



Risk Retention in the European

Securitisation market: Skimmed

by Skin-in-the-Game Methods?

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Overview

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Introduction

European regulation has sought to improve skin-in-the-game

- Following the Global Financial Crisis investor confidence in the securitisation market plummeted.
- The risk retention rule for securitisations came into force in the EU as of 2011 for new securitisations with the purpose to better align the interest of the originator and investor.
- The rule states that the originator, sponsor or original lender should, at all times, **retain a material net economic interest of no less than 5%** in the securitisation transaction via one of the following methods:

1. First loss tranche (FLT)

At least 5% of the total nominal value of the **equity tranche** should be retained

2. First loss exposure (FLE)

At least 5% of the total nominal value of the **securitised exposure** is retained

3. Vertical slice (VES)

At least 5% of the nominal value of each of the tranches should be retained

4. On-balance sheet (OBS)

Randomly selected portion of the exposures of at least 5% of the nominal value are to be retained

Should all regulatory risk retention methods be seen as equally aligning incentives?

- European regulation is based on the assumption that all risk retention methods homogenously align the incentives and interests between originators and investors.
- This seems surprising, given that these methods differ in the way they align the incentive between the originator and investor.
- Consequently, we seek to investigate three research questions:
 - 1

Do investors differentiate in their pricing between the different risk retention methods?

2

Were investors informed, via the **credit rating**, about the differences in risk profiles of securitisations with different methods?

3

Are **capital relief motives or deal characteristics** influencing the **likelihood of originators** for choosing a specific method?



Risk retention in securitisations

Regulation treats all risk retention methods equally while literature provides evidence for existing differences...



- Article 205 of the CRR sets forth the risk retention rules for securisations issued before 1 January 2019 and all securitisations issued thereafter should follow the Regulation (EU) No 2017/2402*.
- The requirements relating to the risk retention pursuant to Article 6(7) of Regulation (EU) No 2017/2402 are specified in the <u>EBA final draft</u> regulatory technical standards.



_iterature

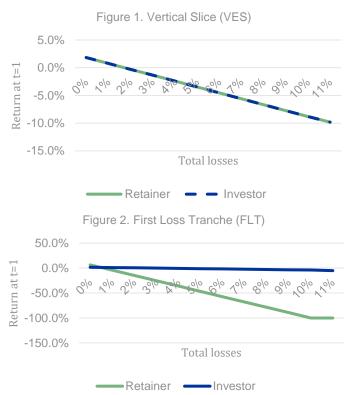
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- Previous literature provides rather mixed empirical evidence:
- Some (e.g. Kiff and Kisser, 2014; Malekan and Dionne, 2014; Vanasco, 2017) argue that the FLT method is best aligning the interest between the tranche retainer and investors.
- While others (e.g. Bektić and Hachenberg, 2021; Tavakoli, 2008) argue that the VES method is more suitable.

^{*} Regulation (EU) No 2017/2402 of the European Parliament and of the Council of 12 December 2017 laying down a general framework for securitisation and creating a specific framework for simple, transparent and standardised securitisation, and amending Directives 2009/65/EC, 2009/138/EC and 2011/61/EU and Regulations (EC) No 1060/2009 and (EU) No 648/2012.

...when exploring the different retention methods theoretically we also find considerable differences

- To demonstrate differences in risk profiles, we simulate the return per loss rate of both the retained part and the part sold to investors.
- Considering the expected returns, incentives alignment between retainer and investor is perfect for VES (figure 1), closely aligned for OBS, rather divergent for FLE and very divergent for FLT (figure 2).
- But, as the retainer takes the first losses in the FLT method, it might also be seen as a signal of confidence for the market.



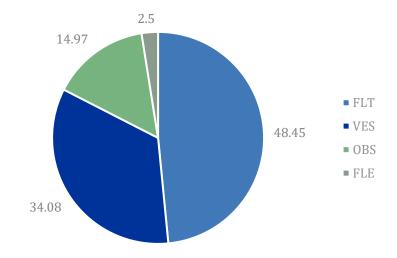


Data & Methodology

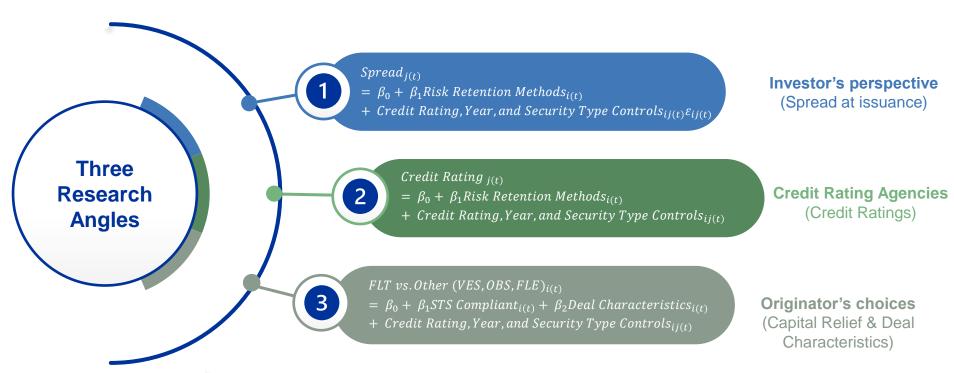
We analyse a wide universe of securitisation transactions with a total value of €957 billion...

- We use a unique dataset, obtained from Bloomberg, on tranche-level data of European securitisation transactions issued and sold between 2011 and 2021.
- Eliminating tranches with missing information, our final sample comprises 2157 tranches with a total value of €957 billion.
- The FLT method was used most, followed by VES and OBS. Only in a few occasions FLE is used (Figure 3).

Figure 3. Risk retention methods (% of total sample)



We apply several (ordered) logit and ordinary least squares (OLS) models to test our research questions



These are simplified formulas, for the complete models, please see the paper.



Results

Investors adjust their pricing at issuance, beyond the credit rating, for tranches with different risk retention method...

- Controlling for the credit rating, spread at issuance is significantly higher for FLT, as denoted by the negative significant coefficients of OBS and VES (Table 1).
- In line with our expectations; the loss and return profile of the OBS and VES method seem to (mathematically) best align the interest between the retainer and investor over time (i.e. monitoring of the pool exposures).

Table 1: Ordinary least squares regressions of Risk Retention Methods on Spread at Issuance (floating-rate tranches only)*			
	Dependent = Spread at Issuance (bps)		
	(1)		
VES	-27.45**		
	(-2.40)		
OBS	-36.08***		
OB2	(-4.61)		
FLE	-6.85		
	(-0.48)		
Controls	Υ		
Observations	354		

We find that investors do not value the different risk retention methods as equally risky.

^{*} We use FLT as the baseline as this method is most used in our sample.

Credit rating agencies assign better ratings to securitisations using the FLT method

- A review of rating methodologies and discussions with CRAs suggest that current rating methodologies do not consider the methods as an explicit input factor.
- Our findings show that credit ratings are on average worse for the VES method than for tranches with the FLT method (Table 2).
- This suggests that originators are more likely to use the FLT method when they have greater confidence in the overall deal, i.e. for deals with overall lower default risk.

Table 2: Ordered logit regressions of Risk Retention Methods on Credit Rating*

Dependent = Credit Rating					
	Full sample	Moody's	S&P	DBRS	Fitch
	(1)	(2)	(3)	(4)	(5)
VES	0.69*** (6.18)	0.53*** (3.40)	1.27*** (6.54)	0.38*** (2.83)	0.30 (1.37)
OBS	-0.20 (-1.63)	-0.11 (-0.71)	-0.02 (-0.07)	-0.15 (-0.91)	-0.45** (-2.12)
FLE	0.45* (1.74)	1.17** (2.26)	1.46*** (3.48)	0.02 (0.09)	-0.03 (-0.07)
Controls	Υ	Υ	Υ	Υ	Υ
Observations	2,157	1,183	856	1,385	744

Originators seem to use FLT for lower credit risk deals and as a signal of confidence.

^{*} We use FLT as the baseline as this method is most used in our sample.

VES is becoming more popular since the introduction of the Securitisation Regulation

- We find a significant increase in the number of newly issued securitisation deals with the VES method from 2017 onwards.
- For the other methods we observe a relative stable trend.
- The introduction of the Sec Reg may have increased the confidence in the market and thus there might be less need for banks to signal confidence to the market by choosing the FLT method.

Figure 3. Number of deals sorted by risk retention methods and year*



^{*}It took some time for issuers to comply with the rule, this is why we observe information on the methods mainly as of 2014 onwards.

When choosing a method, originators consider capital relief benefits and deal complexity

- Although one might expect that the preference for VES is related to the simple, transparent and standardised (STS) criteria (part of Sec Reg), we find no significant relation between the STS criteria and VES (Table 3).
- But we do find that originators are more likely to choose the OBS method (over FLT) when a deal is STS compliant.
- We also find that originators consider deal characteristics when choosing a method. For example, originators are less likely to choose the FLT method when the deal is more complex.

Table 3: Logit regressions of Risk Retention Methods on STS Compliant (deal-level)*					
	Dependent	= FLT vs. Of	ther (VES,	OBS, FLE)	
	VES vs. FLT	OBS vs	s. FLT	FLE vs. FLT	
	2011-2021	2011-2021	>2018	2011-2021	
	(1)	(2)	(3)	(4)	
STS Compliant	-0.14 (-0.46)	1.05** (2.43)	1.96*** (3.36)	-1.57 (-0.76)	
No. of Tranches	0.23*** (3.92)	0.23*** (2.95)	0. 72 *** (4.27)	0.50*** (2.80)	
Log Transaction Size	0.29** (2.10)	0.20* (1.71)	0.49** (2.06)	0.02 (0.05)	
Controls	Υ	Υ	Υ	Υ	
Observations	703	606	302	318	

We show that originators base their choice for a particular method on factors that go beyond the alignment of incentives, such as capital relief benefits for the originators or deal complexity.

^{*} We use FLT as the baseline as this method is most used in our sample.

Skimmed by Skin-in-the-Game methods?

Unsurprisingly there are differences in the way risk retention methods align incentives.

It seems that:

- > Originators base their choice on various considerations incl. capital relief benefits and deal complexity.
- > Credit rating agencies signal higher inherent credit risks via worse ratings for VES transactions.
- ➤ Investors consider the on average better rating for FLT (Table 2) but demand compensation for the unaligned incentives that come with the FLT method (Table 1).
 - The additional risks might be caused by the higher likelihood of **insufficient portfolio** management over time as well as the **higher split ratings for FLT** (Table A1).



Conclusion

We show that risk retention methods should not be treated equally...



We suggest that the **different risk profiles** associated with the various methods should be taken into consideration by regulators and supervisors.



We recommend further research to determine the optimal design of the retention methods, to achieve similar levels of incentive alignment.



We also recommend future research to further explore why banks select a particular risk retention method, for example by looking at their balance sheet information and business model.

Thank you for your attention!

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Annex

Credit rating agencies experience rating disagreements depending on the tranche's risk retention method

- Our results show that rating disagreements amongst CRAs are less likely, on average, for the VES and FLE method than for the FLT method (Table A1).
- Tranches with the FLT method have **lower credit risk** (Table 2), but **CRAs seem to misalign more** in their credit risk assessment (Table A1).

Table A1: Ordered logit regressions of Risk Retention Methods on Rating Discrepancy*			
	Dependent = Rating Discrepancy		
	Full sample		
	(1)		
VES	-0.52*** (-3.74)		
OBS	-0.18 (-1.13)		
FLE	-1.05*** (-3.43)		
Controls	Y		
Observations	1,865		

- It might be that investors consider the on average better rating for FLT (Table 2) but compensate for the additional risks that come with the FLT method by increasing the spread at issuance (Table 1).
- > The additional risks might be caused by the higher likelihood of **insufficient portfolio management** over time as well as the **higher split ratings for FLT** (Table A1).

^{*} We use FLT as the baseline as this method is most used in our sample.

Robustness analyses

 We show that our results are robust when controlling for STS Compliant, Single Originator, GDP Growth Rate and Country of Risk.

Table <i>i</i>	A2. Robustness Analyses		
	Credit Rating	Rating Discrepancy	Spread
	(1)	(2)	(3)
VES	0.59***	-0.55***	-33.51***
	(5.15)	(-3.79)	(-2.66)
OBS	-0.03	-0.23	-33.93***
	(-0.20)	(-1.37)	(-4.11)
FLE	0.42	-1.06***	-3.07
	(1.59)	(-3.43)	(-0.19)
Subordination Level	-0.62***	-0.25	-32.40**
	(-4.03)	(-1.27)	(-2.25)
No. of Tranches	-0.12***	0.07**	-2.70
	(-5.63)	(2.51)	(-1.27)
Log Tranche Value	-1.05***	-0.07	-25.97***
	(-28.19)	(-1.40)	(-7.07)
Log Transaction Value	0.82***	0.34***	30.20***
	(13.02)	(3.94)	(5.17)
Frequent Originator	-0.42***	0.10	32.89***
	(-4.48)	(0.85)	(2.99)
Rating Discrepancy	0.29***		17.88***
	(9.37)		(5.76)
Benchmark Rate			25.97*
			(1.76)
STS Compliant	-1.11***	0.51***	0.41
	(-8.98)	(3.23)	(0.04)
Single Originator	0.82***	0.08	-40.70***
	(4.70)	(0.36)	(-3.23)
GDP Growth Rate	0.02	-0.01	1.21
	(1.35)	(-0.54)	(1.24)
Credit Rating	Υ	Υ	Υ
Year	Y	Υ	Υ
Security type	Y	Υ	Υ
Country of Risk	Y	Υ	Υ
Originator	Y	Υ	Υ
Observations	2,153	1,861	354
Pseudo R-squared	0.140	0.208	
Adjusted R-squared			0.791