

A Comprehensive Survey of Dashboards Past, Present, and Future



Past

Present

Future



At TCC Group, we collaborate with leaders to solve complex social problems.



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Agenda

- **Goals** of this Demonstration
- Dashboard **Past**
- Dashboard **Present**
- Dashboard **Future**
- Questions & **Wrap-up**



Goals of this Demonstration

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Expertise in the components and flavors of a dashboard and how to best leverage them

Increased confidence on how to use dashboards to address today's issues

Share what we've learned at TCC

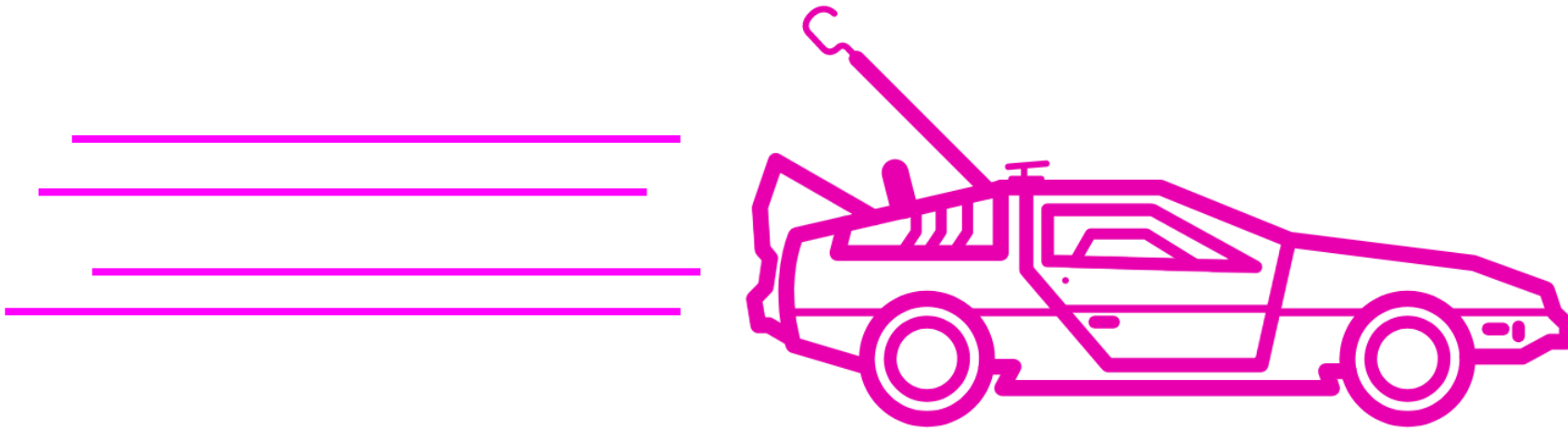
Spurred conversation on where dashboards can go in the future



Dashboards Past

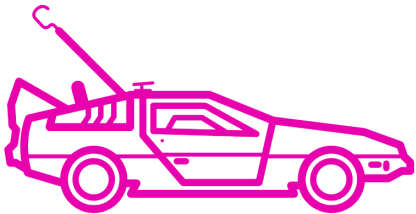
**Dashboards of the
past have brought us
to where we are now.**

**Let's use this
opportunity to honor
and learn from the past.**



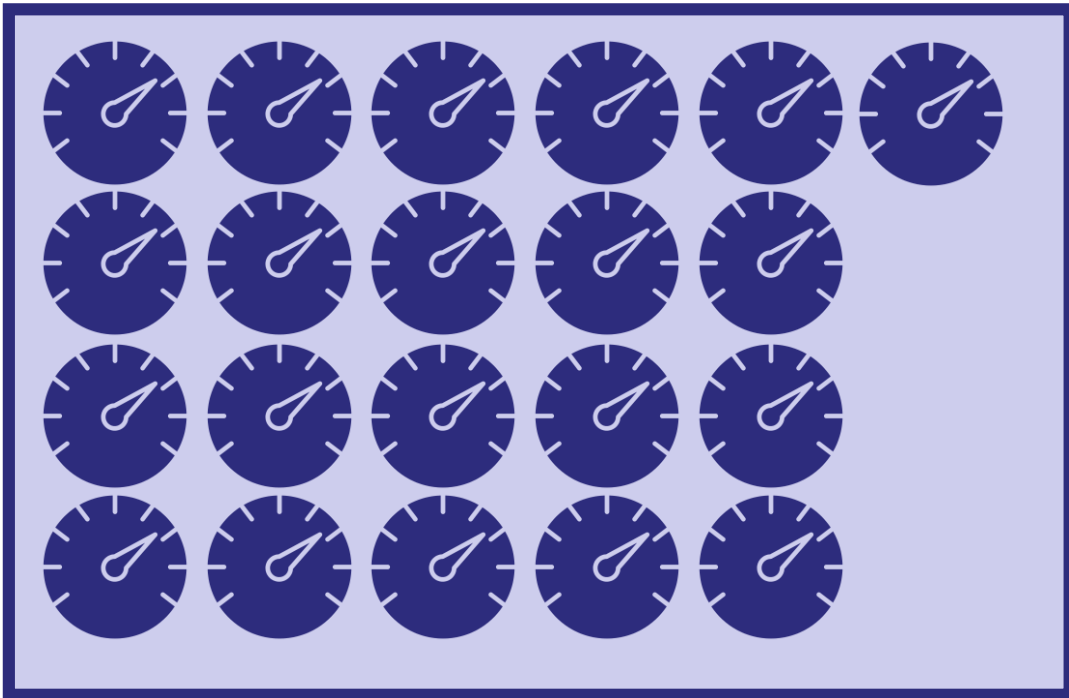
Dashboards Past

Tools	Audience	Accessibility
Mostly MS office	Diverse across role and org type Medium and high expertise	Desktop-based More cumbersome sharing
Visualization	Data Types	Focus Areas
Often relied on numbers in a table & text + additional features Ideal is simplicity	Heavy quant, some qual Usually had some manual entry component	No limits but focus on social sector



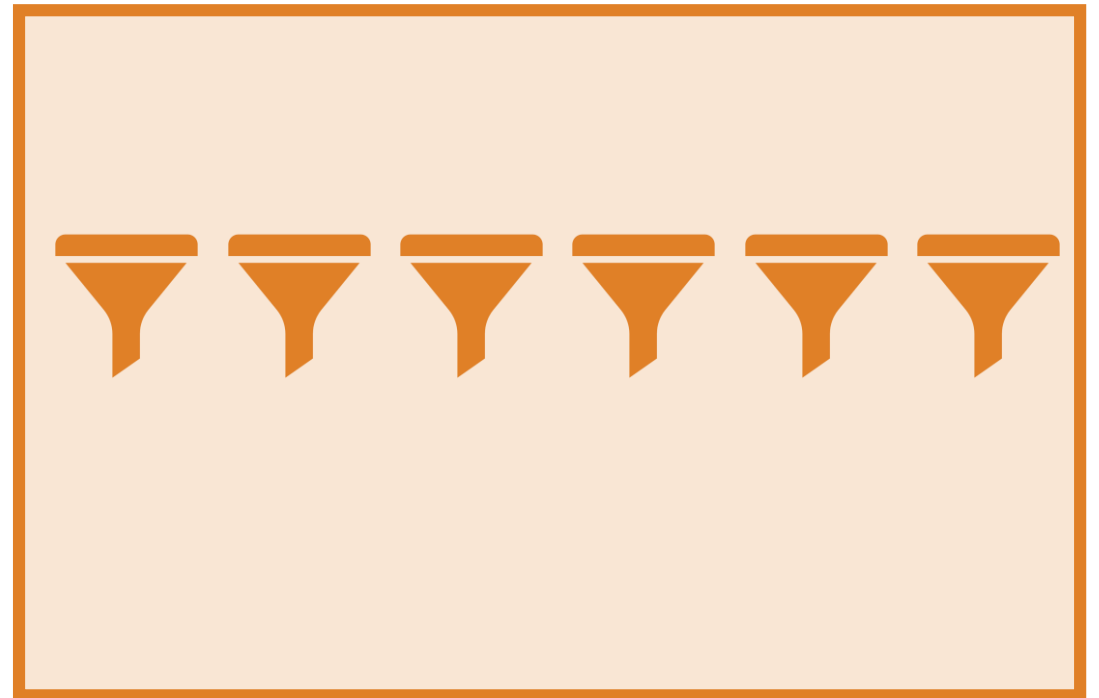
Dashboard Coding Results

21 Dashboards Coded



Either made by TCC or used by TCC clients over the years.

6 Coding Categories Used



(Audience type, Audience expertise level, Type of data, Focus area, File type, and Display format)

The Flavors of “Dashboards”



Dashboards

Visual display of data used to improve understanding of how a program or organization is running.



Scorecards

Visual display of data that is automatically summarized and tabulated to produce a score in order to assess different organizations or programs, for example.



Decision-Making Tools

Visual display of data that is often automatically tabulated to produce a score and prompt standardized decision-making.

Where things went wrong

Reporting Raw Data & Not Adding Value

Reporting only Quant Data

The Possibility of Dirty Data

TMI

Structured in a way that isn't meaningful

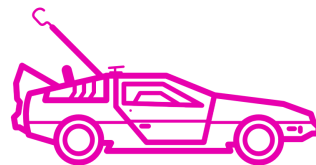
Relying on Regular Data Entry



Dashboard Present

Dashboards Present

Tools	Audience	Accessibility
Use MS Office tools with increasing use of other platforms	Seeks the most “top-line” findings Focus on metrics	Increasingly web-based, though many are restricted to more cumbersome methods
Visualization	Data Types	Focus Areas
Leveraged strategically Seeks a variety of formats Increased creativity in display, using stoplights and other methods	Increasingly automated in terms of data entry	Still – no limits





Reporting Raw Data & Not Adding Value



Auto-Calculating R-Y-G Lights

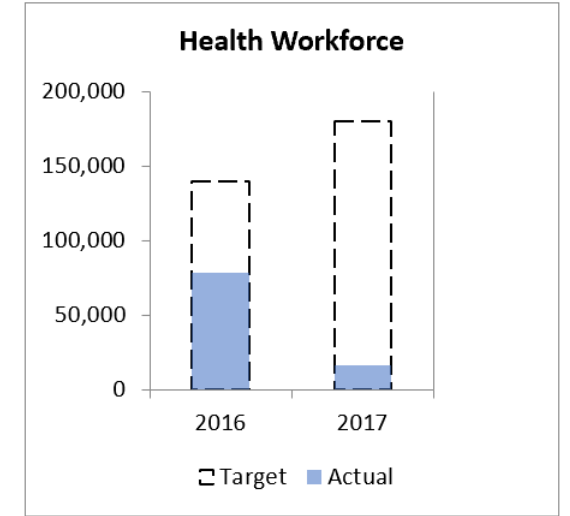
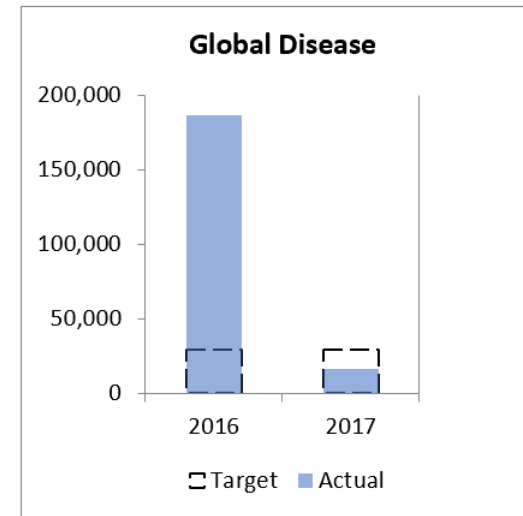
Reading Grantee Org Name	Percentage Score of Total Possible				
	General Score/ #1 Culture of Reading	#2 Parent/ Community Involvement	#3 Reading Materials	#4 Teacher Development	#5 Extended Learning
Grantee 1	● 23%				
Grantee 2	● 23%				
Grantee 3	● 32%				
Grantee 4	● 36%				
Grantee 5	● 41%				
Grantee 6	● 48%				
Grantee 7	● 51%				
Grantee 8	● 69%				
Grantee 9	● 70%				
Grantee 10	● 77%				
Grantee 11	● 81%				
Grantee 12	● 43%	● 15%			
Grantee 13	● 69%	● 43%			
Grantee 14	● 75%	● 43%			



Reporting Raw Data & Not Adding Value



Including Targets to Benchmark





Reporting only Quant Data



Providing a Space for Open-ended Contextual Data

&

Communicating the Option of Contextual Overrides

[illegible]



The Possibility of Dirty Data



Using programmed/drop-down/coded validations for data entry

on that	I have major concerns about the potential of this organization to be a successful partner organization.	Is there you w explain section
	Agree	▼
	Strongly Disagree	
	Disagree	
	Neither Agree nor Disagree	
	Agree	
	Strongly Agree	

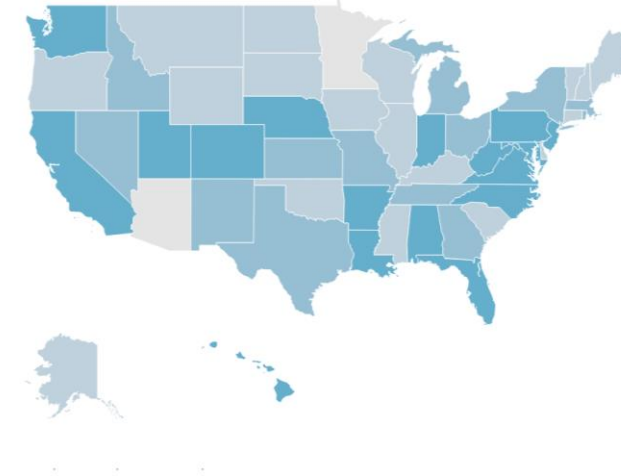


TMI



Leveraging Visuals Strategically

Action-Oriented



State	
AL	19.0
AR	22.0
CA	19.0
CO	21.0
FL	19.0
GA	18.0
HI	21.0
ID	18.0
IN	19.0
LA	22.0
MA	18.0
MD	20.0
MO	18.0
NC	21.0
NE	24.0
NJ	24.0
OH	18.0
PA	23.0
TN	18.0
UT	21.0
VA	19.0
WA	23.0
WV	25.0



Structured in a way that isn't
meaningful



Steered by
– and organized around –
a clear mission

Dashboard

Dashboard Purpose

The purpose of this Beneficiary dashboard is to allow you to understand GCI's programmatic outputs. You can see the number of beneficiaries who have received training.

By using this dashboard, you can see the number of beneficiaries who have received training, the number of beneficiaries who have received training, and the number of beneficiaries who have received training. You can also see the number of beneficiaries who have received training, the number of beneficiaries who have received training, and the number of beneficiaries who have received training. This dashboard is constantly improving itself.

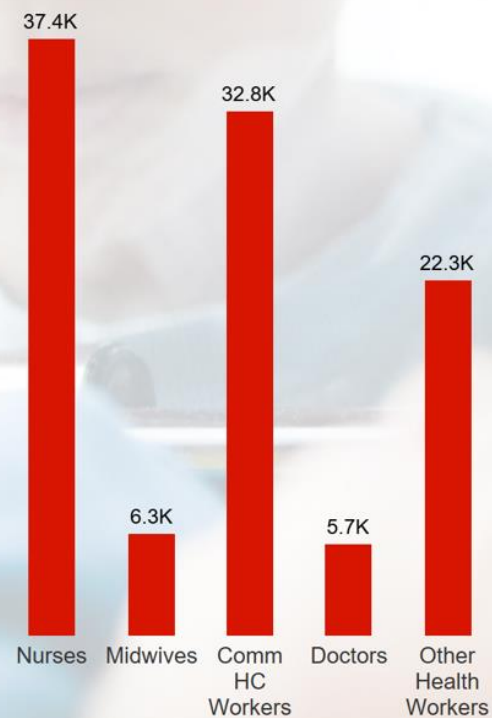
Indicators

Year

Progress towards SDGs (Total Number of Beneficiaries)



Cadre



Total Number of Beneficiaries



Total Number of Healthcare Professionals



We Deliver for...

We Add Value By...

Innovation

Execution

Partnerships

Inspiration

Our Measures of Success

Doctors

55 grants for care

15,000 women and children reached

79% projects have an alignment

59% supported projects

Communities We Work In

91 grants supported Africa
\$41M in grants made in Africa

90% of partners report it is a high-performing partner

189 non-grantee partners working directly with us

55% of employees department A

45% of employees department B

Employees

52% of employees involved in programs

201 NGOs

35% of employees department C

Shareholders

21 article mentions



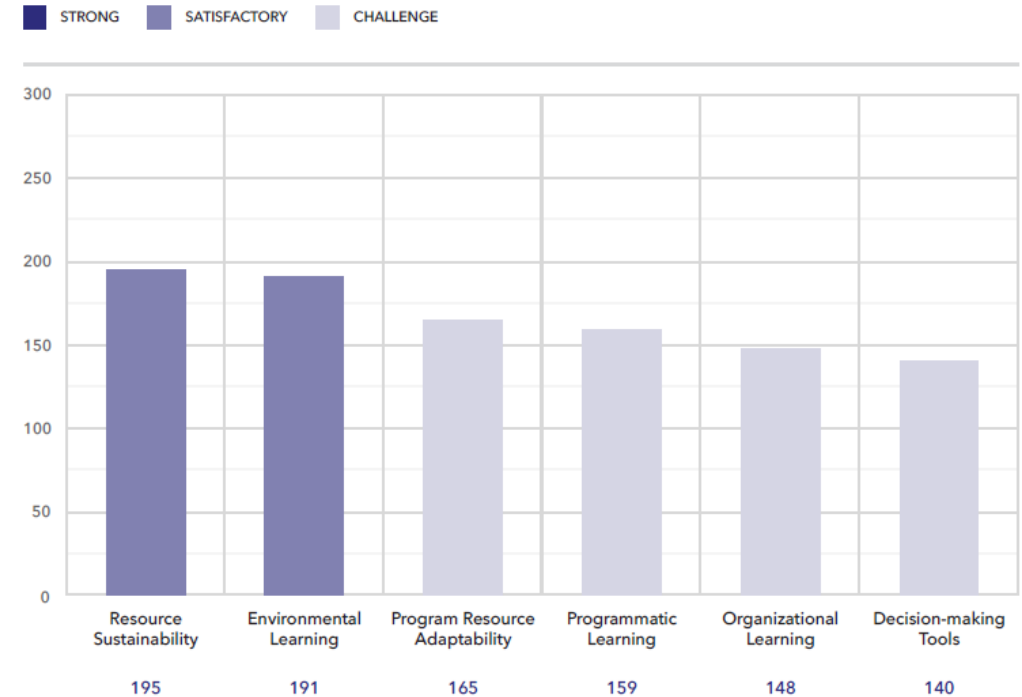
Relying on Regular Data Entry

&

Relying on those who are not bought in



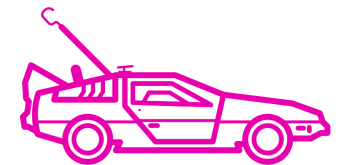
Automation and streamlining



Dashboards Future

Dashboards Future

Tools	Audience	Accessibility
MS Power BI, Tableau and open source tools are the future	Increased customization Greater consideration of expertise level	More web-based SharePoint, Sales Force Inclusive
Visualization	Data Types	Focus Areas
Wider variety More user-friendly	Full-automated data Big data	Again – no limits Blending of data analytics and evaluation



Audience and Focus Areas

Audience driving demand for **self-service tools**

Increasing customization at the organization and staff levels

Audience input

Greater use in **all sectors**, e.g. energy, workforce, healthcare, education

Mobile-network based dashboards are **reaching non-internet audiences**

Accessibility

- **Integrations** across multiple platforms
- **Inclusive** dashboards with accessibility in mind for people with a variety of disabilities, e.g. vision impairment, learning disabilities.

Data

- More **efficient** data prep/cleaning
- Increased data **connections** to secondary sources of data and big data
- Data **automation**
- Incorporation of **qualitative** data

Visualizations

- Less reliance on data tables and raw numbers
- Greater **variety** of visualizations
- Interest in **geographic/spatial** analysis

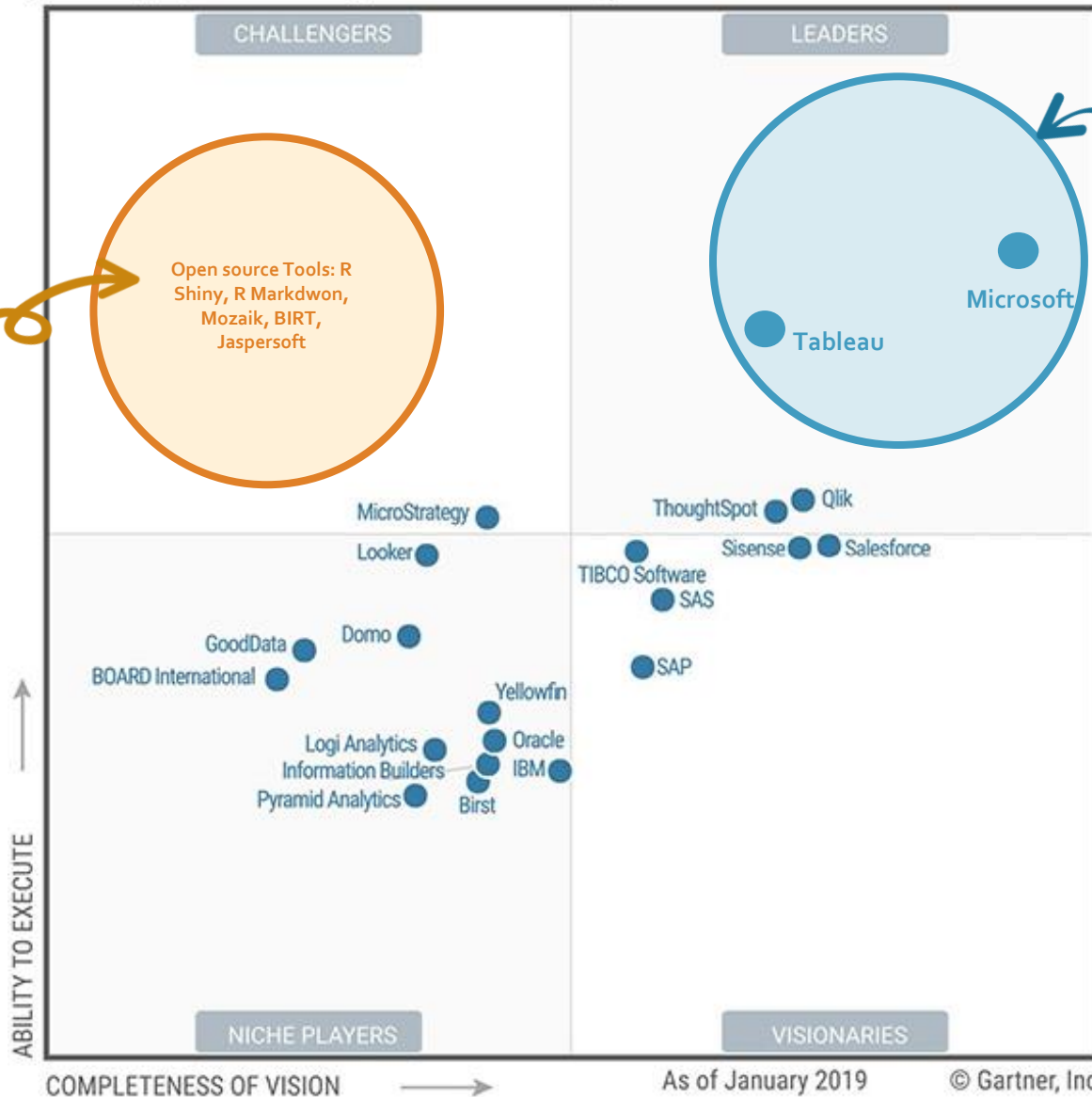
Question: Tools

Which dashboard visualization **tools** do you think will be used **most often** in the future?



Tools

Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms



Source: Gartner (February 2019)

Microsoft and Tableau are leaders because of:

Data source integrations

Data prep capabilities

Visualization capabilities

Mapping features

User-friendly

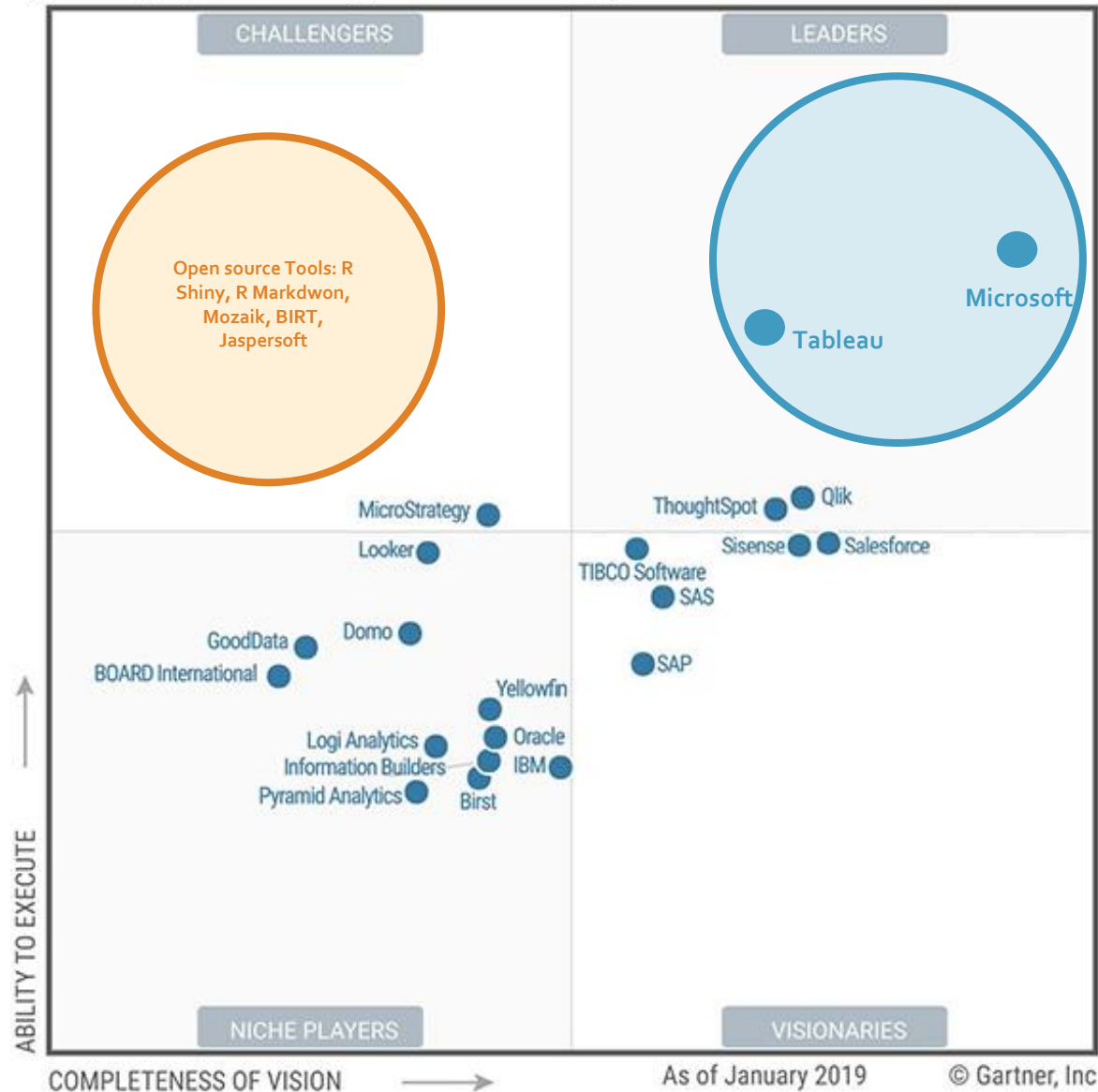
Open source tools might grow in popularity:

Increasing evaluator programming expertise

Free!

Tools

Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms



Source: Gartner (February 2019)

Why these tools will continue to be leaders in the next few years:

Relatively quick development cycle

Responsiveness to customers

Question

What is your **prognosis for dashboards** as evaluation components in the future?



Positive: Will **increase in popularity** and become widely adopted in all spheres of evaluation



Neutral: Will **maintain current popularity** with modest potential for wider adoption



Negative: Will **decrease in popularity** with fewer adoptions

Where can dashboards go in the future?

Current dashboards are popular, but are more quantitative, report-like, fairly static and often report metrics.

Future dashboards will maintain popularity but will be more qualitative, dynamic, aggregated to the indicator level and much more customized to individual needs in organizations.



Thank you!



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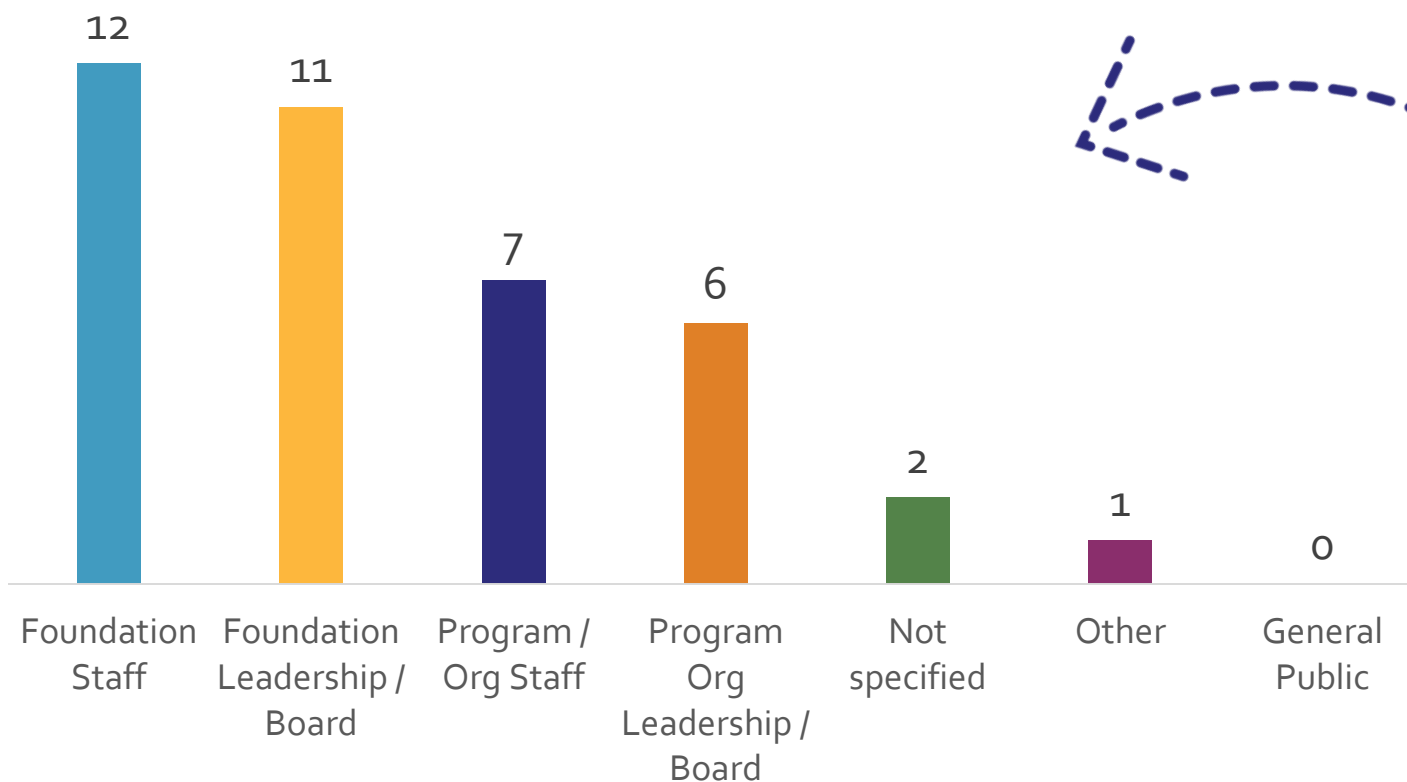
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Appendix

Audience Type

Dashboards are used by a range of staffers, often at foundations.

Our Dashboards Were Directed Towards...



Tend to be directed towards **foundations wishing to better understand how their support is working.**

Used by **both leadership and staff.**

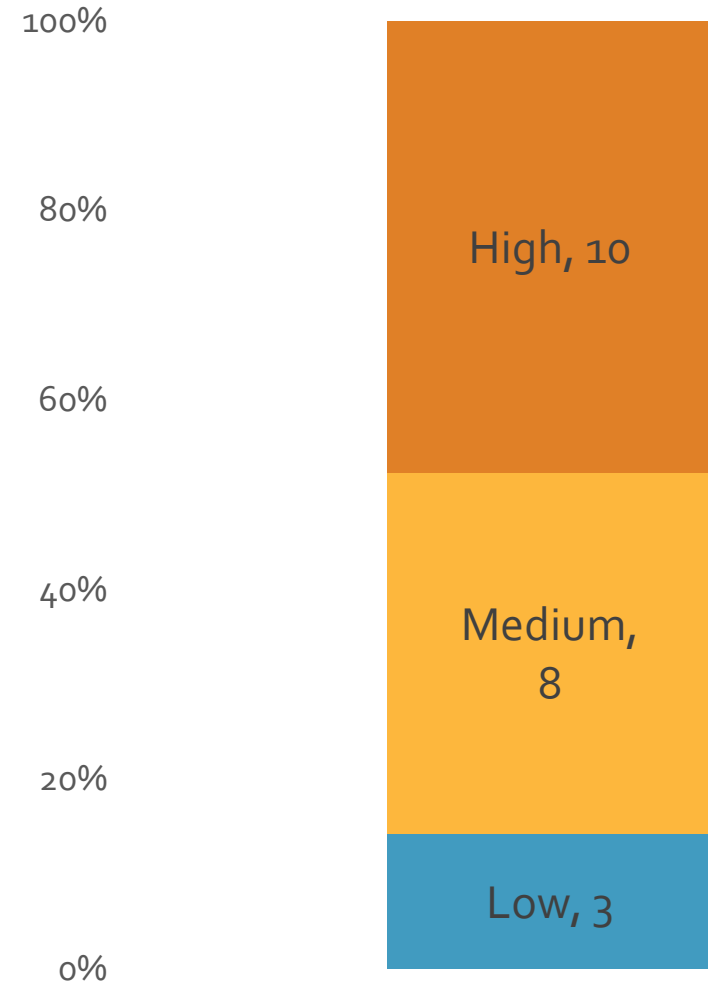
None were directed towards **general public.**

Audience Expertise Level

Tends to be complex

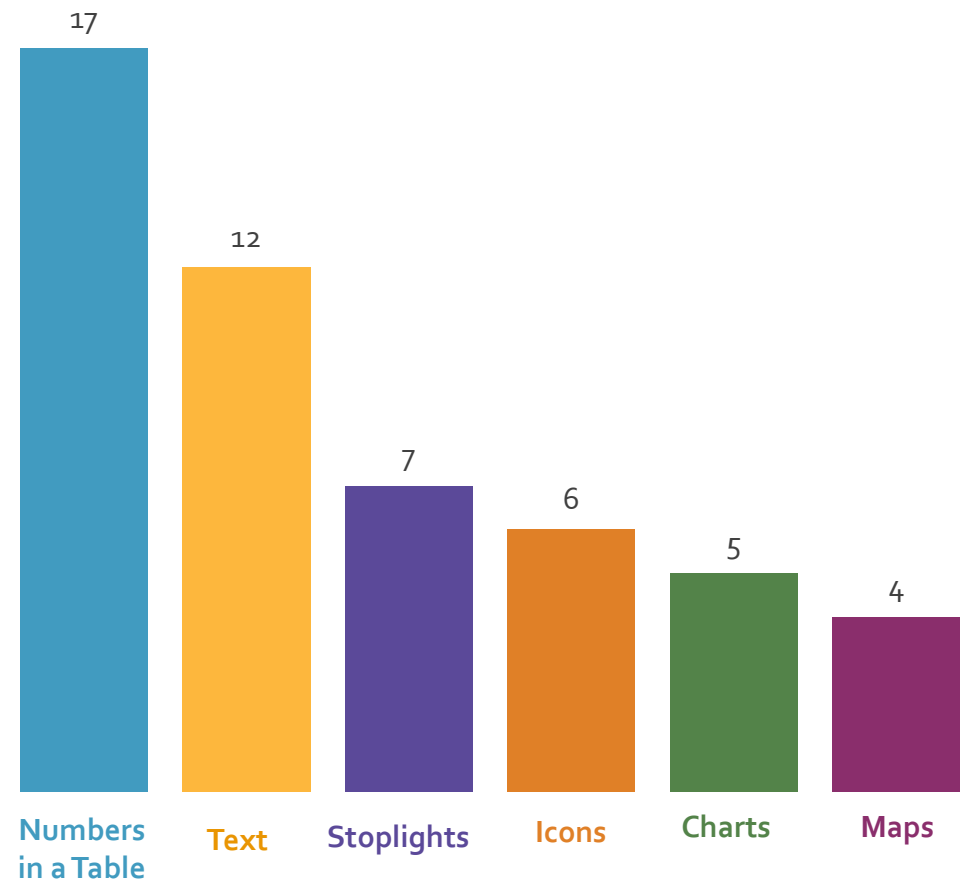
Tend to include **complex program details**, therefore it makes sense that they are written at a **somewhat high expertise level**.

Our Dashboards Had
The Following Expertise Levels



Display

Dashboards tend to include **numbers in table** and **text**.

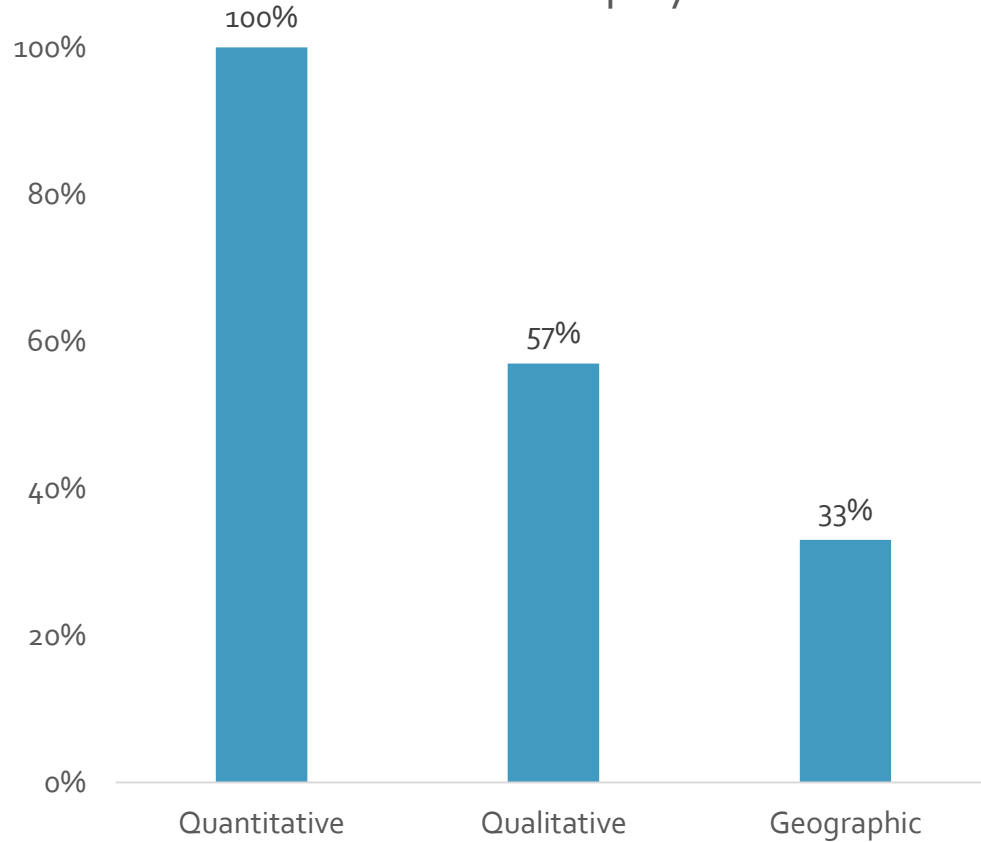


			
	Numbers in a table	Requires little work to display	Visually dry
	Text	Can add context and humanity	Requires work to compile
	Stoplights	Aid in making objective assessments	Little room for context
	Icons	Reader-friendly	Must be meaningful
	Charts	Reader-friendly	Can be overused
	Maps	Reader-friendly way to display geographic data	Takes up a lot of space

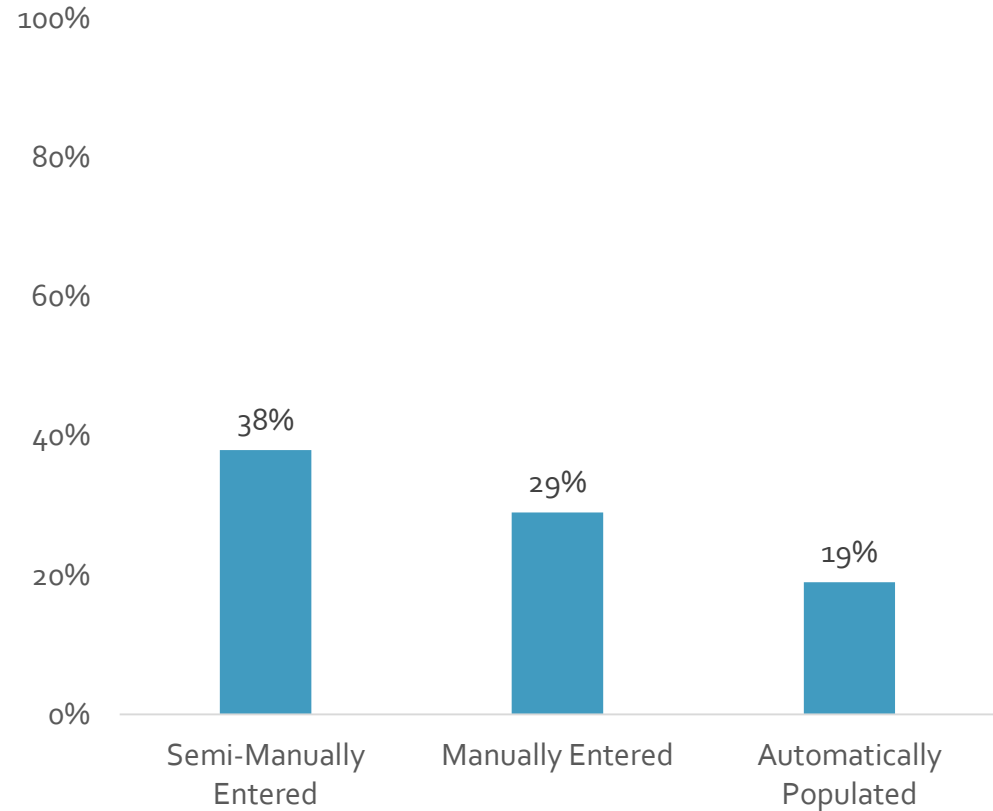
Types of Data

Always contains quantitative data and is entered a number of ways.

What Types of Data Does the Dashboard Display?



How is the Dashboard Populated with Data?



Focus Areas

Dashboards have reported out on data from a variety of focus areas.

Top Dashboard Focus Areas

Education
(38%)



Health
(24%)



International Aid
(24%)



There's
no limit
to the focus
areas that can
be reported
out in
dashboards

Other focus areas include Food/Nutrition (19%), the Arts (14%), Women & Girls (14%), Advocacy (14%), the Environment (5%), and Other (24%).