### **Covered Bonds follow-up Rating**

Credit Agricole Home Loan SFH Mortgage Covered Bond Program

# Creditreform ⊆ Rating

Rating Object	Rating Information	
Credit Agricole Home Loan SFH, Mortgage Covered Bond Program	Rating / Outlook :  AAA / Stable	Type: Rating Update (unsolicited)
Type of Issuance: Mortgage Covered Bond under French law Issuer: Crédit Agricole Home Loan SFH	Rating Date: Rating Renewal until: Maximum validity:	30.11.2022 Withdrawal of the rating 01.01.2050
LT Issuer Rating: A (Credit Agricole SA)	Rating Methodology:	CRA "Covered Bond Ratings"

ST Issuer Rating: L2 Outlook Issuer: Stable

Program Overview			
Nominal value	EUR 34,308 m.	WAL maturity covered bonds	6.45 Years
Cover pool value	EUR 52,637 m.	WAL maturity cover pool	5.26 Years
Cover pool asset class	Mortgages	Overcollateralization (nominal/committed)	53.43%/ 8.11%
Repayment method	Soft Bullet	Min. overcollateralization	5.00%
Legal framework	SFH Legislation	Covered bonds coupon type	Fix (100.00%), Floating (0.00%)

Cut-off date Cover Pool information: 30.09.2022

### **Rating Action**

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This follow-up report covers our analysis of the mortgages covered bond program issued under French law by Crédit Agricole Home Loan SFH ("Credit Agricole SFH"). The total covered bond issuance at the cut-off date (30.09.2022) had a nominal value of EUR 34,308.24 m, backed by a cover pool with a current value of EUR 52,637.42 m. This corresponds to a nominal overcollateralization of 53.43%. The cover assets include French mortgages obligations.

Taking into consideration the issuer rating, our analysis of the regulatory framework, liquidity-and refinancing risks, as well as our cover pool assessment and results of the cash flow analysis, Creditreform Rating AG ("Creditreform Rating" or "CRA") affirms the covered bond program with an AAA rating. The AAA rating represents the highest level of credit quality and the lowest investment risk.

#### **Key Rating Findings**

- Covered Bonds are subject to strict French legal framework for covered bonds
- + Covered Bondholders have full recourse to the issuer.
- + Current high overcollateralization (OC) of 53.43% as of 30.09.2022
- + Notable enhancement of asset write-down ratios and overall superior asset quality
- High dependence on economic development in France

Table1: Overview results

Risk Factor	Result
Issuer rating	A (rating as of 20.05.2022)
+ Legal and regulatory framework	+4 Notches
+ Liquidity and refinancing risk	+1 Notch

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= Rating after 1 <sup>st</sup> uplift	AAA
Cover pool & cash flow analysis	AAA
+ 2 <sup>nd</sup> rating uplift	+3 Notches
= Rating covered bond program	AAA

#### **Issuer Risk**

#### Issuer

Our rating of Credit Agricole Home Loan SFH covered bond program is reflected by our issuer rating opinion of Credit Agricole S.A.. CRA has affirmed the Long-term rating of Credit Agricole S.A. at A in a Rating Update dated 20.05.2022.

However, we reduced the outlook from positive to stable. The downgrade of the outlook and the affirmation of the Credit rating are a result of the higher risk provisioning due to the Ukraine war and the negative impact on the French economy due to rising inflation. In addition, we expect a higher credit volume in the next years with a growth in the NPL ratios. Moreover, Crédit Agricole benefits from its cooperative structure and the solidarity mechanisms with the 39 regional banks in France. For a more detailed overview of the issuer rating, please refer to the issuer rating report published on the webpage of Creditreform Rating AG.

#### **Structural Risk**

#### **Transaction structure**

Figure 1: Overview of Covered Bond emission | Source: Credit Agricole SFH Base Prospectus

Structure Diagram Investors Covered Interest and Bonds principal payment Proceeds under the Covered Bonds Collateral Providers No mismatch Crédit Agricole 39 Regional between Crédit Home Loan SFH Banks Agricole Home Loan The Issuer Collateral Security SFH and CASA Interest and principal payment Borrower under the Advances Borrower Advances Crédit Agricole S.A. Borrower Administrator LCL Collateral Collateral Provider Providers Agent Advances

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#### **Legal and Regulatory Framework**

The French covered bond legislation has recently been amended to be in line with the EU Covered Bond Directive. France's previous covered bond law was already in line with most of the minimum standards prescribed by the new EU rules, so did not require major changes to comply with EU requirements. Ordonnance no 2021-858 of 30 June 2021, which proposed the adoption of a number of legal measures necessary for the transposition of EU CB Directive into French law, was published on 1 July. The legal decree n° 2021-898 on the transposition was published on 7 July 2021 in the Journal Officiel n° 0156. In addition, ACPR instructions were published on 9 March 2022. The new French law came into force on 8 July 2022.

A comprehensive overview of the SFH legislation with previous amendments that governs the 'Obligations de Financement de l'habitat' (OH), can be found in our initial and follow-up rating reports of Credit Agricole Home Loan SFH Mortgage Covered Bonds. The following major provisions describe the status of the SFH legislation.

In France, there exist three different types of covered bonds – 'Obligations Foncières' (OF), 'Caisse de Refinancement de l'habitat' (CRH) and 'Obligations de Financement de l'habitat' (OH) – governed by different legal frameworks.

An affiliated company – the 'Sociétés de Financement de l'Habitat (SFH), which is a regulated French specialized credit institution with the restricted purpose to provide and fund home loans, issues OHs. As the issuer is not the originator, the cover assets are owned by and segregated in the sponsor bank but pledged and transferred to the SFH. The SFHs have to obey the laws and regulations codified by Articles L.515-35 of the French Monetary and Financial Code.

Under the SFH legislation, the OH holders has direct recourse to the issuer and legal privilege over the SFH's eligible cover assets, which are first-rank residential home mortgages or other real estate security interests similar to first-rank mortgages confined mainly to EU/EEA countries. Furthermore, other countries are allowed as far as they achieve the highest possible credit rating by an approved external rating agency.

Along with the nomination of two external statutory auditors, the legal framework stipulates to nominate an independent Specific Controller to monitor the cover pool.

In case of issuer's insolvency, the general insolvency court will manage the cover pool and will act in the interest of the covered bondholders. The SFH issuers have to disclose information regarding cover assets and covered bond programs on their website on a regular basis as well.

In general, we consider the structural framework for covered bond programs in France as positive as SFH legislation defines clear rules to mitigate risks in particular regarding insolvency remoteness, asset segregation, investor's special claim vis-à-vis other creditors, the roll and appointment of a special administrator, among other provisions. Due to those reasons we have set a rating uplift of four (+4) notches for the regulatory and structural framework for French covered bond programs under SFH legislation.

### **Liquidity- and Refinancing Risk**

With respect to OHs, it is compulsory for the covered bond issuers to maintain a nominal over-collateralization (OC) of 5% at all times, while the coverage calculations have to be done on a monthly basis. Furthermore, the Issuer is also required to maintain a liquidity buffer to cover,

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for the next 180 days, all debt service outflows (interest and principal) and derivative transactions.

The underlying cover pool is also subjected to an asset-coverage test in order to ensure sufficient OC level and cash flow adequacy. SFH must manage and hedge interest rate risks, currency risks, and liquidity and maturity mismatches between assets and liabilities.

In the event of the issuer's insolvency, the special administrator (i.e. general insolvency court) can sell assets of the cover pool or use them as a guarantee for liquidity operations if liquidity shortfalls are foreseeable.

In general, the SFH legislation and the stipulated risk management processes for liquidity risks constitute a comparatively strict framework by which they can be effectively reduced. Refinancing risks, however, may not be structurally reduced under the hard bullet repayment structure, which can only be cushioned by sufficiently high overcollateralization or by other liquid funds. It is worth to mention that, several SFH programs count with more flexible repayment structures (e.g. soft-bullet structures). Overall, we assess the legal provisions on liquidity management for French Covered Bond programs under SFH legislation as positive and set a rating uplift of one (+1) notch.

#### **Credit and Portfolio Risk**

CRA generally takes ESG-relevant factors (environmental, social and governance) into account when assessing Covered Bond ratings. Overall, ESG factors have a significant impact on the current rating of this Covered Bond program. CRA identifies governance factors, in particular, to have a highly significant impact on Covered Bond ratings. Since Covered Bonds are subject to strict legal requirements, regulatory risk plays an important role in assessing the credit rating.

The SFH legislation defines clear rules to mitigate risks in particular regarding insolvency remoteness, asset segregation, investor's special claim vis-à-vis other creditors, the roll and appointment of a special administrator, among other provisions. Additionally, Risk management and internal controls as well as the macroeconomic factors such as hedging strategies, interest rates and yield curve are considered to have a highly significant impact on the assessment of the credit rating. Other individual factors with a potential key rating influence were not identified, and therefore did not affect the final rating.

#### **Credit and Portfolio Risk**

#### **Cover pool analysis**

The analysis of the cover pool is based on public information which has been made available by the Issuer, in particular the Harmonised Transparency Template ("HTT") as per regulatory requirements. This information was sufficient according to CRA´s rating methodology "Covered Bond Ratings".

At the cut-off-date 30.09.2022, the pool of cover assets consisted of 812,457 debt receivables, of which 100.00% are domiciled in France. The total cover pool volume amounted to EUR 52,637.42 m in residential (100.00%), commercial (0.00%) and others (0.00%) loans.

The residential cover pool consists of 812,457 mortgage loans having an unindexed weighted average LTV of 61.44%. The non-residential cover pool does not have any loans. The ten largest

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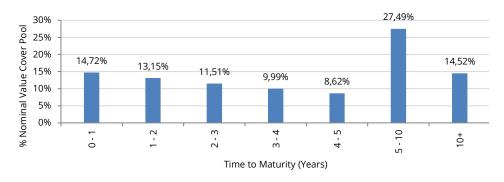
debtors of the portfolio total to 0.02%. Table 2 displays additional characteristics of the cover pool:

Table 2: Cover pool characteristics | Source: Credit Agricole SFH

Characteristics	Value
Cover assets	EUR 52,637 m.
Covered bonds outstanding	EUR 34,308 m.
Substitute assets	EUR 550.14 m.
Cover pool composition	
Mortgages	98.95%
Substitute assets	1.05%
Other / Derivative	0.00%
Number of debtors	NR
Mortgages Composition	
Residential	100.00%
Commercial	0.00%
Other	0.00%
Average asset value (Residential)	EUR 64.11 k.
Average asset value (Commercial)	EUR 0.00 k.
Non-performing loans	0.0%
10 biggest debtors	0.02%
WA seasoning	92.59 Months
WA maturity cover pool (WAL)	5.26 Years
WA maturity covered bonds (WAL)	6.45 Years

We have listed an extended view of the composition of the cover pool in the appendix section "Cover pool details". The following chart displays the maturity profile of the cover assets at the cut-off date 30.09.2022 (see figure 2):

Figure 2: Distribution by remaining time to maturity I Source: Credit Agricole SFH



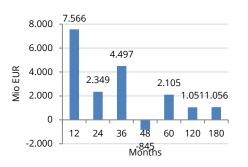
#### **Maturity profile**

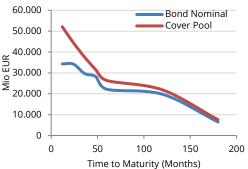
The following charts present the cash flow profile of the Issuer (see figure 3 and figure 4):

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Figure 3: Cover asset congruence | Source: Credit Agricole | Figure 4: Amortization profile | Source: Credit Agricole SFH SFH





During its cash flow modelling, CRA has taken into consideration the maturity structure of cover assets and liabilities. This structure was an integral part of the cash flow analysis.

#### Interest rate and currency risk

The legal framework provides for weekly stress tests to be conducted on interest rate- and currency risks. Therefore, interest rate risk could be mitigated by the 5% OC requirement. Currency risk, on the other hand, is also limited for this program as 100.00% of the cover pool assets and 100.00% of the cover bonds are denominated mainly in euros after swaps. Nevertheless, we have applied interest rate and foreign exchange stresses on the cash flows for each rating level according to our methodology.

Table 3: Program distribution by currency after swaps | Source: Credit Agricole SFH

Currency	Volume	Share (%)
Cover Pool		
EUR	52,637 m	100.00%
Covered Bond		
EUR	34,308 m	100.00%

Figure 5 shows the types of interest rate used in this program

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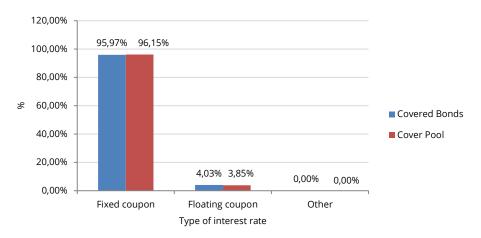


Figure 5: Type of interest rate | Source: Credit Agricole SFH

#### **Credit Risk**

The credit risk assessment for Mortgage Covered Bond have been determined in accordance with CRA rating methodology for Covered Bonds by means of historical data and particular parameters from the Covered Bonds.

Due to the high granularity of mortgage pools we have characterized these portfolios as big enough and with a homogeneous composition i.e. ("Large Homogeneous Portfolio", LHP). Furthermore, under that premise we have assumed that it is possible to derive a loss distribution. CRA has used the issuer's historical NPL ratios to derivate a conservative default rate proxy for the approximation through the LHP distribution. For the Credit Agricole SFH it has been assumed an expected default rate of 0.92% for the LHP. Furthermore, CRA has considered a 15.00% correlation to define the LHP distribution. Table 4 disclosed the expected default rate for each relevant rating level.

In order to derive recovery and loss-severity base case assumption, CRA has used historical data from mortgage price indexes. To determine loan-level recovery assumptions the resulting stressed recoveries assumptions were compared with the portfolio's existing loan-to-value ratios (LTVs).

Based on the default rates and taking into account the recovery assumptions, the following loss assumptions were determined for the current cover pool (see Table 4)

Table 4: Cover Pool Base case assumptions  $\mid$  Source: CRA

Rating	Default Rate (%)	Recoveries (%)	Expected Loss (%)
AAA	38.01%	68.61%	11.93%
AA+	35.31%	70.77%	10.32%
AA	30.53%	75.00%	7.63%
AA-	26.78%	78.32%	5.81%
A+	25.24%	79.72%	5.12%
Α	25.22%	79.73%	5.11%
A-	24.29%	80.63%	4.70%

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#### **Cash-Flow Analysis**

#### **Model Assumptions**

Based on public information and using the base case loss assumptions, we implement a scenario-based cash flow model. This model aims to test the ability of the structure to service all covered bonds according to their payment profile in diverse stress scenarios. The CRA cash flow analysis assumes that the Issuer has defaulted, i.e. all obligations will be met using cash flows from the cover pool assets only. We also assume that no additional assets will be added to the cover pool during the wind-down phase.

This program issues covered bonds with soft- and hard bullet maturity structure. CRA assumes that the maturity extensions of soft bullet covered bonds are reflected on the HTT published by Credit Agricole SFH. Therefore, CRA has taken the relevant extended maturities of the covered bonds into consideration during its cash-flow analysis.

The cash-flow analysis considers, among other factors, asset value haircuts ("asset-sale discount"), and the possible positive yield spread between covered assets and covered bonds ("yield spreads"). To derive the asset-sale discount, CRA assumes, based on secondary market data, a rating level haircut on the asset value. Furthermore, CRA, using available public information (i.e. issuer's annual accounts), has derived estimations for yield spreads (see table 5):

Table 5: Cash-Flow Model assumptions | Source: CRA

Rating level	Asset-Sale Discount	Yield Spread
AAA	72.93%	0.00%
AA+	67.35%	0.00%
AA	63.75%	0.00%
AA-	60.33%	0.00%
A+	57.70%	0.00%
Α	55.54%	0.00%
A-	52.72%	0.00%

#### **Rating Scenarios**

In our cash flow model rating scenarios have been tested considering several central input parameters, such as:

- Portfolio composition (diversification, concentration, granularity)
- Probability of default of cover assets
- Correlations of cover assets and systematic risk factors
- Recoveries
- Maturity profile of covered bonds and cover assets (ALM)

Within an AAA rating scenario, the cash flow model showed that obligations can be paid fully and in a timely manner. Overall, the cash flow analysis revealed that the portfolio, given all used information as of 30.09.2022, may ensure the repayment of bonds' nominal capital notwithstanding the occurrence of the presented stressed scenarios.

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#### **Overcollateralization Break-Even Analysis**

CRA also performed a break-even OC analysis taking into considerations the following drivers: ALM, Loss level, Interest rate spreads, foreign currency mismatches and Recoveries. Performing the break-even OC analysis, we took rating-level specific stressed outcomes into account. Based on these analyses, the maximum OC required for each relevant rating level during the whole period has been presented in table 6.

Table 6: Breakeven Analysis | Source: CRA

Rating Level	Break-Even OC
AAA	18.53%
AA+	16.39%
AA	12.97%
AA-	10.75%
A+	9.93%
A	9.92%
A-	9.44%

#### **Sensitivity Analysis**

CRA also evaluates the sensitivity of the structure and program with respect to important input parameters. In particular, the following factors have been varied:

- Credit quality of cover assets
- Recoveries

The following table presents the rating impact of a decline in recoveries and an increase in the credit risk of single debtors. Starting from the best-case, which is represented by our base case assumptions, the analysis reveals the sensitivity of the rating with respect to recovery rates and credit risk. The worst-case scenario, in which we reduce recoveries by 50% and increase credit risk by 50%, the impact can be seen by a reduction in the implied rating by 2 notches to AA (see Table 7):

Table 7: Covered Bond Program Sensitivity: Credit Quality und Recovery Rates | Source: CRA

Recovery Defaults	Base Case	-25%	-50%
Base Case	AAA	AAA	AAA
+25%	AAA	AAA	AAA
+50%	AAA	AAA	AA

In general, based on the presented cash flow analysis results, the rating of the cover pool within our covered bond program rating has been set at AAA. This ensures a possible uplift of three (+3) notches, however, the secondary rating uplift was set at 0 (zero) notch as the maximum attainable rating of AAA for this program has already been achieved.

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#### **Counterparty Risk**

#### **Derivatives**

This covered bond program uses intra-group cross-currency swaps to hedge open foreign currency positions.

#### Commingling

In the event of issuer's bankruptcy, in order to avoid commingling of funds, the SFH legislation stipulates that the cover assets should be isolated from the general bankruptcy estate (insolvency-free assets) and a special cover pool administrator will be appointed to manage the cover pool. Under that mandate the cover pool administrator will have first priority on the up-coming cash flows from the cover pool assets, which in turn should be used to cover interest and principal payments of the covered bond holders in event of the Issuer's insolvency.

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### **Appendix**

#### **Rating History**

Event	Rating Date	Publication Date	Result
Initial Rating	23.01.2019	30.01.2019	AAA/ stable
Rating Update	03.12.2019	06.12.2019	AAA/ stable
Monitoring	24.03.2020	28.03.2020	AAA/ watch negative
Rating Update	25.11.2020	01.12.2020	AAA/ stable
Monitoring	05.07.2021	06.07.2021	AAA/ watch
Rating Update	30.11.2021	06.12.2021	AAA/ stable
Rating Update	30.11.2022	06.12.2022	AAA/ stable

#### **Details Cover Pool**

Table 8: Characteristics of Cover Pool | Source: Credit Agricole SFH

Characteristics	Value
Cover Pool Volume	EUR 52,637 m
Covered Bonds Outstanding	EUR 34,308 m
Substitute Assets	EUR 550 m
Share Derivatives	0.00%
Share Other	100.00%
Substitute Assets breakdown by asset type	
Cash	0.00%
Guaranteed by Supranational/Sovereign agency	0.00%
Central bank	0.00%
Credit institutions	100.00%
Other	0.00%
Substitute Assets breakdown by country	
Issuer country	100.00%
Eurozone	0.00%
Rest European Union	0.00%
European Economic Area	0.00%
Switzerland	0.00%
Australia	0.00%
Brazil	0.00%
Canada	0.00%
Japan	0.00%
Korea	0.00%
New Zealand	0.00%
Singapore	0.00%
US	0.00%
Other	0.00%
Cover Pool Composition	
Mortgages	98.95%

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Total Substitute Assets	1.05%
Other / Derivatives	0.00%
Number of Debtors	NR
Distribution by property use	
Residential	100.00%
Commercial	0.00%
Other	0.00%
Distribution by Residential type	
Occupied (main home)	80.80%
Second home	3.10%
Non-owner occupied	16.10%
Agricultural	0.00%
Multi family	0.00%
Other	0.00%
Distribution by Commercial type	
Retail	0.00%
Office	0.00%
Hotel	0.00%
Shopping center	0.00%
Industry	0.00%
Land	0.00%
Other	0.00%
Average asset value (Residential)	EUR 64 k
Average asset value (Commercial)	0
Share Non-Performing Loans	0
Share of 10 biggest debtors	0.02%
WA Maturity (months)	169.04
WAL (months)	63.08
Distribution by Country (%)	
France	100.00
Distribution by Region (%)	
Auvergne-Rhône-Alpes	15.01
Bourgogne-Franche-Comté	3.73
Bretagne	4.88
Centre-Val de Loire	3.81
Corse	0.61
DOM-TOM	1.50
Grand Est	5.40
Hauts-de-France	8.40
Île-de-France	19.69
Normandie	4.11
Nouvelle-Aquitaine	8.95
Occitanie	9.35
Pays de la Loire	5.94
Provence-Alpes-Côte d'Azur	8.61

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Table 9: Participant counterparties | Source: Credit Agricole SFH

Role	Name	Legal Entity Identifier
Issuer	Crédit Agricole Home Loan SFH	969500C9913Z7PKUGB44
Servicer	Crédit Agricole Regional Banks and LCL	
Sponsor	Crédit Agricole SA	969500TJ5KRTCJQWXH05
Cover Pool Monitor	Fides Audit	

Table 10: Interest rate and Swap counterparties | Source: Credit Agricole SFH

Name	Legal Entity Identifier	Agreement Type
Crédit Agricole SA	969500TJ5KRTCJQWXH05	Cross Currency

Figure 6: Arrears Distribution | Source: Credit Agricole SFH

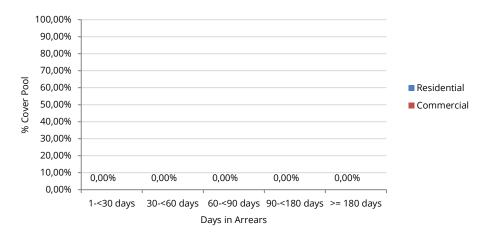
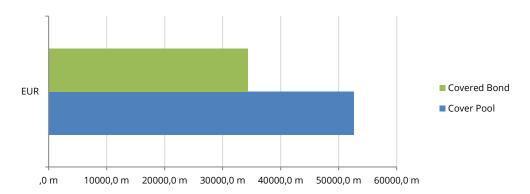


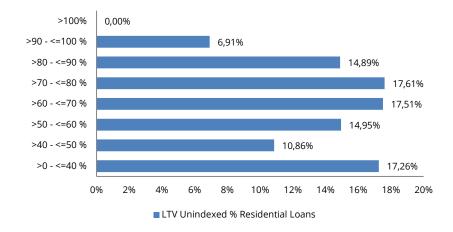
Figure 7: Program currency mismatches | Source: Credit Agricole SFH



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Figure 8: Unindexed LTV breakdown - residential pool | Source: Credit Agricole SFH



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# Creditreform ⊆ Rating

#### **Key Source of Information**

#### **Documents (Date: 30.09.2022)**

#### Issuer

- Audited consolidated annual reports of Credit Agricole S.A. 2018-2021
- Issuer rating update report dated 20.05.2022
- Miscellaneous Investor Relations Information and Press releases
- Other rating relevant data from eValueRate/CRA databank

#### Covered Bond and Cover Pool

- HTT Reporting from Credit Agricole SFH as of 30.09.2022
- Base prospectus of Mortgage Covered Bond Program dated 16.02.2022
- Market data Mortgage Cover Bond Program

#### **Regulatory and Legal Disclosures**

Creditreform Rating AG was neither commissioned by the rating object nor by any other third parties for the rating. The analysis took place on a voluntary basis by Creditreform Rating AG and is to be described in the regulatory sense as an unsolicited rating. The rating was conducted on the basis of Creditreform Rating's "Covered Bond Ratings" methodology (v1.1, April 2022) and "Technical Documentation Portfolio Loss Distributions" (v.1.0, July 2018) in conjunction with Creditreform's basic document "Rating Criteria and Definitions" (v1.3, January 2018). On the subject of ESG (environment, social and governance), Creditreform Rating AG has published the basic document "The Impact of ESG Factors on Credit Ratings" (March 2020).

Unsolicited Credit Rating	
With Rated Entity or Related Third Party Participation	NO
With Access to Internal Documents	NO
With Access to Management	NO

The rating is based on publicly available information and internal evaluation methods for the rated bank and program. The issuer's quantitative analysis is based mainly on the latest annual accounts, interim reports, other information of the bank pertaining to investor relations, and key figures from CRA/eValueRate database. The cover pool's quantitative analysis for the rated Covered Bond Program was based on the "Harmonised Transparency Template" (HTT) published by the Credit Agricole SFH.

Information on the meaning of a rating category, definition of default and sensitivity analysis of relevant key rating assumptions can be found at "Creditreform Rating AG, Rating Criteria and Definitions":

#### https://www.creditreform-rating.de/en/about-us/regulatory-requirements.html

This rating was carried out by analysts Aaron Kamruzzaman (Senior Analyst) und Qinghang Lin (Analyst) both based in Neuss/Germany. On 30.11.2022, the rating was presented to the rating committee by the analysts and adopted in a resolution. The function of Person Approving Credit Ratings (PAC) was performed by Christian Konieczny (Senior Analyst).

On 30.11.2022, the rating result was communicated to Credit Agricole SFH, and the preliminary rating report was made available. The Issuer and all relevant parties examined the rating re-

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port prior to publication and were given at least one full working day to appeal the rating committee decision and provide additional information. The rating decision was not amended following this examination.

The rating is subject to one-year monitoring from the creation date (see cover sheet). Within this period, the rating can be updated. After one year at the latest, a follow-up is required to maintain the validity of the rating.

In 2011 Creditreform Rating AG was registered within the European Union according to EU Regulation 1060/2009 (CRA-Regulation). Based on the registration Creditreform Rating AG (CRA) is permitted to issue credit ratings within the EU and is bound to comply with the provisions of the CRA-Regulation.

#### **Endorsement**

Creditreform Rating did not endorse the rating according Article 4 (3), CRA-Regulation.

#### **Conflict of Interests**

No conflicts of interest were identified during the rating process that might influence the analyses and judgements of the rating analysts involved or any other natural person whose services are placed at the disposal or under the control of Creditreform Rating AG and who are directly involved in credit rating activities or approving credit ratings and rating outlooks.

In the event of provision of ancillary services to the rated entity, CRA will disclose all ancillary services in the credit rating report of the issuer.

#### Rules on the Presentation of Credit Ratings and Rating Outlooks

The approval of credit ratings and rating outlooks follows our internal policies and procedures. In line with our policy "Rating Committee," all credit ratings and rating outlooks are approved by a rating committee based on the principle of unanimity.

To prepare this credit rating, CRA has used following substantially material sources:

- 1. Transaction structure and participants
- 2. Transaction documents
- 3. Issuing documents
- 4. Other rating relevant documentation

There are no other attributes and limitations of the credit rating or rating outlook other than displayed on the CRA website. Furthermore, CRA considers satisfactory the quality and extent of information available on the rated entity. In regard to the rated entity, Creditreform Rating AG regarded available historical data as sufficient.

Between the disclosure of the credit rating to the rated entity and the public disclosure no amendments were made to the credit rating.

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