

EQUITY NOTE: RÁBA Automotive Holding

Recommendation: BUY (unchanged)

Target price (12M): HUF 1,317 (revised)

29 Aug 2019

Highlights

Equity Analyst:
Orsolya Rátkai

Phone:
+36 1 374 7270

Email:
ratkaio@otpbank.hu

We maintain our previous BUY recommendation on Rába Automotive Holding (RABA HB; RABA.BU) with a new 12M target price of 1,317 HUF/share. The target price is 15% higher than the HUF 1,150 closing price on 29 August. Total return is estimated at 16% on a 12-month forecast period. Although Q2 earnings report shows disquieting signs of the core business of Rába's axles unit, we maintain our forecast on a balanced sales growth in the short run, while risks surrounding economic growth in the EU and a possible global downturn still linger. Rába also faces challenges on the cost side and while part of the cost increase may affect operation only provisionally, rising energy and labour expenses need to be addressed. Higher expected net debt also added to factors resulting in lower enterprise value.

Summary

- Rába Automotive Holding announced HUF 12.9bn sales income in Q2 2019, in line with our expectation, 7% higher than a year earlier. Rába reported strong demand in some key export markets, and domestic sales performance remained also outstanding.
- However, not every business unit managed to maintain the dynamics in its core export market at the levels seen in previous years. The axle business unit lost momentum in the EU market in Q2; sales revenues in EUR terms declined 22% YoY after losing 9% in Q1.
- Rába is still struggling with rising energy prices and wages, and higher production and general administration costs put profitability under pressure again. Although steel raw material prices have been steadily coming down, the company failed to improve operating profitability in the latest quarter, due to other cost factors.
- As a result, quarterly EBIT decreased by 39% YoY, while EBITDA declined 18%. Profitability ratios deteriorated in both yearly and quarterly comparison. The deterioration of profit margin affected all the three business units.
- Quarterly EPS amounted to HUF 8 in Q2 2019, worse than in our forecast, while 12M-trailing EPS decreased to HUF 105 vs. HUF 111 in Q2 2018.
- We expect this year's EBIT to arrive at HUF 1.7, down from our earlier forecast of HUF 2.1bn. EBITDA may increase to HUF 3.9bn, while net income is expected to grow to HUF 1.3bn. Our 12M EPS forecast for 2019 stands at HUF 96.

- Robust demand is sustained on Rába's key markets and we do not expect considerable change in that in the short run. However, when considering global growth outlook, we see downside risks. Uncertainty concerning global trade disputes is also a risk factor, and changes in trade policies may strongly affect the European automotive sector and its supply chain.

Financial highlights of Q2 2019 earnings report

April-June (HUFm)	2019 Q2	2018 Q2	YoY Change
Domestic sales	4 050	3 203	26%
Export sales	8 864	8 904	0%
Net sales income	12 914	12 107	7%
Direct cost of sales	10 411	9 555	9%
Gross profit	2 503	2 551	-2%
Cost of sales and marketing	198	180	10%
General managing costs	1 900	1 759	8%
Other operating expenses	183	204	-10%
Total operating expenditures	2 281	2 143	6%
Other incomes	77	85	-10%
EBIT	299	494	-39%
EBITDA	829	1 015	-18%
Pre-tax profit	212	364	-42%
Tax	102	121	-16%
After-tax profit	110	243	-55%

April-June (HUFm)	2019 Q2	2018 Q2	YoY Change
EPS (HUF)	8	18	-56%
12m-trailing EPS (HUF)	105	111	-5%
Gross profit margin	19.4%	21.1%	-1.7pp
EBIT margin	2.3%	4.1%	-1.8pp
EBITDA margin	6.4%	8.4%	-2.0pp
ROE	0.5%	1.2%	-0.7pp
12m-trailing ROE	6.8%	7.5%	-0.7pp
ROA	0.2%	0.6%	-0.4pp
12m-trailing ROA	3.4%	4.1%	-0.7pp

Source: Rába Automotive

Sales performance keeps on showing mixed signs. Rába recently reported HUF 12.9 bn total net sales in Q2 2019, in line with our quarterly forecast. Total sales revenue increased by less than 7% YoY, and slowed down considerably compared to the 19% growth rate witnessed in Q1 2019. HUF-denominated quarterly export sales have slightly decreased from Q2 2018, despite the somewhat weaker HUF when comparing the quarterly average FX rates of the corresponding periods.

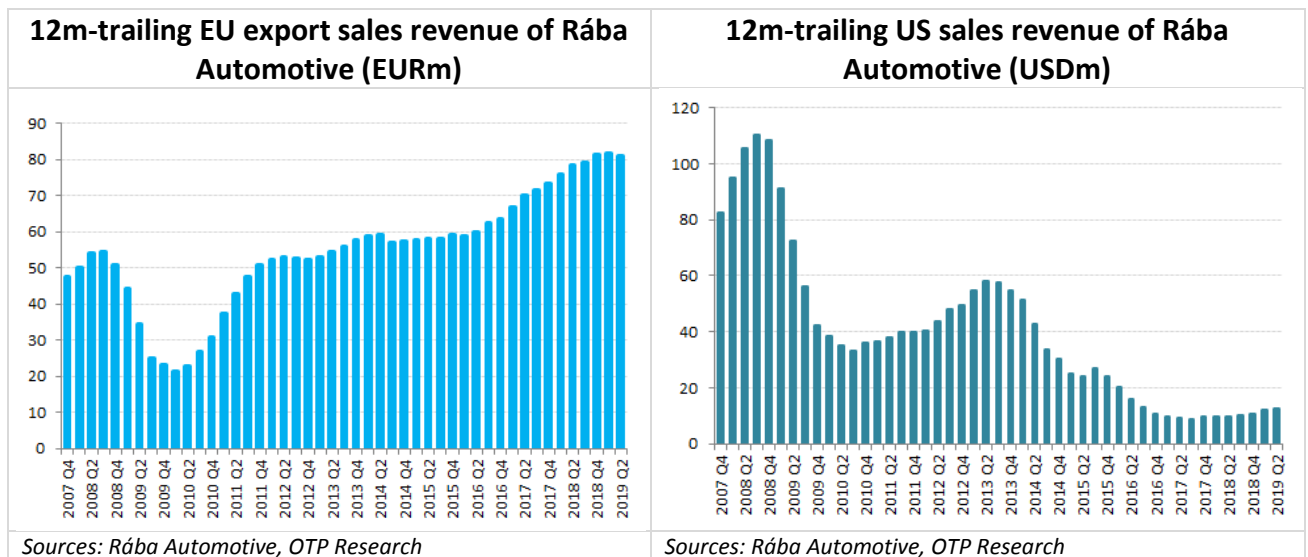
In the latest quarter, exports' share in total sales revenue shifted from the unusually low levels of 61% in Q1 2019 and Q4 2018, and increased close to the more typical 70%, despite massive domestic sales performance and the gap in sales to the CIS countries.

Sales to the EU – representing the biggest share (52% in Q2 2019, up from 47% in Q1 2019) in total sales revenue – declined by 3% YoY in HUF terms. Without the FX effect, quarterly EU sales revenues lost 3% YoY as well, making considerable difference compared to the double-digit quarterly growth rates in 2017 and 2018. Sales to the EU have decreased to HUF 7.0bn, or EUR 22.1m.

The axle business of Rába has the biggest share in EU sales revenues, even though this unit lost momentum in Q2 in this market again, just like in Q1. In Q2, revenue from sales to the EU decreased by 23% in HUF terms, or by 22% in EUR terms, after

9% EUR-denominated export decline in Q1. The parts and the vehicle units partially offset fading EU sales at the axle business unit: the parts unit's sales to the EU jumped by 22% (22% w/o FX effect), while the vehicle segment achieved 25% increase there (in HUF terms, or by 24% w/o currency effects).

The rising trend of revenue growth in the EU market reversed for Rába in Q2 2019, although the registration figures of medium & heavy trucks and buses in the EU are still rising. What's more, May and June figures show outstanding growth both in the medium & heavy truck and bus markets. It is true, administrative changes are behind the stronger demand. New passenger car sales show signs of weakness in the EU, as the registration figures in this segment's sales started to decline in Q1 after several years of continuous growth, and Q2 registrations were also sluggish.

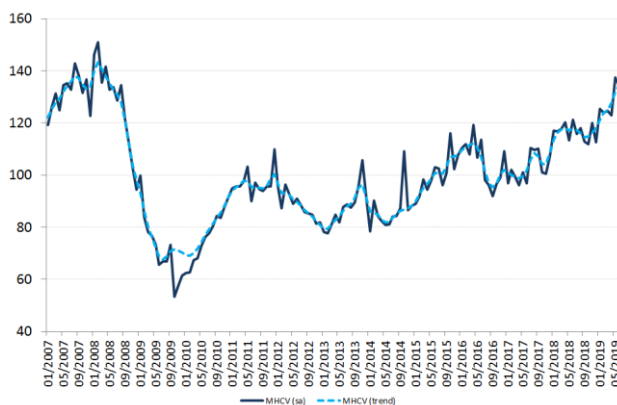


Dollar-denominated US sales growth slowed to 29% YoY in Q2 after reporting 40% YoY increase in Q1 2019. Demand on the US heavy truck market remains really strong, backed by the still favourable economic conditions: the monthly registration figures of heavy commercial vehicles showed double-digit yearly growth rates in the past nearly two years, as well as in the first seven months of 2019. The April-June period witnessed 17% YoY gain, up from the 13% and 15% growth rates registered in Q1 2019 and Q4 2018, respectively.

The US agricultural machinery market is still in good shape. This year's monthly figures still show strong rise in the sales of agricultural machinery, in almost each segment. The sales of two-wheeled farm tractors slowed to 4% YoY in January-June from 6% in January-March and after near 7% growth rate in 2018, but the sale of four-wheel farm tractors increased by 15% YoY in the first half of 2019 (after witnessing 25% YoY increase in January-March, and 13% growth rate in full-year 2018). The market of self-propelled combines however put on the brakes: this segment recorded 5% growth rate year to date, after gaining over 18% in 2018.

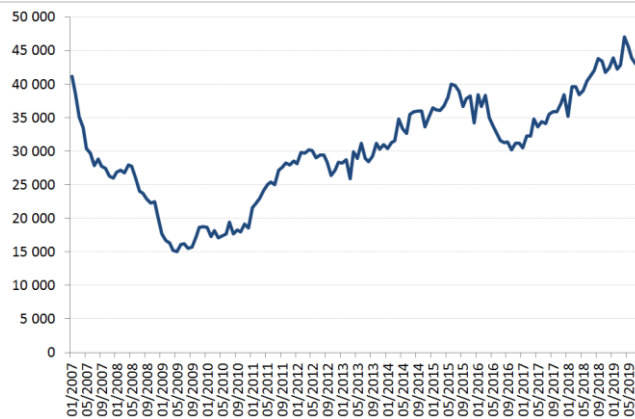
Only 7% of Rába's revenues come from the USA, and Rába has only a smaller share in the US truck business. But being a supplier to John Deere and Marmon-Herrington, Rába may have stronger position in other machinery segments. Rába also benefited from exchange rate changes in Q2 as the rising USD/HUF improved Rába's performance in HUF terms (+40% YoY).

New medium & heavy truck registrations in the EU (SA, 2015 average = 100)



Sources: ACEA, OTP Research

Heavy weight truck retail sales in the US (seasonally adjusted annual rate, thousand units)



Source: US Bureau of Economic Analysis

The CIS market for Rába dried up the last quarter, export revenues in EUR fell to its fifth in Q2 2019. The whole Russian market of medium and heavy trucks keeps on hitting the brake, which does not support Rába’s performance there. Truck registration figures in Russia witnessed 6% YoY fall in the January-June period. The sales of Rába in the CIS dived: the EUR 0.3m quarterly sales revenue is the lowest in almost four years.

However, sales performance in other markets can offer some solace in this latest quarter: Rába’s EUR 2.4m revenue is about 70% higher than a year before, and the growth rate is even higher in HUF terms.

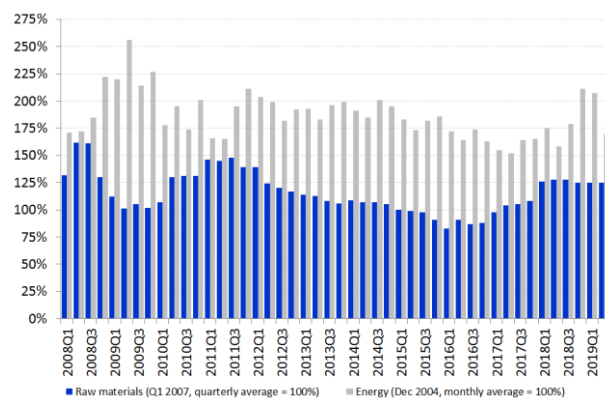
Repeated outstanding performance in the domestic market, similarly to the first quarter of 2019. The domestic revenues of the vehicle unit doubled YoY, while parts sales jumped by 13%, and the inland sales revenue of the axle unit declined 5% YoY in the April-June period. New information on the expected public orders under the “Zrínyi 2026” military development programme is yet to be published.

Steel market prices declined significantly in Q2 2019 (hot-rolled coil, USD/metric tonnes)



Source: Bloomberg

Input cost indices of Rába Automotive (quarterly averages)

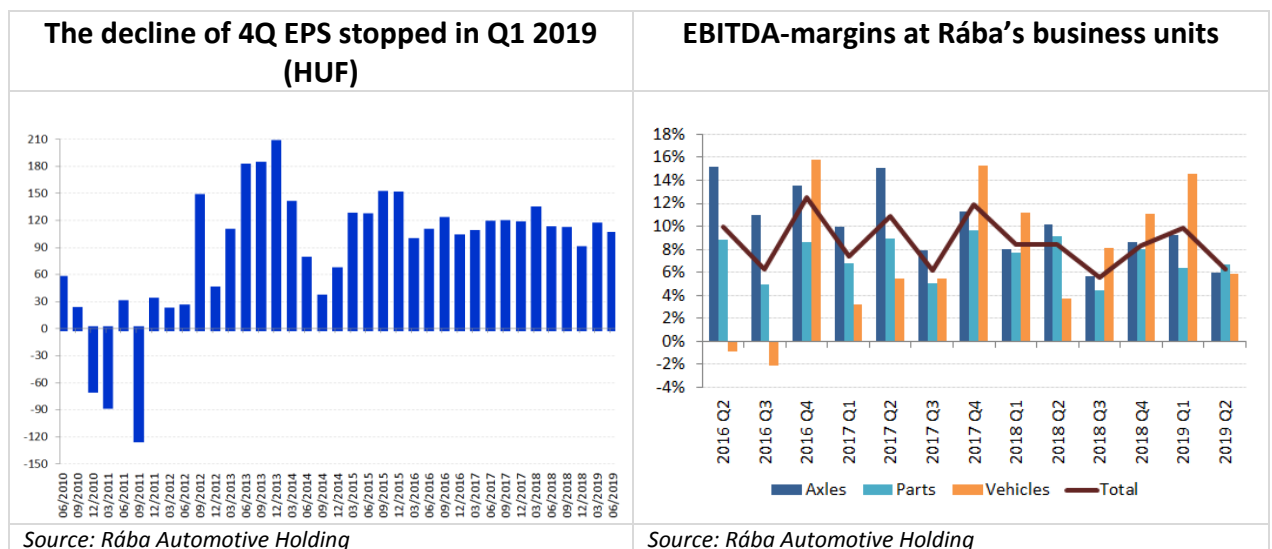


Source: Rába Automotive Holding

Base material prices on a declining path. Market conditions in the international steel market started to change in the second half of last year. Steel futures in the global commodity market dropped by the middle of summer from the peak reached at the end of June, and aside from some breaks, prices have been steadily coming down since then. By the end of June the benchmark price of hot-rolled coils declined 60% on a yearly horizon, while Q2 quarterly average price fell 10% from the Q1 quarterly average and it is 20% lower than the average price registered in the fourth quarter of 2018.

According to the input cost indices reported by Rába, raw material prices are roughly at the same level as a year ago. At the same time, the quarterly energy price index was 8% higher in Q2 2019 than in the corresponding period of 2018, increasing the direct cost of production.

Due to the direct cost side effects, Rába's gross margin deteriorated to 19% in the past quarter. On the level of EBIT and EBITDA, we can also see significant deterioration. Due to the stabilization of somewhat higher general administration costs (partly as a result of double-digit wage growth and/or other undetailed cost items), EBIT margin fell to 2.3%, from 4.1% a year earlier. EBITDA margin declined to 6.4%, from 9.8% in Q1 2019 and 8.4% in Q2 2018.



The deterioration of EBIT and EBITDA margins affected all the three business units, but the decline of margins was the most noticeable at the vehicle unit. Its EBITDA margin fell to 6%, from the 8–15% levels reported in the previous three quarters, while the Q2 figure also falls below the long-term average.

The short-term sales outlook remains uncertain

- We maintain our expectation of strong demand in the short run, in and outside the EU. Under the circumstances, the recent market loss of Rába's axles business in the EU is a disquieting phenomenon. Besides, risks surrounding economic growth in the eurozone and in the global economy are multiplying.
- The slowdown in the USA and Russia this year is also part of the baseline scenarios. In the short run, right now there are no strong signals of losing steam. The US agricultural machinery market is expected to stabilize at an

- elevated level, but the tariffs imposed on steel products and agricultural commodities affect both the supply and the demand sides of the agricultural machinery market. The question is whether the replacement market may still allow modest gains, or farmers postpone their investment.
- Uncertainty surrounding global trade-related issues still lingers; it remains to be seen how any new measures affect the European commercial vehicle market.
- In November 2018 Rába Automotive announced the renewal of the framework contract (Vehicle Procurement Program, VPP) between its subsidiary Rába Vehicle Ltd. (‘Rába Jármű’) and the Hungarian Ministry of Defence. Although several news reports emerged in the press this year about the high-volume purchases of the Hungarian Ministry of Defence, new information on the expected public orders in the frame of the “Zrínyi 2026” military development program is yet to be published.
- We maintain our expectation of modest revenue gain this year. Domestic demand seems to be solid, while risks surrounding the core export markets of Rába point to the downside. However, the weakening HUF may cushion the potential decline of the sales revenues.
- On the costs side, Rába still faces challenges. It seems that in the present economic circumstances Rába lacks the tools to effectively manage rising energy and labour cost, which are the major drags on profitability. If the global economic downturn once occurs, the cost side may ease for Rába, though simultaneously the revenue side may also weaken.

Tables

CONSOLIDATED INCOME STATEMENT		HUFm						
	2014	2015	2016	2017	2018	2019E	2020E	2021E
Domestic sales	19 526	17 838	16 216	15 233	15 827	16 459	16 729	16 234
Export sales*	28 390	28 315	26 413	28 609	32 805	32 648	32 549	32 406
Total sales revenue	47 916	46 154	42 629	43 842	48 632	49 107	49 278	48 640
Direct cost of sales	-38 725	-36 317	-33 200	-34 577	-38 262	-38 900	-39 348	-39 010
Gross profit	9 191	9 837	9 429	9 265	10 370	10 207	9 930	9 630
Indirect costs of sales	-7 299	-7 640	-7 429	-7 116	-8 620	-8 441	-8 066	-7 997
EBIT	1 891	2 196	2 000	2 149	1 751	1 766	1 864	1 633
EBITDA	4 122	4 465	4 122	4 100	3 790	3 850	3 925	3 591
Net financial profit/loss	-584	-104	-11	-101	-109	-110	-50	-50
Profit before tax	1 308	2 093	1 989	2 048	1 642	1 656	1 814	1 583
Tax	-456	-410	-612	-479	-445	-378	-396	-392
After-tax profit	852	1 682	1 378	1 569	1 197	1 278	1 418	1 191
Dividend	0	0	271,648	307	238	256	265	263
EPS	66	129	103	117	90	96	106	89
DPS			20	23	18	19	20	20

*Unconfirmed, estimated on the basis of official consolidated total sales and preliminary export sales figures.

CONSOLIDATED BALANCE SHEET		HUFm						
	2014	2015	2016	2017	2018	2019E	2020E	2021E
Property, plant, equipment	14 977	14 832	14 410	15 818	19 145	18 762	18 574	17 645
Intangible assets	1 071	789	500	282	183	185	166	158
Non-current assets	17 276	16 723	15 799	16 876	20 021	19 764	19 557	18 619
Inventories	6 629	6 211	5 728	7 008	9 072	8 103	8 853	9 021
Receivables and other current assets	11 304	8 375	10 075	9 864	12 264	11 851	12 788	11 215
Cash and cash equivalents	1 025	3 199	1 900	2 638	684	2 947	1 613	1 979
Current assets	18 976	17 807	17 703	19 562	22 054	22 641	23 254	22 216
TOTAL ASSETS	36 252	34 530	33 502	36 438	42 075	42 405	42 460	40 483
Share capital	13 048	13 138	13 473	13 473	13 473	13 473	13 473	13 473
Own shares	0		-109	-109	-109	-109	-109	-109
Capital reserve	73	64	0	0	0	0	0	0
Stock option reserve	97	67	0	0	0	0	0	0
Retained earnings	1 857	3 837	5 314	6 613	7 500	8 523	9 583	10 633
Total Equity	15 075	17 107	18 679	19 978	20 865	21 887	22 947	23 997
Long-term loans and other liabilities	6 424	3 006	2 239	4 373	5 916	5 324	4 659	3 993
Provisions	315	261	150	163	245	245	0	0
Non-current liabilities	6 739	3 267	2 434	4 619	6 262	5 420	4 308	3 642
Loans and credits	3 185	3 570	746	1 582	2 186	4 920	5 585	6 251
Payables and other short-term liabilities	11 252	10 587	11 541	10 140	12 489	10 804	10 409	9 996
Current Liabilities	14 438	14 156	12 389	11 841	14 948	15 097	15 205	12 843
TOTAL EQUITY AND LIABILITIES	36 252	34 530	33 502	36 438	42 075	42 405	42 460	40 483

CONSOLIDATED CASH FLOW		HUFm						
	2014	2015	2016	2017	2018	2019E	2020E	2021E
EBITDA	4 122	4 463	4 122	4 100	3 790	3 850	3 832	3 714
Cash flow from operation	3 778	6 641	3 244	1 075	1 218	3 179	1 343	4 302
Cash flow from investment	-3 278	-1 790	-1 203	-3 154	-5 184	-1 701	-1 855	-1 020
FCFF	500	4 851	2 041	-2 079	-3 966	1 478	-512	3 282
FCFE	1 107	1 924	-1 556	813	-1 898	3 535	-550	3 244

Sources: Rába Automotive, OTP Research

Deduction of 12M target price

Rába's valuation (HUFm)	FCFF in the explicit period						
	2018	2019	2020	2021	2022	2023	
FCFF	-3 971	1 718	-512	3 282	-2 009	1 046	
Discount factor	0,92	0,94	0,93	0,93	0,93	0,93	
DCF	-3 663	1 609	-447	2 671	-1 518	731	3 046
Terminal value (HUFm)							27 700
Net present value (HUFm) of TV							19 120
Enterprise Value (incl. possible future property sale) HUFm							23 486
Net debt							7 297
Equity value - Dec 31 2018, HUFm							16 188
Number of shares							13 352 765
Expected return on equity							8,6%
12M Target price							1 317
Current price							1 150
Upside/Downside							14,5%
TR Upside/Downside							16,1%

Source: OTP Research

Risks surrounding Rába's economic activity

FX risk: As export sales have a dominant share in Rába's sales performance, the company is exposed to exchange rate fluctuations. About 60–70% of the total sales revenue is FX-dominated, which climbed from 65% in 2017 to 67% in 2018, and is expected to remain well above 60% in the coming years.

Raw material & energy prices: Raw material (steel) prices stopped increasing last year. Steel prices on the global commodity market started to decline in mid-2018. Since the second half of 2018, benchmark steel prices have been dropping, and by the middle of 2019 prices fell more than 20%, when comparing quarterly averages. At the same time rising energy prices put Rába's profitability under pressure.

Economic environment: Although the sales performance of Rába shows robust demand, the international economic environment adds downside risk to our forecast. The eurozone is expected to lose momentum, and risks (e.g. trade conflicts, just to name one) surround the global growth outlook. The base scenario our forecast is built upon bears considerable downside risks. And while the Hungarian monetary and exchange rate policy is also changing, in case of an external shock, the monetary policy will be able to accommodate itself to that situation through exchange rates.

Labour supply: The present labour market developments, particularly the prevailing labour shortage may arrive at a point when it may harm the companies' growth potential, and result in higher labour costs, or extra capex need to substitute labour force with robotisation, or may lead to chronic capacity shortage. Rába is located in Western Hungary, where unemployment practically vanished, and the local labour market is very supply-driven.

Risks surrounding Rába's property for sale: Although we do not expect this property to be sold soon, if it happens, the sales revenue adds relatively significant value to Rába's enterprise value. Should the property be reclassified as residential area, from the present classification as arable land, that would be a strong value generating factor.

Ownership: Apparently, the state-owned MNV's 75% ownership in Rába made no palpable changes to the company's operation or strategy. A significant part of MNV's asset portfolio consists of companies linked to public services – from this point of view Rába, an industrial manufacturer which operates under market conditions, does not seem to fit the owner's portfolio. MNV has not published a comprehensive strategy or a clear view on its goals with Rába, except the declaration at the time of the buyout on strengthening the state's presence in strategic sectors like the automotive industry. A further risk is that directives centrally declared on the operation of state-owned companies make no difference between companies, and do not take into consideration the sector's characteristics. Although we consider the dominant state ownership a real risk, this research does not factor it in.

[The initiation report, which contains the assumptions of the models used, is available here.](#)

[The valuation methodology used in this present equity research note to determine our price targets and recommendations is available here. \(Also available in Hungarian\)](#)

This investment recommendation has not used proprietary models.

The risk warning, which includes the adequate explanations of the length of time of the investment to which the recommendation relates as well as a sensitivity analysis of the assumptions, is indicated in the part of this recommendation where the length of time and the risks of the investment are presented.

Any information relating to the date and time for the price mentioned in this recommendation is revealed in the part of the recommendation where the given price is indicated.

OTP Bank Plc's recommendations and price targets history for Rába Automotive Holding in the past twelve months:

Period	Recommendations	Percent of Recommendations
Q3 2018	BUY	100%
	HOLD	0%
	SELL	0%
Q4 2018	BUY	100%
	HOLD	0%
	SELL	0%
Q1 2019	BUY	100%
	HOLD	0%
	SELL	0%
Q2 2019	BUY	100%
	HOLD	0%
	SELL	0%

Date	Recommendation	Target Price	Publication
17/05/2018	HOLD	HUF 1469	Quarterly Earnings Update
29/08/2018	BUY	HUF 1427	Quarterly Earnings Update
15/11/2018	BUY	HUF 1412	Quarterly Earnings Update
22/11/2018	BUY	HUF 1412	Equity Note
21/02/2019	BUY	HUF 1502	Quarterly Earnings Update
04/04/2019	BUY	HUF 1403	Equity Note
15/04/2019	BUY	HUF 1403	Equity Note
15/05/2019	BUY	HUF 1403	Quarterly Earnings Update
29/08/2019	BUY	HUF 1317	Quarterly Earnings Update

[The list of all recommendations made in the past 12 months is available here.](#)

Disclaimer 1

This research/commentary was prepared by the assignment of the Budapest Stock Exchange Ltd. (registered seat: 1054 Budapest, Szabadság tér 7. Platina torony I. ép. IV. emelet; company registration number: 01-10-044764, hereinafter: BSE) under the agreement that was concluded by and between BSE and OTP Bank Plc (registered seat: H-1051 Budapest, Nádor utca 16., Hungary, company registration number: 01-10-041585, hereinafter: OTP Bank or Investment Service Provider).

The BSE shall not be liable for the content of this research/commentary, especially for the accuracy and completeness of the information therein and for the forecasts and conclusions. The Service Provider is entitled to all copyrights regarding this research/commentary however BSE is entitled to use and advertise/disseminate it without amending its content.

This research/commentary shall not be qualified as investment advice specified in Point 9 Section 4 (2) of Act No. CXXXVIII of 2007 on Investment Firms and Commodity Dealers and on the Regulations Governing their Activities.

Furthermore, this document shall not be qualified as an offer or call to tenders for the purchase, sale or hold of the financial instrument(s) concerned by the research/commentary.

Disclaimer 2

1. Pursuant to the Commission-delegated regulation 2017/565/EU of the European Parliament, the content of this document shall be considered as an investment research, which recommends or suggests an investment strategy, explicitly or implicitly concerning one or more financial instruments or the issuers of financial instruments, including any opinion as to the present or future value or price of such instruments. The statements in this investment research contain objective or independent explanation. Furthermore, pursuant to Directive 2014/65/EU of the European Parliament and of the Council, this document shall be considered as investment recommendation. This document does not take into account investors' individual interests, circumstances, or objectives; therefore, in the absence of personal recommendation, it shall not be considered as an investment advice.

OTP Bank intends to make this document available to its clients or to the public, or to make it accessible to other persons in a way that allows this document to be disseminated to the public.

2. Information herein reflects the market situation at the time of writing. It provides only momentary information and may change as market conditions and circumstances develop. Additional information may

be available on request. Where a figure relates to a period on or before the date of communication, the figure relates to the past and indicates a historic data. Past performance is not a reliable indicator of future results and shall be not treated as such. OTP Bank makes no representation or warranty, express or implied, is made regarding future performance of any financial instrument mentioned in this communication. OTP Bank shall have no liability for the information contained in this for any loss or damage whether direct, indirect, financial, economic, or consequential, whether or not caused by the negligent act or omission of OTP Bank, provided that such limitation of liability shall not apply to any liability which cannot be excluded or limited under the applicable law.

3. The issuer of this report does not claim that the information presented herein is perfectly accurate or complete. However it is based on sources available to the public and widely believed to be reliable. Also the opinions and estimates presented herein reflect a professional subjective judgment at the original date of publication and are therefore subject to change thereafter without notice. Furthermore there can be no guarantees that any market developments will unfold as forecasted. Opinions and estimates constitute our judgment and are subject to change without notice.

4. The issuer(s) of the product(s) mentioned in this document do not hold more than 5% of OTP Bank's registered capital. OTP Bank is a market maker of the financial instrument that is discussed in this document. Neither was OTP Bank a lead-manager (organizer) or joint lead manager (organizer) of any public placement of the issuer's financial instruments (e.g. securities) in the previous 12 months. Regarding investment services defined in Sections A and B of Annex 1 of Directive 2014/65/EU, OTP Bank is not a party of the agreement with the issuer. OTP Bank maintains a conflict of interest policy and it keeps such records, and is has requirements that regulate the transmission of bank secrets and securities secrets, which requirements shall be considered as the effective internal organizational and management solutions as well as information barriers to prevent or manage conflicts of interest. The remuneration of the person(s) participating in preparing the recommendation is not directly related to the transactions carried out as part of the investment services specified in Sections A and B of Annex 1 of Directive 2014/65/EU, or to transactions carried out by them or by other legal entities of the same group or to trading fees that they or another legal person of the same group receive. OTP Bank does not hold net long or short positions that exceed 0.5% threshold of the issuer's total registered capital.
5. OTP Bank has developed appropriate internal procedures for (i) the personal transactions and tradings of financial analysts and other relevant persons, (ii) the physical separation of the financial analysts involved in the production of investment research and other relevant persons; moreover, information barriers have been implemented, (iii) for accepting and managing incentives and remuneration.
6. This communication does not contain a comprehensive analysis of the described issues; it is only for information purposes. No part, chapter, or the entirety of this information shall be considered as investment advice, not even if any part of this document contains a description of a certain financial instrument in terms of its possible price or yield development, and the related investment options. This information shall not be considered as legal, tax or accounting advice.
7. This information reflects the market situation at the time when the document was prepared. You may request more information from OTP Bank. This document was prepared based on publicly accessible information made available to OTP Bank from one or more sources. This document was prepared using data, facts and information from the following essential sources: Bloomberg, Reuters, Hungarian Central Statistical Office, Eurostat, Magyar Nemzeti Bank (Hungary's central bank), and European Central Bank (ECB). Although the information in this document has been prepared in good faith from sources that OTP Bank believes to be reliable, we do not represent or warrant its accuracy or completeness. This document represents the opinion and estimations of analysts at OTP Research, based on publicly available data. You may receive different recommendation from the staff of OTP Bank, in particular if you are provided investment advice based on an investment advice agreement. The content of this document is based on the opinion of OTP Research's analyst at the time when the document was prepared, and they may be subject to change at any time in the future without further notice.
8. Please be informed that, irrespective of the statements of this investment research, OTP Bank is entitled to deal or trade as market maker, acting in good faith and in accordance with the usual way of market-making, with the financial instruments distributed by the issuer(s) specified in this document, as well as to provide other investment activities or ancillary (investment) services, and/or other financial or ancillary financial services to the issuer and other persons.
9. This document shall not be a basis for any further analysis in relation to the financial instruments contained therein. Any reference in this document to the future distribution of a financial instrument shall be construed as indicative, preliminary and informative, and any analysis of such financial instrument is exclusively based on publicly available information listed in the respective prospectus or announcement. The content of this document shall not imply that OTP Bank acts as an agent, a fiduciary, or an advisor to, or on behalf on, any prospective purchaser of the financial instruments discussed herein.
10. For certain persons, access to the products and/or services discussed in this document may not be granted, or it may be limited. The act of preparing this document by OTP Bank, its uploading to the website, its publication may under no circumstances be considered as OTP Bank's intention to make available product

and/or service information in the prospectus to persons whom any country or state prohibits from having or obtaining the given product and/or service, including the promotion and the advertisement thereof. This communication and any of the financial instruments and information contained herein are not intended for the use of private investors in the UK and US. OTP Bank is not allowed to provide direct investment services to US investors. Any individual decision or investment made based on this publication is made solely at the risk of the client and OTP Bank shall not be held responsible for the success of the investment decisions or for attaining the Client's target.

11. This publication contains generic presentation of information and knowledge, thus it does not take into account the individual clients' unique and special interests, financial condition, or their ability and willingness to take risks. Therefore please contact our staff or contact your banking consultant for advice before you make an investment decision. The assessment and the consideration of the individual circumstances is provided by the suitability and compliance tests that assess clients' financial knowledge, experience, risk-taking abilities, as well as the examination of the target market.
12. Before making an informed decision to invest and to use the services, please carefully read through all documents, including the documentation, prospectus, regulations, terms and conditions, announcements and key information documents for that product/service, and carefully consider the subject, the risk, the fees and costs of your investment, the possibility of any loss, and seek information about the tax regulations regarding the product and the investment. The prices of financial instruments and securities are changing, outright sales are realized at then current market prices, which may involve losses.

The information and opinions in this document do not substitute or take the place of the issuance documentation for the given financial assets (e.g. prospectus, fund management rules), or their brochures or announcements.

13. You assume total responsibility and risk for any specific decision or investment; OTP Bank shall not be held responsible for the effectiveness of investment decisions or for reaching your purpose, nor for the individual investment decision made based on this document or any part thereof, or for their consequences. Investments in financial instruments carry a certain degree of risk, which may affect the effectiveness of the investment decision, and investors may not receive the whole amount they had expected the investment to yield in their investment targets; they may not preserve even the invested amount, therefore the invested capital might even decrease, be wholly lost, or even lead to additional payment obligation.
14. Trading with leveraged products (such as foreign exchange contracts, or shares and indices that have underlying products) carries a considerable amount of risk, and these products are not suitable for all investors. Trading with leveraged products carries the risk of losing all capital, and it may incur losses that exceed the amount invested.
15. **The figures and information described herein refer to the past, and past performance is not a reliable indicator of future yields, changes, or performance.** The changes on money and capital markets, the fluctuation of prices, the development of investments and their yields are influenced by the combined effect of multiple factors; one important factor of them is the change in investors' expectations. **The development of prices, the future yield of financial assets, indices or indicators, the examination of their changes, trends, and future performance is based on estimations and forecasts, which forecasts do not allow reliable conclusions to be drawn about the future moves of prices, real future yields, changes, or performance.** For each product and service, please assess their tax accounting implications, and other tax consequences, taking into account that they cannot be precisely assessed without knowing the effective tax regulations of the client's individual circumstances; and these legislative provisions as well as the circumstances may change over time.
16. OTP Bank reserves the right to modify this document in the future, without prior notice. The planned frequency of updates to the recommendation is quarterly. The initiation report preceding this research was published on 18 December 2017.

17. OTP Bank (business registration number: 01-10-041-585; registered seat: Nádor utca 16., Budapest H-1051, Hungary; authorised by Magyar Nemzeti Bank (former supervisory authority: Hungarian Financial Supervisory Authority, 'PSZÁF'). Supervisory authority: Magyar Nemzeti Bank (National Bank of Hungary – H-1054 Budapest, Szabadság tér 9); financial customer services: H-1013 Budapest, Krisztina krt. 39. The terms and conditions of this equity research and disclaimer shall be governed by and construed in accordance with Hungarian law.
18. Please note that the Internet is not a secure environment and OTP Bank does not accept any liability for any loss caused by the result of using this report in a form altered or delayed by the wilful or accidental interception, corruption or virus infection.
19. OTP Bank, in compliance with the applicable law, assumes no responsibility, obligation, warranty or guarantee whatsoever for any direct or indirect damage (including losses arising from investments), or for the costs or expenses, detrimental legal consequences or other sanctions (including punitive and consequential damage) sustained by any natural or legal person as a result of the purchase or sale of financial instruments or engaging investment services described herein, even if OTP Bank was warned of the possibility of such occurrences.
20. If you received this document from OTP Bank Plc, then it was sent to you with your previous consent. You may withdraw this permission by sending an e-mail to research@otpbank.hu or writing a letter addressed to 'Research Center', Hungary H-1051, Budapest, Nádor utca 21. Please refer to your name and e-mail address in both cases.
21. The personal data in this investment research are processed by OTP Bank. The legal basis for processing the data is the legitimate interest of OTP Bank. The detailed information about the processing of personal data and the related rights of data subjects is available [here](#).

This document was prepared by:

Orsolya Rátkai
Senior Equity Analyst
OTP Research

This document was finalized at 9:15:06 AM on 30 August 2019