

### THE CENTRAL BANK OF HUNGARY

## **Enclosure:**

## The ESRB template on the O-SII buffer

1. Notifying national authority							
1.1 Name of the notifying authority	Magyar Nemzeti Bank (MNB)						
2. Description	n of the measure						
2.1 Concerned institution or group of institutions	Institution OTP Bank Nyrt. UniCredit Bank Hungary Zrt. Kereskedelmi és Hitelbank Zrt. Magyar Takarékszövetkezeti Bank Zrt. Raiffeisen Bank Zrt. ERSTE BANK HUNGARY Zrt.		LEI code 529900W3MOO00A18X956 Y28RT6GGYJ696PMW8T44 KFUXYFTU2LHQFQZDQG45 2594004MC7VOKSK7Z633 5493001U1K6M7JOL5W45 549300XWJHRKLHU2PS28 549300MSY5NIVC0BME80				
	CIB Bank Zrt. MKB Bank Zrt. The measure is applied on the	highest lev	3H0Q3U74FV	/FED2SHZT1	6		
	Institution		From 1 Jan. 2017	Level of the From 1 Jan. 2018	e buffer applied From 1 Jan. 2019	From 1 Jan. 2020	
2.2 Level of the buffer applied	OTP Bank Nyrt. UniCredit Bank Hungary Zrt. Kereskedelmi és Hitelbank Zrt. Magyar Takarékszövetkezeti Bank Zrt. Raiffeisen Bank Zrt. ERSTE BANK HUNGARY Zrt. CIB Bank Zrt.		0,50% 0,25% 0,25% 0,125% 0,125% 0,125% 0,125%	1,00% 0,50% 0,50% 0,25% 0,25% 0,25% 0,25%	1,50% 0,75% 0,75% 0,375% 0,375% 0,375% 0,375%	2,00% 1,00% 1,00% 0,50% 0,50% 0,50% 0,50%	
	MKB Bank Zrt.  Institution	EU u	0,125%	0,25%	0,375%  LEI code of Pai	0,50%	
2.3 Name of the EU ultimate parent institution	UniCredit Bank Hungary Zrt. Kereskedelmi és Hitelbank Zrt. Raiffeisen Bank Zrt.	UniCredit KBC Grou Raiffeisen (Raiffeisen	S.p.a. p NV Bank International -Landesbanken Holding)		549300TRUWO2CD2G5692 213800X3Q9LSAKRUWY91 9ZHRYM6F437SQJ6OUG95		
	ERSTE BANK HUNGARY Zrt. CIB Bank Zrt.	Erste Group Bank AG Intesa San Paolo S.p.A.			PQOH26KWDF7CG10L6792 549300UM31PJ24TTSR94		

	Until the date of filling in this notification template one subsidiary of OTP Bank Nyrt. is notified as O-S				
	(identified through supervisory judgement):				
0.41	OTP banka Hrvatska d.d. (Croatia) (LEI code: 5299005UJX6K7BQKV086)				

## 2.4 Names of subsidiaries

For a list of significant subsidiaries, see OTP Bank's Annual Report, p. 137.:

https://www.otpbank.hu/portal/en/IR/Reports/Annual

Other institutions identified as O-SIIs do not have any foreign subsidiary identified as O-SII, moreover they do not have relevant foreign presence through subsidiaries in any other country.

#### 3. Timing of the measure

3.1 Timing of the Decision	The decision was taken by the Financial Stability Council of MNB on 20 September 2016.
3.2 Timing of the Publication	The intended date of the publication is 28 October 2016.
3.3 Disclosure	The names of the designated institutions, their O-SII scores and their respective O-SII capital buffer requirements will be published on the internet webpage of the MNB.
3.4 Timing of Application	The date of activation is 1 January 2017.
3.5 Phasing in	The phase in period for the O-SII buffer requirements will run from 1 January 2017 until 1 January 2020. For the expected institution specific buffer rates see the table of 2.2.
3.6 Review of the measure	The MNB shall annually review the group of institutions identified as O-SIIs and their respective O-SII buffers.
illeasure	(Sections 89 (3) and 90 (3) b) of the Hungarian Banking Act; Article 131(6) of the CRD IV).

#### 4. Reason for O-SII identification and activation of the O-SII buffer

4.1 Scores of concerned institution or group of institutions, as per EBA guidelines on the assessment of O-SIIs

(Article 131.3)

First, the scoring methodology described in EBA/GL/2014/10 Title II (6-8) was carried out, applying only the mandatory indicators of Annex 1 of the Guidelines. Second, the scores calculated in the first step according to Title II were reweighted and according to Title III weighted optional indicators were added resulting in the final scores. The final scores are composed of the equally weighted (i.e. a 20 percent weight for each) arithmetic mean of the indicator category scores.

Institution	Size	Importance	Complexity	Inter- connectedness	Overall score (Title II)	Additional optinal indicators (Title III)	Final overall score
OTP Bank Nyrt.	3 390	2 655	3 042	2 001	2 772	1 889	2 595
UniCredit Bank Hungary Zrt.	857	979	636	530	750	1 502	901
Kereskedelmi és Hitelbank Zrt.	816	832	977	681	826	831	827
Magyar Takarékszövetkezeti Bank Zrt.	785	587	155	899	606	486	582
Raiffeisen Bank Zrt.	621	705	504	387	554	651	574
ERSTE BANK HUNGARY Zrt.	608	607	702	477	598	373	553
CIB Bank Zrt.	529	451	247	346	393	626	440
MKB Bank 7rt	617	450	210	419	424	450	430

The standard overall score according to Title II can be calculated by taking the arithmetic mean of scores in size, importance, complexity and interconnectedness categories.

- a. The MNB followed the EBA/GL/2014/10 guidelines on the assessment of O-SIIs. FINREP data were used for every available case following the Guidelines' instructions, but it had to be supplemented by supervisory data reported to MNB for a significant number of institutions.
- b. The MNB did not modify the threshold. Every institution identified as O-SII is above the 350 bps threshold calculated according to EBA/GL/2014/10 Title II.
- c. The MNB followed a two-step identification methodology in accordance with the Guidelines. First, all of the institutions which scored equal or higher than 350 bps using the 10 mandatory indicators following the standard identification methodology described in EBA/GL/2014/10 Title II were selected as O-SIIs. Second, a supplementary method was applied in accordance with Title III (13-14) to include the 5 Optional indicators listed below in point d. These indicators were included in order to provide a more robust and relevant country specific representation of systemic risks in relation to systemic importance. Optional indicators have been quantitatively assessed by aggregating the indicators in a supplementary, additional criterion group. The supplementary criterion group was added to the 4 standard criterion groups with an equal weighting amongst the groups (i.e. 20 percent group weight for every mandatory and for the one supplementary group). In the supplementary criterion group weights for Optional indicators were assigned according to a sum of squares type concentration index. Higher weights were assigned to the Optional indicators which were characterized by higher values of the concentration index. In this way critical activities supplied by fewer important institutions with considerable market shares are deemed to be more important systemically.
- d. The optional indicators taken from Annex 2 of the Guidelines which have been found relevant are the following:
  - d1. Off-balance sheet items market share based indicator aggregating outstanding credit facilities, guarantees and other off-balance sheet items carrying credit risk.
  - d2. Share in clearing and settlement system summarizes information about the market share of retail customers' transactions in the clearing system (based on the volume and number of transactions).
  - d3. Assets under custody market share in outstanding assets under custody.
  - d4. Interbank claims and/or liabilities centrality based analysis transformed into an additive indicator of unsecured interbank loans and deposits.
  - d5. Market transaction volumes or values centrality based analysis transformed into an additive indicator of FX swap transactions between credit institutions.
- e. The Optional indicators add substantial information about critical financial activities which are the least likely to be represented by the mandatory indicators. These indicators were selected based on analysis of correlations between basic and supplementary indicators and further expert judgement. Also these indicators proxy critical functions with high country specific importance and problematic substitutability for agents of the real economy (d1. and d2.) or the financial system (d3.) and help to describe financial interconnectedness of credit institutions including network analysis approach highlighting the most important inter-bank market segments (d4. and d5.).
- f. The scores resulting from the weighted aggregate of the optional indicators are listed in the Table of 4.1 for every institution (see column Additional optional indicators (Title III)). There is no institution which has been identified as O-SII solely as a result of the inclusion of the Optional indicators and which has not been identified as an O-SII based on the standard (Title II) indicators and scores in step 1 (see point c. about the two-phases identification process followed by the MNB). The inclusion of Optional indicators is motivated by their contribution to the accuracy of the representation of relative systemic importance as the buffer calibration is based on the final scores
- g. Every credit institution domiciled in Hungary has been included regardless of its total asset size.
- h. See the annexed excel file.
- i. Non-bank institutions have not been included in the calculation, because their sectoral and institutional-level systemic importance has been assessed as marginal.

4.2 Methodology and indicators used for designation of the O-SII

(Article 131.3)

# 4.3 Supervisory judgement

The group of O-SIIs was identified by the quantitative approach presented above.

# 4.4 Calibrating the O-SII buffer

The first step of the calibration is based on the formation of groups homogeneous in systemic importance to which the assignment of identical buffer rates can be justified. Following this approach three groups have been distinguished. As a general principle, institutions identified as O-SIIs are assigned at least a buffer rate of 0,5 percent. MNB assigns the maximal 2 percent buffer rate to the institution reaching an outstandingly high score. Buffer rate calibration is undertaken based on the final scores resulting from the identification process. Different methods have been applied to support group formation. Peer analysis was also utilized for within-country and international comparison. Cluster analysis on different levels of the decomposed final score (indicator category score components (listed in the Table in 4.1) and indicators were examined) was applied to minimize within group variance and to assess the sensitivity of different grouping alternatives. The BCBS (2013)<sup>1</sup> equal expected impact approach has been used to group institutions based on a probabilistic model (the final scores proxied the external impact and the distribution of the return on risk-weighted assets represented the probability of loss incidences).

Second, expert judgement has been brought in to check the validity of the results and to highlight hardly quantifiable aspects of the calibration.

# 4.5 Effectiveness and proportionality of measure

O-SII buffer is a targeted prudential instrument provided by CRR/CRDIV to decrease the probability of failure and the consequent system wide impact of those institutions which induce the greatest systemic risk as a combination of their size, the criticality of the financial functions they provide, and their highly connected positions. The increased resilience may impede the emergence of financial contagions caused by the default of highly interconnected institutions. It can safeguard the continued provision of critical financial services after taking massive losses, as market substitution of critical financial services in case an O-SII failure may not be feasible in the short run. Moreover, the potential burden imposed by the default of these institutions on bondholders, the industry and in extreme cases on the government budget also motivates the introduction of a preventive regulatory instrument (complementing the efficient recovery and resolution system in place in Hungary).

Buffer rates have been assigned to different institutions proportionally by classifying O-SIIs into three groups according to their expected impact represented by their scores (see 4.4). The highest buffer rate was assigned to OTP Bank Nyrt., which has a size above one-third of the whole market, it plays a prominent role in intermediating funds to and from the real economy, it is highly interconnected with the financial system and it operates with the greatest degree of cross-border complexity among domestic systemically important institutions. All other institutions identified as O-SIIs exceed the 5 percent of the total asset size of the sector, they contribute significantly to the supply of financial products and services to the real economy, they are deeply interconnected with other credit institutions, and they have considerable share in financial transactions carried out through the major institutions of the domestic financial infrastructure.

The extended phase-in period introduced is expected to leave enough time for capital build-up without hampering the ability of the banking system to support economic growth.

#### 5. Cross-border and cross-sector impact of the measure

## 5.1 Assessment of cross-border effects and the likely impact on the internal market

a. Based on the assessment of the transmission channels of cross-border risk adjustment and regulatory arbitrage provided by the ESRB Handbook on Operationalising Macro-prudential Policy in the Banking Sector (Chapter 11) the possible negative cross-border impact of the measure is expected to be limited.

(Recommendation ESRB/2015/2)

- Inward spillovers: The possible cross-border impact (leakages and regulatory arbitrage) is expected to be limited in Hungary.
- Outward spillovers: The MNB does not expect material negative cross-border effect on other Member States and on the Single Market. The increased resilience of the O-SIIs is beneficial for

b.

<sup>1</sup> http://www.bis.org/publ/bcbs255.pdf

5.2 Assessment of leakages and regulatory arbitrage within the notifying Member State	their stakeholders in other Member States and contributes to the functioning, financial integration and harmonized regulation of the single market. Within the identified O-SIIs only OTP Group has substantial cross-border activity. OTP Group's increased capitalization on a consolidated basis shall improve its subsidiaries' resilience. Also, the consolidated basis of the buffer requirement mitigates incentives for cross-border substitution of activities. Five of the eight identified O-SIIs are foreign parents' subsidiaries operating in Hungary. Due to the long phase-in period we expect these subsidiaries to be able to accumulate the necessary capital on their own, therefore, in most cases capital transfer from parents will not be required.  Although systemically important institutions face higher capital buffer requirements than other institutions, further institutions are going to be automatically identified as O-SIIs if they grow significantly in size, in providing critical financial functions or in their interconnectedness. Consequently O-SII buffer requirements are going to be imposed on them following the regular yearly revision of systemic importance (or in case any unique incidence may render the revision necessary in-between the regular yearly reassessments). Furthermore, any cross-sectoral leakage, which may increase the systemic relevance of non-bank financial institutions (e.g. investment firms) will be evaluated regularly and taken into account when identifying systemic institutions.			
6. Combination	ons and interactions with other mea	asures		
6.1 Combinations between G-SII and O-SII buffers (Article 131.14)	The MNB has not identified any institutions as G-SIIs within its jurisdiction. On the other hand one institution identified as O-SII by the MNB is the subsidiary of an institution subject to G-SII buffer. (see 6.3.) The MNB did not set higher buffer rate for any of the institutions concerned than their parents' buffer rates.			
6.2 Combinations with SRB buffers (Article 131.14 + Article 133.5)	The MNB applies the SRB and the O-SII buffers for mitigating different kinds of systemic risks. Therefore the SRB will not be used to mitigate risks related to those targeted by the O-SII buffer. The SRB and the O-SII buffer are cumulative as the SRB applies only to domestic exposures in Hungary.  Credit institutions concerned will be required to maintain the SRB effective from 1 July 2017. The volume of the institution-specific Systemic Risk Buffer requirements will be determined based on data related to problem exposures on 31 March 2017.  a. The institution-specific SRB buffer rates applicable from 1 July 2017 will be defined in the second quarter of 2017.  b. The Systemic Risk Buffer requirement applies only to the predetermined domestic exposures as stated in the General Decision (http://www.mnb.hu/letoltes/srb-altalanos-hatarozat-20151118-en.pdf).  c. SRB buffers in Hungary are applied on sub-consolidated level, while the O-SII buffers are applied at the highest consolidation level.			
	Institution	Ell Doront Institution	O SII buffor	C CII buffor
	Institution UniCredit Bank Hungary Zrt.	EU Parent Institution UniCredit S.p.a.	0%	G-SII buffer 1%
6.3 O-SII	Kereskedelmi és Hitelbank Zrt.	KBC Group NV	1,5%	-
requirement for a subsidiary (Article 131.8)	Raiffeisen Bank Zrt.	Raiffeisen Bank International AG (Raiffeisen-Landesbanken Holding)	2%	-
	ERSTE BANK HUNGARY Zrt.	Erste Group Bank AG	2%	-
	CIB Bank Zrt.	Intesa San Paolo S.p.A.	0%	-
6.4 Interaction with other measures	O-SIIs are subject to intensified sapplied to mitigate risks covered by	supervisory attention, but currently the O-SII buffer.	there are no	other measures

7. Miscellaneous	
7.1 Contact person(s) at notifying authority	Contact person(s) for further inquiries (name, phone number and e-mail address)  Ms. Anikó Szombati  Director, Macroprudential Directorate  Phone: +36 (1) 428 2600/1861  Email: Szombatia@mnb.hu  Mr. Péter Fáykiss  Head of Department, Macroprudential Policy Department  Phone: +36 (1) 428 2600/2239  Email: faykissp@mnb.hu
7.2 Any other relevant information	