



American
Heart
Association®

Research Impact Evaluation

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EVALUATION METRICS MATRIX

Category	Metric	Institutional Undergrad Training Programs	Predocctoral Fellowship	Postdoctoral Fellowship	Career Development Award	Established Investigator Award	Innovative Project Award	Transformational Award	AIREA	Collaborative Science Award	AHA Merit Award	Strategically Focused Research Networks	Health Equity Research Networks
Prevention, Treatments, and Policy	Treatments, Products, Innovations, Devices to Market Clinical Trials (where applicable)												
	Policy citations												
Collaborations	Collaborations: institutional, local, national, international, academic, industry, policy, education and outreach												
Patents and Inventions	Patent applications, awards, citations; Licensing												
Publications and Citations	Number of award-related publications												
	Number of total publications												
	Author position of award-related publications												
	Author position of all publications												
	Number of citations and RCR of award-related publications												
	Number of citations and RCR of all publications												
	Author H Index												
	Conference Abstracts												
	Invited Talks												
	Open Activity (e.g., preregistration, preprints, compliance with open/public access and data sharing policies)												
Additional Funding	Publication (completion) of dissertation												
	Altmetrics												
	NIH funding, number of awards, dollars, and award												
Career Progression	Additional AHA awards												
	Other subsequent funding, number and dollars												
	Degrees earned												
	Retention/progression in research-related faculty position or equivalent; Tenure track achievement and rate												
AHA Awards and Contributions	Leadership roles (e.g., Director of an institute or research center)												
	NIH K to R progression												
	Mentees: number and progression/retention												
AHA Awards and Contributions	AHA engagement (e.g., AHA membership, events/conferences, peer review, volunteer committees, local affiliates)												
	Total AHA awards and dollars												

Evaluation Timeline

	Institutional Undergrad Training Programs	Predocctoral Fellowship	Postdoctoral Fellowship	Career Development Award	Established Investigator Award	Innovative Project Award	Transformational Award	AIREA	Collaborative Science Award	AHA Merit Award	Strategically Focused Research Networks	Health Equity Research Networks
Award Length	3 years	1 - 2 years	1 - 2 years	3 years	5 years	2 years	3 years	2 years	3 years	5 years	4 years	4 years
Award Amount	\$165,000	\$32,553/year	varies based on experience	\$231,000	\$400,000	\$200,000	\$300,000	\$154,000	\$750,000	\$1 Million	\$4.3 Million per center	\$20 Million
Evaluation Rules	Every 3 years 3 year cohorts	Every 3 years 3 year cohorts	Every 3 years 3 year cohorts	Every 3 years 3 year cohorts	Every 5 years 5 year cohorts	Every 3 years 3 year cohorts	Every 3 years 3 year cohorts	Every 3 years 3 year cohorts	Every 5 years 5 year cohorts	Every 5 years 5 year cohorts	After 3 SFRNs have finished	After 2 HERNs
Last Evaluation	Unknown	Fall 2021 2012-2016 cohorts	Fall 2021 2012-2016 cohorts	Fall 2021 2012-2016 cohorts (old portfolio BGIA/SDG)	Summer 2016 2008-2009 cohorts	Winter 2022 2009-2021 cohorts	Fall 2021 2012-2016 cohorts (old portfolio GIA)	Winter 2022 2017-2018 cohorts	Some initial work on 2014-2017 cohorts	Some initial work in 2019	Never collectively	Never collectively
Next Evaluation	Winter 2023 2015-2017 cohorts	Winter 2024 2017-2019 cohorts	Winter 2024 2017-2019 cohorts	Fall 2025 2017-2019 cohorts	Fall 2026 2012-2016 cohorts	On hold, starting funding again FY22-23	Winter 2015 2017-2019 cohorts	Fall 2027 2019-2022 cohorts	Fall 2022 2014-2016 cohorts (initial analyses; full analyses in 2026)	Winter 2030 2016-2020 cohorts	Fall 2024 Prevention, Hypertension , Disparities	Fall 2031 Hypertension , Maternal Infant Health

Using Dimensions to Assess Outcomes

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Selecting and Comparing Dimensions

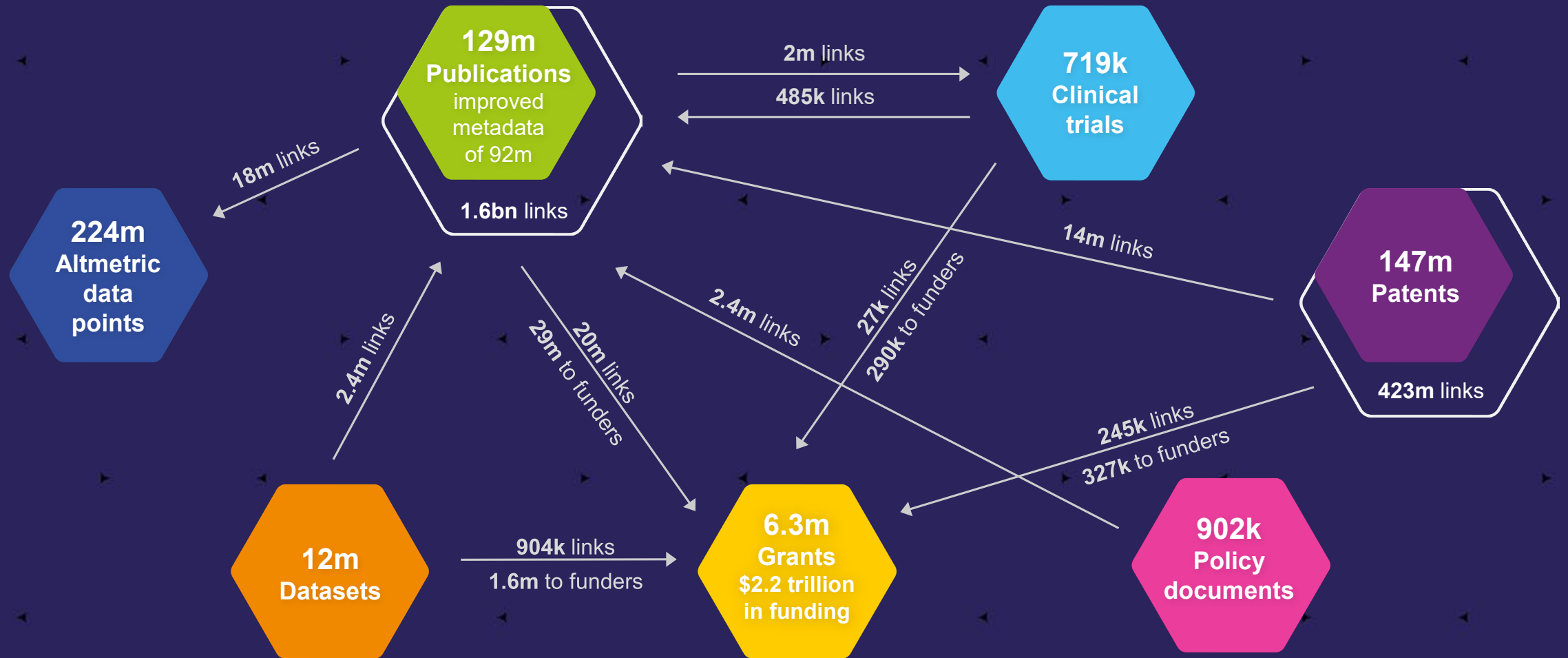
AHA selected Dimensions in 2020 to replace previous vendor

- Integrates with our Grants Management System
- Provides a more robust set of data sources
- Costs less than previous vendor
- Provides direct access by AHA staff and a public-facing portal
- Allows for independent consulting projects

AHA contracted with a consultant to review additional data sources

- Used a small cohort of awardees to compare Dimensions to ORCID and OpenAlex
- ORCID is accurate but limited
- OpenAlex is promising but just getting started

Content types and links in Dimensions





Comparing Awarded vs. Not Funded Applicants

Goal: Compare outcomes of awarded versus not funded applicants who were just above versus just below the pay line to understand if AHA awards support career development

Dimensions pulled publication, funding, policy, and clinical trial data for early career awards

AHA Awards Help Launch Careers

- No significant difference in the number of subsequent publications, however some awardees had a higher proportion of heart/brain-focused publications compared to not-funded applicants
- Those who received AHA funding early in their career earned more than twice as much subsequent funding compared to those who were not funded by the AHA
- Awarded applicants had a greater number of individuals with two or more NIH awards, a greater number of overall NIH awards, and early career awardees had three times as much aggregate NIH funding

Data-Driven Award Recommendation

Goal: Assess outcomes of designated AHA 'Innovation' awards compared to 'Non-Innovation' awards

Dimensions pulled data on publications, funding, and patents

Strategic Outcomes Subcommittee reviewed data and made recommendation to Research Committee

Innovation vs “Non-Innovation” Awards

- Similar volume of resulting publications, higher RCR and Altmetric for Innovation awardees
- Similar number of subsequent grants, but higher productivity when controlling for number of years post-award
- Higher volume of patent applications and awards for Innovation awardees