

Advocate Aurora Health

## Advocate Aurora Health Institutional Repository

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All Other Contributions

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11-17-2022

### **Tailoring reports to stakeholder needs: Combining data from Digital Commons content inventory and dashboards**

Jennifer Deal

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# Tailoring Reports to Stakeholder Needs: Combining Data from Digital Commons Content Inventory and Dashboards

MIRL | November 17, 2022 | Jennifer Deal



# Who are we?

- Aurora Health Care in Wisconsin and Advocate Health Care in Illinois merged into Advocate Aurora Health in 2018 (12<sup>th</sup> largest not-for-profit health system in US)
- 27 hospitals, 500+ sites of care, and 75,000+ employees
- Institutional repository (IR) started in 2014 at Aurora Health Care
- IR Stakeholder groups include:
  - Graduate Medical Education
  - Advocate Aurora Research Institute
  - Nursing Research



Advocate  
Aurora  
Health®

# The ask:

## One cohesive report for Aurora Graduate Medical Education scholarly activity

Previous process was haphazard and duplicated efforts

Library approached as a challenge, but also an opportunity to strengthen a valuable partnership



# Ways we were well-positioned

## Scholarly activity organized by GME program

- ☐ **Aurora Graduate Medical Education**
  - ☐ **Aurora Faculty**
    - Aurora UW Cardiology Faculty
    - Aurora UW Chiropractic Faculty
    - Aurora UW Complex General Surgical Oncology Faculty
    - Aurora UW Diagnostic Radiology Faculty
    - Aurora UW Electrophysiology Faculty
    - Aurora UW Family Medicine Faculty – Lakeland (Rural)
    - Aurora UW Family Medicine Faculty – Milwaukee
    - Aurora UW Gastroenterology Faculty
    - Aurora UW Geriatrics Faculty
    - Aurora UW Heart Failure Faculty
    - Aurora UW Hematology/Oncology Faculty
    - Aurora UW Hospice/Palliative Medicine Faculty
    - Aurora UW Internal Medicine Faculty
    - Aurora UW Interventional Radiology Faculty
    - Aurora UW Midwifery Faculty
    - Aurora UW Ob/Gyn Faculty
    - Aurora UW Transitional Year Faculty
    - Aurora UW Undersea and Hyperbaric Medicine Faculty
  - ☐ **Aurora Residents and Fellows**
    - Aurora Cardiology Fellows
    - Aurora Chiropractic Residents
    - Aurora Complex General Surgical Oncology Fellows
    - Aurora Diagnostic Radiology Residents

## Submission form process

AURORA GME

PubMed ID

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If your article appears in PubMed and you have the [PubMed](#) ID, enter it here. The information from PubMed will be used to pre-populate the submission form and then you can add to or edit information below.

**Enter External Article ID**

PubMed ID

**REQUIRED Title**

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Ensure the title does not include a period at the end. Remove period if necessary. Also ensure that the first word of title has the first letter capitalized. All other words should be in lowercase.  
e.g. Health care's transformation is inevitable

**Enter title:**

**REQUIRED Authors**

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Your name and email address will default in as the first author. Please remove if you are filling out this form on someone else's behalf. Ensure all authors are included, with aah.org email addresses and Advocate Aurora Health as the institution for all AAH

# Some challenges

Content Inventory Report	Dashboard Reports
Publication/presentation date	Submission to IR date
Document type	# of downloads
AMA formatted citation	# PlumX Usage
All GME programs represented (custom field)	# PlumX Citations
ACGME Web-Ads (custom field for accreditation purposes)	# PlumX Captures
Uploader identification	# PlumX Mentions
	# Social Media Likes, Shares, Tweets

# The solution:

**Merge Content Inventory and Dashboard reports  
into one cohesive report**



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# Report #1: Content Inventory

### Report Options

This tool allows you to generate a comprehensive overview of the content of your repository or publication. Make your selections, press Save Changes, and then generate the report of your choice. [Learn more about the Content Inventory.](#)

**INCLUDE COLLECTED CONTENT IN YOUR REPORT(S)**

**Structure Report (Site-Level Only)**

This report will contain a list of your publications (by URL) and the amount of published content in each.

**Generate Structure Report**

**Metadata Report**

This report provides options to include metadata for fields in Advocate Aurora Health Institutional Repository, plus fields used by collected content.

**INCLUDE UNPUBLISHED (WITHDRAWN, REJECTED, ETC) CONTENT IN THE METADATA REPORT**

**Generate Metadata Report**

**VIEW / EDIT METADATA** | **VIEW / EDIT PUBLICATIONS**

Field Name	Display Name	Include In Report? SELECT ALL <input type="checkbox"/>
abstract	Abstract	<input checked="" type="checkbox"/>
abstract_format	Description Format	<input checked="" type="checkbox"/>
acknowledgements	Cover Page Footnote	<input checked="" type="checkbox"/>

- Can run for multiple series concurrently
- Can choose to include collected content if you use collection filters in your IR
- Can exclude unpublished content if desired



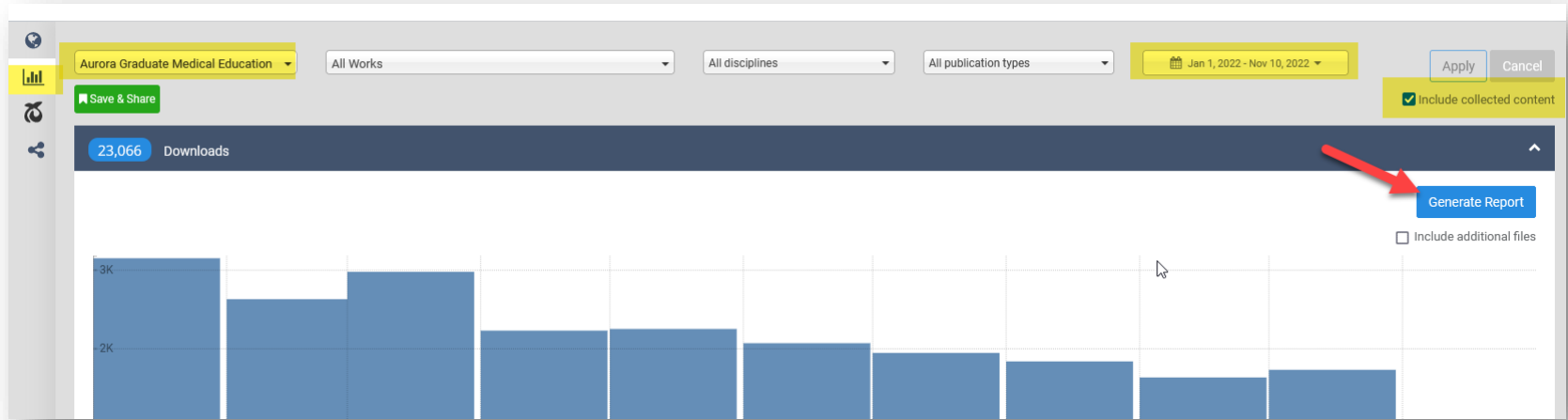
# Report #1: Content Inventory

The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. A table is visible with columns BC through BJ. The 'publication\_date' column (BG) is highlighted in green. A 'Sort Warning' dialog box is open, asking 'What do you want to do?' with two options: 'Expand the selection' (selected) and 'Continue with the current selection'. The 'Sort' button is highlighted in blue.

	BC	BD	BE	BF	BG	BH	BI	BJ
1	presentation_note	presentation_note	preview_image	previous_versions	publication_date	publisher	pubmedid	recommended_cit
2		Oral Presentation			2021-11-08 00:00			
3					2021-01-20 00:00		34317484	
4					2021-04-01 00:00		33897963	
5		Presentation at: S			2021-06-07 00:00			
6		Peer reviewed plat			2021-05-27 00:00			
7					2022-04-01 00:00		34642095	
8		Education infograp			2015-10-01 00:00			
9					2021-11-01 00:00		34719402	
10					2021-09-01 00:00		34671536	
11					2021-10-21 00:00		34747699	
12					2021-10-01 00:00		34671455	
13					2021-10-06 00:00		34693357	
14					2021-11-01 00:00		34705698	
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25					2022-02-01 00:00		34890880	
26		Poster presented e			2020-05-13 00:00			
27					2022-01-01 00:00		34931333	

- Publication date: Data tab > Sort Z→A
- Make sure to Expand the selection
- Delete rows out of date range

# Report #2: Dashboard Downloads



- Dashboard > Usage tab > Generate Downloads report
- Must repeat for all appropriate series and manually combine
- Submission date: Data tab > Sort Z→A / Expand selection
- Delete rows out of date range

# Report #2: Dashboard Downloads

## Conditional Formatting to flag duplicates

The screenshot shows the Excel Conditional Formatting task pane. The 'Duplicate Values' rule is selected, which is used to highlight cells containing values that appear more than once in the selected range. In the background, a table of data is visible with several rows highlighted in red, indicating duplicate URLs.

Row	Description	URL	Date	Status	Count
1231	Why not a cupcake and other food-like products during and after car	http://institutionalrepository.aah.org/faculty/11			
1232	Withholding ICDs after EF improves to > 35% can not be justified in a	http://institutionalrepository.aah.org/cardiacelectrofellows/4			
1233	Withholding ICDs after EF improves to > 35% can not be justified in a	http://institutionalrepository.aah.org/cardiacelectrofaculty/25			
1234	World Association of Sleep Medicine (WASM) 2016 standards for rech	http://institutionalrepository.aah.org/cardiacelectrofaculty/6			
1235	Writing author response letters that get editors to "yes"	http://institutionalrepository.aah.org/faculty/79			
1236	Xanthogranulomatous Pyelonephritis	http://institutionalrepository.aah.org/radiologyfaculty/23			
1237	Xanthogranulomatous Pyelonephritis	http://institutionalrepository.aah.org/radiologyresidents/27			
1238	Xenoreactive antibodies and latent fibrin formation in VAD and card	http://institutionalrepository.aah.org/hrtfailurefaculty/17			
1239	Yes, changing how you teach does make a difference	http://institutionalrepository.aah.org/faculty/111			
1240	Younger hypertensive patients are more likely to have activated My	http://institutionalrepository.aah.org/residents/26			
1241	p16 as a biomarker to distinguish atypical ductal hyperplasia from d	http://institutionalrepository.aah.org/obgynfaculty/34			
1242	Venga y relájese! pilot stress reduction program for migrant Latina	http://institutionalrepository.aah.org/faculty/49			
1243	"Difficult teaching case" conference call series—a faculty developm	http://institutionalrepository.aah.org/faculty/76			
1244					
1245	"What matters most?" for older patients who have cancer	http://institutionalrepository.aah.org/auroragme/183	2022-11-04	published	0
1246	18-year-old presenting with non-specific abdominal/back pain dia	http://institutionalrepository.aah.org/auroragme/164	2022-09-22	published	0
1247	2-year outcomes after transcatheter versus surgical aortic valve repl	http://institutionalrepository.aah.org/auroragme/60	2022-03-11	published	0
1248	A Case of Spontaneous Celiac Artery Dissection	http://institutionalrepository.aah.org/auroragme/75	2022-04-01	published	20
1249	A case of transcatheter aortic valve implantation in a centenarian pa	http://institutionalrepository.aah.org/auroragme/22	2021-12-02	published	0
1250	A complex case of myxedema coma complicated by rhabdomyolysis	http://institutionalrepository.aah.org/auroragme/167	2022-09-22	published	0
1251	A randomized controlled trial of an oral probiotic to reduce antepar	http://institutionalrepository.aah.org/auroragme/159	2022-09-21	published	0
1252	A rare case of severe hypernatremia induced rhabdomyolysis	http://institutionalrepository.aah.org/auroragme/71	2022-03-31	published	7
1253	A rare cause of rapidly progressive glomerulonephritis	http://institutionalrepository.aah.org/auroragme/77	2022-04-01	published	9
1254	A standards-based checklist for program evaluation as scholarly acti	http://institutionalrepository.aah.org/auroragme/180	2022-10-28	published	0
1255	A statewide approach to reducing re-excision rates for women with	http://institutionalrepository.aah.org/auroragme/132	2022-07-22	published	0
1256	ACG 2021 COVID-19 Induced Persistent Jaundice with Secondary Scl	http://institutionalrepository.aah.org/auroragme/57	2022-03-07	published	15

## Find & Replace to match URLs

The screenshot shows the Excel Find and Replace dialog box. The 'Find what' field contains 'http' and the 'Replace with' field contains 'https'. The 'Look in' dropdown is set to 'Formulas'. The dialog box is overlaid on a table of data.

Row	Description	URL	Date	Status
	Aurora Graduate Medical Education			
	URL	http://institutionalrepository.aah.org/auroragme/183	2022-11-04	published
	actors in	http://institutionalrepository.aah.org/auroragme/184	2022-11-04	published
	ment with	http://institutionalrepository.aah.org/auroragme/185	2022-11-04	published
	onments:	http://institutionalrepository.aah.org/auroragme/186	2022-11-04	published
	larly acti	http://institutionalrepository.aah.org/auroragme/180	2022-10-28	published
	rdance re	http://institutionalrepository.aah.org/auroragme/180	2022-10-28	published
	residency	http://institutionalrepository.aah.org/auroragme/180	2022-10-28	published
	nsion Co	http://institutionalrepository.aah.org/auroragme/180	2022-10-25	published
	le diagn	http://institutionalrepository.aah.org/auroragme/180	2022-10-21	published
	iated acu	http://institutionalrepository.aah.org/auroragme/180	2022-10-21	published
	osis durin	http://institutionalrepository.aah.org/auroragme/180	2022-10-10	published
	lve prol	http://institutionalrepository.aah.org/auroragme/180	2022-10-07	published
	scopy	http://institutionalrepository.aah.org/auroragme/180	2022-10-07	published
	scopy	http://institutionalrepository.aah.org/auroragme/180	2022-09-29	published
	scopy	http://institutionalrepository.aah.org/auroragme/180	2022-09-26	published
	k pain dia	http://institutionalrepository.aah.org/auroragme/180	2022-09-22	published
	omyolysis	http://institutionalrepository.aah.org/auroragme/180	2022-09-22	published
	y obstruct	http://institutionalrepository.aah.org/auroragme/165	2022-09-22	published
		http://institutionalrepository.aah.org/auroragme/163	2022-09-22	published
	th left sid	http://institutionalrepository.aah.org/auroragme/161	2022-09-22	published
	ltaneous	http://institutionalrepository.aah.org/auroragme/166	2022-09-22	published
	aker impl	http://institutionalrepository.aah.org/auroragme/168	2022-09-22	published

# Report #3: PlumX data

Advocate Aurora Health Institutional Repository

Jennifer Deal

Aurora Graduate Medical Education | All Works | All disciplines | All publication types | May 9, 2014 - Nov 7, 2022

Save & Share | Apply | Cancel | Include collected content

### PlumX Snapshot

- 182518 Usage**
  - 49117 Abstract Views
  - 0 Collaborator Count
  - 104551 Download Count
  - 25540 Full Text Views
  - See More
- 8803 Citations**
  - 8692 Cited By Count
  - 34 Clinical Cited By Count
  - 0 Patent Cited By Count
  - 58 Policy Cited By Count
  - See More
- 14660 Captures**
  - 0 Bookmark Count
  - 1781 Exports Saves
  - 0 Favorite Count
  - 0 Fork Count
  - See More
- 340 Mentions**
  - 18 All Blog Count
  - 0 Comment Count
  - 310 News Count
  - 0 Qa Site Mentions
  - See More
- 14593 Social Media**
  - 4541 Facebook Count
  - 0 Like Count
  - 10052 Tweet Count

### PlumX Metrics

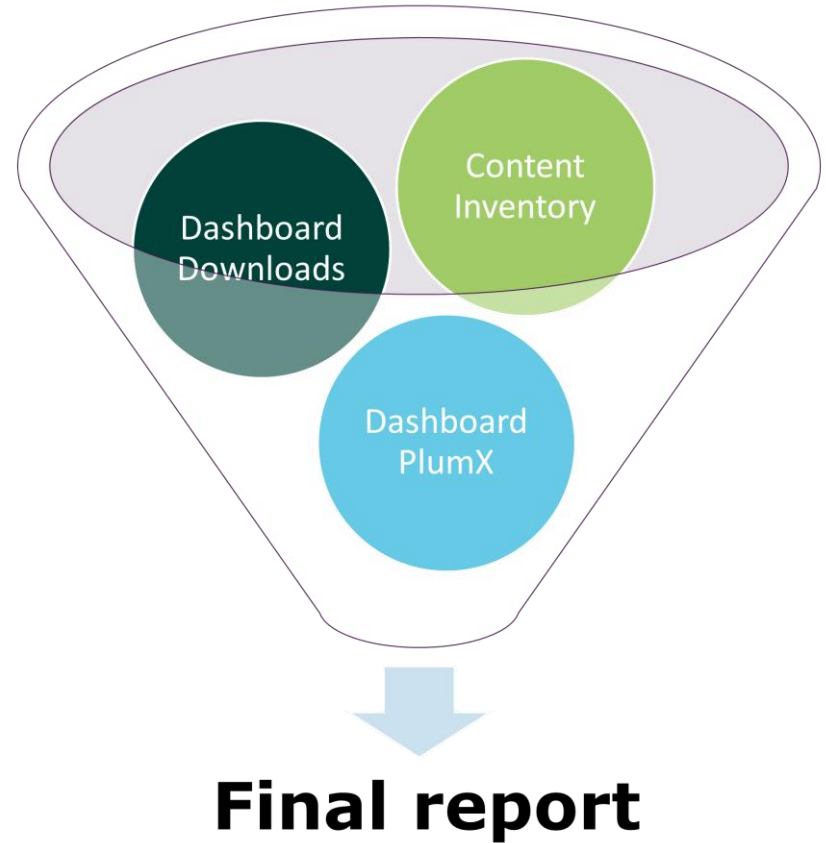
Show 10 entries | Search: | Export

Works	Usage	Citations	Mentions	Captures	Social Media
Hypertrophic cardiomyopathy clinical phenotype is independent of gene mutation and mut...	10731	40	0	137	41
Hypertrophic cardiomyopathy clinical phenotype is independent of gene mutation and mut...	10731	40	0	136	41
Normal diameter of the ascending aorta in adults: the impact of stricter criteria on subjects...	10058	0	0	0	0

- Dashboard > PlumX tab > Export PlumX metrics
- Must repeat for all appropriate series and manually combine
- Match records by Title instead of URL

# Merge reports

- Sort A→Z by Title
- Ensure all rows match
- Insert desired Dashboard report columns into Content Inventory



# Increase readability

1	Citation	Web Ads	Document Type	Publication date	Submission date	Total Downloads	PlumX Usage	PlumX Citations	PlumX Captures	PlumX Mentions	PlumX Social Media	Program groups represented	Uploader email	abstract	abs
2	Camara R, Matei N, Zhang JH. Evolution of the	PMID Articles	article	2021-05-01 00:00	2022-02-18	0	0	0	0	0	0	Aurora Diagnostic R	camille.dykas@aah.org	While the time win	htr
3	Ni A, Sawlani R, Shahir K. Demystifying Air Tra	Conference Preser	oralpresentation	2021-05-01 00:00	2022-02-23	6	27	0	0	0	0	Aurora UW Diagnos	camille.dykas@aah.org		htr
4	Leschke J, Shahir K, Sawlani R. CT Findings of	Other Presentation	oralpresentation	2021-05-01 00:00	2022-03-10	13	32	0	0	0	0	Aurora UW Diagnos	camille.dykas@aah.org		htr
5	Bowers RC, Korman ST, Thompson MA, Sana	Other Articles	abstract	2021-05-01 00:00	2022-06-28	0	12	0	0	0	0	Aurora UW Comple	samantha.loster@aah.org		htr
6	Sharma K. Brain fog: Understanding the neuroc	Conference Preser	oralpresentation	2021-06-26 00:00	2022-09-21	3	10	0	0	0	0	Aurora UW Hospice	kavita.sharma@aah.org	COVID 19	htr
7	Brooks J, MacDonald W. Anterior Superior liac	Other Articles	casereport	2021-06-30 00:00	2022-02-24	0	4	0	0	0	0	Aurora UW Diagnos	camille.dykas@aah.org		htr
8	Abstract 2618: Staged analysis of standard of c	Other Articles	abstract	2021-07-01 00:00	2022-01-19	0	16	0	0	0	23	Oncology_surgonct	jannette.bradley@aah.org		htr
9	Kebede K, Yifra B, Nichols C. Shooting suboxo	Conference Preser	poster	2021-08-01 00:00	2022-03-31	291	477	0	0	0	0	Aurora Internal Med	ellie.lehmann@aah.org		htr
10	Sharma K. Post COVID-19 neurological complic	Conference Preser	oralpresentation	2021-08-10 00:00	2022-09-21	3	7	0	0	0	0	Aurora UW Hospice	kavita.sharma@aah.org	management of	htr
11	Sulemanjee NZ, Walczak S, Perez Moreno AC,	Other Articles	article	2021-08-31 00:00	2022-09-02	0	0	0	0	0	0	Aurora UW Heart F	jennifer.deal@aah.org	Objective: The	htr
12	Major D, Onkiso M, Boujelbane L. A rare case	Conference Preser	poster	2021-09-01 00:00	2022-03-31	7	22	0	0	0	0	Aurora Internal Med	ellie.lehmann@aah.org		htr
13	Mundt D, Buggy B. Abdominal pain as the pres	Conference Preser	poster	2021-09-01 00:00	2022-03-31	6	18	0	0	0	0	Aurora Internal Med	ellie.lehmann@aah.org		htr
14	Moges F, Biswas A. Metastatic Lung Cancer P	Conference Preser	poster	2021-09-01 00:00	2022-03-31	6	12	0	0	0	0	Aurora UW Internal	ellie.lehmann@aah.org		htr
15	Siddiqui AA, Biswas A. Renal-limited PR-3 anti	Conference Preser	poster	2021-09-01 00:00	2022-03-31	12	15	0	0	0	0	Aurora UW Internal	ellie.lehmann@aah.org		htr
16	Moges F, Biswas A, Allaqaband S. Transcathet	Conference Preser	poster	2021-09-01 00:00	2022-03-31	4	22	0	0	0	0	Aurora UW Cardiol	ellie.lehmann@aah.org		htr
17	Kapapadi A, Kostopoulos L. A Case of Spontan	Conference Preser	poster	2021-09-01 00:00	2022-04-01	20	43	0	0	0	0	Aurora Internal Med	ellie.lehmann@aah.org		htr
18	Scheel J, Boujelbane L. A rare cause of rapidl	Conference Preser	poster	2021-09-01 00:00	2022-04-01	9	23	0	0	0	0	Aurora UW Internal	ellie.lehmann@aah.org		htr
19	Gill B, Goldman A. Anti-Synthetase Syndrome	Conference Preser	poster	2021-09-01 00:00	2022-04-01	5	11	0	0	0	0	Aurora UW Internal	ellie.lehmann@aah.org		htr
20	Hardilo H, Ogemdi Isiguzo C, Leybishkis B. Dia	Conference Preser	poster	2021-09-01 00:00	2022-04-01	9	19	0	0	0	0	Aurora UW Internal	ellie.lehmann@aah.org		htr
21	Hartlaub J, Simpson D, Rohrer A, Hafemann S,	Other Presentation	oralpresentation	2021-09-23 00:00	2022-01-18	1	55	0	0	0	0	Aurora UW Family	deb.simpson@aah.org	in clinical sites is	htr

- Put important columns at beginning
- Update column titles
- Shade important columns and add borders
- Strip HTML formatting: <p>, </p>, <strong>, </strong>, <em>, </em>

# Some pointers

## Questions for stakeholders:

1. What data to include?
2. How often do they want reports?
3. If limiting by date, which date is more important to them: publication/presentation or when it was added to the IR?
4. Work out timeline for when various tasks are due and who is responsible.



## Best Practices

1. Ask stakeholder group to communicate expectations to members. IR staff can play a supporting role by giving demos at meetings, sharing documentation, and answering technical questions.
2. Keep old reports for reference.
3. Most importantly, keep detailed notes for yourself.

## Contact Info

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