

### A NEW MONETARY TOOLKIT 7 MAY 2020





#### **ON TODAY'S CALL**



#### **DR. CHRISTIAN THUN**

- **\$\$ +49 69 50986 9305**
- christian.thun@eurodw.eu



#### PROF. JOSÉ MANUEL GONZÁLEZ-PÁRAMO

- **49 69 50986 9305**
- enquiries@eurodw.eu



#### **ROBERT KOLLER**

- +352 2786 8000 Ext 301
- r@eppf.eu



### AGENDA

- WELCOME AND INTRODUCTION
  - Dr. Christian Thun, CEO of European DataWarehouse
- ANSWERING TO THE CHALLENGE OF AN UNPRECEDENTED CRISIS
  - Prof. José Manuel González-Páramo, Chairman of European DataWarehouse
- A NEW MONETARY TOOLKIT TO HELP COMBAT THE ECONOMIC CONSEQUENCES OF THE CORONA PANDEMIC
  - Robert Koller, Executive Chairman of EPPF
- DATAWAREHOUSING BEYOND ABS
  - Dr. Christian Thun, European DataWarehouse
- Q&A



# ANSWERING TO THE CHALLENGE OF AN UNPRECEDENTED CRISIS PROF. JOSÉ MANUEL GONZÁLEZ-PÁRAMO



# A NEW MONETARY TOOLKIT TO HELP COMBAT THE ECONOMIC CONSEQUENCES OF THE CORONA PANDEMIC ROBERT KOLLER





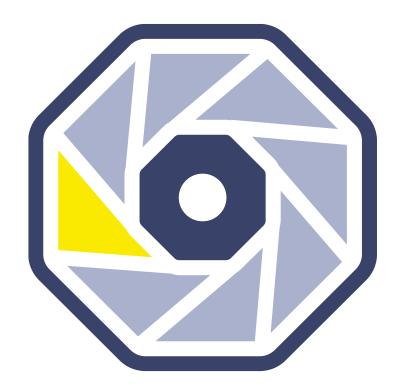
# A new monetary toolkit for an unprecedented challenge

Thoughts about financial measures to help combat the economic consequences of the Corona pandemic

**Robert Koller, CAIA Executive Chairman, eppf Group** 

7 May 2020

Prepared by eppf in cooperation with **(iii) OMFIF** 



Luxembourg, Frankfurt and London

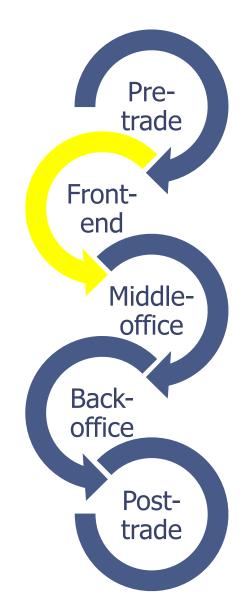
### capital markets as a service (CMaaS)



To date, the fixed income space can be seen as the "last bastion" of slow and manual processes and a patchwork of **partial solutions**. We count some 150 steps along the bond value chain. As a result, costs are **multiplied** and efficiencies lost.

Now, market participants can join eppf and "rent" the full value chain for fixed income capital markets services.

eppf covers all areas of the "DCM value chain": pre-trade, middle- and back office, post-trade, and is implementing a bank-centric front-end (live in 2020)



### Single european debt security® (SEDS)



### Single European Debt Issuance Programme<sup>®</sup> (SEDIP):

- ✓ eppf has developed with many stakeholders an industry standard debt issuance programme<sup>™</sup>
- $\checkmark$  it is recognised throughout Europe
- ✓ the SEDIP is a multi-jurisdictional programme
- ✓ it is based on a entirely new modular architecture
- ✓ fully prospectus regulation compliant
- ✓ SEDIP is always up to date with any regulatory requirements without any costs
- ✓ all SEDIP based documents are fully machine readable
- $\checkmark$  only eppf clients can use the SEDIP

current together with the registration document of european primary placement facility (epp SA, dated 14 General 2018) the testion bocument of a strate prospectial of european primary placement facility (epp SA, dated 14 General 2018) the testion possible of Article 49() of Directive 2007/EG of the Sanopan Parketer Registration Counter Registration and the strategy of the strat

#### Securities issued under SEDIP

- <sup>Ay</sup> our all SEDS are built upon the same architecture
- ntoso ✓ SEDS increase liquidity

(SEDS):

- $\checkmark$  for the first time SEDS allow bond compression
- ✓ SEDS can be issued in real-time
- ✓ only eppf clients can issue SEDS
- ✓ both, the SEDIP and SEDS are fully compliant with the EU Capital Markets Union

Prospectus together with any supplements hereto and ell documents incorporated herein by reference will be published in elect on the website of the Luxembourg Stock Exchange (www.bourse.lu) as well as on the website of the Issuer (www.eppf.eu), pectus is valid for a period of 12 months from its date of approval.

### eppf is independent and regulated

### Independent

- eppf is neutral to banks, investors, borrowers, rating agencies and law firms
- The neutrality as an important element in eppf's ambition to become new market standard
- Independence is also important as eppf evolves with FinTech solutions (eppf Markets)

### Regulated

- eppf is regulated by the CSSF in Luxembourg
- One of 33 licensed entities<sup>1</sup>







csst

### An unprecedented crisis and many tools used



### Financing needs exceeding capabilities of single countries

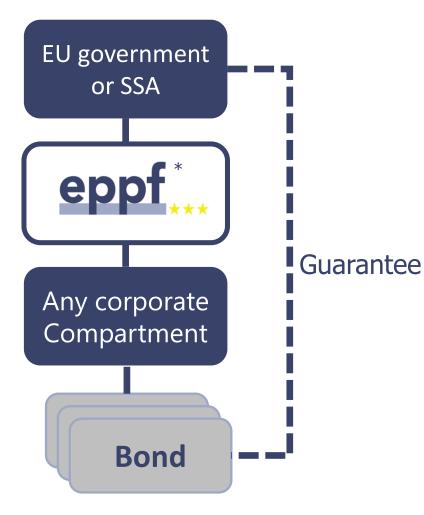
- Financing needs from Corona pandemic will lead to massive expansion of sovereign debt
- International co-operation is required this crisis is too big for any single country
- ECB's Pandemic Emergency Purchase Programme is a step in the right direction
- An innovative round-the-clock bond trading platform can provide considerable support

### **Current tools already used**

- Traditional tool kit has largely been deployed
  - ZIRP
  - LTRMs
  - Asset purchases, etc.
- This makes innovation necessary for effective action
- Other sectors than banks, like airlines, will need large bail-outs including equity stakes
- Targeting yield curves and outright monetisation might be on the table

### Proposal for government guaranteed issuance epf

### Giving normal corporates the same tools as banks in 2008



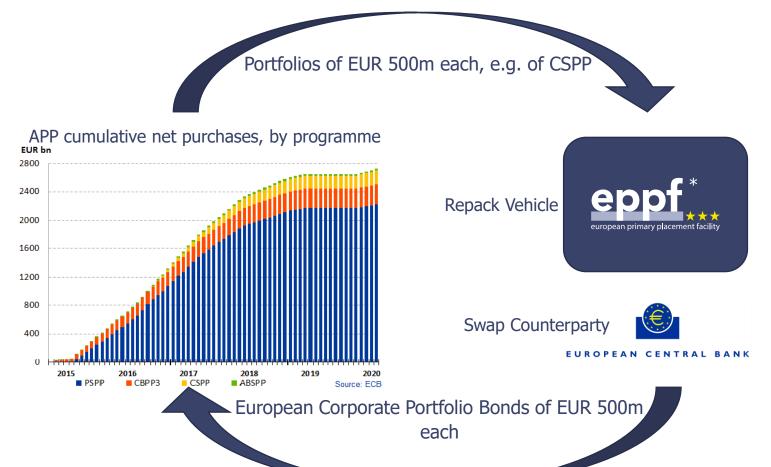
- In 2007/2008 governments issued guarantees so that banks could use issue bonds guaranteed by their respective governments, e.g. SOFFIN in Germany
- This possibility does not exist in any large-scale for corporates in Europe (or elsewhere)
- eppf can provide a large-scale, large volume and high-speed issuance facility for any corporate in Europe at infinite scalability
- Given a government guarantee, the prospectus regulation is not applicable and would facilitate issuance for each corporate in a matter of a few hours
  - Given that eppf can also provide digital listing with several exchanges, such bonds should also be collateral and purchase programme eligible
- Investor would benefit from additional supply of what are in fact government or agency bonds, e.g. ESM guarantee
- eppf staff and its partners have been heavily involved in 2007/2008 in working with governments and agencies

10

### Large-scale repackaging



### Creating new safe assets in scale



- Due to unique technology eppf can convert large portfolios of underlying assets in new bonds
- After grouping similar maturities and diversifying underlyings, eppf can create new bonds of the underlying assets in near real-time
- E.g. ca. EUR 190bn CSPP holding could be converted into 380 500m benchmark bonds in a matter of days (other sizes possible)
  - This can also apply to PSPP (> 4,000 new bonds) or CBPP3 (> 500 new bonds) assets

### Large-scale repackaging



- There is no need to tranche the assets
- This will create immediately a highly liquid new single asset class that can be increased either by the private sector or the public sector
- Liquidity and safe asset status will be achieved due to single issuer and standardised terms, independently from the underlying, large volume of outstanding securities and complete curve
- New bonds could be called "European Corporate Portfolio Bonds" and will be based on the Single European Debt Issuance Programme
- The ECB would still be the custodian of the underlying and receive interest payments
- The ECB should act as swap counterparty to straighten interest payments of the underlying
- Also tranches in other currencies could be repacked in the same way with other central banks acting as swap counterparty
- The swap counterparty can either make up for losses of the underlying or pass them on to endinvestors
- Repackaging as described here does not mean mutualisation of the underlying obligations, subject to swap

### Adding to large scale repackaging



### Feeding in new safe assets

## ECB to launch €750bn bond-buying programme

Pandemic Emergency Purchase Programme will cover sovereign and corporate debt

- Currently only buying bonds of large corporates
- Large supply chains only in some industries
- Trickle down effect not achieved
- Concentration on relatively few issuers
- Exacerbated effects on curves of these issuers
- More targeted action needed
- Smaller corporates can't issue bonds because it is too slow and too costly

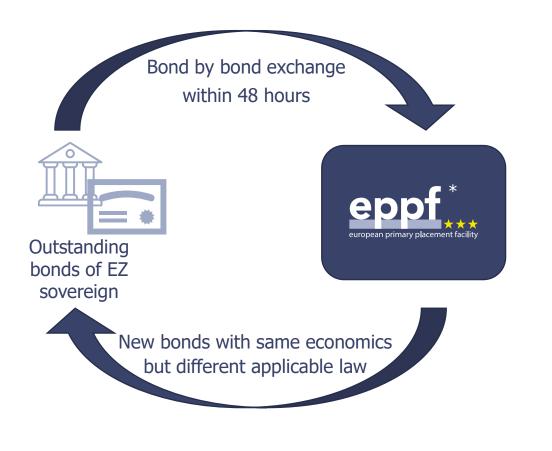


- eppf provides a unique venue for any corporate to issue bonds at a minimal cost in minimal time (matter of days at large scale)
- Economically feasible from EUR 5m upwards
- Opens up an entire new universe for issuers
- House banks could be responsible for credit assessment
- Banks could warehouse smaller bonds certain until threshold reached
- Purchase programmes could buy these bonds and repack them as described before

### **Complementing financial assistance**



### "Too big to rescue" solved



- When preparing a financial assistance package time is of the essence
- Lack of available financing sources is a major constraint
- Markets need certainty and a potential instrument to provide this certainty
- EZ spreads have been diverging because of fear of a break-up of the EZ ("redenomination") and therefore a worse credit quality and/or a substantial devaluation
- Removing the prospect of a devaluation is therefore critical to calm markets
- This can be achieved by changing the applicable law of sufficiently outstanding bonds
- eppf can achieve this with large portfolios between market closure in the US and opening of the Asian markets during a "weekend"

### **Complementing financial assistance**



- Having credibly and legally binding removed the incentive of leaving the EZ for a devaluation of a (hypothetically re-introduced) national currency markets will reduce spreads considerably
- The experience of Greek English law bonds confirms this view
- Such exchange requires the co-operation of the affected sovereign which can be part of an agreed financial assistance
- Large portfolios of sovereign bonds can be exchanged from several sources
  - ECB, ESCB and non-EZ central banks
  - bank holdings
  - new issuance
  - other investors
- Other investors such as insurance companies or other private sector players can be incentivised by
  - reducing their risk of devaluating assets
  - continued recognition as zero weighted assets where applicable
- eppf can provide not only a fast exchange during a critical weekend but also an ongoing exchange for private sector investors (and others) for any volume of holdings

### A new safe asset



### An immediate alternative to Treasuries



EZ member states could use eppf to issue sovereign debt

- This harmonises issuance of sovereign debt
- Based on standardised eppf documentation
- Increases liquidity considerably due to same format of bonds
- no outright debt

central entity coordinates issuance

mutualisation, each sovereign receives its own ring-fenced compartment

### A new safe asset



- All bonds will be from the same issuing vehicle, i.e. the same issuer but different guarantors
- Bonds could use different law than the sovereign's own law thereby preventing incentives to break-up the EZ
- Markets are requiring an additional safe asset to US Treasuries as liquidity dries up
- This structure will also allow to expand reserve currency seignorage income for all EZ sovereigns
- The same structure could be used for EZ SSAs, national and supranational, and also non-EZ countries in the ERM II
- A further step in harmonisation without mutualisation could be the use of a single compartment/SPV for all EZ sovereigns whereas each sovereign would only guarantee the volume of debt subscribed by itself
- Such a step would create a truly single safe asset without outright mutualisation
- Increased liquidity, demand and reserve currency seignorage would benefit all EZ sovereigns

### the core team





**Fredrik Creutz** Advisor to the Board



**Aslihan Gedik** Head of International Business



**Robert Koller, CAIA** Executive Chairman



**Chris Lewis** Head of Document Automation



Alexandra Fantuz Non-Executive Director



**Axel Hoerger** Advisor to the Board



David Laderman

Head of Corporate & Corporate governance



Marcus Offenhuber Chief Client Officer

### the core team









**Christian von Reventlow, Ph.D.** CTO



**Wolfgang Stolz** Non-Executive Chairman



**Fabian Vandenreydt** Advisor to the Board



CIO

#### **Dr. Jonas Poelmans**



Frank Scheidig Non-Executive Director



**Jochen Terpitz** Advisor Energy and Renewables



**Florian Waizenegger** CFOO, Director

### **Contact information**





#### european primary placement facility (eppf) S.A.

- 6 rue Dicks
- L-1417 Luxembourg
- t: +352 2786 8000
- w: www.eppf.eu

#### **Robert Koller, CAIA**

Executive Chairman t: +352 2786 8000 Ext 301

- m: +44 7947 868 751
- e: r@eppf.eu



We (eppf S.A. acting for its compartment A) are sending you this presentation on the basis that you are a potential counterparty acting at arm's length. This presentation is for discussion purposes only and is not intended to create any legally binding obligations between us. THE TYPE OF TRANSACTION DESCRIBED IN THIS DOCUMENT MAY NOT BE SUITABLE FOR YOU. PLEASE TAKE YOUR OWN INDEPENDENT PROFESSIONAL ADVICE IN ORDER TO ASSESS IF THIS TYPE OF TRANSACTION IS APPROPRIATE FOR YOU GIVEN YOUR CIRCUMSTANCES AND OBJECTIVES. WE ARE NOT ACTING AS YOUR FINANCIAL, LEGAL, TAX OR OTHER ADVISER OR IN ANY FIDUCIARY CAPACITY, AND THIS DOCUMENT DOES NOT CONSTITUTE ADVICE, OR AN OFFER (OF ANY TYPE), INVITATION TO OFFER OR RECOMMENDATION, TO YOU. If after making your own assessment you independently decide you would like to pursue a specific transaction with us there will be separate offering or other legal documentation the terms of which will (if agreed) supersede any indicative and summary terms contained in this document. We therefore do

not accept any liability for any direct, consequential or other loss arising from reliance on this document.

Please note that: (a) we are making no representation as to the performance of any instrument or economic measure. Assumptions, opinions and estimates expressed constitute our judgment as of the date of this material and are subject to change without notice. Past performance is not indicative of future results; (b) we are dealing with you on a principal to principal basis and do not accept any responsibility for any dealings, including on-selling, between you and any third parties; (c) we make no representation as to the completeness of accuracy of the information contained in this document; and (d) you may not distribute this document, in whole or part, without our express written permission.

This document contains certain forward looking statements, including assumptions, opinions and views of the eppf or cited from third party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of eppf to differ materially from the estimations expressed or implied herein. eppf does not guarantee that the assumptions underlying such forward looking statements are free from errors nor do we accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecasted developments.

No representation or warranty (express or implied) is made as to, and no reliance should be placed on, any information, including projections, estimates, targets and opinions, contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and, accordingly, none of eppf or any of its parent or subsidiary undertakings or any of such person's officers, directors or employees accepts any liability whatsoever arising directly or indirectly from the use of this document. Any financial projections given are illustrative only and none of the projections or assumptions should be taken as promises on the part of eppf nor should they be taken as implying any indication, assurance or guarantee that those assumptions are correct or exhaustive.



THIS DOCUMENT, INCLUDING ANY INFORMATION CONTAINED HEREIN AND ANY INFORMATION, WHETHER OR NOT IN WRITING, SUPPLIED IN CONNECTION THEREWITH IS STRICTLY PRIVATE AND CONFIDENTIAL AND MAY NOT BE REPRODUCED, REDISTRIBUTED OR PASSED ON, DIRECTLY OR INDIRECTLY, TO ANY OTHER PERSON OR PUBLISHED, IN WHOLE OR IN PART, FOR ANY PURPOSE. THIS DOCUMENT IS FURNISHED TO YOU SOLELY FOR YOUR INFORMATION AND SHOULD NOT BE TREATED AS GIVING INVESTMENT ADVICE. THE DOCUMENT DOES NOT CONSTITUTE OR FORM A PART OF, AND SHOULD NOT BE CONSTRUED AS, AN OFFER, ADVERTISEMENT OF AN OFFER OR INVITATION TO SUBSCRIBE FOR OR PURCHASE ANY SECURITIES OF ANY ENTITY AND SHALL NEITHER FORM THE BASIS OF, OR BE RELIED ON IN CONNECTION WITH, ANY OFFER OR COMMITMENT WHATSOEVER.

NEITHER EUROPEAN PRIMARY PLACEMENT FACILITY (EPPF) S.A. NOR ANY OF ITS DIRECTORS, OFFICERS, EMPLOYEES OR ADVISORS NOR ANY OTHER PERSON MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED IN THIS DOCUMENT. NEITHER EPPF S.A. NOR ANY OF ITS DIRECTORS, OFFICERS, EMPLOYEES OR ADVISORS NOR ANY OTHER PERSON SHALL HAVE ANY LIABILITY WHATSOEVER FOR LOSS HOWSOEVER ARISING, DIRECTLY OR INDIRECTLY, FROM ANY USE OF THIS PRESENTATION, IF AND TO THE EXTENT LEGALLY POSSIBLE. THE INFORMATION CONTAINED HEREIN IS NOT FOR PUBLICATION OR DISTRIBUTION, DIRECTLY OR INDIRECTLY, IN OR INTO THE UNITED STATES OF AMERICA, CANADA, JAPAN OR AUSTRALIA.

THIS DOCUMENT IS ONLY BEING MADE IN THE UNITED KINGDOM TO (AND THIS DOCUMENT AND ANY RELATED MATERIALS ARE INTENDED FOR DISTRIBUTION IN THE UNITED KINGDOM) ONLY TO: (I) PERSONS WHO HAVE PROFESSIONAL EXPERIENCE IN MATTERS RELATING TO INVESTMENTS FALLING WITHIN ARTICLE 19 OF THE FINANCIAL SERVICES AND MARKETS ACT 2000 (FINANCIAL PROMOTION) ORDER 2005, AS AMENDED (THE "ORDER"); OR (II) HIGH NET WORTH ENTITIES AND OTHER PERSONS TO WHOM IT CAN OTHERWISE LAWFULLY BE COMMUNICATED FALLING WITHIN ARTICLE 49 OF THE ORDER, ALL SUCH PERSONS IN (I) AND (II) TOGETHER BEING REFERRED TO AS "RELEVANT PERSONS".

IN THE UNITED KINGDOM, ONLY RELEVANT PERSONS MAY RECEIVE OR ATTEND THE PRESENTATION. IF YOU ARE NOT A RELEVANT PERSON YOU SHOULD NOT READ OR ATTEND THE PRESENTATION AND SHOULD IMMEDIATELY RETURN ANY MATERIALS RELATING TO THAT MEETING CURRENTLY IN YOUR POSSESSION.



### DATAWAREHOUSING BEYOND ABS DR. CHRISTIAN THUN

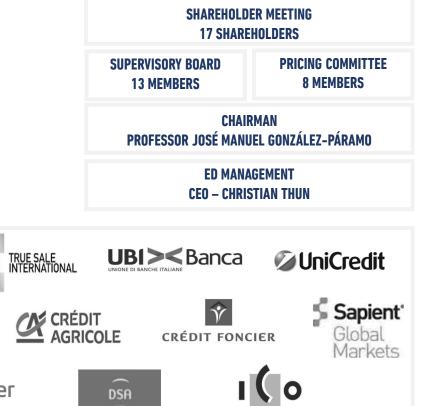


### **A UNIQUE ORGANISATION**

ED was created in 2012 as part of the implementation of the European Central Bank ABS Loan Level Initiative. ED became fully operational in January 2013 and is funded and owned by a mix of market participants. ED operates as a utility to respond to the need for improved transparency to investors and other market participants in ABS.

**SUPERVISORY BOARD:** Consists of currently 13 representatives and is responsible for the strategy and monitoring ED's operations as a market initiative.

**PRICING COMMITTEE:** Consists of currently 8 members from the ABS industry and is responsible for setting the fee structure for ED clients. The fees are set in line with ED's utility approach



#### **17 SHAREHOLDERS**



### **KEY FIGURES**

#### Basic statistics of European DataWarehouse database of Public deals by asset class

Asset Class	Active	Redeemed or Amortised <sup>1</sup>	Total	Number of loans <sup>2</sup>
RMB	406	313	719	15.67
AUT	101	141	242	15.22
SME	55	137	192	1.85
CMR	66	44	110	24.27
LES	16	31	47	0.60
CRE	10	2	12	17.69
CMB	0	5	5	12
TOTAL	654	673	1327	75.31

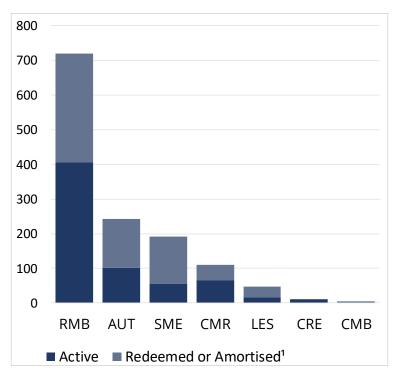
<sup>1</sup> Upload of loan level data has discontinued, typically due to bond redemptions

<sup>2</sup> based on only the latest LLD submissions (numbers in Millions)

<sup>3</sup> based on only the latest LLD submissions (numbers in Millions)

<sup>4</sup> Number of loan sponsors in whole numbers







### **COVERED BONDS**

A total of 4 Covered Bonds have been uploaded to European DataWarehouse

BPER OBG1	BPER OBG2	UNICREDIT OBG S.R.L.	UNICREDIT BPC MORTGAGE S.R.L.
<b>Data Owner:</b>	<b>Data Owner:</b>	<b>Data Owner:</b>	<b>Data Owner:</b>
BPER Banca S.p.A.	BPER Banca S.p.A.	UniCredit S.p.a.	UniCredit S.p.a.
<b>ED Code:</b>	ED Code:	ED Code:	<b>ED Code:</b>
CBOMIT000103100420115	CBOMIT000103100620151	CBOSIT000061101420129	CBOSIT000061101520084
<b>Vintage:</b> 2011	<b>Vintage:</b> 2015	<b>Vintage:</b> 2012	Vintage: 2008
<b>Country:</b>	<b>Country:</b>	<b>Country:</b>	<b>Country:</b>
Italy	Italy	Italy	Italy
Original Deal Size	Original Deal Size	Original Deal Size	Original Deal Size
(in millions):	(in millions):	(in millions):	(in millions):
7000.0	5000.0	25000.0	35000.0

### **NPLS PRESENT IN RMBS LOAN-LEVEL DATA**

#### CUMULATIVE NUMBER OF LOANS DEFAULTED AND 90 DAYS IN ARREARS FOR RMBS UP TO THE POOL CUT OFF DATE OF 31 OCTOBER 2019

Total			Account Status ever in Default or Arrears ever 90 days or above		Account Status ever in Default	
Country	Deals	Loans	Borrowers	Loans	Borrowers	Loans
ES	208	2,319,769	138,935	143,619	82,138	85,040
NL	172	5,857,442	40,016	74,392	31,399	45,344
IT	142	2,356,533	117,351	139,503	67,574	78,760
PT	40	842,053	38,196	51,948	26,074	32,704
UK	49	3,290,174	55,361	65,778	6,095	8,298
FR	38	6,280,069	44,105	46,674	17,293	18,758
IE	41	462,971	57,204	60,226	10,490	12,227
BE	21	2,043,587	19,565	25,004	10,998	12,655
Total	711	23,452,598	510,733	607,144	252,062	293,786

Note:

Account Status of Default is according to the European Central Bank (ECB) taxonomy when "Default or Foreclosure on the loan per the transaction definition" (AS121) is indicated as "Y"

<u>90 Days in Arrears</u> is according to the European Central Bank (ECB) taxonomy when "Number of Days in Interest Arrears" (AS116) or "Number of Days in Principal Arrears" (AS118) is
greater than or equal to 90



#### **SOLUTIONS AND SERVICES BEYOND ABS**

European DataWarehouse offers multiple solutions for data storage and dissemination

### PUBLIC

#### SANDBOX ENVIRONMENT

Create test deals for public transactions

#### TRANSITIONAL WEBSITE

Adhere to reporting requirements outlined in article 7(2) SecReg

#### **REPOSITORY SOLUTION**

Upload structured & unstructured data into the repository.

Data can be viewed by any interested investor or market participant.



#### SANDBOX ENVIRONMENT

Test environment for private transactions

#### TRANSITIONAL WEBSITE

Adhere to reporting requirements outlined in article 7(2) SecReg

#### **PRIVATE AREA SOLUTION**

Upload structured & unstructured data into the repository.

Data can be viewed by any designated organisation or institution.

Allows for controlled transmission of data.







### THANK YOU//CONTACT US

**EUROPEAN DATAWAREHOUSE GMBH** 

Walther-von-Cronberg-Platz 2 60594 Frankfurt am Main www.eurodw.eu enquiries@eurodw.eu +49 (0) 69 50986 9017

This presentation (the "Presentation") has been prepared by European DataWarehouse GmbH (the "Company") and is being made available for information purposes only. The Presentation is strictly confidential and any disclosure, use, copying and circulation of this Presentation is prohibited without the consent from the Company. Information in this Presentation, including forecast financial information, should not be considered as advice or a recommendation to investors or potential investors in relation to holding, purchasing or selling securities or other financial products or instruments and does not take into account your particular investment objectives, financial situation or needs. No representation, warranty or undertaking, express or implied, is made as to the accuracy, completeness or appropriateness of the information and opinions contained in this Presentation. Under no circumstances shall the Company have any liability for any loss or damage that may arise from the use of this Presentation or the information or opinions contained herein. Certain of the information contained herein may include forward-looking statements relating to the business, financial performance and results of the Company and/or the industry in which it operates. Forward-looking statements concern future circumstances and results and other statements that are not historical facts, sometimes identified by the words "believes", expects", "predicts", "intends", "projects", "plans", "estimates", "aims", "foresees", "anticipates", "targets", "may", "will", "should" and similar expression. The forward-looking looking statements, contained in this Presentation, including assumptions, opinions and views of the Company or cited from third party sources are solely opinions and forecasts which are uncertain and subject to risks.