



Privacy Impact Assessment (PIA) Template

Data Analytics Platform (DAP)

(Name of the Information System or Information Collection)

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Date

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System/Collection Overview

The FHFA Data Analytics Platform (DAP) is comprised of multiple environments, databases, and tools used by researchers and analysts for analyzing and processing historical and current housing data and for forecasting future trends and patterns. The DAP consists of public and private financial housing data submissions which are used for state and federal reporting, policy analysis, and decision-making. The DAP is comprised of the following components:

1. Modeling and Research System (MARS):

MARS (DC-MARS and ST-MARS) are domains on the Oracle M7 servers which serve as the primary modeling and analysis platform used for data analytics. MARS provides access for FHFA economists, researchers, and analysts to key datasets for which they have been granted access, and to a variety of software tools including SAS, SAS Enterprise Guide, Stata, SlickEdit, StatTransfer, and Oracle R;

2. Data Warehouse (DWS):

DWS is an Oracle database residing on the Oracle Production (dc-ora-prod, st-ora-prod) domain of the M7, and consists of a collection of database schemas from datasets maintained on DC-MARS and ST-MARS. DWS is used to provide additional structure and access capabilities for researchers, economists and analysts; and

3. SFTP Servers:

Data used for analytics is in many cases delivered to FHFA by external sources over Secure File Transfer Protocol (SFTP). Separate Solaris zones have been established on a dedicated SFTP server for each data source (i.e., Freddie Mac, Fannie Mae, Treasury, etc.). The SFTP servers reside on the FHFA Demilitarized Zone (DMZ).

This PIA covers the environments described above (which make up the DAP) as well as the datasets listed in the attached addendum, each of which contains PII and is maintained on the DAP. For each dataset, the addendum identifies (i) the name, (ii) data elements collected, (iii) FHFA’s source of the information, and (iv) the purposes/uses of the information.

Excluded from this PIA are datasets maintained on the DAP that contain PII but are not subject to the Privacy Act—either because information about an individual cannot be searched by name or other personal identifier, is publicly available, or is used for law enforcement purposes without requiring a subpoena or other legally compulsory process. These datasets fall outside the scope of this PIA and are

addressed in a separate PIA. This PIA does, however, include datasets that are only partially publicly available.

Section 1.0 Characterization of the Information

The following questions define the scope of the information requested and/or collected as well as reasons for its collection as part of the System/Collection being procured or developed. The questions address all information collected, with emphasis on the collection of PII, such as name, address, social security number, date of birth, financial information, etc.

#	Question	Response
1.1	What information types (e.g., contact information, demographic information, employment information) are being collected, used, disseminated, or maintained in the System/Collection?	<p>That DAP and datasets covered by this PIA collect and/or maintain the following information types from members of the public:</p> <ul style="list-style-type: none"> • Property address • Business address, position title, and phone number • Property ID • TransUnion permit ID (hashed) • Clip (unique identification number assigned to each property) • Court case number • Assessor’s Parcel Number • Composite Property Linkage Key • Tax Account Number • Geospatial or geolocation data • Loan number/ID • Phone number • Names (first and last name and middle initial) • Age • Primary language • Existence of children • Gender • Race/Ethnicity • National Origin • Marital status • National Origin • Employment status and information • Other government-issued identification numbers
1.2	What or who are the sources of the information provided to FHFA and included in the System/Collection?	The information from the datasets included within the scope of this PIA are obtained from commercial vendors, publicly available datasets, other federal agencies, the Enterprises, and Federal Home Loan Banks. See the addendum attached to this PIA for additional information about each dataset.

1.3	For what purpose is the information being collected, used, disseminated, or maintained?	The information contained in the datasets included within the scope of this PIA are used to conduct analytics and for research. See the addendum attached to this PIA for information specific to each dataset included in this PIA.
1.4	How is the information provided to or otherwise obtained by the System/Collection?	Datasets purchased from vendors or acquired from other federal agencies or the Enterprises are delivered to FHFA over Secure File Transfer Protocol (SFTP) and uploaded to the DAP.
1.5	<p>Are Social Security Numbers (SSNs) being collected or used in the System/Collection?</p> <ul style="list-style-type: none"> • If yes, describe in detail: <ol style="list-style-type: none"> 1) The business justification for collecting or using SSNs; 2) The consequences if SSNs are not collected or used; and 3) How the SSNs will be protected while in use, in transit and in storage. • If no, state "N/A" in the response section. 	N/A

Section 2.0 Uses of the Information

The following questions delineate the use of information.

#	Question	Response
2.1	How will the information be used and for what purpose?	The uses for each dataset included in this PIA are described in the attached Addendum.
2.2	Describe any types of measures or processes in place to ensure that information is only used in the manner for which it was collected.	Access to each dataset within the scope of this PIA is restricted to a limited number of staff who use the data for specific program needs. Additionally, some datasets within this PIA limit access to PII within those datasets to an even smaller subset of users who have an official business need for the PII. Access to data is controlled through user assignment to specific access groups.

Section 3.0 Retention

The following questions outline how long information will be retained after the initial collection.

#	Question	Response
3.1	How long is the information retained?	The datasets included in this PIA that are subject to FHFA Comprehensive Records Schedule (CRS) Item 2.3a are permanent records with an annual cut-off. After the cut-off, they are transferred to

		<p>NARA in five-year blocks in accordance with regulations and procedures in place at the time of transfer.</p> <p>The datasets included in this PIA that are subject to the FHFA CRS Item 2.3b are temporary records. The cut-off for these datasets is each dataset's retirement, and those datasets are deleted 30 years thereafter.</p>
3.2	<p>Has a retention schedule been approved by FHFA's Records Management Office and National Archives and Records Administration (NARA)? If yes, provide the corresponding General Record Schedule (GRS) or FHFA specific Records Schedule number.</p>	<p>Yes. Datasets received from the Enterprises or the FHLBanks are subject to FHFA CRS Item 2.3a or Item 2.3b. See the attached Addendum for information specific to each dataset.</p>

Section 4.0 Notice, Access, Redress and Correction

The following questions are directed at notice to the individual, the individual's right to consent to uses of the information, the individual's right to decline to provide information, and the individual's ability to ensure the accuracy of the information collected about them.

#	Question	Response
4.1	<p>Is the information in this System/Collection retrieved by an individual's name or personal identifier such as an SSN or other identification?</p> <ul style="list-style-type: none"> • If no, please put "no" in the Response section. • If yes, the System/Collection will need to be covered by a Privacy Act System of Records Notice(s) (SORN(s)). Please provide the SORN(s) name and number or indicate that a SORN is in progress. 	No
4.2	<p>How is notice about the collection of PII provided to individuals prior to the collection for the System/Collection (e.g., direct notice, Privacy Act Statement or public notice, SORN)? If notice is not provided, explain why not.</p>	<p>FHFA is not the original collector of any information on the DAP and therefore does not provide notice to individuals prior to the collection of their information. This PIA does, however, provides public notice of the collection and use of PII maintained on the DAP that is within the scope of this PIA.</p>
4.3	<p>Is an individual's response to the request for information voluntary or mandatory?</p>	<p>FHFA is not the original point of collection of any information maintained on the DAP. An individual's choice to provide or not to provide information requested is made at the original point of collection.</p>
4.4	<p>What are the consequences if an individual declines to provide the information?</p>	<p>FHFA is not the original point of collection of any information maintained on the DAP. Therefore, the consequences of an individual's decision to provide or not provide requested information are determined at the original point of collection and are outside of FHFA's knowledge and control.</p>
4.5	<p>What are the procedures that allow individuals to gain access to their information?</p>	<p>Neither the DAP nor the datasets covered by this PIA contain records within a "system of records," and thus the Privacy Act does not apply.</p> <p>As a Data maintained on the DAP is used solely for analytical purposes and is not intended to nor does it track information by associated individuals. As a result, it is not possible to search for information about an individual by name or other personal identifiers, making it unfeasible to provide individuals with access to their data on the DAP or within any dataset included in this PIA. Individuals must contact the original collector of their data for access.</p>
4.6	<p>What are the procedures for correcting inaccurate or erroneous information?</p>	<p>Neither the DAP nor the datasets included within this PIA contain any records in a "system of records," and therefore, the Privacy Act does not apply. FHFA relies on the source from which it</p>

	acquired the data for the data’s accuracy and reliability. As noted above, it is not possible to search for information about an individual using that individual’s name or other personal identifier and therefore providing an individual with access to their data maintained on the DAP or in any dataset included within this PIA is not feasible. Individuals would need to work with the original collector of their data to make corrections or amendments to their data.
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Section 5.0 Sharing and Disclosure

The following questions define the content, scope, and authority for information sharing.

#	Question	Response
5.1	<p>Is information shared with internal office(s) or division (s)?</p> <ul style="list-style-type: none"> • If yes, please identify the FHFA office(s) or division(s) and describe the information shared and for what purpose. • If no, please state “N/A” in the response section. 	<p>Some but not all individuals in the following Divisions, Offices, Branches, and Sections have access to one or more of the datasets on the DAP and included within this PIA:</p> <ul style="list-style-type: none"> • Division of Research and Statistics • Office of Research and Analysis • Office of Data and Statistics • Office of the Chief Data Officer • Office of Capital Policy • Office of Modeling and Methods • Office of Fannie Mae Examinations • Research Branch • New Product Analysis Branch • National Mortgage Database Branch • Statistical Products Branch • Climate Change and ESG Branch • AMA Modeling Analysis Branch • Mortgage Programs Policy and Analysis Branch • Collateral and Credit Modeling and Analysis Branch • Market Risk Modeling Branch • Enterprise Single Family Credit Modeling Branch • Financial & Risk Analytics Branch • Enterprise Supervisory Stress Testing Branch • Enterprise Counterparty Financial Standards Branch • Duty to Serve Branch • Enterprise Goals Branch • FHLB Affordable Housing Branch • Policy, Research and Market Oversight Branch • External Risk Branch • Model Risk Branch • Credit Risk Branch • Data Analytics Platform Section

		<ul style="list-style-type: none"> Enterprise Business Performance Monitoring Section Safety and Soundness 3 PT1 <p>As noted above for Question 1.3, Divisions and Branches have access to the datasets on the DAP analytics for research and to support enforcement actions.</p>
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5.2	<p>Is information shared with external (outside FHFA) agencies, organizations, contractors, or other entities? For purposes of this Section, external organization(s) include Federal, state, and local government, and the private sector.</p> <ul style="list-style-type: none"> If yes, please identify the information shared, and for what purpose. If no, skip to Section 6. 	<p>No. Much of the information in the datasets that are within the scope of this PIA are obtained from outside vendors, other agencies, or publicly available datasets. No individuals or entities outside of FHFA have access to the datasets via the DAP.</p>
5.3	<p>Is the sharing of PII outside the agency compatible with the stated purpose of the original information collection?</p> <ul style="list-style-type: none"> If yes and a SORN applies, identify the applicable routine uses in the SORN listed in Question 4.1. If no and/or a SORN a does not apply, identify the legal authority that permits the sharing outside FHFA. 	N/A

Section 6.0 Technical Access and Security

The following questions describe technical safeguards and security measures.

#	Question	Response
6.1	<p>Will FHFA Office of Inspector General (OIG) or non-FHFA personnel (e.g., contractor personnel, regulated entity personnel) have access to the System/Collection and information contained therein?</p> <ul style="list-style-type: none"> If yes, how will they gain access to the System/Collection? If no, how will the agency control access to and use of that information? Are there procedures or criteria documented in writing? If so, please describe. 	<p>FHFA OIG personnel will not have access to the DAP or datasets contained thereon. Contractors working directly for the Office of the Chief Data Officer (OCDO), Division of Housing and Mission Goals (DHMG), the Office of Technology, and Office of the Chief Information Officer (OCIO) who have an official business need for this information can be granted access to such information. Access is controlled through a user's assignment to designated access groups with specified access.</p>
6.2	<p>Are there any conflicts of interest with respect to the System/Collection or information? If so, identify the conflicts of interest and describe how they are addressed.</p>	No
6.3	<p>Describe the type and frequency of training that is provided to users that is specifically or generally relevant to the System/Collection.</p>	<p>FHFA requires IT Security, Privacy Awareness, and Records Management training within two weeks of a new employee or contractor's start date and annually thereafter. Additionally, specialized security and role-based privacy</p>

		training is required annually for users with elevated privileges.
6.4	Describe the technical/administrative safeguards in place to protect the data.	<p>As documented in the System Security and Privacy Plan (SSPP), access to the DAP is limited to those with a business need and who have been approved for access by the system owner. Role-based access controls are integrated into the system and users are granted the least privileged role necessary for their responsibilities.</p> <p>The DAP is hosted by FHFA and accessible only to FHFA users with valid Active Directory groups/accounts. Technical and administrative safeguards are documented within the SSPP and tested prior to authorization and annually thereafter as part of FHFA's assessment and authorization (A&A) process and consistent with the NIST Risk Management Framework. These safeguards include, but are not limited to procedures for securely managing access to the system, assigning permissions based on the concept of least privilege, generating and reviewing audit logs, data encryption, etc.</p>

Section 7.0 Risk

The following questions describe the risk to the information within the System or Collection.

#	Question	Response
7.1	Given the amount and type of information collected, what are the risks to an individual's privacy associated with collection of the data? Explain in detail how the loss or compromise of the information will/can affect an individual's privacy and describe how these risks are mitigated.	The datasets on the DAP are not directly collected from any individuals but are collected from sources that either gathered the information in the datasets or acquired that information from another source. That information was provided to FHFA via SFTP straight to the DAP, where it has since been maintained. Accordingly, there appears to be a low risk to an individual's privacy associated with the collection of data.
7.2	Discuss the risks associated with the length of time data is retained and how those risks are mitigated.	The datasets on the DAP are deemed permanent records and are maintained accordingly for present and future use. However, all datasets are maintained on the DAP, which is not accessible by anyone outside of FHFA. In addition, access to each dataset is strictly limited to those with an official business need. Anyone seeking access must show they have an official business need and their request is fully vetted before being granted by the owner(s) of each dataset on the DAP. Accordingly, the risk associated with the length of time the data is retained appears to be low.
7.3	Given the external sharing, explain the privacy risks to the individual and describe how those risks are mitigated.	Except for versions of certain datasets made available to the public through other means (and not directly from the DAP) specifically for public consumption, there is no external sharing of the datasets on the DAP, as noted above. Accordingly, there is no risk associated with external sharing of data.

Addendum to the Data Analytics Platform (DAP) PIA

The following systems, applications, and/or databases are expressly included within, and the related privacy risks are described by this PIA:

1. **Housing Goals – Purpose:** Analysis and verification of Enterprise housing goals performance; **FHFA’s Source of the Dataset:** Fannie Mae and Freddie Mac (the Enterprises); **PII Data Elements Collected:** Freddie Mac loan number, seller’s loan number, assigned loan-level record number, zip code, and borrower’s age, race/ethnicity, gender; **Use Cases:** Research and analytics; and **Applicable Retention Schedule:** FHFA CRS Item 2.3a.
2. **Residential Energy Consumption Survey (RECS) Public/Non-Public – Purpose:** Research; **FHFA’s Source of the Dataset:** Confidential Information Protection and Statistical Efficiency Act (CIPSEA) Information Access Agreement between U.S. Energy Information Administration and Federal Housing Finance Agency; **PII Data Elements Collected:** DOEID, property state and zip code, and buyer/owner’s gender, age, race, and presence/absence of children; **Use Cases:** Conducting research to better understand trends in energy consumption and housing costs at the household level and developing research in the areas of physical and transition risk. The DSA further limits FHFA’s use of the dataset for statistical purposes only; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the U.S. Energy Information Administration, from which this dataset originates.
3. **National Flood Insurance Program (NFIP) Public/Non-Public – Purpose:** Research to generate aggregate statistics (public version) and to understand NFIP coverage for GSE loans as well as claim amounts for GSE loans at the census tract level of NFIP policies and claims (non-public version); **FHFA’s Source of the Dataset:** Memorandum of Understanding (MOU) between National Flood Insurance Program (NFIP), Pivot and Federal Housing Finance Agency (FHFA), v 1.0; **PII Data Elements Collected:** Property address, including street/house number, street, city, state, zip code, and property longitude and latitude coordinates; **Use Cases:** Conducting research and analysis into flood insurance coverage gaps relating to NFIP coverage for the Enterprises’ mortgages, and merging FEMA data with internal FHFA data to conduct internal research and analysis; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the Federal Emergency Management Agency’s National Flood Insurance Program, from which this dataset originates.
4. **McDash/Black Knight – Purpose:** Analyzing mortgage markets nationwide and evaluating the performance of mortgages related to the Government-Sponsored Enterprises’ holdings; **FHFA’s Source of the Dataset:** Data Sharing Agreement (Contract No. FHF-13-C-002) initially with McDash and later renewed with Black Knight effective 12.20.22 and expiring 12.21.24; **PII Data Elements Collected:** Loan ID, Next Loan ID, Loan number, McDash loan identifier, McDash Unique Loan ID, Property address (state, zip code), Client number, Source Number, Consumer Identification Number, Borrower zip code, and TransUnion PERMID (Hashed); **Use Cases:** Researching and analyzing the data for Government official purposes, including but not limited to the construction of summary statistics of the data set fields, building economic models and other models, writing research papers and other documents, and composing speeches, remarks and conference presentations, as well as comingling the data with other software or other data as part of FHFA’s research and analyses for official business purposes; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by Black Knight, from which this dataset originates.
5. **FHFA House Price Index (HPI) – Purpose:** Research, analysis, and compliance with statutory reporting requirements; **FHFA’s Source of the Dataset:** the Enterprises; **PII Data Elements Collected:** Loan ID, Loan number, Enterprise ID, Clip, Previous Clip, APN (Parcel Number unformatted), Previously Parcel Number, Composite Property Linkage Key, Original APN, Tax Account Number, Property address (street/house number, street name, city, state, zip code), Buyer’s current address, Buyer’s/Borrower’s Gender, Buyer’s/Borrower’s marital status, gender, and name, name of “C/O buyer,” Seller’s name, and name of lender’s principal/representative; **Use Cases:** Assessing changes in national average house prices when adjusting the conforming loan limit values each year, as required by the Housing and Economic Recovery Act of 2008 (HERA), estimating a variety of other monthly and quarterly indices, and supporting internal and public release of numerous areas of ongoing and future research and policy making, which is used

extensively by external researchers, academics, realtors, the mortgage industry, and others; and **Applicable Retention Schedule:** FHFA CRS Item 2.3a.

6. **FHLBNY – Purpose:** Supporting the FHFA House Price Index (FHFA HPI) monthly production, as mandated by HERA; **FHFA’s Source of the Dataset:** Federal Home Loan Bank of New York; **PII Data Elements Collected:** Loan ID and property address (street address, city, state, zip code); **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** FHFA CRS Item 2.3b.
7. **Multiple Listings Service (MLS) – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Clip, Previous Clip, APN (Parcel Number Unformatted), Composite Property Linkage Key, Original APN, Tax Account Number, Alternate Parcel ID, Property address (street/house number, street, city, state, county, zip code), Composite Listing ID Derived (CoreLogic unique identifier comprised of linked multiple ID fields), Listing ID Standardized (CoreLogic standardized unique identifier for the listed property), Listing ID, APN (Parcel Number Unformatted) standardized, Parcel Number, Parcel Tax ID, Listing Agency’s identifier (similar to a NRDS ID), name, and unique office identifier, Listing Co-agent identifier, name, and unique office identifier, Buyer Agent Identifier, name, and unique officer identifier, Buyer Co-agent identifier, name, and unique office identifier; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
8. **FHA – Purpose:** Supporting the FHFA House Price Index (FHFA HPI) monthly production, as mandated by HERA; **FHFA’s Source of the Dataset:** Memorandum of Understanding by and between the U.S. Department of Housing and Urban Development and the Federal Housing Finance Agency Regarding Fair Housing and Fair Lending Coordination; **PII Data Elements Collected:** First and last name and company of Owner/Borrower, Court case number, Property address (street/house number, street, city, state, zip code), Lender representative first and last name, company, business address, and business phone number, Parcel Number ID, Parcel Number ID unformatted; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the U.S. Department of Housing and Urban Development (HUD) from which this dataset originates.
9. **Building Permits – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Clip, Previous clip, APN parcel number unformatted, Composite Property Linkage Key, Original APN, Tax Account Number, Alternate Parcel ID, Property address (house/street number, street, city, county, state, zip code), Standardized street address, city, county, state, zip code; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
10. **DataQuick – Purpose:** Supporting the FHFA House Price Index (FHFA HPI) monthly production, as mandated by HERA; **FHFA’s Source of the Dataset:** Contract #95314324P0008 with CoreLogic; **PII Data Elements Collected:** Property Address (street/house number, street, city, state, county, zip code), Lender property address, First and Last name of defendant/borrower (and affiliated company(ies)) and beneficiary/lender representative, Beneficiary/Lender Phone number, Parcel Number ID, and Parcel Number Unmatched ID; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of

numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.

11. **Deed Transfers – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Assessor’s Parcel Number (APN) (Parcel Number Unformatted), Composite Property Linkage Key, Original APN, Tax Account Number, Name of buyers, buyer’s “C/O”, seller, and lender representative, Property address (street/house number, street, city, state, zip code, Lender’s business address, position title, and phone number, and Property ID; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
12. **First Street Foundation – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Contract #95314323F2029 with Software Information Resource Corp. (SIRC), a reseller of the First Street data; **PII Data Elements Collected:** Property longitude/latitude and Property address (street/house number, street, city, state, zip code); **Use Cases:** Incorporation into FHFA’s work product for further research, analysis, and potentially publication; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
13. **Grounded Solutions Network (GSN) – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Data Sharing Agreement # FHF-0030 (DSA) with GSN; **PII Data Elements Collected:** Race/ethnicity/national origin, Property city, state, and zip code, Existence of children in household, Existence of seniors in household; **Use Cases:** Establishing a dataset and platform for exchange of Raw Data in a usable format for research purposes, establishing a beneficial partnership between the Parties that will enable applied research having both scientific and practical implications, enabling research conducted by FHFA, as described in the DSA at Attachment B – Scope of Research Project (or other research objectives related to housing solutions with lasting affordability as mutually agreed upon in the future), and measuring the overall size of the shared equity (SE) market and create a growth index for projecting future volumes of SE home sales and resales; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
14. **Neighborhood Demographics – Purpose:** Supporting research, analysis, and internal and public release of numerous areas of ongoing and future research and policy making; **FHFA’s Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Age, Marital status, Race/ethnicity, Primary language, Educational level achieved, Existence of children; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
15. **Neighborhood Employment – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Commuter status and Type of employment; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
16. **Pre-foreclosure – Purpose:** Research and analysis; **FHFA’s Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Parcel Number ID, Parcel Number unformatted ID, Composite Property Linkage Key, Transaction ID, Attorney name, phone number (of attorney involved in the preparation of the document/loan), Defendant/Borrower first and last name, company

name, Lender/Beneficiary first and last name, company name, mailing address including city, state, and zip code and phone number, Court Case Number, Plaintiff/Lending institution representative name, Property address (street/house number, street, city, state, zip code), Trustee representative's name, street address, city, state, and zip code, and phone number, Clip, Previous Clip, APN (parcel number unformatted), Original APN, Tax Account Number, Composite Transaction ID (unique transaction key comprised of FIPS Code, Transaction Batch Date, Transaction Sequence Number, and Mortgage Sequence Number), and Court Case Number; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.

17. **Tax Assessor – Purpose:** Research and analysis; **FHFA's Source of the Dataset:** Contract #95314323P0032 with CoreLogic; **PII Data Elements Collected:** Clip, Previous Clip, APN Parcel number unformatted, Composite Property Key Linkage, Original APN, Tax Account number, Alternate Parcel ID, Previous Parcel Number, Previous Parcel Number formatted, Property address (house/street number, street, city, county, state, zip code), Owner full name (first and last name and middle initial), and Seller name; **Use Cases:** Improving the existing and future house price indexing methodology, evaluating home price trends in different market segments, analyzing transactional issues related to home equity, and conducting research related to housing or mortgage finance, and supporting internal and public release of numerous areas of ongoing and future research and policy making; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.
18. **Single Family Rentals – Purpose:** Research and analysis; **FHFA's Source of the Dataset:** FHFA Contract with Lincoln Institute of Land Policy; **PII Data Elements Collected:** Unique ID, Cleaned Owners Name, Normalized mailing/site address, Parcel ID; **Use Cases:** To study the property characteristics of single-family rentals purchased by institutional investors. This can be done through linkage to other agency datasets, such as the MLS and tax assessor data, which enables analysis of characteristics like structure condition and tax assessment values; and **Applicable Retention Schedule:** Not applicable, as these records are for reference only, are not manipulated by FHFA, are therefore not managed as FHFA records, and are managed by the source from which this dataset originates.