



BUREAU OF THE  
**Fiscal Service**  
U.S. DEPARTMENT OF THE TREASURY

**Payment Information Repository (PIR)**

**Discovering the True Value of Payment Data  
Data Quality and the Road to Business Intelligence**

Fiscal Service Advisory Council Payments  
Forum

September 17-18, 2014  
Karen Brown, PIR Project Manager

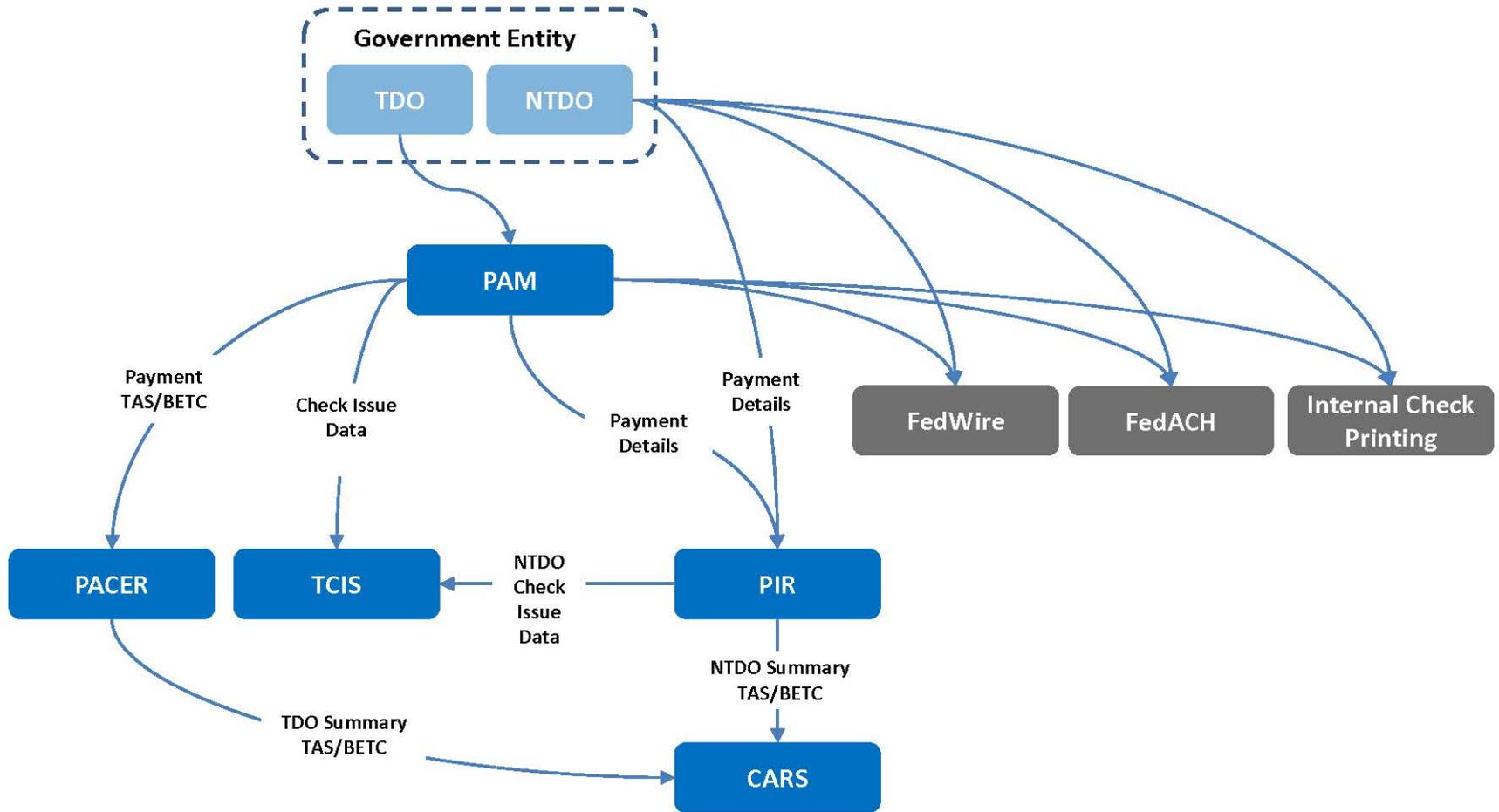
# Payment Information Repository (PIR)

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PIR is a multi-year initiative that will create a centralized information repository and business intelligence solution for federal payment related data.

- Offers a centralized repository containing detailed and summarized records of payment transactions processed by all federal program agencies (TDO & NTDO)
- Provides business intelligence and reporting capabilities on both summarized and detailed payment transactions (TDO & NTDO)
- Provides the ability to support transparency of government payments (TDO & NTDO)
- Supports reporting of classification information to Central Accounting Reporting System (CARS) for NTDOs. PIR will be the only vehicle available for NTDOs to report their TAS/BETC(s) to GWA.
- Replaced CA\$HLINK II functionality for disbursement transactions for NTDOs

# EFT & Check Data Feeds Flow



# PIR Interfaces

System	Output	Input	Frequency	Type of Information
ASAP (Automated Standard Application for Payments)		✓	Daily	Grant Payment Data
CARS/GWA (Central Accounting Reporting System/Governmentwide Accounting)	✓		Daily	PIR provides payment data including TAS/BETC
FIR (Financial Information Repository)	✓		Monthly	Data integration (Private portal into PIR and eventual Public facing access to payment information)
FRB Cashlink		✓	Daily	EFT payment voucher data
<b>Future</b> ITS.gov		✓	Daily	International Payment Data
PACER (Payment, Claims and Enhanced Reconciliation)		✓	Daily	Payment Status
PAM (Payment Application Modernization)		✓	Daily	TDO Payments
Non –Treasury Disbursing Offices SRF		✓	Daily	NTDO Payments
SAM (Shared Accounting Module)		✓	Daily	Validates Treasury Account Symbol (TAS/BETCs), ALC, Department Name & Bureau Name
TCIS (Treasury Check Information System)	✓	✓	Daily	Check information. NTDO will submit their check information via the SRF to PIR and PIR will provide the detailed check information to TCIS. All other functions in TCIS remain constant.
GCD (Global Customer Directory)		✓	Monthly	In support of assignment of associating ACH & Wire RTNs to the name & address of the recipient financial institution, PIR will receive & process the Federal Reserve Bank RTN Directory that stores financial institution's name & location information with its RTN.
NAICS (North American Industry Classification System)		✓	Ad hoc Basis	The standard used by Federal statistical agencies in classifying business establishments, used to establish the top 10 Market Sectors.
GSA/SAM (General Services Administration/System for Award Management)		✓	Adhoc Basis	US Federal Contractor Registration system

# Current Payment Views

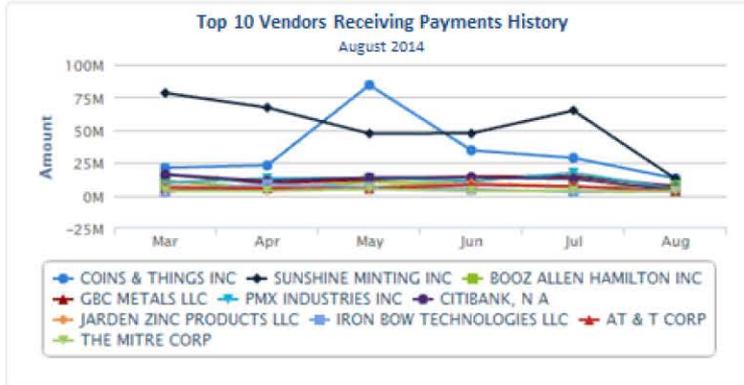
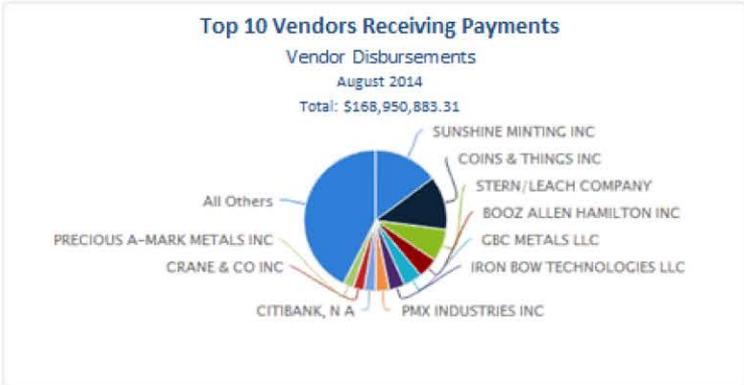
Title	Private	Targeted for Public
<b>Business Intelligence Vendor Payment Dashboard Views</b>		
Top 10 States of Vendors Receiving Payments	✓	✓
Types of Organizations Receiving Vendor Payments	✓	✓
Top 10 Market Sectors Receiving Vendor Payments	✓	✓
Top 10 Vendors Receiving Payments	✓	✓
Socially/Economically Disadvantage Vendor	✓	
Top 10 Financial Institutions used by Vendors	✓	
Top 10 State Locations of Financial Institutions used by Vendors	✓	
Minority Vendors	✓	
<b>Business Intelligence All Payment Dashboard Views</b>		
By Organization (Departments, Bureaus, Agency Location Code (ALC))	✓	
Payment Methods	✓	
Payment Type	✓	
Time to Check Paid	✓	
Average Time to Check Paid	✓	

# PIR Private Portal Dashboard Views

## Department Of The Treasury

Info Details Feedback

Data Quality



Vendor	Amount	Percentage
SUNSHINE MINTING INC	\$25M	14.8%
COINS & THINGS INC	\$21M	12.3%
STERN/LEACH COMPANY	\$12M	7.4%
BOOZ ALLEN HAMILTON INC	\$8M	4.7%
GBC METALS LLC	\$7M	4.2%
IRON BOW TECHNOLOGIES LLC	\$6M	3.6%
PMX INDUSTRIES INC	\$5M	3.1%
CITIBANK, N A	\$4M	2.6%
CRANE & CO INC	\$4M	2.4%
PRECIOUS A-MARK METALS INC	\$4M	2.4%
All Others	\$72M	42.6%

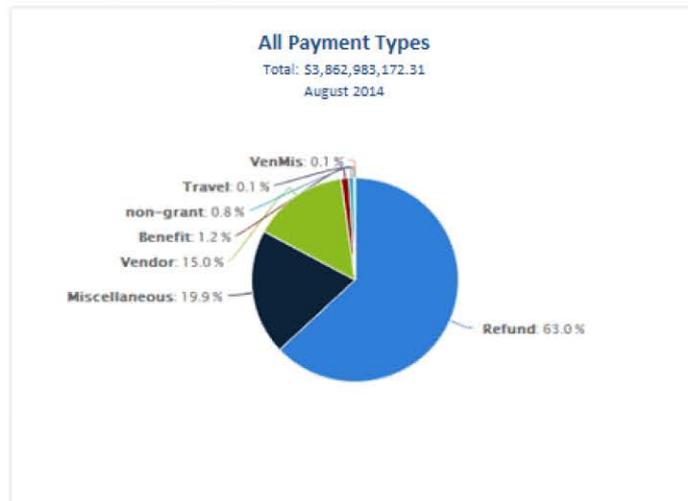
Vendor	Mar 2014	Apr 2014	May 2014	Jun 2014	Jul 2014	Aug 2014
COINS & THINGS INC	\$21M	\$23M	\$84M	\$35M	\$29M	\$13M
SUNSHINE MINTING INC	\$78M	\$67M	\$47M	\$48M	\$65M	\$13M
BOOZ ALLEN HAMILTON INC	\$11M	\$5M	\$10M	\$9M	\$5M	\$8M
GBC METALS LLC	\$16M	\$9M	\$12M	\$15M	\$15M	\$7M
PMX INDUSTRIES INC	\$10M	\$13M	\$13M	\$11M	\$17M	\$5M
CITIBANK, N A	\$16M	\$11M	\$14M	\$14M	\$13M	\$4M
JARDEN ZINC PRODUCTS LLC	\$7M	\$7M	\$6M	\$10M	\$7M	\$4M
IRON BOW TECHNOLOGIES LLC	\$3M	\$9M	\$7M	\$5M	\$3M	\$3M
AT & T CORP	\$6M	\$5M	\$5M	\$8M	\$7M	\$3M
THE MITRE CORP	\$4M	\$4M	\$5M	\$4M	\$4M	\$3M

# PIR Private Portal BI All Payments View

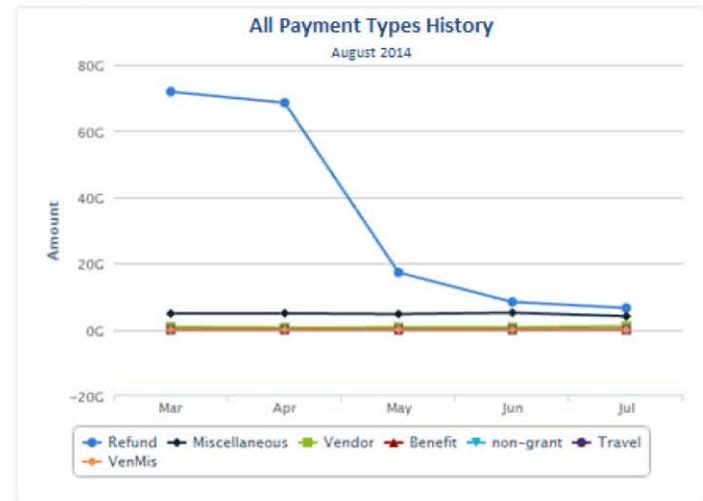
Provides the ability to view which Departments disburse the largest sum of PIR payments and the corresponding amounts.

## Department Of The Treasury - Month To Date

Info Details Feedback



Data Quality



Payment Types	Amount	Percentage	Min Payment	Max Payment	Avg Payment
Refund	\$2,434M	63%	\$0.01	\$9,909,473.67	\$3,288.92
Miscellaneous	\$768M	19.9%	\$0.01	\$99,999,999.00	\$6,190.70
Vendor	\$578M	15%	\$0.33	\$90,472,500.00	\$63,244.15
Benefit	\$46M	1.2%	\$2.00	\$33,731.62	\$3,251.57
non-grant	\$31M	0.8%	\$121,152.48	\$28,100,000.00	\$3,101,933.44
Travel	\$4M	0.1%	\$0.30	\$24,639.99	\$340.88
VenMis	\$2M	0.1%	\$1.00	\$1,359,887.00	\$22,668.91

Payment Types	Mar 2014	Apr 2014	May 2014	Jun 2014	Jul 2014	Aug 2014
Refund	\$71,866M	\$68,503M	\$17,286M	\$8,360M	\$6,580M	-
Miscellaneous	\$4,888M	\$4,952M	\$4,724M	\$5,111M	\$4,095M	-
Vendor	\$855M	\$675M	\$725M	\$748M	\$1,071M	-
Benefit	\$44M	\$44M	\$45M	\$45M	\$45M	-
non-grant	\$41M	\$40M	\$36M	\$37M	\$43M	-
Travel	\$9M	\$10M	\$11M	\$10M	\$11M	-
VenMis	\$6M	\$8M	\$62M	\$18M	\$10M	-

# Data Quality Realizations

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Must transform low quality operational data (suited for processing business transactions) into high quality data necessary for analytics by ensuring:

- Overall completeness/accuracy of data
- Submitted by agencies
- Obtained from other sources for enrichment

*One example is Payment categorization (vendor, misc., grant, etc.), as this is key to generating available views of information*

In working with Treasury agencies, the following data quality lessons were uncovered:

- GWA SAM did not reflect the current reporting structure for Department/Bureau/ALCs.
- Non-vendor disbursing ALCs had payments coded as Vendor which needed to be removed from report views.
- Payments reported to PIR by PAM with a payment type of “VenMis” needed to be re-categorized to appropriately include Vendor payments in the reports.
- The majority of vendor payments for one agency were submitted by Wire, which are all categorized as “Miscellaneous” payments. Both the agency and PIR made changes to be able to accurately include these payments in reports.

# Data Quality Strategy/Tools

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The Dashboard views and reports available within PIR will allow agencies:

- Insight into Data Quality issues
- Provide resources/tools necessary to correct the problem and
- Ensure value of the information portrayed once corrected.



PIR intends to provide both short and long-term options for agencies to correct Data Quality issues. Below are some specific plans for helping agencies take action on inconsistent/incorrect use of the Payment Type attribute:

1. Provide agencies with the ability to correctly categorize payments (after the fact) based on a well-defined set of rules.
2. Update Payment Types and publish revised guidance.
3. Provide agency education to use correct payment types.
4. Coordinate application changes to support additional payment types for wire payments.
5. Guide agencies on approach to add metadata to wire instructions indicating payment type so PIR can derive the correct information.

# Vendor Detail Report

Department Name	Dept ID	Bureau Name	Bureau Code	ALC	Is Included	Record Type	Payment Payee Name	Payment Date	Process Date	Payment Amount	Payment Type	Payment Method	Unified Vendor ID	Unified Vendor Name	Is Matched to CGR	Is Redacted	Org Type Code	Organizational Type	State Code	Market Sector Code
<b>Included Detail</b>																				
Treasury		Mint		20160001	Y	detail	AT&T MOBILITY LLC	6/3/13	6/3/13	\$846,501.18	Vendor	NACHA	546123	AT & T MOBILITY LLC	Y	N	2L	Corporate Entity	DE	51
Treasury		Mint		20160001	Y	detail	VERIZON PENNSYLVANIA I	6/6/13	6/6/13	\$21.89	Vendor	NACHA	987231	VERIZON COMMUNICATIONS INC	Y	N	2L	Corporate Entity	NY	51
Treasury		Mint		20160001	Y	detail	VERIZON MARYLAND INC.	6/6/13	6/6/13	\$68.99	Vendor	NACHA	987231	VERIZON COMMUNICATIONS INC	Y	N	2L	Corporate Entity	NY	51
Treasury		Mint		20160001	Y	detail	CELLO PARTNERSHIP	6/11/13	6/11/13	\$30,916.45	Vendor	NACHA	987231	VERIZON COMMUNICATIONS INC	Y	N	2L	Corporate Entity	NY	51
Treasury		Mint		20160001	Y	detail	SECURICOR INTL VALUABL	6/3/13	6/3/13	\$1,520.00	Vendor	NACHA	485123	SECURICOR INTL VALUABL	N	N				
Treasury		Mint		20160001	Y	detail	LOCKHEED MARTIN SERVIC	6/3/13	6/3/13	\$11,109.06	Vendor	NACHA	854321	LOCKHEED MARTIN SERVICES INC	Y	N	2L	Corporate Entity	DE	33
Treasury		Mint		20160001	Y	detail	LOCKHEED MARTIN SERVIC	6/11/13	6/11/13	\$6,140.00	Vendor	NACHA	854321	LOCKHEED MARTIN SERVICES INC	Y	N	2L	Corporate Entity	DE	33
Treasury		Mint		20160001	Y	detail	SMITH, MARVIN	6/3/13	6/1/13	\$15.23	Vendor	Check	652341	SMITH, MARVIN	Y	Y	2J	Sole Proprietor		
Treasury		Mint		20160001	Y	detail	BORTON-LAWSON ENGINEER	6/3/13	6/3/13	\$4,331.13	Vendor	NACHA	765164	BORTON-LAWSON ENGINEERING INC	Y	N	2L	Corporate Entity	PA	33
Treasury		Mint		20160001	Y	detail	PHILADELPHIA CITY OF-W	6/3/13	6/3/13	\$2,188.40	Vendor	NACHA	142536	PHILADELPHIA CITY OF-W	N	N				
Treasury		Mint		20160001	Y	detail	ULINE INC.	6/3/13	6/3/13	\$127,213.19	Vendor	NACHA	968574	ULINE INC	Y	N	2L	Corporate Entity	DE	54
Treasury		Mint		20160001	Y	detail	SAFETY-KLEEN SYSTEMS I	6/3/13	6/3/13	\$1,061.84	Vendor	NACHA	748596	SAFETY-KLEEN SYSTEMS INC	Y	N	2L	Corporate Entity	WI	11
<b>Included Summary</b>																				
Treasury		Mint			Y	summary	**Total of other payments included in Vendor Report**			\$222,081.65	Vendor	NACHA								
Treasury		Mint			Y	summary	**Total of other payments included in Vendor Report**			\$14,830.73	Vendor	Check								
<b>Excluded Detail</b>																				
Treasury		Mint		20160001	N	detail	A-MARK PRECIOUS METALS, INC	7/1/13	6/30/13	\$7,418,534.06	Misc	Wire	362514	PRECIOUS A-MARK METALS INC	Y	N	2L	Corporate Entity	NY	23
Treasury		Mint		20160001	N	detail	A-MARK PRECIOUS METALS, INC	6/4/13	6/4/13	\$5,000,000.00	Misc	Wire	362514	PRECIOUS A-MARK METALS INC	Y	N	2L	Corporate Entity	NY	23
Treasury		Mint		20160001	N	detail	A-MARK PRECIOUS METALS, INC.	7/1/13	6/30/13	\$4,382,335.69	Misc	Wire	362514	PRECIOUS A-MARK METALS INC	Y	N	2L	Corporate Entity	NY	23
Treasury		Mint		20160001	N	detail	MTSUI & CO. PRECIOUS METALS, INC.	6/4/13	6/4/13	\$5,000,000.00	Misc	Wire	451278	MTSUI & CO PRECIOUS METALS INC	Y	N	2L	Corporate Entity	NJ	23
Treasury		Mint		20169999	N	detail	NORTHROP GRUMMAN	6/4/13	6/12/13	\$600.00	Vendor	NACHA			N	N				
Treasury		Mint		20169999	N	detail	NORTHROP GRUMMAN	6/5/13	6/12/13	\$55.00	Vendor	NACHA			N	N				
Treasury		Mint		20169999	N	detail	NORTHROP GRUMMAN	6/6/13	6/30/13	\$350.00	Vendor	NACHA			N	N				

In the report output, the spreadsheet shows data grouped into three categories: Included Detail, Included Summary, and Excluded Detail.

*Note: These categories are separated by color within this module for demonstration purposes only.*

Detailed information in this report is mock data and not reflective of actual information.

# PIR Security

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- PIR is secured in accordance with Federal Information Security Management Act of 2002 (FISMA) and other federal laws and regulations for IT systems security that apply.
- Access to PIR data is constrained by the Agency Location Code (ALC). The ALC is a unique identifier assigned to every agency for reporting receipts and disbursements.
- A PIR user must request and be granted access to view ALC data by an ALC approver. ALC approvers are assigned to each agency and have the responsibility of ensuring that PIR users have a business justification and “need to know” for accessing ALC data.
- The PIR application is two-factor authenticated requiring a level 2 PKI Token.
- Enrollment in PIR is a multi-step process

# PIR Support and Resources

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## PIR Fiscal Service Website

- <http://fms.treas.gov/pir/index.html>

## PIR Agency Outreach Team

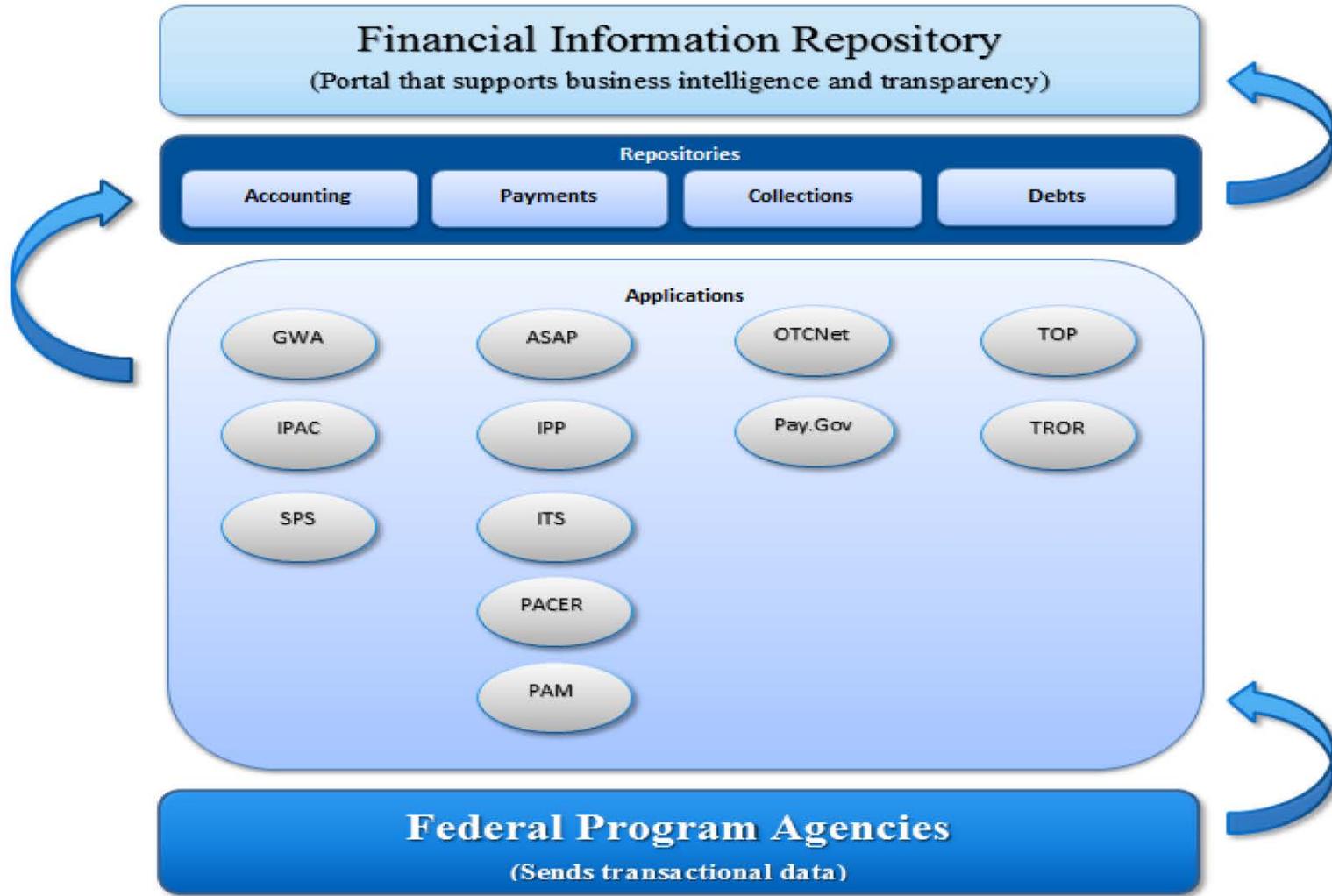
- [pir.agency.outreach@fms.treas.gov](mailto:pir.agency.outreach@fms.treas.gov)

## PIR Helpdesk Contact Information

- 816-414-2340
- [pir.help.desk@fms.treas.gov](mailto:pir.help.desk@fms.treas.gov)

## Computer Based Training Modules

- Business Intelligence
  - Business Intelligence Vendor Payment Views
  - Business Intelligence All Payments Views
  - BI Dashboard Components
  - Unified Vendor Description
  - Validating Vendor Payment Reports
- Running Reports
  - Vendor Payment Detail Report
  - Running the EFT Payment Voucher Report
  - Running the Check Payment Summary Report



Note: Applications listed above represents a portion of available Treasury applications

# Questions?

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