |
| Bank type | (+) Universal: Large offering for wide variety of clients (Retail, SME, large corporates; potentially public clients); able to serve vast amount of client needs and thus ability to attract new customers |
| | (-) Universal: Potential reduction in focus and ability to concentrate on relevant, profitable products & services |
| | (+) Niche: Capitalize on focused business model and apply strengths to selected clients / offering in order to provide superior services, delivering higher margins |
| Client focus | (+) Wider focus supports (revenue & risk) diversification |
| | (+) More narrow, “niche” might support capitalization on potential higher margin business (e.g. interest margins: retail > corporate) |
| Ownership | (+) Potential benefits from ties to large, international groups in terms of capital, network, knowledge, systems, risk approach etc |
| | (-) Potential drawback from local ownership in terms of capital supply knowledge and potential networks; better market insights |
| Specialty / other | (+) “Challenger”: Approach of rethinking banking business model; applying “green-field”-type approach; clear focus on strengths |
| | (+) Development Bank: Focus on specific business model (clients, offering) in order to apply USP and benefits from market metrics |

Key findings

- **Mixed results** regarding key elements of BG banks
- **Top cluster** largely comprised of **(super) large**, retail-focused, foreign-owned banks
- Medium cluster mostly medium-sized, universal banks, corporate-client focus
- Third cluster mostly smaller, corporate-focused banks
- As vast majority of players are “universal” banks; differentiation power of this attribute rather limited
- ➔ Elements of a **“winning formula”** seem to be:
 - large size (incl. inorganic growth)
 - large part of retail clients
- **2022 → 2023: Foreign ownership & niche approach seem to be less of a positive force**

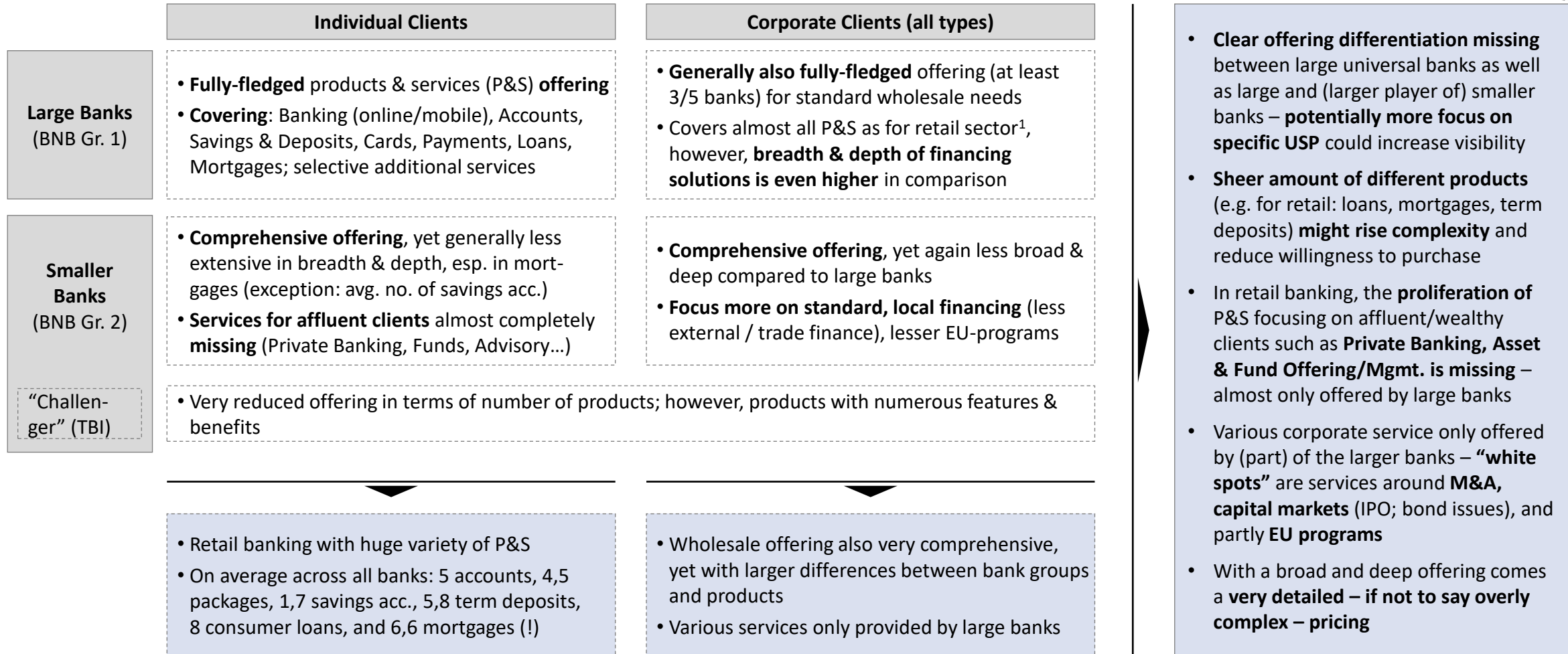
1 Size brackets: Super large (> 20bn), Large (5-20bn), Medium (1.5-5bn), small (< 1.5bn)

2 based on share of retail resp. individual loans (as of 2023)

3 Bank's self-description

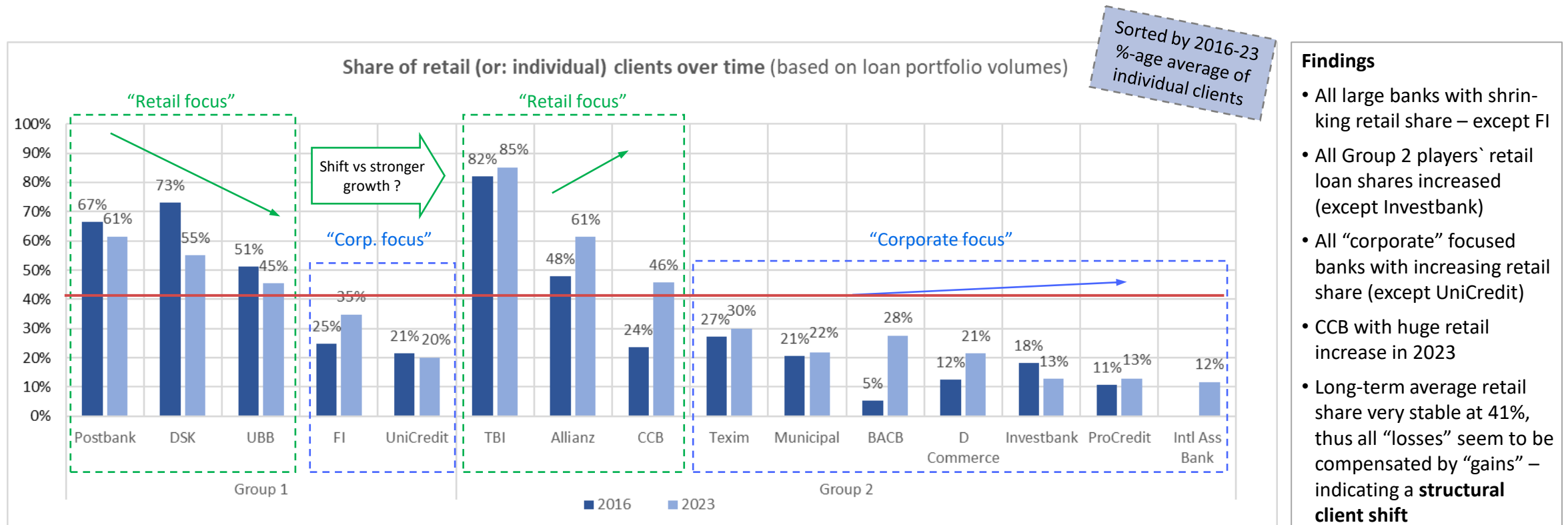
The offering: Many similar products ... and some “white spots”

Based on comprehensive internet (website) screening (Q1 2024)



¹ Except mortgages

Development of retail client share* - shift from larger to smaller banks ?



Findings

- All large banks with shrinking retail share – except FI
- All Group 2 players` retail loan shares increased (except Investbank)
- All “corporate” focused banks with increasing retail share (except UniCredit)
- CCB with huge retail increase in 2023
- Long-term average retail share very stable at 41%, thus all “losses” seem to be compensated by “gains” – indicating a **structural client shift**

Structural shift: Potential reasons

Combination of **strategic decisions, market dynamics, and changing consumer preferences**

- Strategic focus shift to concentrate more on corporate clients or other financial services
- Reevaluation of retail strategies, possibly due to increased competition or changing consumer behavior

Smaller Banks (Corporate-focused)

- Diversification strategy to mitigate risks and explore new revenue streams
- Adapted to meet increasing demand for retail banking services thus capturing market share

Smaller Banks (Retail-focused)

- Might have implemented effective marketing strategies / price measures to attract more retail clients
- More customer-centric approach, offering tailored products and services

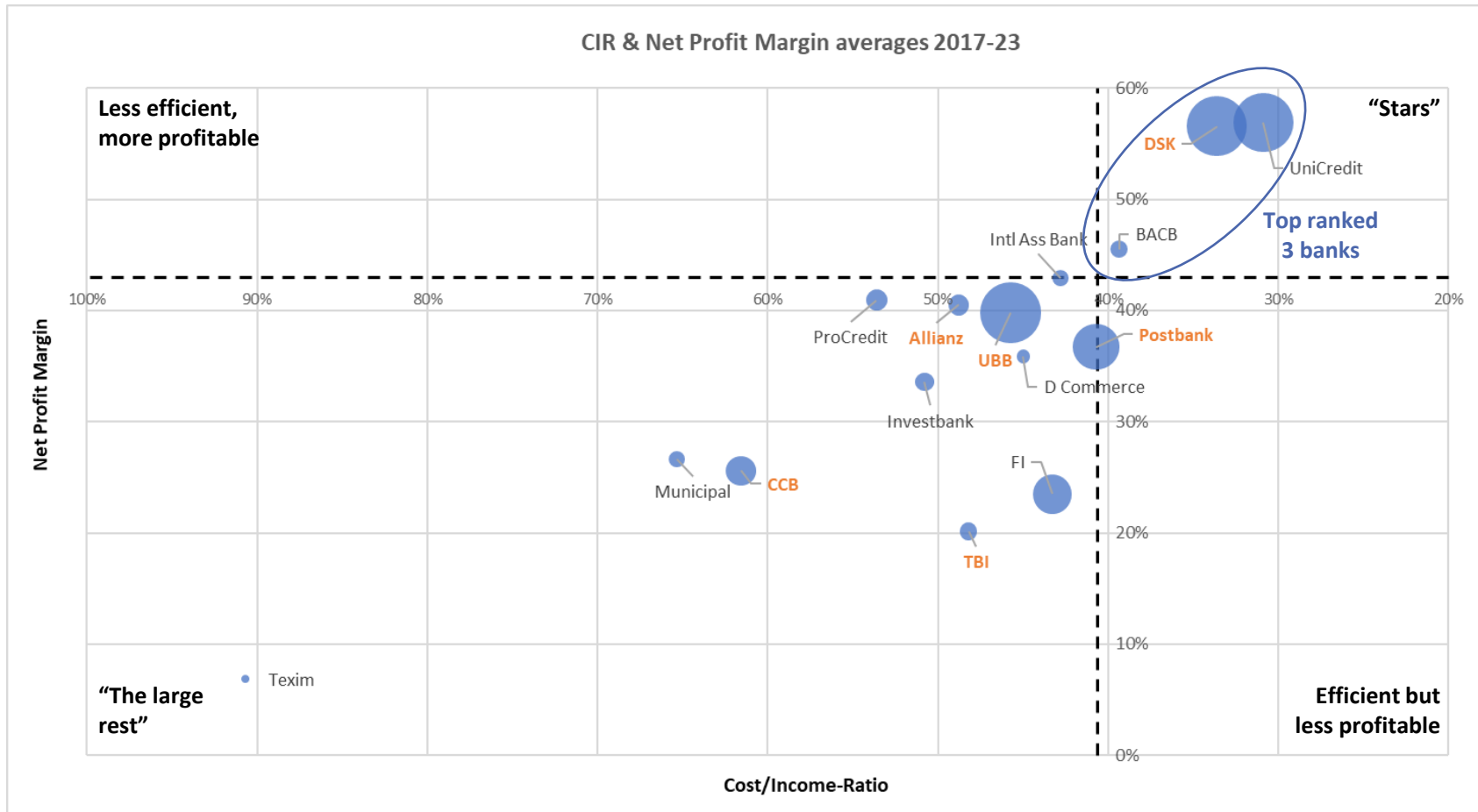
* Retail clients ranked by loan share relative to total loans (not number of clients); threshold is retail client share in 2023 (41%)
 Note: International Asset Bank not listed as data is missing

— 2023 average (almost similar to 2016-22 avg (41%))

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Net Profit Margin and Cost/Income-Ratio – interaction of key performance indicators for profitability & efficiency



Findings

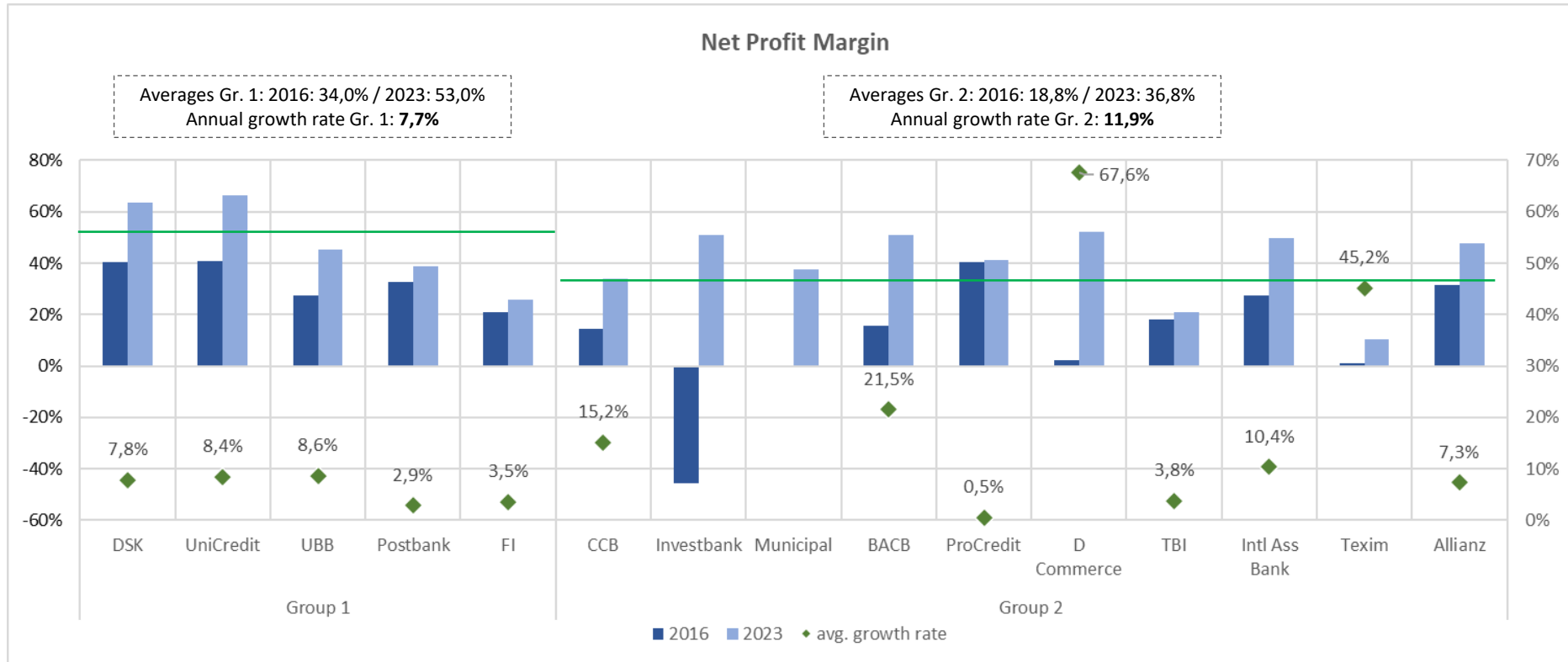
- Only DSK & UniCredit – 2nd and 3rd largest banks in terms of assets in 2023 – with top long-term average performance
- Performance of other 3 large banks below average numbers for CIR / NPM
- 3 banks with significant higher CIR than all others; the smallest of them also with very low NPM (Texim; CCB, Municipal)
- Medium-sized universal banks with corporate focus with comparable high CIR & low NPM – a “stuck in the middle” situation
- Challenger bank TBI with average CIR but comparable very low Net Profit Margin

Coloring indicates banks with “retail” focus (>40% share of retail loans in 2023)

Bubble size indicates size of total assets (2023)

Note: NPM for Investbank calculated based on 2017 figures as negative in 2016

Profit & Profitability insights: Net profit Margin



Findings

- Net profit margin is a key profitability indicator as is basis for several related KPI
- In general, larger banks with significantly higher margins, yet lower growth rates
- DSK & UC present outstanding 2023 figures
- 5 banks from Group 2 also with NPM > 50%
- All banks with rising NPM over time; ProCredit almost no growth (ops income and net profit “in sync”)
- Compared to RoA & RoE, TBI shows “normal” margins

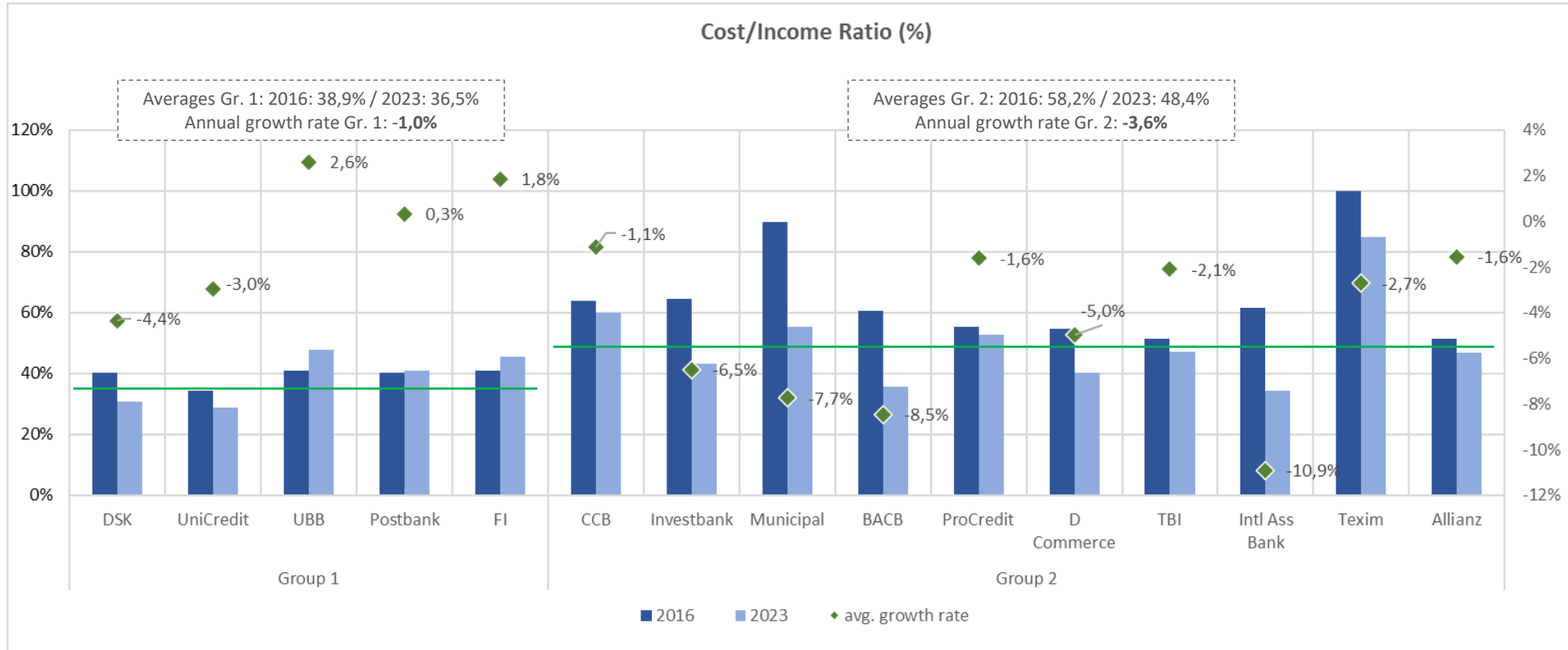
- Average profit margin for large banks at unprecedented 53%, for smaller ones at about 37% - size, earnings power, and efficiency play their role
- Net Profit Margin (NPM) follows general analyzed trend: higher levels, yet reduced growth over time for larger banks; smaller ones showing opposite figures

— indicates 2023 average

Net profit margin (NPM): Net profit / operating profit

Note: NPM growth rate capped at 60%. Municipal Bank at 182% not displayed. NPM for Investbank calculated based on 2017 figures as negative in 2016

Cost & Efficiency insights: Cost-Income-Ratio (CIR)



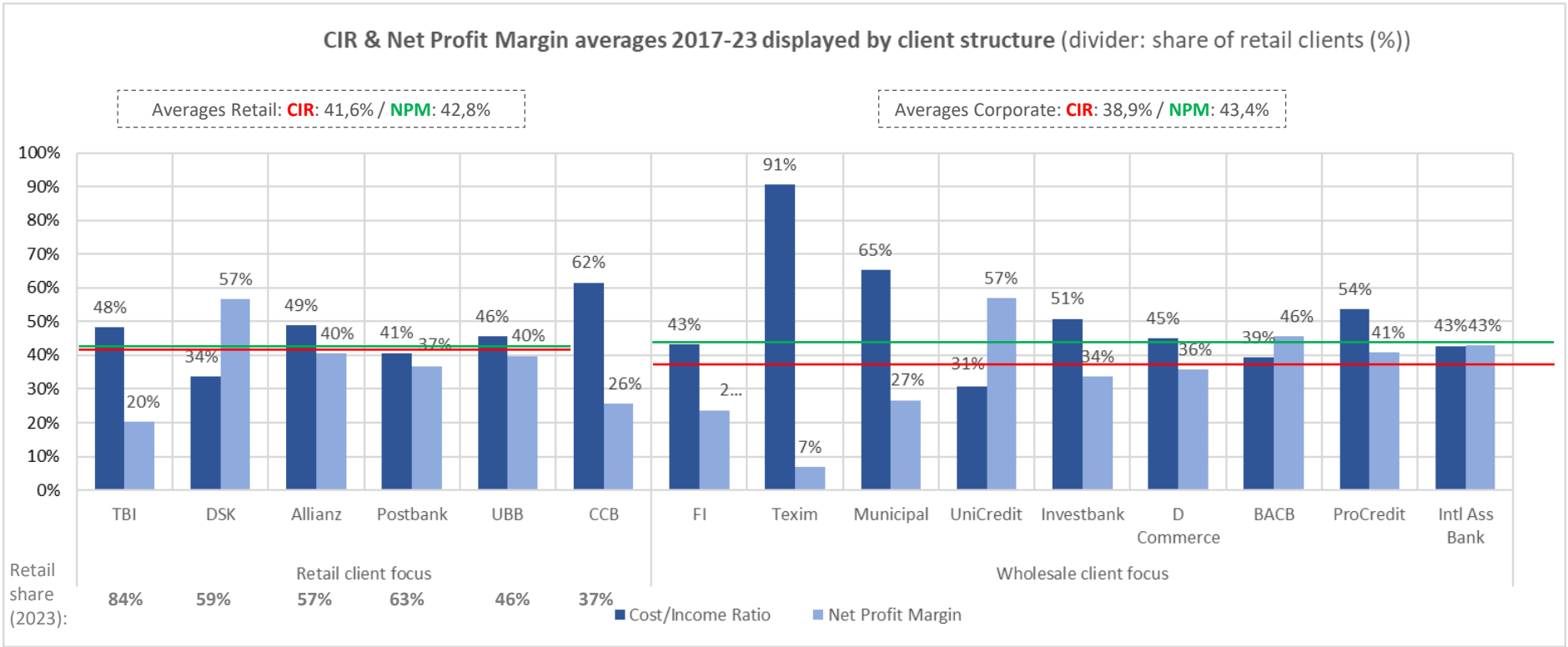
Findings

- Large banks saw minor decline in CIR over time (-1% p.a.), with DSK & UC leading
- However, other 3 large players with rising CIR
- Smaller banks could reduce CIR more – with 2023 levels still 12%-pp. higher than larger ones
- Among smaller banks, in tendency mid-size corporate-focused banks with highest levels (yet declining)
- IAB with strongest decline in CIR

- Cost/Income ratio sets operating expenses in relation to ops income – thus both sides can exert impact
- In comparison, the numbers can lead to the assumption that size supports efficiency in the sense, that costs can be distributed across a larger asset base – benefiting larger banks (if complexity is handled)
- Smaller bank generally more successful to decrease CIR

— indicates 2023 average

Additional insights: Net Profit Margin and CIR based on client structure (average 2016-2023)



Findings

- NPM > CIR for both groups (retail vs corporate) and overall average: very rare and very positive picture
- Retail banks with better CIR (- 2,7%-points) yet lower NPM (-0,6%-points)
- DSK, UC, and BACB only ones with NPM > CIR. Reasons are efficiency (UC), and profitability (DSK, BACB)
- Mid-sized, corporate-focused banks Texim and Municipal with worst “ratio”; also CCB with unfavorable ratio

▶ Client focus – by plain numbers – does not seem to have an explaining factor regarding efficiency (measured by CIR) and profitability (by NPM)

▶ Size, though, has differentiation potential: Five largest banks achieved average CIR of 37% / NPM of 53% - compared to 48% / 37% for smaller banks

— / — indicates 2023 average

Note: NPM for Investbank calculated based on 2017 figures as negative in 2016

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- III. **Key challenges and response options of Bulgarian banks**

Key challenges & trends and response options of Bulgarian banks (I/II)

Excerpt; detailed options available

| | Key challenge areas | Key challenges / trends | Response options (non-exhaustive) |
|-----------------|------------------------------------|--|--|
| Macro / Country | Economic environment / development | <ol style="list-style-type: none"> 1. GDP growth mainly driven by consumers & exports 2. Elevated levels of Non-Performing Loans 3. Long-term contraction of banking margins & ROE 4. Lagging green transition in Bulgaria (lowest in EU) 5. Elevated economic convergence issue (Capital vs rest) 6. Geographic disparities & limitations in banking access | <ol style="list-style-type: none"> 1. Support investments in company capital stock by offering favorable rates, ongoing advice & knowledge, tailored to client needs 2. Strengthen risk management, NPL reduction programs, debt restructuring 3. Embrace profitability's strongest lever ("Pricing") to counter volume decreases 4. Strengthen focus & capabilities on green financing; optimize monitoring 5. Support with financing & advisory services; strengthen presence in rural areas 6. Improve access to funding in underdeveloped areas (embrace "new" approaches) |
| | Business environment | <ol style="list-style-type: none"> 1. Unsupportive business environment 2. Challenging business demographics 3. Decline of market funding ratios for companies | <ol style="list-style-type: none"> 1. Assist in leveraging government-supported programs 2. Provide financial advisory Enhancing quality & efficiency of SME services (as backbone of BG economy) 3. Facilitating access to alternative funding sources (VC, PE, IPO, Struct. Products etc) |
| | Demographics | <ol style="list-style-type: none"> 1. Significant Labor Market Challenges: <ol style="list-style-type: none"> 1) Shrinking labor force & 2) Skill shortages 2. Shrinking client reservoir 3. (Private) pension provision | <ol style="list-style-type: none"> 1. 1) Tap other / additional labor sources: Attract skilled migrants, 2) Improve specific adult education: Further strengthen banking skills-related adult education etc. 2. Expand geographic reach, widen untapped client base (expats, students, unbanked) 3. Collaborate to strengthen general system; increase in-house / 3rd party capabilities |
| | Society | <ol style="list-style-type: none"> 1. Developing Middle Class 2. Changing Consumer Behavior 3. Increasing need for Social Impact | <ol style="list-style-type: none"> 1. Provide innovate solutions & tailored offering (e.g. special packages, "Exec. & Entr.") 2. Engage client analytics to understand behavior and better cater for client needs 3. Collaborate with e.g. NGOs, develop and promote sustainable finance initiatives |
| | ESG | <ol style="list-style-type: none"> 1. Growing ESG considerations 2. Increasing need für Green Investments | <ol style="list-style-type: none"> 1. Foster stronger alignment of banking practices with ESG principles (strategy, processes, systems, communication) 2. Support environmentally sustainable projects and improve relevant structures |

Key challenges & trends and response options of Bulgarian banks (II/II)

Excerpt; detailed options available

| | Key challenge areas | Key challenges / trends | Response options (non-exhaustive) |
|-----------------|--|--|--|
| Micro / Banking | Technology (advances & digitalization) | <ol style="list-style-type: none"> 1. Legacy systems & Digital Banking Infrastructure 2. Cybersecurity Risks 3. Fintech Disruption 4. Rise of blockchain technology & tokenization 5. Proliferation of generative AI | <ol style="list-style-type: none"> 1. Collaborate with state-of-the art banking system providers; reduce technical debt 2. Cybersec. infrastructure, Employee Training/Awareness, Sec. Audits & Monitoring 3. Evaluate collaborations & with fintech firms (or M&A); upscale own tech stack 4. Generally explore BC Integration, Participate in alliances; explore tokenization cases 5. Selectively & gradually integrate AI; modular approach, begin with simple use cases |
| | Regulatory & Compliance | <ol style="list-style-type: none"> 1. Frequency and speed of regulatory changes 2. Adherence to EU standards and evolving regulation 3. EURO adoption challenges 4. Basel III "endgame" considerations 5. Capability of "Green assets" attraction & monetization 6. (Politically driven) "skimming" of banking profits | <ol style="list-style-type: none"> 1. Establish effective monitoring system, strengthen in-house capabilities 2. Prepare for foreseeable changes early on; evaluate impact and effort; collaborate 3. Holistically drive further preparations for EURO adoption in alignment with BNB 4. Start preparing for measures (focus on RWA, credit/market/ops risk) and liquidity 5. Evaluate alignments on in-house risk assessment models to comply with standards 6. Evaluate potential challenges (e.g. higher deposit interest, taxing of profits etc) |
| | Banking - Products & Services | <ol style="list-style-type: none"> 1. Products & Services (mix, breadth & depth) 2. Huge & increasing number of products 3. Increasing demand for value add-services 4. Rise of cryptocurrencies | <ol style="list-style-type: none"> 1. Foster concept of Niche-Banking / Decentralization; aim for "atomic" approach (1:1) 2. Streamline existing product shelf & variety after strict analysis to reduce costs etc. 3. Evaluate production & distribution of capital-light, value-add services (advisory etc.) 4. Evaluate integration of selected parts of value chain in offering (e.g. brokerage) |
| | Banking - Distribution / Sales | <ol style="list-style-type: none"> 1. Complex distribution models 2. Large, partly underused branch network 3. Further personalization in (retail) banking 4. Optimized processes & client interaction 5. Increasing demand for "embedded finance" 6. Proliferation of Eco-systems | <ol style="list-style-type: none"> 1. Overcome "silo approach": Further shift to more streamlined, seamless approach 2. Optimize intelligently, weighing costs vs opportunity (serve underbanked regions) 3. Further analyze and optimize branch network (incl. ATM, affiliates, other premises) 4. Leveraging innovative tech (AI, digital platforms) to streamline ops & enhance CX 5. Engage in partnerships to create EF opportunities (e.g., buy-now-pay-later apps) 6. Use marketplaces to serve clients with products outside immediate business models |
| | Banking - Competition | <ol style="list-style-type: none"> 1. Proliferation of "Neo-Banks" & "Neo-Brokers" 2. Rise of "Digital Lending" 3. Pressure through Payment service providers (PSP) | <ol style="list-style-type: none"> 1. Streamline own brokerage service by expanding counterparts, optimizing cost / fees 2. Evaluate fintech partnering; embrace agile, cost-effective lending process 3. Invest in innovative solutions, enhance digital banking experiences / ecosystems |

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