2019
Annual
Report

Knology

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practical social science for a better world

Knology

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Knology is a non-profit research institute working to empower change-makers with interdisciplinary social science research so they can create a society where all people live to their greatest potential in harmony with a thriving biosphere

For Knology, 2019 was *a year of transition*

Eight years after founding, our transdisciplinary model for pursuing practical social science to advance the public good has gained traction. We started our year with a reinvigorated spirit and a goal of positioning our work for greater success. We dedicated the first half of the year to taking stock of our successes and regrets, seeking feedback from our core partners, and revisiting how we could play a more useful role in creating a better world.

practical social science for a better world

John Fraser, PhD AIA
President & CEO

Joanna Brucker, Ed.M.
Chief Operating Officer

Leonard Singh, MBA
Chair, Board of Trustees

We heard from our partners that our value is the ability to situate our work at the broad systems level even when we're working at a single program. We're solution-oriented, which means we infuse our research with a clear eye to how results will be applied. Partners also appreciate that we work as a connector of ideas, people, and organizations. We focus equally on research and our commitment to writing accessible stories to ensure our research is in the hands of professionals who can effect change.

The process helped us learn that we need to expand our founding practice areas. We spent the year developing a strategy to integrate two new cross-cutting research programs into our framework: focus on the individual mental processes that drive human behavior, and the policies and structures that constrain or permission interactions in our society. The result is our new model that we outline in the following pages.

In the fall of 2019, we completed an extensive process to use the feedback from our partners to redefine our brand and announce our new name: Knology. This was a rather massive investment in pro bono support by a variety of great legal minds and design professionals, as well as trademark and communications specialists. Thanks to their effort, we ended the year with filing our new name and rebranding as Knology. We believe our new name, logo, and design strategy captures the joyful inquisitive nature of our team, and clear-eyed practical social science. The following pages are organized according to our new strategic plan, with each section highlighting one of our research areas.
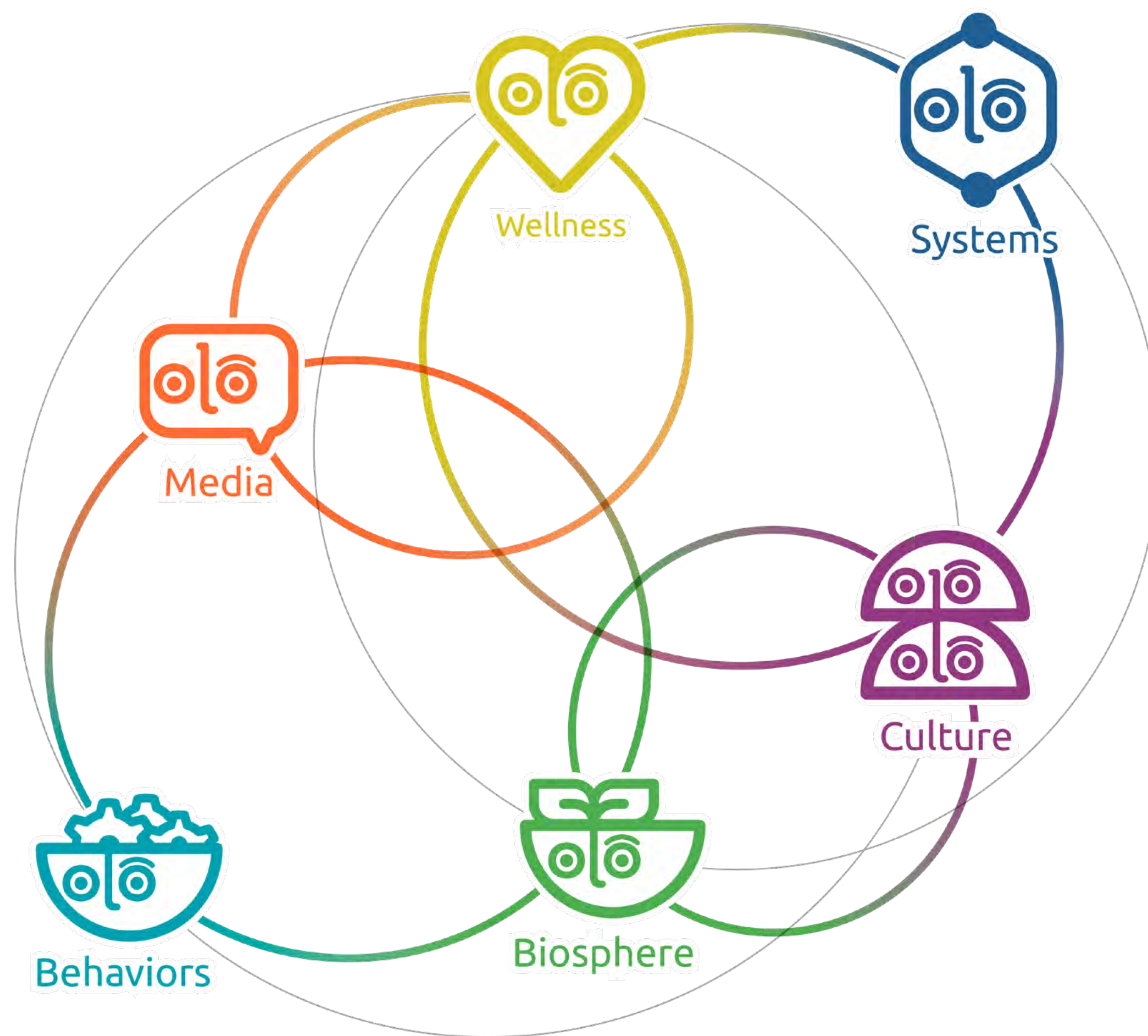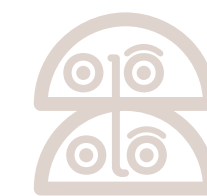
At the close of 2019, we were a financially secure non-profit ready to take on even bigger challenges.

Critical
thinking

Use diverse perspectives to challenge the status quo and navigate the great social issues of our time.

The challenges we face as a society are complex, stemming from multiple sources and exacerbated by many factors. The solutions to these problems must also be nuanced. Knology was founded with a **transdisciplinary** vision, where we draw from a variety of disciplinary perspectives to study and untangle problems. On the ground, the process can look messy, with researchers debating seemingly disparate approaches to use in any given project. But we are committed to this approach because we believe that the interaction between diverse perspectives makes Knology's team stronger and generates meaningful results. We are able to move past the symptoms and get to the heart of a social issue. The result? Our partners have the tools they need to clearly understand the factors at play and design equitable solutions.

Photo by Tom Barrett on Unsplash

A Nationwide Study of Competencies Needed for Library Public Programming

Public programs have become an increasingly important fixture in US libraries. They offer the public opportunities to develop job skills, socialize, learn how to access information, and much more. But two things were previously unclear: what skills are needed to develop and run such programs, and how do library professionals acquire those skills? With funding from the Institute of Museum and Library Services, we partnered with the American Library Association on a long-term initiative–the National Impact of Library Public Programs Assessment (NILPPA)–to solve this puzzle so that the professional field and universities can support this important work. The diverse perspectives of our research team–including anthropology, psychology, human rights, and more–as well as input from more than 1,200 library professionals themselves, made this study possible. Our transdisciplinary study was the first to identify a set of unique competencies for library public program professionals. The findings could inform curricula for library training and professional development programs. Read more about the study in **the white paper** and in **an article** in the Journal of Education for Library and Information Science here.

⟳ **Read more about the study here**

Inform & shape action

Equip leaders with social science research for evidence-based decisions and meaningful action.

practical social science for a better world

At Knology, our mission is to provide practical social science for a better world. As we refined our approach as a research non-profit in 2019, it became clear that the kernel of our goal is simple, yet powerful: practical social science. It means that social science research can and should be for everyone, not only locked behind paywalls and kept in ivory towers. It takes more investment from researchers and writers to tell compelling and accessible stories about rigorous social science research for a broader audience. With our new name and updated approach to talking about our research, we are doing just that. The news-style website at Knology.org launched in 2019 is designed to publish our studies in ways that explain how professionals can put the research to work. We also publish our data openly on our own site's archive and National Science Digital Library, as well as contribute to public databases. This year, we started to see success with this approach and anticipate that there are great things to come.

Photo courtesy of PBS Newshour Student Reporting Labs

Photo courtesy of EdGE @ TERC

Making Sure Educational Games Work for Teachers

In 2019, we worked on two National Science Foundation-funded research studies focused on equipping education professionals with information to support their teaching in the classroom. Both studies were done in collaboration with the Educational Gaming Environments group at TERC, a leading organization in education research. These studies explored the use of educational games, which are a great way to teach critical thinking and problem-solving skills to learners of many ages. This research focused on Zoombinis, an educational game developed by EdGE@TERC. Specifically, we studied teaching materials and the impact of the game on student learning. We showed that incorporating Zoombinis into the classroom helped teachers broaden participation in two key ways that can be useful for game designers: First, they could personalize the difficulty of tasks for each student. Second, some of the students who excelled at playing the game had struggled in other learning contexts, highlighting the value of using different learning modalities in classrooms. See more about these findings in **our report.** The second study was a collaboration within an NSF-funded research-to-practice partnership focused on computational thinking. Based on our experience, we published **some of the key ingredients** to making partnerships between educators and researchers work well.

Embody
Embody
DEAI

Strive to integrate principles and practices of diversity, equity, access, and inclusion.

Justice has always been foundational for our organization. In 2019, Knology's staff and Board formalized this principle as a strategic goal to embody and practice diversity, equity, access, and inclusion (DEAI). To make this aspiration concrete, we developed working definitions of each DEAI component, and outlined goals for three levels of our organization: our workforce (our staff, fellows, and Board), work place (the procedures and culture within our offices), and work community (the partners and research participants we interact with). Key components of this process included recognizing and embracing the multiple identities that all people have, and acknowledging that the aspiration enshrined in the components of DEAI is a lifelong goal we must always work toward. We believe that operationalizing principles of DEAI is an ethical responsibility, one which will also strengthen our research methods and practices. As part of our commitment to transparency, we published our goal and definitions on our website.

Read more at https://knology.org/ethics.

Photo courtesy of Children & Nature Network

Photo by ArkanSONO

Supporting Programs Focused on Inclusion

Historically, some career paths have been intentionally or unintentionally structured to reinforce opportunity for certain groups of people based on their privileges. In 2019, we studied efforts to help students from diverse socioeconomic backgrounds–and who identify as Black, African American, and people of color–develop awareness of biomedical careers, as well as access career paths in STEM and health fields. We joined researchers at the University of Arkansas to study the impacts of a National Institutes of Health-funded **program called ArkanSONO**. In partnership with Little Rock School District, this program is testing a model for using new, portable ultrasound technology to promote biomedical health careers to diverse students so that the workforce more accurately reflects the US population. Our evaluation investigated how hands-on learning in a real-life health professional environment can have a profound and positive effect on high school students' interests and goals. We also found that learning in a socially supportive environment, as well as interactions with medical students and health professionals, are key factors in engaging students. ArkanSONO is just one project that demonstrates the connection between Knology's commitment to DEAI and real-world practice.

Strengthen
alliances

Invest in people and organizations
working toward a common good.

We have always invested in longstanding collaborations
with likeminded partners. In 2019, it became clear that what
sustains these collaborations is the focus on shared ideas
and working together for a common good. The underlying
themes of some of these alliances became the foundation
of Knology's new approach: idea-focused initiatives central
to each of our research areas. In our Biosphere work, our
longtime collaboration with the New England Aquarium
informed our **Climate Resilience** initiative. In our Media
research area, our thriving partnership with news teams
at WETA / PBS NewsHour has driven our initiative called
The New News. Our partnerships with the American
Library Association and the Association of Children's
Museums inspired our **Cultural Institutions & a Thriving
Society** initiative within our Culture research. The issues
that we and our partners work on are complex and require
input from various perspectives. Collaborating with multiple
organizations around these shared ideas ensures that
the solutions we provide are replicable with benefits for
society as a whole. Partnerships are central to our model
because we recognize that we're more powerful together.

Photo by Johanna Montoya on Unsplash

Photo by JP Valery on Unsplash

Supporting Coalition-Building

This year, we were proud to take part in the Waterfront Alliance's Resilience Taskforce. The Taskforce was conceived as a large-scale, consensus-building effort to identify key policy and investment needs to build the New York-New Jersey region's resilience to climate change. The Waterfront Alliance and their partners convened a diverse working group to do so–including residents, leaders in business, labor community and justice advocates, volunteer organizations, scientists, environmental advocates, design professionals, and policy makers. Knology supported this work by co-facilitating three planning meetings, engaging over 300 individuals. We worked with Waterfront Alliance and the Taskforce Co-Chairs to identify the goals of each gathering and develop interactive activities to advance those ideas. At each convening, we helped the Taskforce members set expectations for respectful collaboration and facilitate dialogue around setting priorities. Ultimately, the work of the Taskforce laid the groundwork for the birth of Rise to Resilience, a coalition and campaign for policy change and resilience investments.

→ **Find out more at https://rise2resilience.org**

Refine our model

Cultivate our collaborative philosophy to make our model resilient and replicable.

This year was a watershed moment for our organization. We scrutinized every component of our work, asking what we should pursue and the best ways to do it. This ambitious process resulted in a new name and a fresh approach to our work. As we became Knology, we realigned our mission, vision, and set of strategic goals; these pieces formed the backbone of our planning for what the organization should look like moving forward. We conceived of two new research areas–Behaviors and Systems–which conceptualize a spectrum ranging from individual actions to societal structures. These research areas have given us a new framework for pursuing research in our original areas of Culture, Biosphere, Wellness, and Media. **Our new website** puts forward our vision for practical social science research in a web-first format, where we strive to publish details of our studies in ways that are accessible to professionals working in a variety of sectors. The Knology website also gave us the opportunity to reimagine our **data publishing** to support the National Science Digital Library–see our Archive for more information. In parallel, our team engaged in two critical internal processes: a Board development initiative and series of planning meetings focused on diversity, equity, access, and inclusion **policies and procedures.** All of these components have strengthened our ability to work toward societies thriving together with the natural systems on which we all depend.

Photo by Tom Barrett on Unsplash

Putting Research Areas to Work

The complexity of societal issues requires nuanced and rigorous study. In 2019, we launched two new research areas. **Behaviors** research focuses on repeated interactions among individuals that generate widespread social outcomes, while **Systems** research attends to sets of interrelated rules and practices that form our institutions and societal structures. Right away, we saw the power of incorporating these two lenses into Knology's work. In our National Science Foundation-funded study of STEM learning for the third wave of the Why Zoos & Aquariums Matter initiative, we investigated the role of trust in how the public thinks about and interacts with these institutions. From a Behaviors perspective, we identified new dimensions of people's trust in zoos and aquariums. From a Systems perspective, we studied how zoo and aquarium audiences overall can be organized into clusters according to dimensions of trust. Combined, this research will help zoos and aquariums understand how to better engage with their audiences in STEM learning while continuing to support their conservation agendas.

▶ **This short video describes the results of the WZAM initiative.**

Photo by Jim Strasma on Unsplash

Financial
stability

Statement of Financial Position

Year ended December 31, 2019, 2018, and 2017.

After eight years of operation, we decided to invest in Knology's future success with a full rebrand that involved updating our design, approach, and online presence.

As a major capital investment, the rebranding process was an ambitious fiscal undertaking that required an extraordinary effort on the part of our Board and staff. External factors also played a role in the challenges we faced–a United States government shutdown temporarily affected our project work and grant application cycles.

Our previous financial planning provided a solid foundation to both support the rebrand initiative and weather volatility in funding sources that are typically steady. We closed the year with modest growth, a positive cash balance and a secured operations budget for 2020. These achievements will enable us to navigate disruptions in the economy to come. As a result, we are proud that in 2019, we remained financially stable and our auditors, PKF O'Connor Davies, once again issued an unmodified opinion.

	2019	*2018*	*2017*
ASSETS			
Cash	$605,802	$112,411	$95,441
Contract service fees receivable	327,662	342,570	263,668
Prepaid expenses	1,885	7,557	11,240
Security deposit	24,670	24,670	24,375
Furniture, equipment & leasehold improvement	37,419	25,823	29,677
	$997,438	**$513,031**	**$424,401**
LIABILITIES AND NET ASSETS			
Liabilities Accounts payable and accrued expenses	$121,898	$86,879	$93,055
Deferred rent expense	28,267	15,777	——
Loan payable		——	——
Unearned revenue	494,454	31,500	——
Total Liabilities	644,619	$134,156	$93,055
Net Assets Unrestricted	352,819	$378,875	$331,346
	$997,438	**$513,031**	**$424,401**

Statement of Activities

Year ended December 31, 2019, 2018, and 2017.

Our stability can be attributed to our collaborative strategy for producing social science research for a better world, as well as our growing portfolio of federally funded projects.

Of the 35 organizations that we partnered with in 2019, eight were involved in multiple projects as part of long-term research and fundraising initiatives. This cooperative fundraising model broadens the stability of our funding streams, and diversifies our opportunities and the types of funders interested in supporting what we do.

Our financial management system was reviewed and approved in 2019 by the National Science Foundation in their Financial Desk Review Process. We are pleased to continue to be able to demonstrate compliance with federal guidelines for grant recipients. Our ongoing compliance was also verified through our Single Audit Process.

Distribution of functional expenses

	2019	2018	2017
REVENUE AND SUPPORT			
Contract service fees	$1,487,980	$1,439,637	$1,420,941
Contributions in-kind	64,284	3,844	53,343
Contributions	22,270	15,198	29,347
Other income	13,941	10,607	11,647
TOTAL REVENUE AND SUPPORT	**1,588,475**	**1,469,286**	**1,515,278**
EXPENSES			
Program Services	1,026,844	967,552	$ 872,730
Supporting Services			
Management and general	475,607	374,860	448,861
Fundraising	112,080	79,345	71,543
Total Supporting Services	587,687	454,205	520,404
Total Expenses	**1,614,531**	**1,421,757**	**$1,393,134**
Change in Net Assets	(26,056)	47,529	122,144
NET ASSETS			
Beginning of Year	378,875	331,346	209,202
END OF YEAR	**$352,819**	**$378,875**	**$331,346**

Statement of Cash Flows

Year ended December 31.

Our rebrand initiative would not have been possible without the contributions of multiple experts and organizations.

Design experts were critical to our success: we thank Parle Co. for logo and branding design and Thousand Stars Studio for our website and icon design.

We offer our sincere thanks to the following who provided pro bono services: Jon H. Oram and Jason Joffe at Proskauer Rose LLP, L. Danielle Toaltoan and Faith Robinson at Davis Wright Tremaine LLP, Joshua Polacheck, Alyssa Sullivan, and the team at Taproot Foundation. The time and efforts of this incredible group of professionals made our new vision for Knology sing.
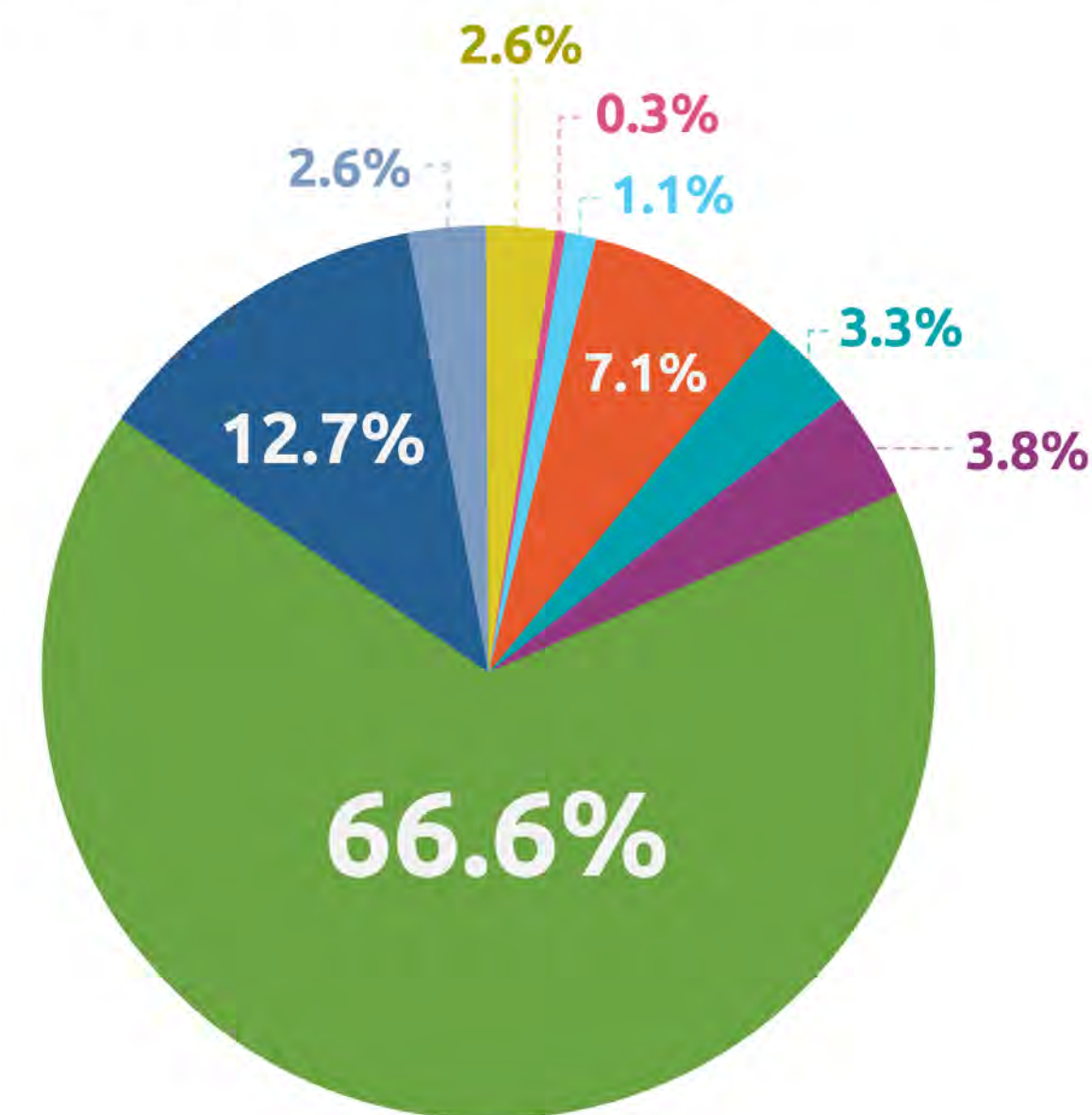
In September, we launched the Psychology & Our Planet book series, published with Springer Nature, at an official event for New York City's Climate Week. This panel discussion was also an opportunity to showcase our new name and brand. The event was made possible thanks to underwriting from Trust Practice and Risk Management Association (Trust PARMA) a national non-profit organization that supports psychology, mental health, and allied health professionals. We received additional support from Trader Joe's Soho and Essex Crossing, Whole Foods Market Tribeca, and D'Agostino Supermarkets.

In 2019, Knology benefited from the non-profit support programs offered by Google, Microsoft, Slack, and Asana. We also thank Qualtrics, our survey software provider, for their support since founding.

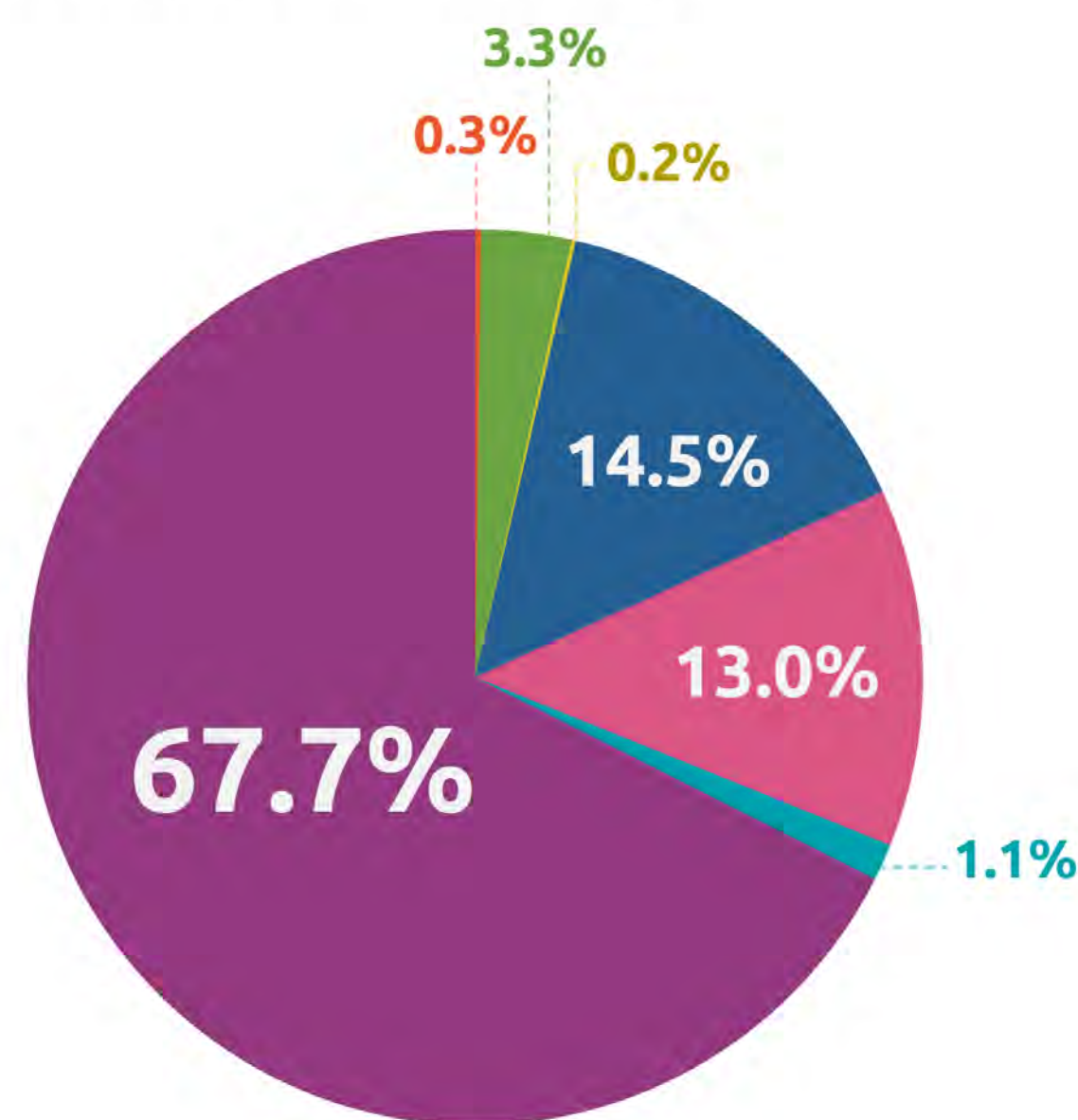## Cash flows from operating activities

	2019	2018	2017
Change in net assets	$(26,056)	$47,529	$122,144
Adjustments to reconcile change in net assets to net cash from operating activities			
Depreciation and amortization	8,235	6,906	7,215
Deferred rent	12,490	15,777	—
Changes in operating assets and liabilities			
Contract service fees receivable	14,908	(78,902)	(80,024)
Prepaid expenses	5,672	3,683	(5,277)
Security deposit	—	(295)	(9,375)
Accounts payable and accrued expenses	35,019	(6,176)	42,458
Unearned revenue	462,954	31,500	(36,021)
NET CASH FROM OPERATING ACTIVITIES	**513,222**	**20,022**	10,542

CASH FLOWS FROM INVESTING ACTIVITIES

	2019	2018	2017
Purchase of equipment	(19,831)	(3,052)	—
NET CHANGE IN CASH AND CASH EQUIVALENTS	**493,391**	**16,970**	9,767

CASH AND CASH EQUIVALENTS

	2019	2018	2017
Beginning of Year	112,411	95,441	85,674
END OF YEAR	**$605,802**	**$112,411**	$95,441

Distribution of
Functional Expenses

- 2.6%
- 2.6%
- 0.3%
- 1.1%
- 12.7%
- 7.1%
- 3.3%
- 3.8%
- 66.6%

Legend:
- Salaries & Benefits
- Insurance & Depreciation
- Subawards & Consultants
- Occupancy & Maintenance
- Travel & Conferences
- Office & Supplies
- Accounting & Audit
- Professional & IT
- Fees, Dues, Subscriptions

Distribution of
Federal Funding

- 3.3%
- 0.3%
- 0.2%
- 14.5%
- 13.0%
- 67.7%
- 1.1%

Legend:
- National Science Foundation
- Department of Education
- Department of State
- Environmental Protection Agency
- Institute of Museum & Library Services
- National Institutes of Health
- National Oceanic & Atmospheric Administration

Sources of
Revenue

- 2.3%
- 2.7%
- 22.6%
- 4.0%
- 68.5%

Legend:
- Federal
- In-Kind Donations
- NGOs & Foundations
- Charitable & Other Income
- Corportions, Universities, State & Local Gov't

2019
Knology Team

Knology staff, board members, and audience participants at the Psychology & Our Planet book series event for Climate Week in September 2019.

Staff

Nezam Ardalan, M.A., Researcher

Jena Barchas-Lichtenstein, Ph.D., Researcher

Joanna Laursen Brucker, Ed.M., Chief Operating Officer

Elizabeth Danter, Ph.D., Researcher

Joseph de la Torre Dwyer, Ph.D., Researcher

Ian Dougherty, CPA, Chief Financial Officer

Martin Feuerstein-Mendik, Intern

Shaun Field, M.A., Researcher

Kate Flinner, M.A., Manager of Communications

John Fraser, Ph.D., AIA, President & CEO

Darcey Glasser, Intern

Rupu Gupta, Ph.D., Researcher

Shivani Ishwar, Intern

Olivia Killingsworth, Finance Team

Nicole LaMarca, M.A., Researcher

Kathryn Nock, B.S., Researcher

Rebecca Norlander, Ph.D., Researcher

Tawnya Fay Switzer, M.A., Writer

Uduak Grace Thomas, M.A., Writer

Laura Tietjen, M.A., Researcher & Administrator

John Voiklis, Ph.D., Researcher

Konstantinos Voiklis, Intern

Board of Trustees

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Robert Davis, DVM, Director

Julia Mair, Director

Manoj Panjwani, Director

Greg Parets, J.D., Director

Diana Polak Ph.D. Director

Andrea Turner, J.D., Director

John Fraser, Ph.D., AIA, President & CEO (ex officio)

Research Fellows

James Danoff-Burg, Ph.D.

Jen Dixon, J.D. MLS

Ed Greene, Ph.D.

Susan Hannah

William Lynn, Ph.D.

Kin Kong, Ph.D.

Audrey Kremer, Ph.D.

Kris Morrissey, Ph.D.

Brian J. Plankis, Ed.D

Christina Shane-Simpson, M.A., Ph.D.

Beverly K. Sheppard, M.A.

Shelley Stern, LCSW, Ed.M.

2019
Publications

Peer-Reviewed Publications

Gupta, R., Fraser, J., Rank, S.J., Brucker, J.L. & Flinner, K. (2019). Multi-Site Case Studies About Zoo and Aquarium Visitors' Perceptions of the STEM Learning Ecology, Visitor Studies. DOI: 10.1080/10645578.2019.1661737

Gupta, R. (2019). Just preservation: From vision to reality. Invited commentary in Animal Sentience 27(9). Article available at: https://animalstudiesrepository.org/animsent/vol4/iss27/9/

Fraser, J., Moussouri, T., Golding, V., & Macalik, J. (2019). Philosophy, art, and social value. Curator: The Museum Journal, 62(1), 5-6. https://doi.org/10.1111/cura.12293

Geiger, N., Gasper, K., Swim, J.K., & Fraser, J. (2019). Untangling the components of hope: Increasing pathways (not agency) explains the success of an intervention that increases educators' climate change discussions. Journal of Environmental Psychology. 66. DOI: https://doi.org/10.1016/j.jenvp.2019.101366

Publications for Professionals

NIH 098 - PBS NewsHour: Health Science Literacy

Barchas-Lichtenstein, J., LaMarca, N., Feuerstein-Mendik, M., Voiklis, J., Glasser, D. (2019). PBS Health Literacy Topline Report. NewKnowledge Publication #NIH.100.098.08. New York: New Knowledge Organization Ltd.

Barchas-Lichtenstein, J., Fraser, J., LaMarca, N., Voiklis, J., Glasser, D. & Thomas, U.G. (2019). Year 3 Evaluation Report. NewKnowledge Publication #NIH.100.098.09. New York: New Knowledge Organization Ltd.

NSF 111 - National Network for Ocean & Climate Change Interpretation

Voiklis, J., Flinner, K., Fraser, J., Thomas, U.G. (2019). 2018 NNOCCI Network Health Study Report. NewKnowledge Publication #NSF.052.111.35. New York: New Knowledge Organization Ltd.

LaMarca, N., Flinner, K., Nock, K., Gupta, R. (2019). NNOCCI 2018 Expert Level Training Pilot Program: Final Evaluation Report. NewKnowledge Publication #NSF.052.111.36. New York: New Knowledge Organization Ltd.

NIH 140 - Discover SCIENCE with Dr. Bear

Danter, E., Norlander, R.J., Field, S., Ardalan, N., Flinner, K. (2019). Discover SCIENCE with Dr. Bear: Librarian Focus Group Short Results. NewKnowledge Publication #NIH.090.140.02. New York: New Knowledge Organization Ltd.

Danter, E., Norlander, R.J., Field, S., & Ardalan, N. (2019). Appendix: Discover SCIENCE with Dr. Bear: Librarian Focus Group Short Results. NewKnowledge Publication #NIH.090.140.02-A. New York: New Knowledge Organization Ltd.

Field, S., Norlander, R.J., Danter, E., Ardalan, N., Flinner, K, Nock, K. de la Torre Dwyer, J. (2019). Discover SCIENCE with Dr. Bear: Health Educator Survey Results. NewKnowledge Publication #NIH.090.140.03. New York: New Knowledge Organization Ltd.

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Norlander, R.J., Ardalan, N., Danter, E., Field, S., Thomas, U. (2019). Discover SCIENCE with Dr. Bear - Year 2 Evaluation Report: Library-Based Programs. NewKnowledge Publication #NIH.090.140.04. New York: New Knowledge Organization Ltd.

Norlander, R.J., Nock, K., Field, S., Ardalan, N., LaMarca, N., Flinner, K., Barchas-Lichtenstein, J. (2019). Discover SCIENCE with Dr. Bear®: Year 2 Evaluation of Dr. Bear®'s Cubs Summer Science Experience. NewKnowledge Publication #NIH.090.140.05. New York: New Knowledge Organization Ltd.

NSF 145 - SportsLab:2020

Barchas-Lichtenstein, J., Shane-Simpson, C., Flinner, K., Ardalan, N., Brucker, J.L., Fraser, J., Field, S.,Roberts, S-J., & Nock, K. (2019). Final Evaluation Report: SportsLab:2020. NewKnowledge Publication #NSF.051.145.04. New York: New Knowledge Organization Ltd.

Barchas-Lichtenstein, J., Nock, K., Ardalan, N., Voiklis, J., Brucker, J.L., and Flinner, K. (2019). SportsLab: Evaluation for Funding Supplement. NewKnowledge Publication #NSF.051.145.05. New York: New Knowledge Organization Ltd.

Barchas-Lichtenstein, J., Nock, K., & Voiklis, J. (2019). Appendix: SportsLab: Evaluation for Funding Supplement. NewKnowledge Publication #NSF.051.145.05-A. New York: New Knowledge Organization Ltd.

Barchas-Lichtenstein, J., Fraser, J., Voiklis, J., Field, S., de la Torre Dwyer, J., Feuerstein-Mendik, M. (2019) Topline Report: Post-Harvey Coverage. NewKnowledge Publication #NSF.100.183.07. New York: New Knowledge Organization Ltd.

NSF 183 - Experiments in Transmedia

Fraser, J., Barchas-Lichtenstein, J., Voiklis, J., Thomas, U.G., LaMarca, N., Nock, K., Flinner, K. & de la Torre Dwyer, J. (2019). Experiments in Transmedia: Studying Techniques for Increasing STEM Content Acquisition by Young Adults: Understanding Early-Career Science News Consumers. Knology Publication #NSF.100.183.08. New York: Knology.

Fraser, J., Barchas-Lichtenstein, J., de la Torre Dwyer, J., Voiklis. J. (2019). Appendix: Experiments in Transmedia: Understanding Early-Career Science News Consumers. Knology Publication #NSF.100.183.08-A. New York: Knology.

NSF 184 - STEM Matters: Investigating the Confluence of Visitor and Institutional Agendas (WZAM3)

Gupta, R., Voiklis, J., Rank, S., de la Torre Dwyer, J., Fraser, J., & Flinner, K. (2019). STEM Learning Ecology: Survey Results. NewKnowledge Publication #NSF.022.184.07. New York: New Knowledge Organization Ltd.

Field, S., de la Torre Dwyer, J., Gupta, R., Voiklis, J., Fraser, J., Flinner, K., Nock, K., Barchas-Lichtenstein, J., & Rank, S.J. (2019). Public Discourse about Zoos & Aquariums: Crowdsourced Survey Results. Knology Publication #NSF.022.184.08. New York: Knology.

Voiklis, J., Field, S., Gupta, R., Rank, S.J., Fraser, J., Flinner, K., Nock, K., & de la Torre Dwyer, J. (2019). Appendix: Public Discourse about Zoos & Aquariums: Crowdsourced Survey Results. Knology Publication #NSF.022.184.08-A. New York: Knology.

Rank, S.J., Voiklis, J., Fraser, J., & Flinner, K. (2019). Research Update: A Matter of Trust. Connect. p. 16.

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NSF 190 - PBS NewsHour: STEM Student Reporting Labs

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