

Systemic risk monitoring tools – the Austrian experience

Sinaia, 20 October 2016

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Department for Financial Stability and the Supervision of Less Significant Institutions

www.oenb.at





## **Agenda**

- I. The Vienna Initiative and **NPL resolution** efforts
- 2. The Austrian Sustainability Package and the CESEE subsidiaries' funding model
- 3. The sustainability of mortgage lending in the domestic market
- 4. The Austrian Financial Stress Index (AFSI)



# The Vienna Initiative: a framework for safeguarding financial stability of emerging Europe

## Forum for decision making and coordination to prevent a systemic banking crisis

- ensure that credit keeps flowing to the real economies
- limit negative fallout from nation-based uncoordinated policy responses to the global crisis
- avoid a massive and sudden deleveraging by cross-border bank groups
- NPL work stream aims at three overlapping objectives:
  - Enhancing the transparency of restructuring frameworks
  - Capacity building through technical assistance
  - Knowledge sharing



## Transparency is a bedrock for NPL resolution

## Semi-annual NPL Monitor to track progress of all activities

- Review the latest data on NPLs
- Report on recent progress
  - Progress with resolving impediments
  - Progress with NPL transactions

## New website dedicated to NPLs as an information sharing hub for the industry

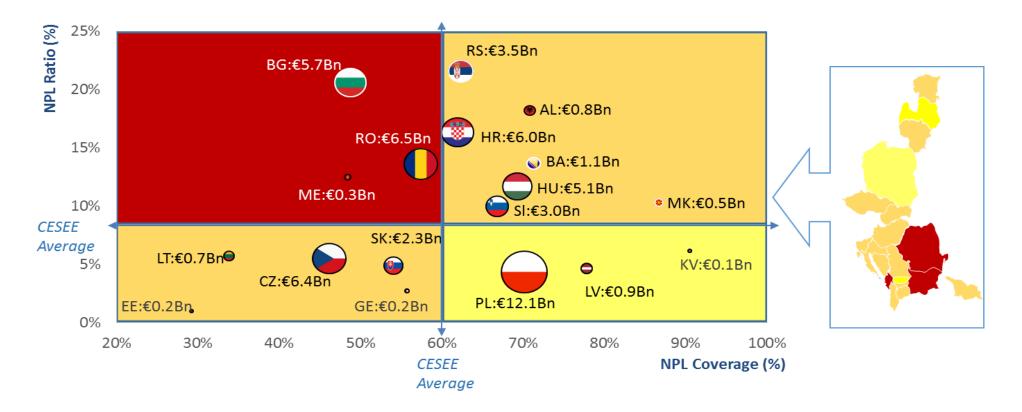
- Country information
- Best practices
- Research
- Training resources

## **NPL** ratio and **NPL** coverage ratio



as at 31 December 2015

- In 2015, the CESEE has recorded a significant reduction in NPL volume by €3.9 Billion to €55.5 Billion (-6.6%). This is mostly explained by the realised sales of NPLs.
- The region's average for NPL ratio stands at 7.7% and coverage ratio at 60.9%.



Source: Data taken from IMF meta table



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## The supervisory guidance to strengthen the sustainability of the business models of large internationally active Austrian banks (2012)



### Maintaining financial stability in Austria and CESEE

Increasing risk bearing capacity

Avoiding excessive credit growth (boom-bust-cycles)

Preparing for potential crisis situations

### **Higher capitalisation**

- As of 2013: Implementation of Basel III common equity tier 1 ratio (CET1) of 7%
- Without any related transitional provisions\*
- Update: New capital buffer regime (O-SII and SRB)
- \* Participation capital issued in the course of Austria's banks support package is eligible.

## Local stable funding base of banking subsidiaries

- Strengthening local deposits, local issuances as well as funding from supranational institutions
- Monitoring the "Loan-to-Local Stable Funding Ratio" (LLSFR) as an early warning indicator
- Discussion and decision making in the framework of supervisory cooperation

## Group recovery and resolution plans (RRPs)

- Recovery plans: Enable firms to plan how they would recover from severely adverse conditions
- Resolution plans: Providing a roadmap to resolve a failed firm, while minimising the impact on financial stability
- Update: Changes in the legal (BRRD/BaSAG) and institutional framework (SRB/NRA)

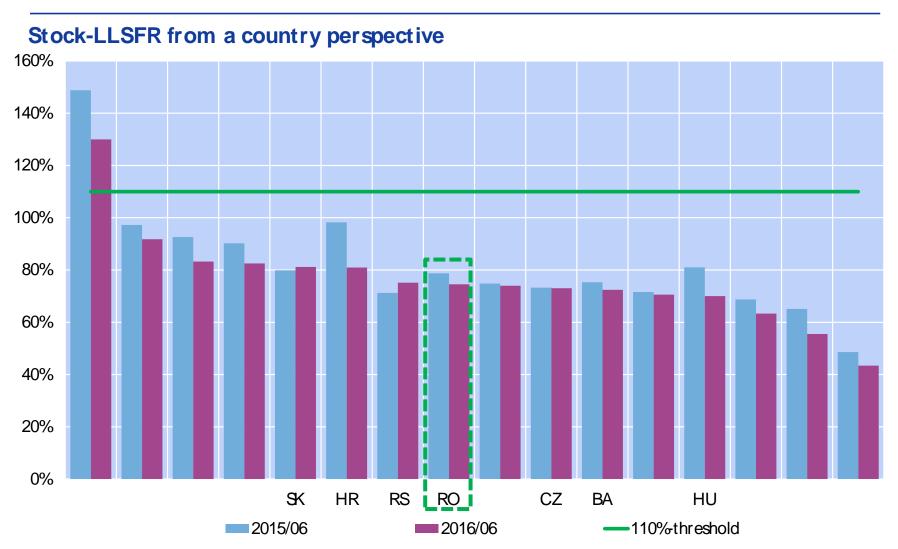
Consultations took place with the European Commission and the package is in line with the spirit of the Vienna Initiative



- I. A **standardised data template** with exact definitions has been created by the OeNB to monitor all information that is not already in the supervisory reporting database (e.g. supranational funding, internal fund transfer pricing, forecasts).
- 2. The template is **sent to the parent banks on a quarterly basis** and information is collected on a single subsidiary, Euro and end of quarter basis.
- 3. The gathered data is entered into the **OeNB's LLSFR-database** and a **quarterly analytical report** is sent to the OeNB's and FMA's senior management (incl. on- and off-site supervisors, financial stability experts).
- 4. On an **end-of-year basis**, an **all-encompassing report** is prepared and serves as a basis for further discussion with host authorities and the ECB.

All data is shared with the concerned host supervisory authorities.

# Austrian subsidiaries' business model is now strongly PNB reliant on local stable funding sources (esp. non-bank deposits)



Source: OeNB. Due to data confidentiality reasons, some countries' data cannot be shown. Unicredit BA's subsidiaries are no longer monitored.



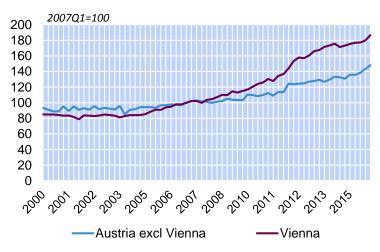
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# Real estate prices and loan growth on the rise; structural factors mitigate systemic risks

#### **Residential Real Estate Prices in Austria**



#### Mitigating factors

- Low share of owner-occupied housing
  - Vienna: 17% of households owner-occupiers, 6% of households have mortgage
- Lower-income households benefit from non-profit and public housing
- Aggregate household debt among lowest in mature EU
  - Household-debt-to-GDP ratio: 50.8% in Q1 2016, down from 54% five years
- Mortgage loans in % of GDP and of banks CET 1 low in EU comparison

- Strong increase in residential real estate prices in Vienna as well as the rest of the country
  - +9.5% in Q2 2016
- Robust growth of residential real estate loans:
  - +4,8% in July 2016
  - Pre-crisis real, adjusted growth rates approx. at current level

#### **Housing loans of Austrian households**





## Austrian authorities have taken precautionary steps

### Advice of FMSB to the Ministry of Finance to create a legal basis for LTV-/DTI-/DSTI-limits

- Unanimous decision by the Austrian Financial Market Stability Board (FMSB) on June 1<sup>st</sup>, 2016
- Proposal initiated by OeNB including a motivation and detailed requirements (see <a href="www.fmsg.at">www.fmsg.at</a>)

### FMA shall receive competence to impose the following upon FMSB-proposal

- LTV-/DTI-/DSTI-limits on new mortgage loans for the purchase/construction/renovation of real estate loans collateralized with immovable property located in Austria
- Auxiliary conditions:
  - a. Amortization requirements: maturity limits, minimum redemption requirements
  - b. Allotments: exemption of parts of the mortgage portfolios
  - c. Restrictions: geographical, types of property (private or commercial use of residential property (buy-to-let) and commercial property)
- Ex-ante and ex-post impact assessment required
- Possibility of sanctions in case of non-compliance

### → Next step: Legislative proposal

## → LTV, DTI, DSTI should be implemented at the EU level

- The harmonization of definitions of LTV-, DTI- and DSTI-ratios would enhance the consistency, comparability, robustness and the analytical quality of the work of the ESRB, ECB SSM and of national authorities.
- Coordination at the European level would be eased.



# Austrian authorities have issued opinion on sustainable lending standards

### FMSB announced its stance on criteria for sustainability

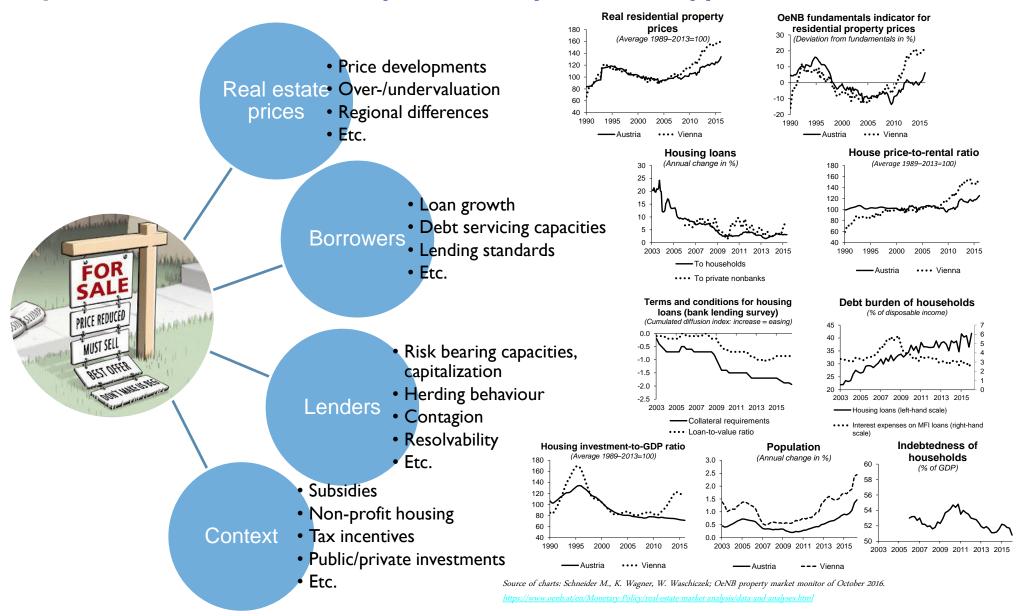
Press release by the Austrian Financial Market Stability Board (FMSB) on September 23<sup>rd</sup>, 2016 (see <a href="https://www.fmsg.at">www.fmsg.at</a>)

## Criteria encompass sustainability requirements on LTV, DTI, DSTI

- Conservative LTV ratios
  - Sufficient buffer to avoid a collateral stretch in the face of falling real estate prices.
- Banks are required to consider DSTI and DTI ratios in their risk management
  - Households must be able to service debt even under stress scenarios (e.g. reductions of household income and unexpected payment obligations).
  - Debt service capacity of households must also be resilient to plausible interest rate shocks.
- Mortgage pricing must be risk adequate and reflect credit risk as well as the costs of liquidity and capital.
- Close monitoring of the sustainability of lending standards in real estate lending by the FMSB.
  - Reporting needs to be improved.
  - Specification of the criteria and recommendations may follow.

## Systemic risk assessment requires a comprehensive approach







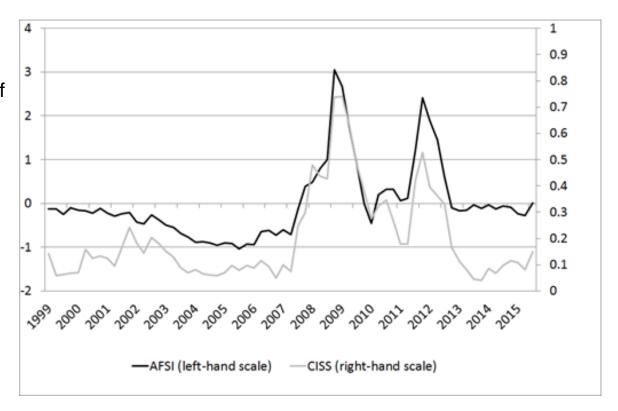
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## **Development of the Austrian Financial Stress Index (AFSI)**

- The OeNB examined various variables in the development process of an Austrian financial stress index.
- Our major selection criterion was to best reflect (past) periods of financial stress.
- In particular, our approach was motivated by Hollo, Kremer and Lo Duca (2012) who constructed the CISS a composite *indicator of systemic stress in the financial system.* 
  - The higher the AFSI (CISS), the higher the financial stress.
  - Both indices reflect two major periods of financial distress in Austria and Europe (the collapse of Lehman Brothers and the sovereign debt crisis.).
  - Financial market stress is usually a leading indicator for an economic downturn and increases the probability of a banking crisis.
  - AFSI and CISS are measured on a different scale.





## **Components of the AFSI**

Equity market is the first component of the AFSI.

It has three subcomponents.

A high ATX and Austrian
Financials return reduces
financial stress (hence
the minus sign)

A high volatility increases stress.

The 3-month EURIBOR-OIS spread is an important measure of risk and liquidity in the money market.

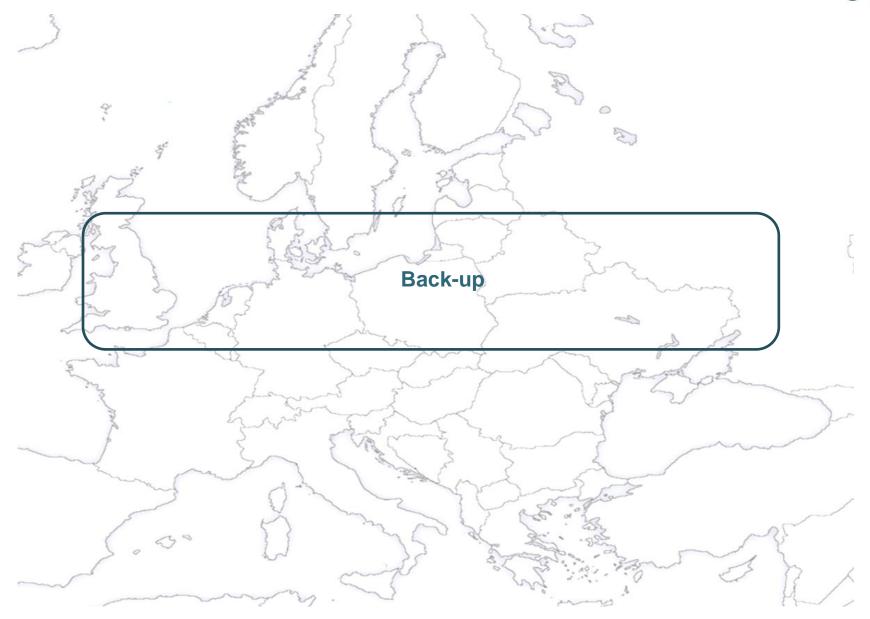
The Sovereign Bond Market spread between Austria and Germany is a standard measure of sovereign risk.

Segment	Components	Relation	Weight
	ATX yoy return		
(1) Equity Market	Datastream Austrian Financials yoy return	·	1/3
	Realized ATX volatility	+	
(2) Money Market	3-month EURIBOR-OIS spread	+	1/3
(3) Sovereign Bond Market	Spread of Austrian 10-year government bond yields over German 10-year government bond yields	+	1/3



Thank you for your attention www.oenb.at



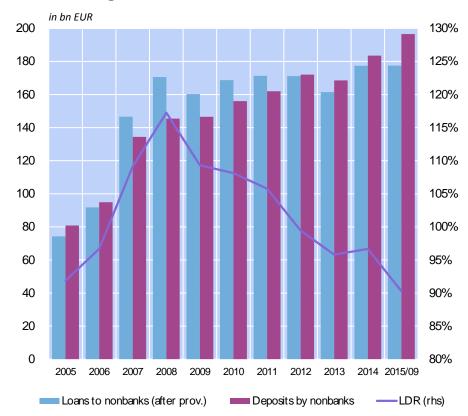


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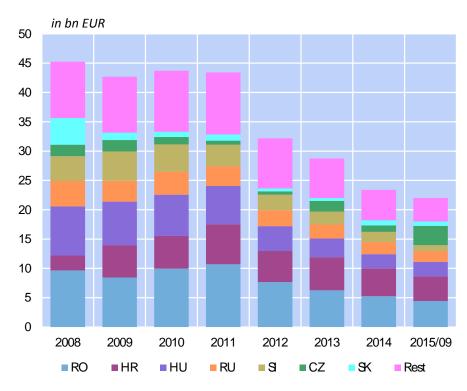
## Sustainability package: local funding situation of Austrian subsidiaries in CESEE improved significantly

#### Local funding situation of Austrian subsidiaries in CESEE



#### Source: OeNB, variable bank sample.

#### Intra-group liquidity transfers to CESEE subsidiaries



Source: OeNB. Liquidity transfers to credit institutions only.

## **Austrian Financial Stability Factsheet (1/4)**



ency unit EUR

#### **HFB | FINMA**

A Austrian Banking Sector

Financial Stability and Macroprudential Supervision Division

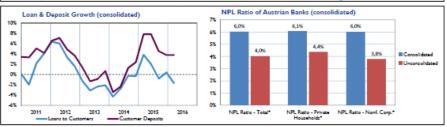
#### Financial Stability Factsheet

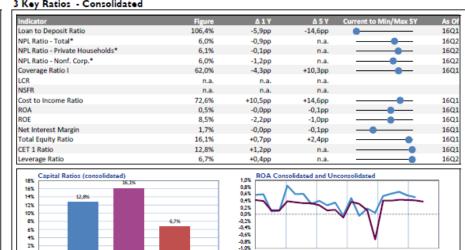


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#### 1 Assets and Capital - Consolidated Total Assets 1.067,5 bn -3,4% 16Q1 Loans to Non-MFIs 621,8 bn -1,7% 2,6% 16Q1 Consolidated data for private housholds and nonfinancial corporates currently not available useable Investments in Affiliated Companies 19,9 bn 3,6% 0,2% 16Q1 Trading Assets 172,1 bn -5,3% -18,4% 16Q1 Customer Deposits 584.6 bn 3.8% 16,7% 16Q1 Risk Provision 25,4 bn -12,8% -6,4% 16Q1 Debt Liabilities 157,2 bn -12,4% -32,3% 16Q1 CET 1 3,5% n.a. 16Q1 Tier 1 69,2 bn 3,4% 0.7% 16Q1 Total Equity 86,8 bn -2,0% -1,2% 16Q1 Total Risk Exposure 539,3 bn -6,5% -16,2% 16Q1





#### 2 Profitability - Consolidated

Indicator	Figure	Δ1Y	Δ5Y	Current to Min/Max 5Y	As O
Net Interest Income	4,5 bn	-4,0%	-10,7%	<u> </u>	16Q1
Fee and Commission Income	1,9 bn	-4,6%	-2,7%	<u> </u>	16Q:
Trading Income	-0,05 bn	-115,9%	-109,3%	•	16Q1
Other Income	0,22 bn	28%	-88,0%	_	16Q1
Operating Income	6,5 bn	-8,1%	-29,7%	•	16Q1
Operating Costs	4,7 bn	7,4%	-21,4%	•	16Q1
Operating Profit before Risk	1,8 bn	-33,5%	-45,1%	<u> </u>	16Q1
Risk Provisioning	0,3 bn	-63,5%	-78,1%	•	16Q:
Net Profit (after Tax and Minority Interest)	1,1 bn	-7.2%	-15,9%	_	16Q1



#### 4 Unconsolidated Figures

III Total Equity Ratio

■Leverage Ratio

Indicator	Figure	Δ1Y	Δ5Y	Current to Min/Max 5Y	As Of
Total Assets	850,6 bn	-4,6%	-14,3%	•	16Q2
Loans to Private Households	148,0 bn	2,2%	7,7%		16Q2
thereof FX-Loans to HH	22,8 bn	-14,8%	-43,4%	•	16Q2
Loans to Nonf. Corp.	137,2 bn	0,5%	0,4%	-	16Q2
thereof FX-Loans to NFC	4,7 bn	-25,8%	-62,6%	<u> </u>	16Q2
Customer Deposits	389,6 bn	3,2%	14,3%		16Q2
Net Interest Income	4,3 bn	-6,3%	-7,3%	_	16Q2
Operating Income	9,9 bn	-7,2%	-0,1%		16Q2
Operating Costs	7,0 bn	12,6%	23,9%		16Q2
Operating Profit	2,8 bn	-35,5%	-32,7%	-	16Q2
Risk Provisioning	1,3 bn	-21,1%	-45,4%	•	16Q2
Net Profit (after Tax and Minority Interest)	3,2 bn	-10,0%	-17,0%	-	16Q2
Loan to Deposit Ratio	111,1%	-2,7pp	-17,2pp	<u> </u>	16Q2
NPL Ratio - Total*	4,0%	-0,5pp	n.a.		16Q2
NPL Ratio - Private Households*	4,4%	-0,4pp	n.a.		16Q2
NPL Ratio - Nonf. Corp.*	3,8%	-0,6pp	n.a.		16Q2
Cost to Income Ratio	71,4%	+12,6pp	+13,8pp		16Q2
Net Interest Margin	1,0%	-0,0pp	+0,1pp	-	16Q2
ROA	0,4%	-0,0pp	-0,0pp	-	16Q2
ROE	5,5%	-0,5pp	-0,1pp		16Q1
Coverage Ratio I	66,2%	-5,9pp	-4,2pp		16Q2

2012

-ROA conz.

2013

-ROA uses

<sup>\*</sup>Data only dates back to 2014Q1 (new COREP methodology). Although other data sources would allow for longer time series, this source is the only one that allows for separate NPL ratios for households and non-financial corporations.

## **Austrian Financial Stability Factsheet (2/4)**



#### HFB | FINMA

Financial Stability and

Financial Stability Factsheet

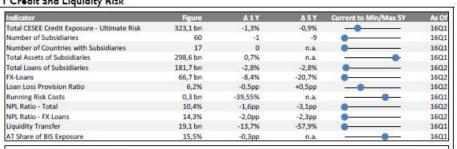


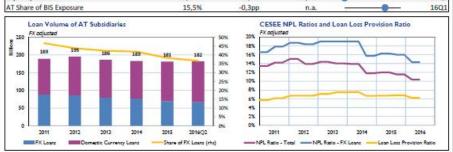
Macroprudential Supervision Division

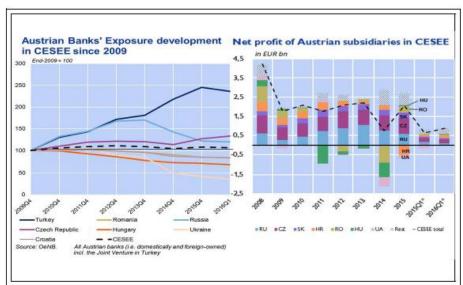
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OESTERREICHISCHE NATIONALBANK EUROSYSTEM

B Austrian CESEE Exposure September 2016 currency unit EUR
1 Credit and Liquidity Risk







#### 2 Country Indicators

c	ountry		Total Credit Exposure	Lending Subsidiaries	Loans to Private HH	FX Loans to Private HH	Loans to Nonf. Corp.	FX Losns to Nonf. Corp.	Share of FX Loans	Loan to Deposit Ratio	NPL Ratio - Total	NPL Ratio - FX Loans	Coverage I	Cost - Income Ratio	Net Profit	ROA	CET 1 Ratio	LLSFR
		As of	2016Q1	2016Q2	2016Q2	2016Q2	2016Q2	2016Q2	2016Q2	2016Q1	2016Q2	2016Q2	2016Q2	2016Q1	2016Q1	2016Q1	2015Q4	2016Q1
	ESEE T	otal	323,1 bn	181,7 bn	77,4 bn	18,1 bn	104,3 bn	48,6 bn	36,7%	88,0%	10,4%	14,3%	60,0%	53,2%	874,0 mn	1,2%	15,1%	81,3%
		HR	32,8 bn	19,5 bn	8,7 bn	5,4 bn	10,7 bn	7,6 bn	66,6%	95,6%	17,0%	17,6%	59,7%	55,1%	93,8 mn	1,1%	19,5%	91,3%
		HU	22,5 bn	10,4 bn	4,0 bn	0,0 bn	6,4 bn	3,7 bn	35,8%	78,1%	14,7%	12,7%	59,0%	81,4%	36,9 mn	0,6%	13,8%	73,1%
4	8	RO	30,6 bn	15,5 bn	8,2 bn	3,8 bn	7,3 bn	4,2 bn	51,8%	82,7%	13,2%	18,6%	59,3%	60,5%	110,4 mn	1,6%	14,3%	78,6%
5		RU	27,4 bn	18,4 bn	4,2 bn	0,3 bn	14,2 bn	8,8 bn	49,3%	81,0%	7,8%	6,0%	61,3%	34,9%	103,9 mn	1,4%	7,1%	78,9%
		TR	40,1 bn	21,7 bn	5,8 bn	0,0 bn	16,0 bn	8,1 bn	37,4%	123,7%	5,0%	0,0%	61,7%	45,3%	71,8 mn	1,0%	15,1%	103,5%
≥		UA	4,2 bn	4,0 bn	1,6 bn	1,2 bn	2,4 bn	1,2 bn	62,4%	66,6%	70,1%	91,9%	59,8%	41,9%	27,8 mn	2,9%	11,7%	56,6%
ŧ		CZ	68,4 bn	37,7 bn	18,1 bn	0,0 bn	19,6 bn	6,1 bn	16,3%	82,3%	4,0%	3,9%	60,8%	54,4%	187,2 mn	1,0%	16,7%	75,7%
.2		SK	36,5 bn	21,5 bn	12,5 bn	0,0 bn	9,0 bn	0,3 bn	1,2%	87,9%	4,9%	0,8%	52,7%	57,2%	63,2 mn	0,9%	16,2%	80,0%
ā 1		PL	19,8 bn	8,2 bn	4,6 bn	3,5 bn	3,6 bn	1,3 bn	59,0%	94,3%	8,0%	3,5%	61,5%	54,7%	34,7 mn	1,1%	14,5%	92,4%
mic T	5	SI	9,2 bn	5,1 bn	2,1 bn	0,4 bn	3,0 bn	0,0 bn	8,3%	111,3%	13,8%	10,7%	53,9%	65,6%	13,5 mn	0,7%	14,3%	103,6%
e e		BG	12,4 bn	7,3 bn	2,3 bn	0,6 bn	5,0 bn	2,7 bn	45,3%	66,9%	13,1%	20,1%	60,5%	45,3%	60,2 mn	2,0%	20,8%	64,3%
ş		RS	7,1 bn	4,8 bn	1,8 bn	1,0 bn	3,0 bn	2,5 bn	74,6%	100,1%	16,4%	19,4%	62,9%	54,0%	43,2 mn	2,4%	15,2%	83,9%
S		BA	6,6 bn	4,9 bn	2,7 bn	1,6 bn	2,2 bn	1,0 bn	53,7%	88,9%	12,5%	16,6%	72,2%	61,4%	20,1 mn	1,6%	10,9%	77,5%
		AL	1,5 bn	0,8 bn	0,2 bn	0,1 bn	0,6 bn	0,4 bn	59,9%	40,5%	20,2%	28,9%	65,7%	44,6%	-16,8 mn	-3,2%	8,8%	40,5%
		BY	1,4 bn	0,8 bn	0,1 bn	0,0 bn	0,7 bn	0,5 bn	65,0%	99,2%	9,0%	9,9%	58,7%	34,3%	20,3 mn	6,4%	8,2%	95,6%
	5 1	ME	0,4 bn	0,4 bn	0,3 bn	0,0 bn	0,1 bn	0,0 bn	2,7%	102,9%	11,3%	59,1%	58,0%	107,4%	0,2 mn	0,3%	19,5%	n.a.
	1	MK	0,3 bn	0,2 bn	0,1 bn	0,0 bn	0,1 bn	0,1 bn	62,8%	81,7%	9,9%	11,5%	81,1%	67,7%	0,4 mn	0,6%	19,8%	62,0%
		XK	0,5 bn	0,5 bn	0,2 bn	0,0 bn	0,3 bn	0,0 bn	0,0%	69,3%	7,0%	0.0%	44,3%	61,0%	3,0 mn	1,4%	11,6%	69,3%

## **Austrian Financial Stability Factsheet (3/4)**



#### HFB | FINMA

Financial Stability and Macroprudential Supervision Division

C Others Sectors and Indicators

#### Financial Stability Factsheet



**OESTERREICHISCHE NATIONALBANK** 

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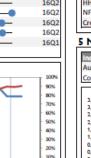
September 2016

currency unit EUR

EUROSYSTEM

Indicator	Figure	Δ1Y	Δ5Y	Current to Min/Max 5Y	As Of
Total Assets of Austrian Insurance Corp.	115,5 bn	-0,4%	8,0%		16Q1
Return on Investment (ROI)	3,9%	-0,0pp	-0,8pp		16Q2
Loss Ratio	90,3%	+3,1pp	+16,5pp		16Q2
Expense Ratio	21,0%	-0,0pp	+0,7pp		16Q2
Solvency Ratio	374,9%	-6,0pp	+31,1pp		16Q2
Asset Allocation - Debt Securities	28,6 bn	-4,8%	-12,1%	<u> </u>	16Q1





#### 4 Sectoral Indebtedness

Indicator	Figure	Δ1Υ	Δ5Υ	EU Average	As Of
Public debt in % of GDP	84,3%			92.2%	16Q2
HH debt in % of GDP		-2,0pp	+2,1pp	- ajarr	
	51,1%	-1,5pp	-2,8pp	67,1%	16Q1
NFC debt in % of GDP	91,8%	-2,4pp	-0,5pp	105,0%	16Q1
Credit to GDP Gap	-8,4%	-0,2pp	-8,6pp	•	15Q4

#### 5 Macroprudential Indicators (Model Output)

Indicator	Figure	Δ1Υ		Current to Min/Max 5Y	As C
Austrian Financial Stress Index (AFSI)	-0,14	0,12	-0,24	-	16Q
Composite Indicator of Systemic Stress (CISS)	0,17	0,09	-0,01		160
AFSI & CISS 35 30 20 20 15 10 05 05 05					0,8 0,7 0,6 0,5 0,4 0,3 0,2
2007 2008 2009 2010	2011 ——AFSI (lb:	2012 2013 e) = - CISS (rhs)	2014	2015 2016	

#### 2 Mutual Funds, Pension Funds and Other Financial Intermediaries

Indicator	Figure	Δ1Y	Δ5Y	Current to Min/Max 5Y	As Of
Total Assets Under Management	168,4 bn	-1,2%	16,1%		16Q2
Performance - Mutual Funds	1,8%	-4,9pp	-4,6pp		15Q4
Performance - Pension Funds	7,3%	-1,8pp	+1,9pp		15Q3

#### 6 Economic Indicators

Indicator	Figure	Δ1Y	Δ5Y	Current to Min/Max 5Y	As Of
Quarterly GDP Growth Austria	1,30%	+0,7pp	-2,1pp		16Q2
Quarterly GDP Growth Euro Area	1,70%	+0,7pp	-0,8pp		16Q1
Quarterly GDP Growth Germany	2,10%	+0,6pp	-2,6pp	<del></del>	16Q2
Quarterly GDP Growth CESEE-MS (non-EA)	n.a.	n.a.	n.a.		16Q1
Austrian CA-balance in % of GDP	-1,5%	-0,0pp	+1,5pp		16Q1
Inflation - Austria	0,6%	-0,4pp	-3,1pp	<u> </u>	16Q2
Long term real interest rate (10y)	0,3%	-0,4pp	-3,2pp	•	16Q2
ECB main refinancing rate	0,0%	-0,1pp	-1,3pp		16Q2





3 Real Estate Sector

## **Austrian Financial Stability Factsheet (4/4)**



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#### Financial Stability Factsheet

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Financial Stability and Macroprudential Supervision Division

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September 2016 currency unit EUR

D Definitions		Septem	ber 2016	currency un	t EUR
Indicator	Description	Source	Indicator	Description	Source
A Austrian Banking Sector			NPL Ratio - FX Loans	Non-performing FX loans divided by HH and NFC FX loans (of Austrian CESEE subsidiaries)	OeNB
1 Assets and Capital			Liquidity Transfer	Liquidity provided by AT parents to their CESEE subsidiaries (intra-group and loans only)	OeNB
Total Assets	Total concsolidated assets of Austrian banks	OeNB	AT Share of BIS Exposure	Exposure attributable to Austrian banks in relation to total BIS exposure	OeNB
Loans to Private Households	Total loans to domestic private households	OeNB	2 Country Indicators		
Loans to Nonf. Corp.	Total loans to domestic non-financial corporations	OeNB	Total Credit Exposure	Total credit exposure of Austrian banks including direct and indirect lending	OeNB
Investments in Affiliated Companies	Equity investments in affiliated companies and participations	OeNB	LLSFR	Loan to Local Stable Funding Ratio	OeNB
Trading Assets	Total assets held for trading	OeNB	C Others Sectors and Indicators		
Customer Deposits	Liabilities against customers	OeNB	1 Insurance Sector		
Risk Provision	Current level of provisions / allowances for credit risks	OeNB	Total Assets of Austrian Insurance Corp.		OeNB
Debt Liabilities			Return on Investment (ROI)	Net investment income divided by average financial investments	FMA
CET 1	Common equity tier 1 according to Basel III	OeNB	Loss Ratio	(Payments for claims + Changes in provision for outstanding claims)/Premiums earned	FMA
Tier 1	Tier 1 equity according to Basel III	OeNB	Expense Ratio	(Acquisition expenses + Other administrative expenses)/Premiums earned	FMA
Total Equity	Total equity according to Basel III	OeNB	Solvency Ratio	Own funds divided by regulatory own funds	FMA
Total Risk Exposure	Total risk exposure that serves as the denominator for calculation of capital ratios	OeNB	Asset Allocation - Debt Securities	Funds allocated in debt securities	FMA
2 Profitability			CESEE Exposure of AT Insurance Corp.		FMA
Net Interest Income	Total interest income net of interest expenses	OeNB	2 Mutual Funds, Pension Funds and Other Financia	I Intermediaries	
Fee and Commission Income	Total fee and commission income net of fee and commission expenses.	OeNB	Total Assets Under Management	Net asset value of institutional funds	OeNB
Trading Income	Total trading earnings net of trading losses	OeNB	Performance - Mutual Funds	One year performance of Austrian mutual funds	OeNB
Other Income	Includes dividend income, gains and losses on financial assets, gains and losses on derecognition of non-	OeNB	Performance - Pension Funds	One year performance of Austrian pension funds	OeNB
	financial assets and other operating income		Performance - Severance Funds	One year performance of Austrian severance funds	OeNB
Operating Income	Total operating income, net	OeNB	Share of Other Financial Intermediaries		OeNB
Operating Costs	Total operating costs	OeNB	3 Real Estate Sector		
Operating Profit before Risk	Profit or loss before risk, taxes and minority interests from continuing operations.	OeNB	Real Estate Price Index (Austria w/o Vienna)	Real estate price index for Austria (without Vienna)	OeNB
Risk Provisioning	Impairment on financial assets not measured at fair value through profit or loss	OeNB	Real Estate Price Misalignment - Austria	Deviation from fundamental real estate price in percent - Austria	OeNB
Net Profit (after Tax and Minority Interest)	Profit or loss after tax and minority interest	OeNB	Real Estate Price Misalignment - Vienna	Deviation from fundamental real estate price in percent - only Vienna	OeNB
3 Key Ratios			Credit Growth Housing Loans	Q-o-Q change of real estate loans to households	OeNB
Loan to Deposit Ratio	Non-financial customer loans divided by non-financial customer deposits.	OeNB	4 Sectoral Indebtedness		
NPL Ratio - Total	Customer loans (HH & NFC) classified as non-performing divided by total customer loans	OeNB	Public debt in % of GDP	Austrian public debt in percent of Austrian GDP	OeNB
NPL Ratio - Private Households	Loans to priv. HH classified as non-performing divided by total loans to priv. HH	OeNB	HH debt in % of GDP	Austrian household debt in percent of Austrian GDP	OeNB
NPL Ratio - Nonf. Corp.	Loans to NFC classified as non-performing divided by total loans to NFC	OeNB	NFC debt in % of GDP	Austrian non-financial corporate debt in percent of Austrian GDP	OeNB
Coverage Ratio I	Risk provision divided by total non-performing customer loans	OeNB	Credit to GDP Gap	Difference between the credit-to-GDP ratio and its long-term trend	OeNB
Counter Balancing Capacity	Realisable liquidity (subsequent month)	OeNB	5 Macroprudential Indicators (Model Output)		
Net Interbank Position	Net position of the Austrian banking system in interbank operations (subsequent month)	OeNB	Austrian Financial Stress Index (AFSI)	contemporaneous financial soundness index quantifies the level of stress in the Austrian financial market.	OeNB
Cost to Income Ratio				A high positive value of this unit-free index signals stress	
ROA (rhs)	Return on Assets	OeNB	Composite Indicator of Systemic Stress (CISS)	a contemporaneous financial soundness index quantifies the level of financial stress in the Euro Area. It is	OeNB
ROE	Return on Equity	OeNB		unit-free and constrained to lie witin the interval (0, 1), with 0 signaling no stress.	
Net Interest Margin	Net interest income divided by total assets		6 Economic Indicators		
Total Equity Ratio	Total Equity divided by total risk exposure	OeNB	Quarterly GDP Growth Austria	Austrian quarterly real GDP growth	OECD
CET 1 Ratio	CET 1 divided by total risk exposure	OeNB	Quarterly GDP Growth Euro Area	Euro Area quarterly real GDP growth	OECD
Leverage Ratio	Leverage Ratio according to Basel III	OeNB	Quarterly GDP Growth Germany	German quarterly real GDP growth	OECD
B Austrian CESEE Exposure			Quarterly GDP Growth CESEE-MS (non-EA)	real GDP growth for the non-euro area EU member states (BG, CZ, HU, HR, PL, LT, RO)	OECD
1 Credit and Liquidity Risk			Austrian CA-balance in % of GDP	Current account balance of Austria divided by Austrian GDP	OeNB
Total CESEE Credit Exposure - Ultimate Risk	CESEE exposure against credit institutions, non-financial customers - ultimate risk basis	OeNB	Inflation - Austria	Quarterly Austrian rate of inflation (measured by consumer price index)	OeNB
Number of Subsidiaries	Number of CESEE subsidiaries owned by Austrian top 7 banks excluding joint ventures	OeNB	Long term real interest rate (10y)		ECB
Number of Countries with Subsidiaries	Number of CESEE countries that host subsidiaries owned by Austrian top 7 banks (excl. JVs)	OeNB	ECB main refinancing rate		ECB
Total Assets of Subsidiaries	Total Assets of Austrian CESEE subsidiaries (incl. YapiKredi)	OeNB			
Total Loans of Subsidiaries	Total Loans of Austrian top 7 bank's CESEE subsidiaries (incl. YapiKredi)	OeNB			
FX-Loans	Total foreign currency loans of Austrian top 7 bank's CESEE subsidiaries (incl. YapiKredi)	OeNB			
Loan Loss Provision Ratio	Loan loss provision divided by total loans of Austrian CESEE subsidiaries (incl. YapiKredi)	OeNB			
Running Risk Costs	Allocation to loans loss provisions / allowances	OeNB			
NPL Ratio - Total	Non-performing loans divided by HH and NFC loans (of Austrian CESEE subsidiaries)	OeNB			