

CZECH REPUBLIC

Rating Analysis - 11/26/19

*EJR Sen Rating(Curr/Prj) AA/ AA

*EJR CP Rating: A1+

EJR's 3 yr. Default Probability: 1.0%

The Czech nation's economic growth is likely to decelerate further in 2020 weighed by slowdown in the household income growth, limited job creation opportunities given the record low levels of unemployment and delay in normalization of external demand factors, esp. the auto industry.

The economy has lost some momentum in Q3'19, following healthy and resilient growth in H1 2019 with the industrial sector being the drag on overall activity. Growth is likely to slow moderately below average in 2020, but some normalization of the Eurozone going forward might provide some relief going forward. The drivers of robust household income growth are past their peak, and should drive a gradual deceleration in consumer spending. With unemployment stuck at record lows, job creation is likely to be limited. Concerns of industrial growth remains esp. the auto industry, where demand appears to have probably peaked - reflecting signs of a possible stagnation/ modest decline. We are affirming.

CREDIT POSITION

	2016	2017	2018	P2019	P2020	P2021
Debt/ GDP (%)	47.7	43.8	40.1	37.2	34.4	32.0
Govt. Sur/Def to GDP (%)	-0.4	0.8	0.9	0.9	0.9	0.7
Adjusted Debt/GDP (%)	47.7	43.8	40.1	37.3	34.5	32.0
Interest Expense/ Taxes (%)	4.6	3.7	3.7	3.6	3.5	3.4
GDP Growth (%)	3.7	5.9	5.6	2.3	2.3	2.5
Foreign Reserves/Debt (%)	96.6	141.0	148.5	157.0	165.7	174.1
Implied Sen. Rating	AA	AA+	AA+	AA	AA	AA

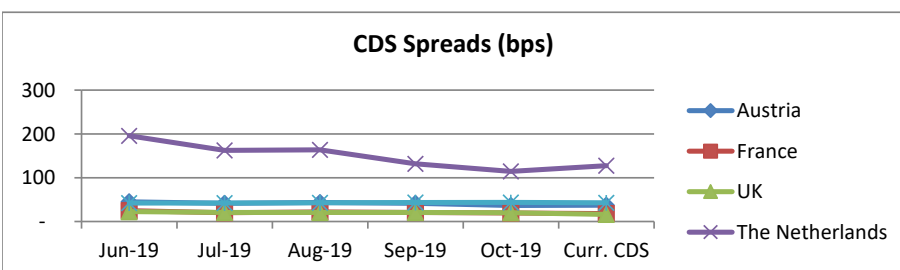
Annual Ratios (source for past results: IMF)

INDICATIVE CREDIT RATIOS

	AA	A	BBB	BB	B	CCC
Debt/ GDP (%)	100.0	115.0	130.0	145.0	170.0	200.0
Govt. Sur/Def to GDP (%)	2.5	0.5	-2.0	-5.0	-8.0	-10.0
Adjusted Debt/GDP (%)	95.0	110.0	125.0	140.0	160.0	190.0
Interest Expense/ Taxes (%)	9.0	12.0	15.0	22.0	26.0	35.0
GDP Growth (%)	3.5	3.0	2.0	1.0	-1.0	-5.0
Foreign Reserves/Debt (%)	3.0	2.5	2.0	1.5	1.0	0.5

PEER RATIOS

	Other NRSRO Sen.	Debt as a % GDP	Govt. Surp. Def to GDP (%)	Adjusted Debt/ GDP	Interest Expense/ Taxes %	GDP Growth (%)	Ratio-Implied Rating*
Federal Republic Of Germany	AAA	69.2	1.8	69.2	3.9	3.1	AA+
Kingdom Of The Netherlands	AA+	65.6	1.4	65.6	3.7	4.9	AA+
Republic Of Austria	AA+	91.6	0.6	91.6	6.1	4.2	AA+
French Republic	AA	122.1	-2.4	122.1	5.6	2.5	A-
United Kingdom	AA	113.2	-0.4	113.2	9.0	3.3	A+

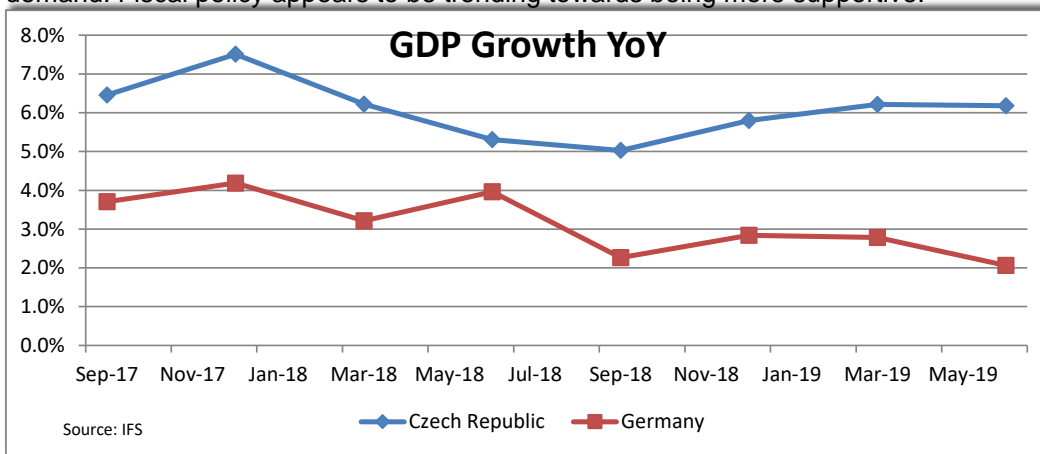


Country	CDS
Austria	37
France	18
UK	16
The Netherlands	127
Czech Republic	43

Economic Growth

Growth is projected to ease next year on softening household and government spending. The global trade war, a still-subdued German industrial sector and uncertainty over global growth all weigh on private sentiment and dampen business investment climate. The economy grew 2.5% YOY, seasonally- and price-adjusted terms in Q3'19 - below the 2.8% upturn logged in Q2'19 - and marked the lowest point in the year. On a quarter-on-quarter basis, GDP growth came in at 0.3% in Q3, well below Q2's 0.7% climb.

The Czechs are among the few in Europe still debating whether tighter policy is needed to rein in inflation, which has run at or above the 2% midpoint of the central bank's target range since May 2018. Government spending is seen increasing, esp. towards social benefits, trying to revive domestic consumption demand. Fiscal policy appears to be trending towards being more supportive.



Fiscal Policy

With general government debt of just over 40% of GDP and four consecutive years of fiscal surpluses, the Czech Republic has adequate room to support the economy, if need be. The government's plans for 2020 has plans which are supportive in nature, and includes an extraordinary increase in pensions, public sector wage rises and higher social spending. In 2021, a general election year, EJR expects the budget to become incrementally more supportive.

	Surplus-to-GDP (%)	Debt-to-GDP (%)	5 Yr. CDS Spreads
Czech Republ	0.95	40.09	42.56
Germany	1.77	69.18	9.61
The Netherlar	1.44	65.57	18.06
Austria	0.56	91.58	16.18
France	-2.35	122.14	127.18
UK	-0.39	113.24	36.94

Sources: Thomson Reuters and IFS

Unemployment

The unemployment rate in the Czech Republic dropped to 2.6% in October 2019 from 2.7% in the previous month - the lowest jobless rate since June'19. A year earlier, the jobless rate was higher at 2.8%. Unemployment Rate in Czech Republic averaged 5.41% from 1990 until 2019, reaching an all-time high of 9.69% in January 2004 and a record low of 0.09% in February 1990. We do not consider the unemployment as a potential risk to Czech's economy.

Unemployment (%)	2017	2018
	Czech Reput	2.93
Germany	3.76	3.40
The Netherla	4.86	3.84
Austria	5.52	4.86
France	9.43	9.11
UK	4.40	4.09

Source: Intl. Finance Statistics

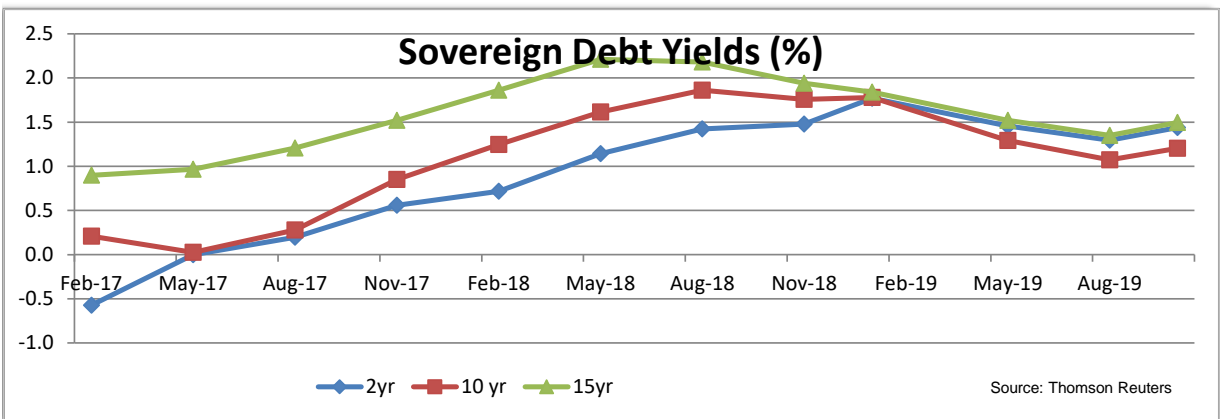
Banking Sector

The Czech banking sector is dominated by three banks: Ceska sporitelna, CSOB, and Komerčni banks, which are owned by foreign bank financial groups. Komerčni Banka is the only publicly traded top-5 bank in the Czech Republic. By the end of 2018, the number of licensed banks operating in the Czech Republic increased by two to 49 and the total value of the banking sector's assets rose by 3.8% to CZK7,332 billion.

Bank Assets (billions of local currency)		
	Assets	Mkt Cap/ Assets %
Komerčni Banka	1,059.9	14.1
Total	1,059.9	
EJR's est. of cap shortfall at 10% of assets less market cap		-43.4
Czech Republic's GDP		5,328.7

Funding Costs

The Czech central bank has been applying a more flexible approach to interest rates than some its central European peers. The Czech National Bank held its benchmark two-week repo rate unchanged at 2 percent on November 7th 2019, as widely expected. The Lombard rate and the discount rate were also kept at 3 percent and 1 percent, respectively. Interest Rate in Czech Republic averaged 4.78 percent from 1995 until 2019, reaching an all-time high of 39 percent in June of 1997 and a record low of 0.05 percent in November of 2012.



Ease of Doing Business

Major factors for growing the economy are the ease of doing business and the economic freedom; although not the sole factor for determining economic growth, a country which makes it easy for businesses to operate and provides a reasonably free environment to conduct business has a good chance for growth. The chart on the right indicates that with an overall rank of 41 (1 is best, 189 worst) is above average.

The World Bank's Doing Business Survey*			
	2019	2018	Change in
	Rank	Rank	Rank
Overall Country Rank:	41	30	-11
Scores:			
Starting a Business	134	81	-53
Construction Permits	157	127	-30
Getting Electricity	11	15	4
Registering Property	32	32	0
Getting Credit	48	42	-6
Protecting Investors	61	62	1
Paying Taxes	53	53	0
Trading Across Borders	1	1	0
Enforcing Contracts	103	91	-12
Resolving Insolvency	16	25	9

* Based on a scale of 1 to 189 with 1 being the highest ranking.

Economic Freedom

As can be seen below, Czech Republic is above average in its overall rank of 73.7 for Economic Freedom with 100 being best.

Heritage Foundation 2019 Index of Economic Freedom				
World Rank 73.7*				
	2019	2018	Change in	World
	Rank**	Rank	Rank	Avg.
Property Rights	74.8	73.0	1.8	52.3
Government Integrity	47.6	51.1	-3.5	44.9
Judicial Effectiveness	52.1	57.9	-5.8	41.5
Tax Burden	82.6	82.9	-0.3	77.2
Gov't Spending	52.1	48.6	3.5	64.2
Fiscal Health	97.6	96.2	1.4	66.0
Business Freedom	72.4	72.5	-0.1	63.5
Labor Freedom	78.1	76.8	1.3	59.4
Monetary Freedom	81.5	85.2	-3.7	75.1
Trade Freedom	86.0	86.9	-0.9	74.3

*Based on a scale of 1-100 with 100 being the highest ranking.
**The ten economic freedoms are based on a scale of 0 (least free) to 100 (most free).
Source: The Heritage Foundation

Credit Quality Driver: Taxes Growth:

Czech Republic has grown its taxes of 5.6% per annum in the last fiscal year which is more than the average for its peers. We expect tax revenues will grow approximately 5.6% per annum over the next couple of years and 5.0% per annum for the next couple of years thereafter.

Credit Quality Driver: Total Revenue Growth:

CZECH REPUBLIC's total revenue growth has been more than its peers and we assumed a 6.6% growth in total revenue over the next two years.

Income Statement	Peer Median	Issuer Avg.	Assumptions	
			Yr 1&2	Yr 3,4,5
Taxes Growth%	4.6	5.6	5.6	5.0
Social Contributions Growth %	4.2	9.8	10.0	10.0
Grant Revenue Growth %	0.0	NMF		
Other Revenue Growth %	0.0	NMF		
Other Operating Income Growth%	0.0	13.0	11.2	11.2
Total Revenue Growth%	4.5	8.1	6.6	5.9
Compensation of Employees Growth%	3.0	12.7	12.7	12.7
Use of Goods & Services Growth%	4.1	9.7	9.7	9.7
Social Benefits Growth%	2.5	5.5	5.5	5.5
Subsidies Growth%	10.3	10.0		
Other Expenses Growth%	0.0			
Interest Expense	1.5	1.9	1.9	1.9
Currency and Deposits (asset) Growth%	2.2	0.0		
Securities other than Shares LT (asset) Growth%	(2.4)	0.0		
Loans (asset) Growth%	(1.3)	(7.5)	(7.5)	(7.5)
Shares and Other Equity (asset) Growth%	0.0	3.2	3.2	3.2
Insurance Technical Reserves (asset) Growth%	0.0	18.6	18.6	16.8
Financial Derivatives (asset) Growth%	(8.7)	(43.1)	(10.0)	(10.0)
Other Accounts Receivable LT Growth%	0.8	(0.9)	(0.9)	(0.9)
Monetary Gold and SDR's Growth %	0.0	0.0	5.0	5.0
Other Assets Growth%	0.0	0.0		
Other Accounts Payable Growth%	1.1	(3.7)	3.0	3.0
Currency & Deposits (liability) Growth%	1.2	46.9	5.6	5.6
Securities Other than Shares (liability) Growth%	(1.7)	(5.5)	(3.8)	(3.8)
Loans (liability) Growth%	(3.5)	21.6	21.6	19.5
Insurance Technical Reserves (liability) Growth%	0.0	(26.8)	3.0	3.0
Financial Derivatives (liability) Growth%	0.0	(17.0)	(17.0)	(17.0)
Additional ST debt (1st year)(billions CZK)	0.0	0.0		

ANNUAL INCOME STATEMENTS

Below are Czech Republic's annual income statements with the projected years based on the assumptions listed on page 5.

	ANNUAL REVENUE AND EXPENSE STATEMENT					
	(BILLIONS CZK)					
	2015	2016	2017	2018	P2019	P2020
Taxes	894	948	1,018	1,076	1,136	1,199
Social Contributions	663	703	760	834	917	1,009
Grant Revenue						
Other Revenue						
Other Operating Income	331	266	267	301	301	301
Total Revenue	1,888	1,917	2,044	2,211	2,354	2,510
Compensation of Employees	398	419	462	521	587	662
Use of Goods & Services	283	291	296	325	357	391
Social Benefits	710	729	750	791	835	882
Subsidies	105	108	110	121	121	121
Other Expenses				143	143	143
Grant Expense						
Depreciation	206	209	212	220	220	220
Total Expenses excluding interest	1,840	1,893	1,965	2,120	2,262	2,418
Operating Surplus/Shortfall	49	24	80	91	92	92
Interest Expense	49	44	38	40	41	42
Net Operating Balance	0	-20	42	51	52	50

ANNUAL BALANCE SHEETS

Below are Czech Republic's balance sheets with the projected years based on the assumptions listed on page 5.

Base Case	ANNUAL BALANCE SHEETS (BILLIONS CZK)					
	2015	2016	2017	2018	P2019	P2020
ASSETS						
Currency and Deposits (asset)	403	433	549	578	578	578
Securities other than Shares LT (asset)	15	14	14	14	14	14
Loans (asset)	119	110	90	83	77	71
Shares and Other Equity (asset)	525	563	546	563	581	600
Insurance Technical Reserves (asset)	3	3	3	4	5	6
Financial Derivatives (asset)	1	2	1	1	1	1
Other Accounts Receivable LT	396	321	340	337	335	332
Monetary Gold and SDR's						
Other Assets						
Additional Assets	<u>0</u>	<u>0</u>				
Total Financial Assets	1,462	1,446	1,544	1,581	1,591	1,602
LIABILITIES						
Other Accounts Payable	308	301	333	321	331	341
Currency & Deposits (liability)	5	8	6	9	9	9
Securities Other than Shares (liability)	1,882	1,802	1,724	1,630	1,568	1,508
Loans (liability)	184	154	141	171	120	70
Insurance Technical Reserves (liability)	11	8	7	5	5	5
Financial Derivatives (liability)	2	1	0	0	0	0
Other Liabilities						
Liabilities	2,392	2,275	2,212	2,137	2,095	2,056
Net Financial Worth	<u>-931</u>	<u>-829</u>	<u>-668</u>	<u>-556</u>	<u>-504</u>	<u>-454</u>
Total Liabilities & Equity	1,462	1,446	1,544	1,581	1,591	1,602

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Comments on the Difference between the Model and Assigned Rating

In this case, there has been little change in the recent results and therefore we have used our best judgement in making adjustments which are reflected in the results for the projected ratings. We have assigned a rating of "AA" whereas the ratio-implied rating for the most recent period is "AA+"; we expect results to decline slightly.

Changes in Indicative Ratios

We have not made any adjustment in the indicative ratios at this time.

SEC Rule 17g-7(a) Disclosure (Non-NRSRO)

Below are the disclosures as required by Paragraph (a) of Rule 17g-7.

1. The symbol in the rating scale used to denote the credit rating categories and notches within categories and the identity of the obligor, security, or money market instrument as required by Paragraph (a)(1)(ii)(A) of Rule 17g-7:

For the issuer CZECH REPUBLIC with the ticker of 1040Z CP we have assigned the senior unsecured rating of AA.

There are three notches in our rating categories (e.g., A-, A, and A+) other than those deep into speculative grade; for CC, C, and D there are no notches.

2. The version of the procedure or methodology used to determine the credit rating as required by Paragraph (a)(1)(ii)(B) of Rule 17g-7:

We are using the methodology version #13 available via egan-jones.com under the tab at the bottom of the page "Methodologies".

3. The main assumptions and principles used in constructing the procedures and methodologies used to determine the credit rating as required by Paragraph (a)(1)(ii)(C) of Rule 17g-7:

The credit rating assigned reflects our judgement regarding the future credit quality of the issuer. Regarding the specific assumptions used, please refer to page 3 of this Rating Analysis Report.

4. The potential limitations of the credit rating as required by Paragraph (a)(1)(ii)(D) of Rule 17g-7:

Our rating pertains solely to our view of current and prospective credit quality. Our rating does not address pricing, liquidity, or other risks associated with holding investments in the issuer.

5. Information on the uncertainty of the credit rating as required by Paragraph (a)(1)(ii)(E) of Rule 17g-7:

Our rating is dependant on numerous factors including the reliability, accuracy, and quality of the data relied upon in determining the credit rating. The data is sourced from publicly-available 10Q and 10K statements, quarterly reports, 8K filings, earnings reports, and other similar sources. In some cases, the information is limited because of issues such as short operating histories, the lack of reported data, a delay in reporting data, restatements, inaccurate accounting, and other issues. Such shortcomings are not always readily apparent. EJR aims to identify such shortcomings and make adjustments using its best judgement.

6. Whether and to what extent third-party due diligence services have been used in taking the rating action as required by Paragraph (a)(1)(ii)(F) of Rule 17g-7:

EJR does not utilize third-party due diligence services.

7. How servicer or remittance reports were used, and with what frequency, to conduct surveillance of the credit rating as required by Paragraph (a)(1)(ii)(G) of Rule 17g-7:

Servicer or remittance reports normally pertain to structured finance issuers; this report does not pertain to a structured finance issuer (EJR is not an NRSRO for structured finance or sovereigns/ municipal issuers). Regarding surveillance, the minimum time period for corporation issuers is normally one year.

8. A description of the data that were relied upon for the purpose of determining the credit rating as required by Paragraph (a)(1)(ii)(H) of Rule 17g-7:

EJR uses 10Q and 10K statements, quarterly reports, 8K filings, earnings reports, governmental filings and other similar sources for ratings on publicly-traded issuers. In the case of private issuers, EJR relies on information provided mainly by issuers.

9. A statement containing an overall assessment of the quality of information available and considered in the credit rating as required by Paragraph (a)(1)(ii)(I) of Rule 17g-7: The information is generally high quality and readily avail.**10. Information relating to conflicts of interest as required by Paragraph (a)(1)(ii)(J) of Rule 17g-7:**

This rating is unsolicited.

11. An explanation or measure of the potential volatility of the credit rating as required by Paragraph (a)(1)(ii)(K) of Rule 17g-7:

Our rating aims to assess the probability of the payment of obligations in full and on-time. Factors which affect such probability, and in turn our rating, include changes in the operating performance of the issuer, changes in capital structure, and merger and acquisition events.

12. Information on the content of the credit rating as required by Paragraph (a)(1)(ii)(L) of Rule 17g-7:

Regarding the historical performance of the credit rating, our rating transition matrix is available in our Form NRSRO, exhibit 1. The expected probability of default and the expected loss in the event of default is listed on the first page of this report.

13. Information on the sensitivity of the credit rating to assumptions as required by Paragraph (a)(1)(ii)(M) of Rule 17g-7:

Below is a summary of the impact of the 5 assumptions which independently would have the greatest impact on our "ratio-implied rating":

	Assumptions			Resulting Ratio-Implied Rating		
	Base	Optimistic	Pessimistic	Base	Optimistic	Pessimistic
Taxes Growth%	5.6	9.6	1.6	AA	AA+	AA
Social Contributions Growth %	10.0	13.0	7.0	AA	AA+	AA
Other Revenue Growth %		3.0	(3.0)	AA	AA	AA
Total Revenue Growth%	6.6	8.6	4.6	AA	AA	AA
Monetary Gold and SDR's Growth %	5.0	7.0	3.0	AA	AA	AA

14. If the credit rating is assigned to an asset-backed security, a description of: (i) the representations, warranties, and enforcement mechanisms available to investors; and (ii) how they differ from the representations, warranties, and enforcement mechanisms in issuances of similar securities, as required by Paragraph (a)(1)(ii)(N) of Rule 17g-7:

This credit rating is not assigned to an asset-backed security.

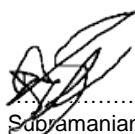
ATTESTATION FORM

In compliance with the US Securities and Exchange Commission (SEC) Rule 17g-7(a), the Egan-Jones analyst who published the report is responsible for the rating action and to the best knowledge of the person:

- 1) No part of the credit rating was influenced by any other business activities,
- 2) The credit rating was based solely upon the merits of the obligor, security, or money market instrument being rated, and
- 3) The credit rating was an independent evaluation of the credit risk of the obligor, security, or money market instrument.

Analyst Signature:

Today's Date

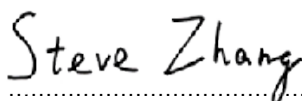


November 26, 2019

Subramanian NG
Senior Rating Analyst

Reviewer Signature:

Today's Date



November 26, 2019

Steve Zhang
Senior Rating Analyst