APPLYING MACHINE READABLE DATA STANDARDS TO REDUCE GRANTEE BURDEN AND ENHANCE OVERSIGHT

- MARC JOFFE, SENIOR POLICY ANALYST, REASON FOUNDATION
- MARK PRIEBE, DIRECTOR NON-FEDERAL AUDIT TEAM, U.S. DEPARTMENT OF EDUCATION, OFFICE OF INSPECTOR GENERAL
- MICHELLE SAVAGE, VP COMMUNICATIONS, XBRL US



AGENDA

- Challenges with grants reporting and data collection today
- How machine-readable data standards work
- Case study: How standards can improve grants reporting



GRANTS MANAGEMENT AND GRANTS DATA USE



0

PAIN POINTS

• Grantees

- Duplicate data entry
- Data integrity risk from manual data entry
- "Old" data (data is outdated by the time it's used)
- Grants management tracking/monitoring is highly manual especially for large grantees
 - Hundreds of grants, different federal agencies, multiple grants administrators
- Users of grants data



DATA FROM SINGLE AUDITS

- Single Audit reports are available to researchers and the general public through the Federal Audit Clearinghouse. See https://facdissem.census.gov/Main.aspx.
- For grantee fiscal year 2020, over 37,000 single audit documents have been filed with the FAC thus far. This number should increase in 2021 and 2022, as local governments and non-profits spend American Rescue Plan Act funds.
- Single Audits can be dozens or even hundreds of pages each, so the FAC is receiving millions of pages of unstructured audit data each year.
- Aside from financial data for grantees, many of these audits also include operating and performance statistics.



WHAT OVERSIGHT AGENCIES WANT TO BE ABLE TO DO

- Utilize all the data available in the financial and compliance audit (single audit)
- Reduce the amount of time it takes to analyze the data
- Pinpoint problem areas in order to do targeted quality control reviews
- Analyze data across multiple years to aid in monitoring and grant making decisions



GREAT ACT IMPLEMENTATION COULD UNLOCK THIS DATA

- The Grant Reporting Efficiency And Agreements Transparency Act Of 2019 (Public Law 116-103) requires Single Audits data standards that shall, to the extent reasonable and practicable —
 - (1) render information reported by recipients of Federal awards fully searchable and machinereadable;
 - (2) be nonproprietary;

(3) incorporate standards developed and maintained by voluntary consensus standards bodies;
(4) be consistent with and implement applicable accounting and reporting principles; and
(5) incorporate the data standards established under the Federal Funding Accountability and Transparency Act of 2006



WHY MACHINE–READABLE DATA STANDARDS

- Examples: UPC, shipping container (a standard is NOT a product)
- Machine-readable data standards enable:
 - Unambiguous shared understanding of reported information (the only way data can become machine-readable is if a computer can "read" it)
 - 2. Data sharing/commingling of different datasets (for example grants application data with grantee financial statement data; or corporate financial data with corporate ESG data)
 - 3. Easy cataloging and maintenance (and searching and querying) of data inventories
 - 4. Higher data integrity (transparency, trust, timeliness)
 - Easy (low cost) adaptability to changes in reporting requirements and technology advances over time







		Federal Fir	nancial Rep	oort		Number: 4040-0014		Federal Gran	t Identifier		
(Follow form Instructions) Expiration Date: 02/28/20; 1. Federal Agency and Organizational Element to Which Report is Submitted Agency (To report multiple grants, use FFR Attachment)					gred by Federal	-	Agency: DOD/NSA				
National Security Agency H98230-19-1-0173 3. Recipient Organization (Name and complete address including Zip code) Recipient Organization Name: College of DuPage					•	Reporting Entity: College of DuPage			5		
Street2: City: Glen Elly State: IL: Illin	ois	Count	ty:	Province:			•	Report Period 4/25/2			
Country: USA: UNITED STATES 4a. DUNS Number 4b. EIN 5. Recipient Account Number or Identify (To report multiple grants, use FFR Atta 06-10-02739			ifying Number		•	Advanced Student GenCyber Grant					
6. Report Type Quarterly Semi-Annual Annual Final	7. Basis of Accounting │ Cash │ Accrual	8. Project/Grant F From: 04/26/2019	Period To: 04/25/2021	9. Reporting Pe 04/25/:							
10. Transactions				•	Cumulative				Cash	Receipts	
	le or multiple grant reporting)	EED attachment)									
Federal Cash (To report multiple grants, also use FFR attachment): a. Cash Receipts				15,602.22			Advance	ed Student			
b. Cash Disbursements				23,625.48			GenCy	ber Grant	$\overline{)}$		
c. Cash on Hand (line a minus b)				-8,023.26					Ĭ		
(Use lines d-o for single grant reporting)							Reporting E	Entity: College	J		
Federal Expenditures and Unobligated Balance:							of D	ouPage	C		
d. Total Federal funds authorized				23,979.08					$\left \right\rangle$		
e. Federal share of expenditures					23,625.48			Monetary	r: US dollars		
f. Federal share of unliquidated obligations				0.00			Report Period End Date:				
g. Total Federal share (sum of lines e and f) h. Unobligated balance of Federal Funds (line d minus g)					23,625.48 353.60			-	5/2020		

DATA STANDARDS SUPPORT THE GREAT ACT

• Pilot: College of DuPage

- Can data standards be implemented cost-effectively?
- Can grants data be rendered unambiguously machine-readable?
- Can standardizing grants data reduce the burden of reporting and data collection?



DATA STANDARDS SUPPORT THE GREAT ACT

Data Standard (Taxonomy)

GRANTS MANAGEMENT (FIBF)

- Grant Program Administration (010)
- Grant Pre-Award Management (020)
- Grant Award Management (030)
- Grant Post-Award Management and Closeout (040)
- Grant Program Oversight (050)
- Grant Recipient Oversight (060)

ANNUAL COMPREHENSIVE FINANCIAL REPORT

- Single Audit Schedules
 - Expenditures
 - Findings & Questioned Costs
- Grant reports SF424/SF425
- Financial Statements (7)
- Framework to define what's reported and how each fact relates to other facts (e.g., federal award identifier to cash disbursed for a specific grant; how current and noncurrent assets add into total assets)
- Is software agnostic so can be used in any application or database
- Single Data Model that communicates to reporting, data collection, and analytical tool what is reported

MACHINE-READABLE DATA STANDARDS IN PRACTICE

iew Burden Statement		OMB Number: 4 Expiration Date: 1
Application for Federal Assistance SF	424	
* 1. Type of Submission: Preapplication Application Changed/Corrected	* 2. Type of Application: New Continuation Revision	* If Revision, select appropriate letter(s):
Application		
3. Date Received:	4. Appli	icant Identifier:
5a. Federal Entity Identifier:	5b. Fed	eral Award Identifier:
State Use Only 6. Date Received by State:	7. State	Application Identifier:
6. Date Received by State: 8. APPLICANT INFORMATION	7. State	Application Identifier:
		Application Identifier:
B. Date Received by State: APPLICANT INFORMATION a. Legal Name:	ege of DuPage	
6. Date Received by State:	lege of DuPage Number (EIN/TIN): • c. UEI	
E. Date Received by State: APPLICANT INFORMATION * a. Legal Name: Community College District 502 - Col *b. Employer/Taxpayer IdenSflication	lege of DuPage Number (EIN/TIN): • c. UEI	1
Data Received by State: APPLICANT INFORMATION Logarunity Schege Datest 562 - Cel Society Schege Datest 562 - Cel Society Schege Datest 562 - Cel Society Schege Datest 562 - Cel Address: Street 1	lege of DuPage Number (EIN/TIN): • c. UEI	NRDNY28
Data Received by State: APPLCANT INFORMATION August Name: Community College Distort 502 - Col Scherzer: Scherzer: Address:	isge of DuPage Number (EIN/TN): • c. UEI (P7XI)	NRDNY28
Data Received by State: APPLICANT INFORMATION Logarunity Schege Datest 562 - Cel Society Schege Datest 562 - Cel Society Schege Datest 562 - Cel Society Schege Datest 562 - Cel Address: Street 1	isge of DuPage Number (EIN/TN): • c. UEI (P7XI)	
Data Received by State: APPLICANT INFORMATION * a. Legal Name: Community Galage Dialest 502 - Col be. Employer lakestificator 30-2584972 d. Address: Street 1 425 Falsest Block	High of DuPage Number (EIN/TN): • c. UE Provi Street 2	NICONT28
Data Received by State: APPLCANT INFORMATION Legal Name: Community College Dates 502 - Coll Societ Characterized College Dates 502 - Coll Societ CSP City City	Number (EIN/TIN): * c. UE:	nazverzej nazverzej Parak

 \bigcirc

				Ex	piration Date: 02
Federal Financial Re	port (Follow form Instru	ctions)			
1. Federal Agency and Submitted	d Organizational Elemen	t to Which Report is	2. Federal Grant or Other (To report multiple grants	r Identifying Number Assig s, use FFR Attachment)	ned by Federal A
National Security Ag	gency		H98230-19-1-0173		
-3. Recipient Organia	zation (Name and comple	ete address including zip co	ide)		
Recipient Organizat	tion Name				
College of DuPage					
Street 1		City		County	
425 Fawell Blvd		Glen Ellyn			
State		Province		Country	
IL: Illinois		Province		USA: UNITED STATES	
60137-6708					
				-	
4a. DUNS Number 066209610	4b. EIN 36-2594972	5. Recipient Account 06-10-02739	Number or Identifying Numb	er (To report multiple gran	ts, use FFR Attac
			Number or Identifying Numb	er (To report multiple gran	ts, use FFR Attac
	36-2594972		Number or Identifying Numb 8. Project/Grant Period		
055209510 5. Report Type Quarte Annual	36-2594972 erty Semi- 7. Basis	06-10-02739 of Accounting	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date
0dd209d10 5. Report Type Quarte	36-2594972 erty Semi- 7. Basis	06-10-02739 of Accounting	8. Project/Grant Period Form: To:	9. Reporting	Period End Date
066209610 5. Report Type Quarte Annual	36-2594972 erty Semi- 7. Basis	06-10-02739 of Accounting	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date
006209610 5. Report Type Quarte Annual 2. Final -10. Transactions	36-2594972 erly Semi- 7. Basis Cast Accr	0d-10-02739	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date
066209610 S. Report Type Quarts Annual Annual Final -10. Transactions Particulars (Use lim	36-2594972 erty Semi- 7. Basis	05-10-02739 to Accounting huual	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date
066209610 S. Report Type Quarts Annual Annual Final -10. Transactions Particulars (Use lim	36-2594972 erty Semi- Cast Accr es a-c for single or multij	05-10-02739 to Accounting huual	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date 0 Ozmulative
066209610 5. Report Type Quarte Annual 2 Final -10. Transactions Particulars (Use lim Federal Cash (To re	36-2594972 erly Semi- Cast Cast Cast cast cast cast cast cast cast cast c	05-10-02739 to Accounting huual	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date
000209010 5. Report Type Quarte Annual Annual Final Particulars (Use lin Federal Cash (To re a. Cash Receipts	30-2594972 erty Semi- 7. Basis Cast Cast Cast Accr port multiple grants, also ents	05-10-02739 to Accounting huual	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date 0 Comulative 15,60
000209010 5. Report Type Quarts Annual 9. Final 10. Transactions Particulars (Use lin Federal Cash (To re a. Cash Receipts b. Cash Disbursem C. Cash on Head (lin Federal Expenditur	38-2594972 arty Semi- 7. Basis Cata Cat	06-10-02739 of Accounting a uual sele grant reporting) ouuse FFR attachment)	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Date 0 Cumulative 15,60 23,61
066209610 5. Report Type Quarte Annual Annual Final Fried Perticulars (Use lin Pederal Cash (Tore a. Cash Receipts b. Cash Disbursem c. Cash on Hand (lin Cash on Hand (lin	38-2594972 arty Semi- 7. Basis Cata Cat	06-10-02739 of Accounting a uual sele grant reporting) ouuse FFR attachment)	8. Project/Grant Period Form: To:	9. Reporting 04/25/202	Period End Dat 0 Cumulative 15,6 23,6

<u>SF-425</u>

COMMUNITY COLLEGE DIS SCHEDULE OF EXPENDITURES FOR THE YEAR ENDED	OF FEDERAL	AWARDS		
	Federal	Pass through	Program or	
Federal Grantor/Pass-Through	CFDA	Award	Award	
Grantor/Program Title	Number	Number	Amount	Expenditures
U.S. Department of Education				
Student Financial Aid Cluster				
Federal Pell Grant Program 2018-2019, and prior	84.063		\$ 484,505	\$ 484,505
Federal Pell Grant Program 2019-2020	84.063		20,119,362	20,119,362
Federal Direct Student Loans 2018-2019, and prior	84.268		328,815	328,815
Federal Direct Student Loans 2019-2020	84.268		12,767,923	12,767,923
Federal Work-Study Program 2018-2019	84.033		450,000	28,783
Federal Work-Study Program 2019-2020	84.033		400,000	322,879
Federal Supplemental Educational Opportunity Grants 2018-2019, and prior	84.007		600,000	111,597
Federal Supplemental Educational Opportunity Grants 2019-2020	84.007		700,000	749,614
Sub Total Student Financial Aid Cluster			35,850,605	34,913,477
Coronavirus, Aid, Relief, and Economic Security (CARES) Act Section 2				
Higher Education Emergency Relief Fund (HEERF)				
COVID-19 Higher Education Emergency Relief Fund - Student Portion	84.425E		4,550,443	2,637,360
COVID-19 Higher Education Emergency Relief Fund - Institutional Portion	84.425F		4,550,443	2,637,360
Sub Total Coronavirus Aid Relief and Economic Security (CARES) Act			9,100,886	5,274,720
Passed through Illinois Community College Board:				
Adult Education - Basic Grants to States 2019	84.002	F5020119	824,640	5,509
Adult Education - Basic Grants to States 2020	84.002	F5020020	952,410	869,871
English Literacy and Civics Grant 2020	84.002	F5020020	55,000	55,000
Sub Total CFDA 84.002			1,832,050	930,380
Career and Technical Education - Basic Grants to States 2019	84.048	V048A190013	1,503,193	(1,871)
Career and Technical Education - Basic Grants to States 2020	84.048	V048A200013	1,794,223	1,633,142
Sub Total CFDA 84.048			3,297,416	1,631,271
Total U.S. Department of Education			50,080,957	42,749,849
National Science Foundation				
Scholarships in Science, Technology, Engineering, and Mathematics	47.076		650,000	187,957
Pass through Elmhurst College				
Education and Human Resources	47.076	1911271LSAMP_COD_1	165,035	15,690
Sub Total CFDA 47.076			815.035	203.647

<u>Schedule of</u> Expenditures of Federal Awards

STATEMENT 2 COLLEGE OF DUPAGE COMMUNITY COLLEGE DISTRICT NUMBER 502 STATEMENT OF REVENUES, EXPENSES, AND CHANCES IN NET POSITION FOR THE YEAR ENDED JUNE 30, 2020

REVENUES	
Operating Revenues	
Student tuition and fees	\$ 52,362,008
(net of scholarship allowances of \$24,726,997	
and uncollectable of \$264,017)	
Sales and service fees	2,815,697
Other operating revenues	2,134,996
Total Operating Revenues	 57,312,701
EXPENSES	
Operating Expenses	
Instruction	122,686,527
Academic support	16,639,549
Student services	27,373,023
Public service	4,214,638
Operation and maintenance of plant	22,325,372
General administration	18,583,521
General institutional	29,345,137
Auxiliary enterprises	11,241,011
Scholarship expense	15,681,881
Depreciation expense	30,484,235
Total Operating Expenses	298,574,894
Operating Income (Loss)	 (241,262,193)
NON-OPERATING REVENUES (EXPENSES)	
Real estate taxes	101,833,157
Corporate personal property replacement taxes	1,663,185
State appropriations	106,032,624
Federal grants and contracts	30,992,114
Non-governmental gifts and grants	1,480,651
Investment income	8,244,788
Interest on capital asset-related debt	(5,645,983)
Gain (loss) on sale of capital assets	31,155
Net Non-Operating Revenues (Expenses)	 244,631,691
Net Income Before Capital Contributions	 3,369,498
CAPITAL CONTRIBUTIONS	
Capital gifts and grants	10,500
Increase in Net Position	 3,379,998
Net Position at Beginning of Year	 420,716,255
Net Position at End of Year	\$ 424,096,253

Financial Statements

<u>SF-424</u>

GRANTS MANAGEMENT AND GRANTS DATA USE



⁼inancial

SF-SAC

Statements

- Grantees eliminates dual data entry; ensures they have most current reporting requirements (no more outdated forms); improves quality and timeliness of what they report
- Oversight agency –easy to update reporting requirements, adapt to new technologies; easier to communicate to grantees and data users; enables sharable data and detailed, consistent data inventories
- Data users (including oversight agencies) higher integrity, faster, more granular data

OVERSIGHT AGENCIES ARE TAKING THIS APPROACH TODAY

- 6,000+ public companies and investment management companies report in XBRL to the SEC
- 5,000 banks report in XBRL to the FDIC
- 600+ public utilities report in XBRL to the FERC
- 184 XBRL regulatory and oversight programs worldwide
- 80 global oversight agencies have adopted



STATES PIONEERING THE USE OF MACHINE-READABLE DATA STANDARDS FOR SINGLE AUDIT DATA

- Florida State CFO's Florida Open Financial Statement System Project
- <u>Michigan University of Michigan Center for Local State and Urban Policy</u> (<u>CLOSUP</u>)



QUESTIONS

- Marc Joffe, marc.joffe@reason.org
- Mark Priebe, mark.priebe@ed.gov
- Michelle Savage, michelle.savage@xbrl.us