Public Engagements with Pipelines
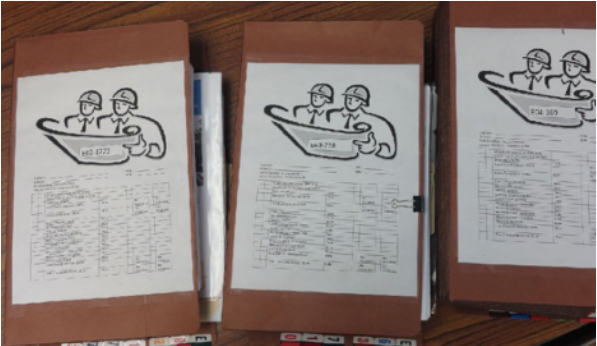
Assessing The Technical Practices of Organizations and Coalitions

Dr. Kirk Jalbert

School for the Future of Innovation in Society

Public Engagement in Pipelines

Public Engagement in Pipelines

1. How do communities and organizations develop the ability to utilize technical expertise and tools to engage with pipeline projects?

2. How do these efforts vary in their development, applications, and successes?

3. How can these efforts be scaled up and shared to afford more equitable opportunities for public participation in pipeline planning?

METHODS

Study Design: Phase 1 (2019-2020)

Focus: US midstream/transmission pipelines

287 Pipelines of initial interest
- Recently completed, under construction, approved, planned, delayed (since 2012)
- Information sourced from FERC, states, RBN Energy, NGOs
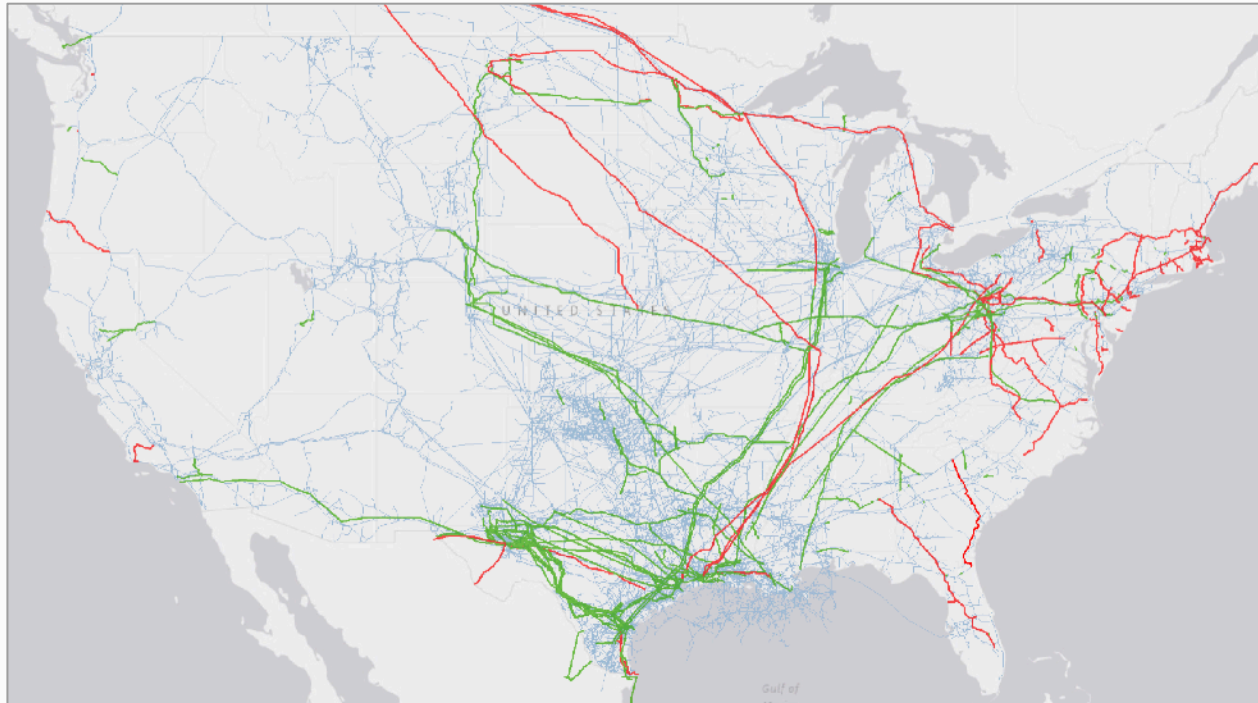
63 Pipelines in study domain
- Exhibited evidence of sustained advocacy work by groups and coalitions
- Source: news articles, web pages, social media, legal filings, known contacts
- Research process: searching (pipeline name) + "protest" "advocacy" "lawsuit" "opposition" "arrests" "public concern" "coalition" "activists" etc.
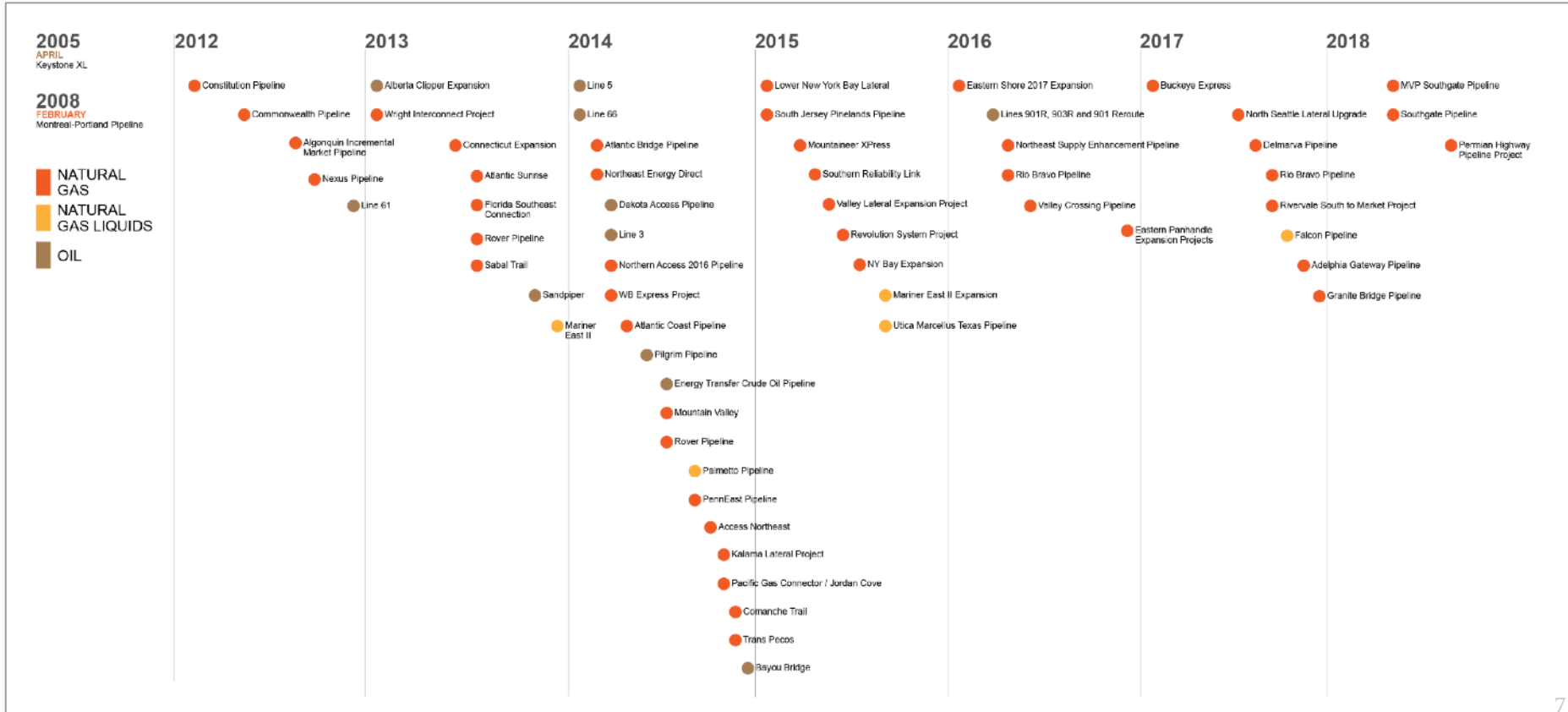
Study Design: Phase 1 (2019-2020)

287 Pipelines of initial interest (green)

63 Pipelines in study domain (red)
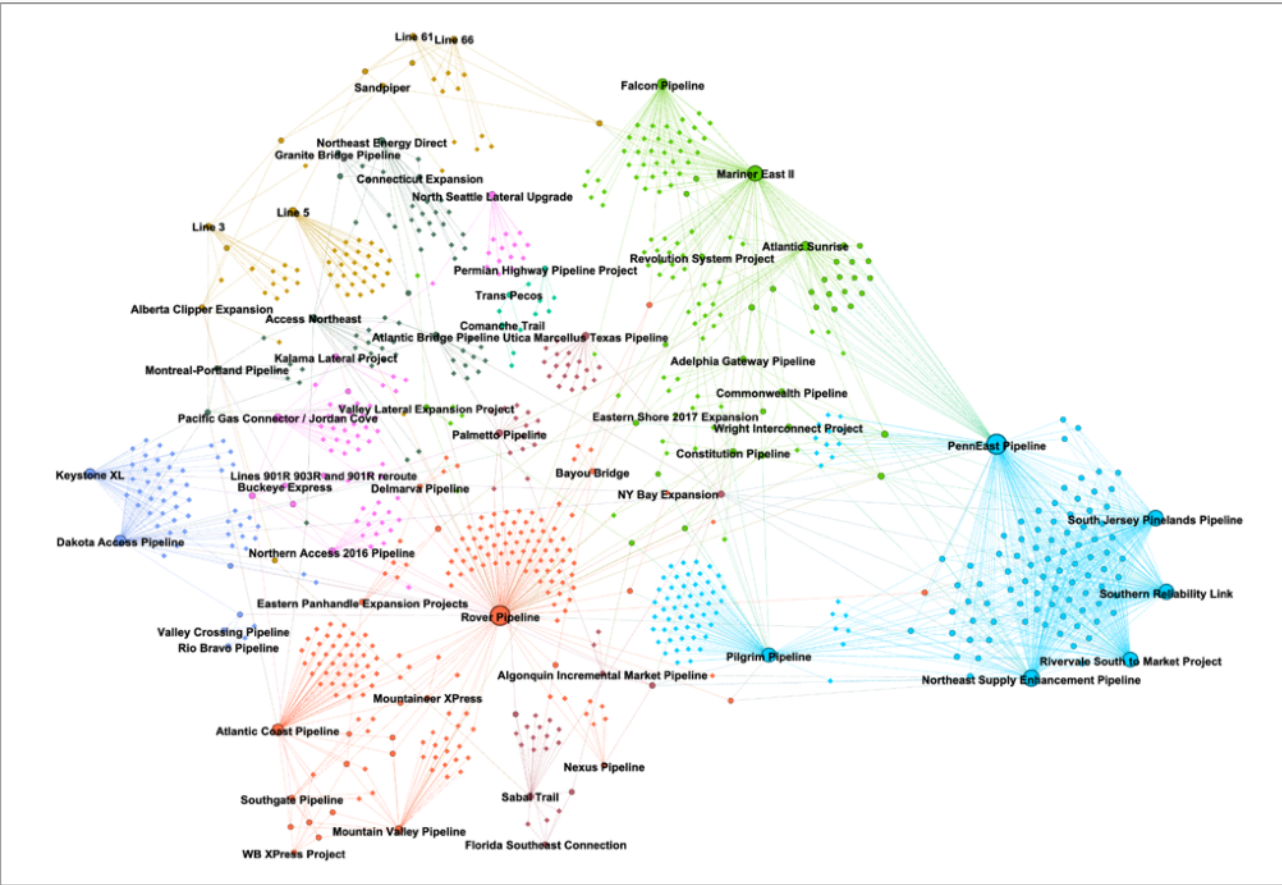
Study Design: Phase 1 (2019-2020)

2005
APRIL
Keystone XL

2008
FEBRUARY
Montreal-Portland Pipeline

■ NATURAL GAS
■ NATURAL GAS LIQUIDS
■ OIL

2012
- Constitution Pipeline
- Commonwealth Pipeline
- Algonquin Incremental Market Pipeline
- Nexus Pipeline
- Line 61

2013
- Alberta Clipper Expansion
- Wright Interconnect Project
- Connecticut Expansion
- Atlantic Sunrise
- Florida Southeast Connection
- Rover Pipeline
- Sabal Trail
- Sandpiper
- Mariner East II

2014
- Line 5
- Line 66
- Atlantic Bridge Pipeline
- Northeast Energy Direct
- Dakota Access Pipeline
- Line 3
- Northern Access 2016 Pipeline
- WB Express Project
- Atlantic Coast Pipeline
- Pilgrim Pipeline
- Energy Transfer Crude Oil Pipeline
- Mountain Valley
- Rover Pipeline
- Palmetto Pipeline
- PennEast Pipeline
- Access Northeast
- Kalama Lateral Project
- Pacific Gas Connector / Jordan Cove
- Comanche Trail
- Trans Pecos
- Bayou Bridge

2015
- Lower New York Bay Lateral
- South Jersey Pinelands Pipeline
- Mountaineer XPress
- Southern Reliability Link
- Valley Lateral Expansion Project
- Revolution System Project
- NY Bay Expansion
- Mariner East II Expansion
- Utica Marcellus Texas Pipeline

2016
- Eastern Shore 2017 Expansion
- Lines 901R, 903R and 901 Reroute
- Northeast Supply Enhancement Pipeline
- Rio Bravo Pipeline
- Valley Crossing Pipeline

2017
- Buckeye Express
- Eastern Panhandle Expansion Projects

2018
- MVP Southgate Pipeline
- Southgate Pipeline
- Permian Highway Pipeline Project
- North Seattle Lateral Upgrade
- Delmarva Pipeline
- Rio Bravo Pipeline
- Rivervale South to Market Project
- Falcon Pipeline
- Adelphia Gateway Pipeline
- Granite Bridge Pipeline

7

Study Design: Phase 1 (2019-2020)

744 organizations of interest

Sources:
- Coalition lists
- Organization sites
- Social media accounts
- News articles
- Petitions
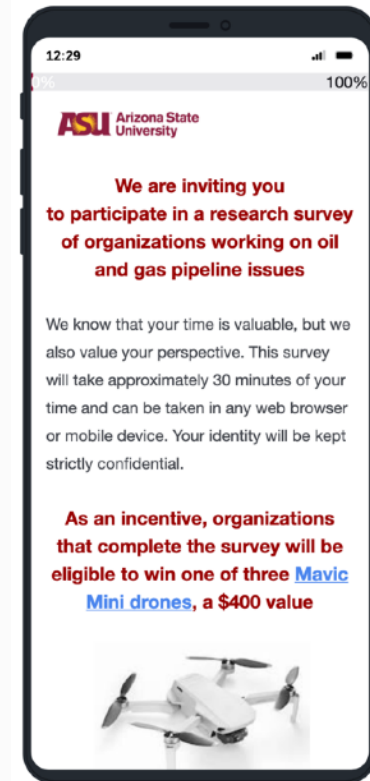- Public comments
- Legal filings
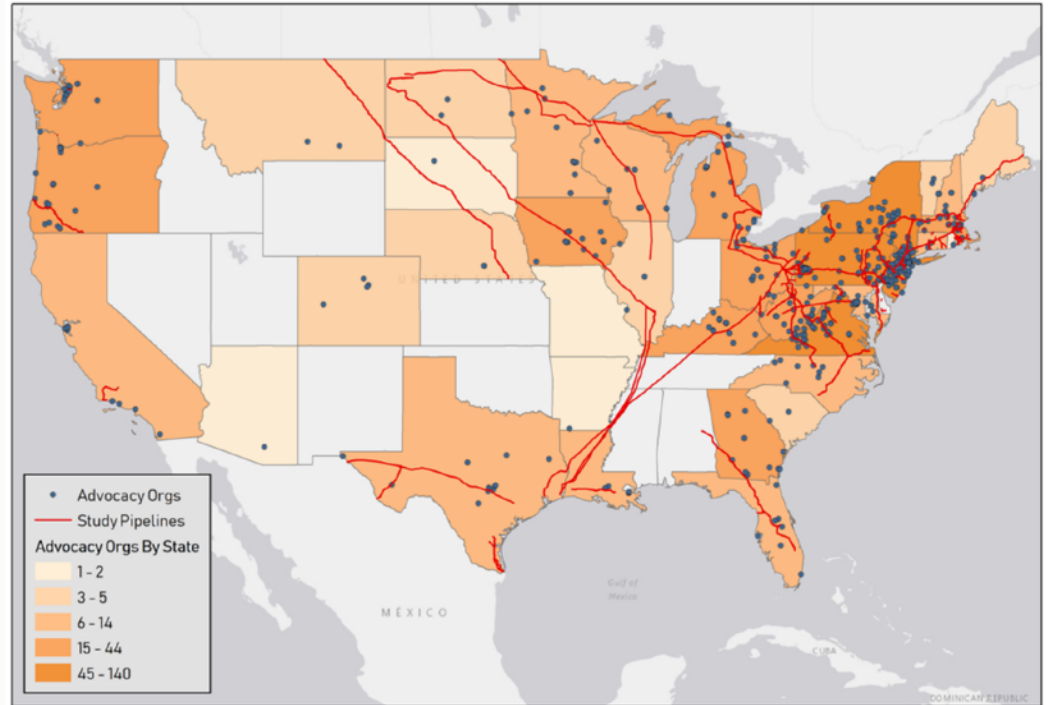
Study Design: Phase 1 (2019-2020)

Study Design: Phase 2 (2020-2021)

Online survey to determine:

1. Organizational origins
2. Demographics & resources
3. Concerns about pipelines
4. General advocacy-related activities
5. Technical expertise, practices & projects
6. Knowledge sharing and networking
7. Perceived Impacts

FINDINGS

Organizational Characteristics

States	Respondents
Pennsylvania	19
Virginia	8
New Jersey	7
New York	6
Kentucky	4
Oregon	3
Michigan	3
Iowa	2
D.C.	2
Massachusetts	2
Texas	2
Wisconsin	2
West Virginia	2
Washington	2
KY	1
Georgia	1
New Hampshire	1
Connecticut	1
West Virginia	1
Arizona	1
North Carolina	1
Ohio	1

At which of the following levels does your organization primarily conduct its work?
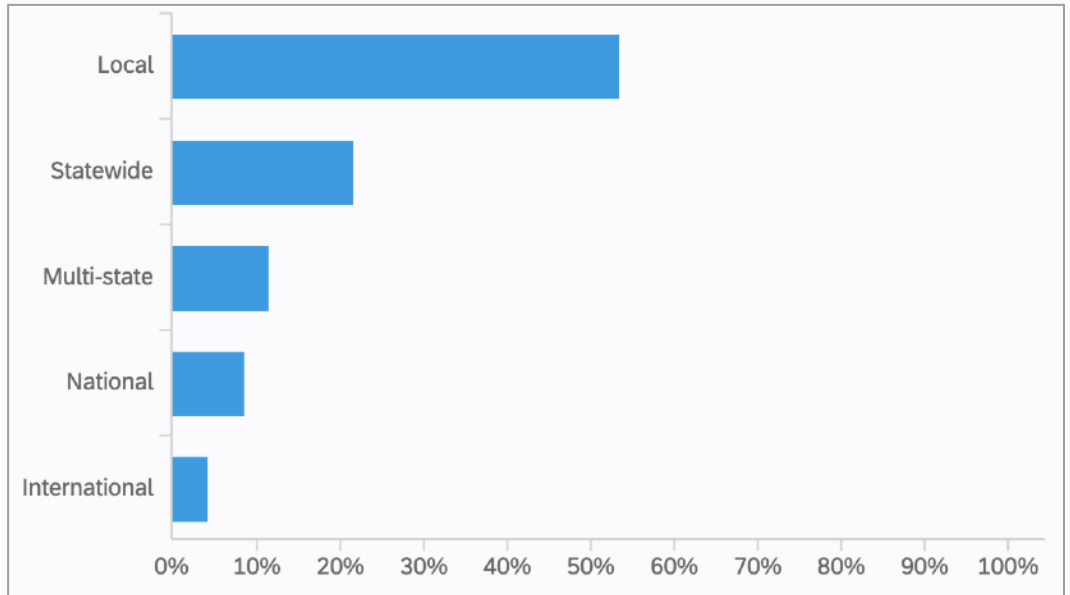
Organizational Characteristics

In what year was your organization founded?
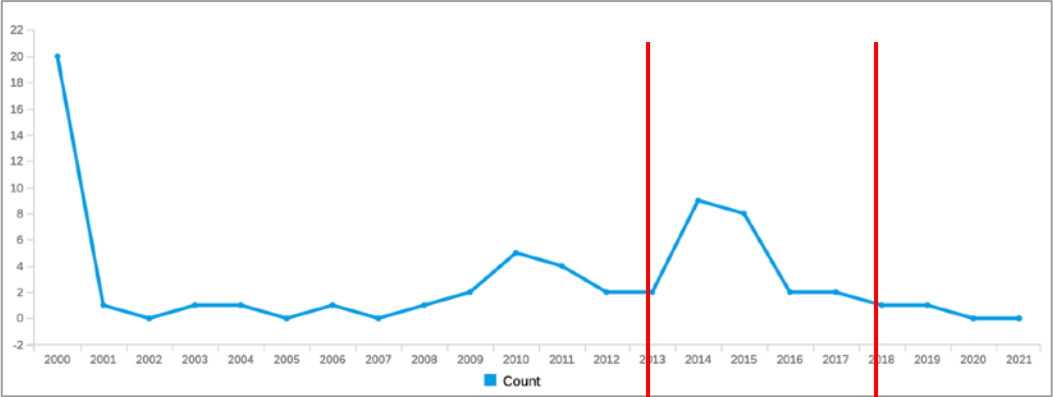
When did your organization first become involved in pipeline-related work?
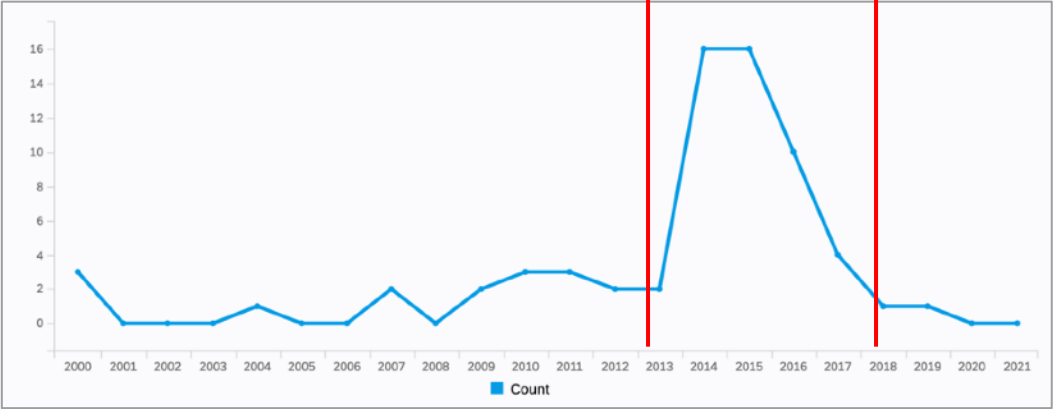
CONCERNS ABOUT PIPELINES

Concerns about pipelines: types

What types of pipelines are of most concern to your organization? (select all)

Gathering — 13%
Transmission — 52%
Distribution — 25%
All — 10%
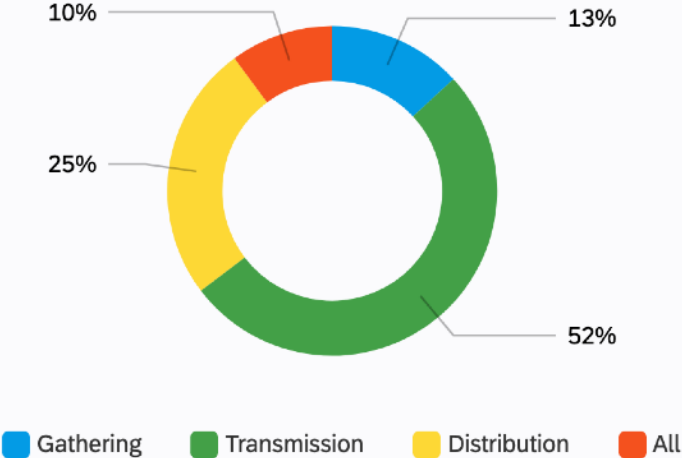
Pipeline	Respondents
Mountain Valley	14
Mariner East	14
Atlantic Coast	11
Keystone XL	10
Dakota Access	8
Enbridge Line 3	7
PennEast	6
Shell Falcon	6
Enbridge Line 5	5
Pacific Connector (Jordan Cove LNG)	4
Algonquin Incremental Market (AIM)	4
Rover	4

Concerns about pipelines: topics

What pipeline-related <u>social issues</u> are especially important to your organization?
(select all)

Topic	Percentage
Public health	84%
Environmental justice	81%
Public participation	78%
Eminent domain	73%
Effective regulatory oversight	73%
Land uses restricts	64%
Impact to property values	55%
Industrial nuisances	49%
Pipeline worker safety	25%
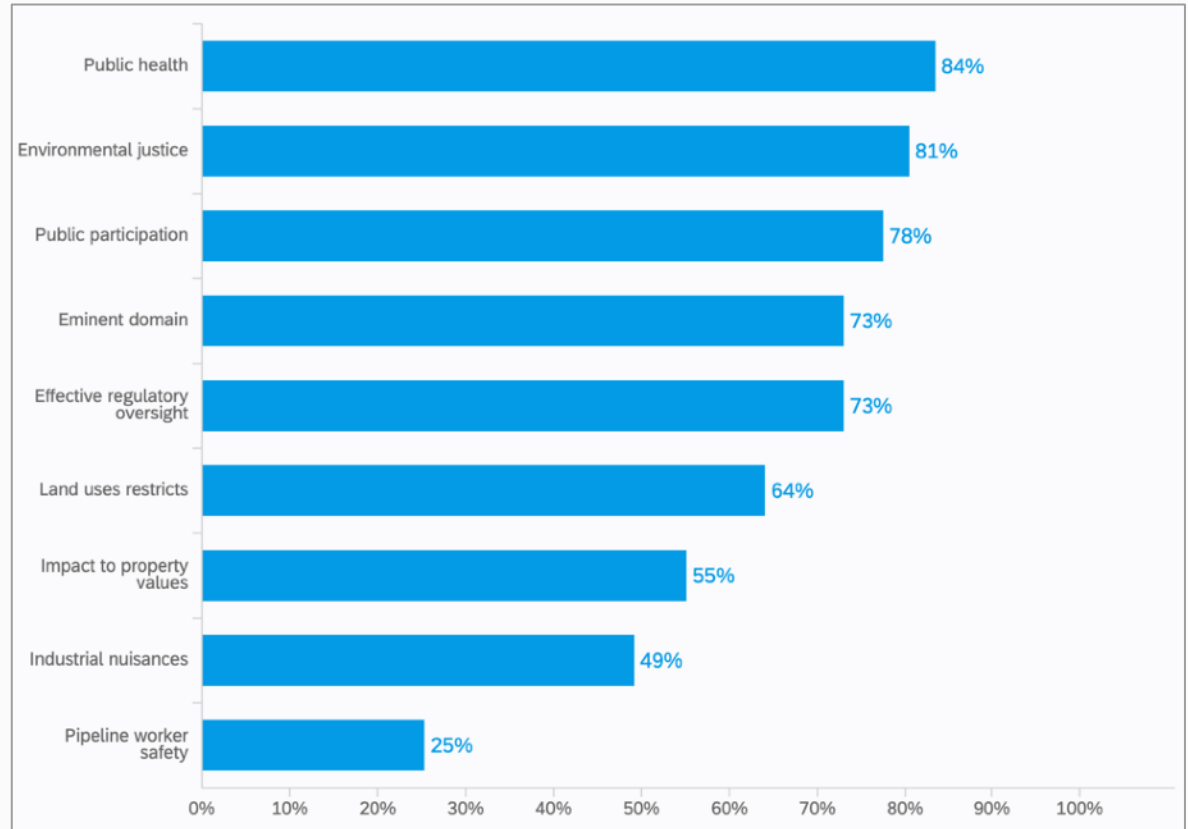
Concerns about pipelines: topics

What pipeline-related
<u>environmental issues</u> are
especially important to
your organization?
(select all)
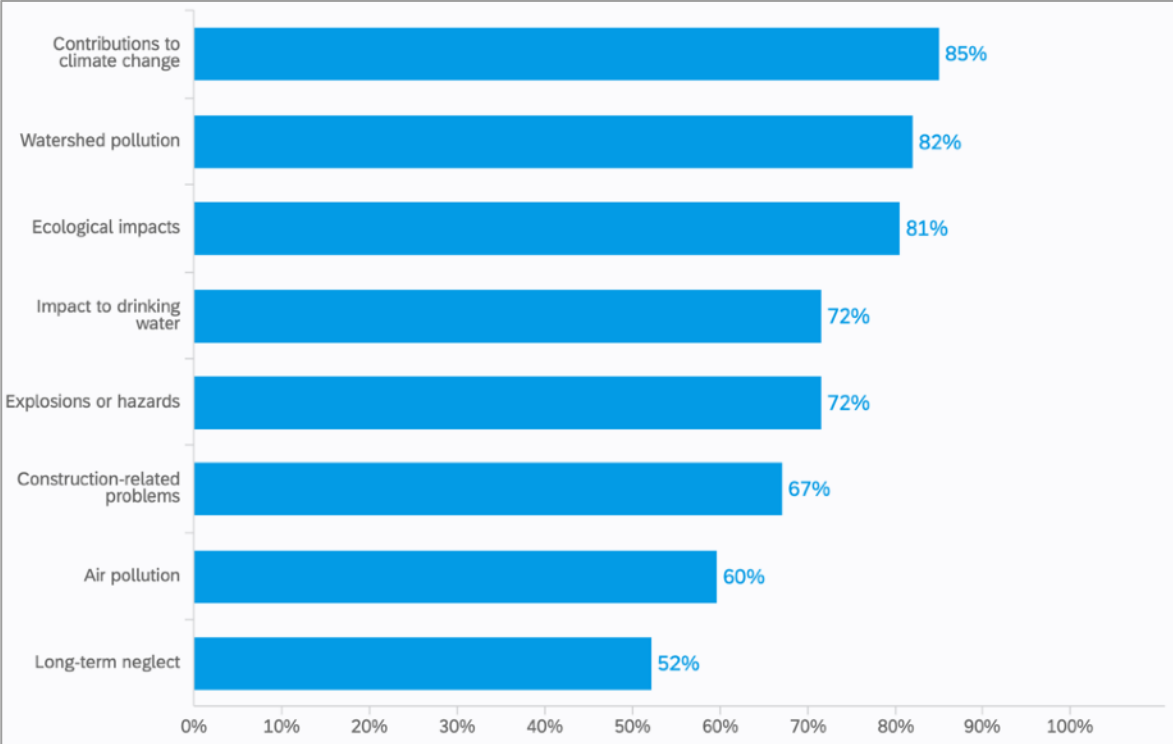
Topic	Percentage
Contributions to climate change	85%
Watershed pollution	82%
Ecological impacts	81%
Impact to drinking water	72%
Explosions or hazards	72%
Construction-related problems	67%
Air pollution	60%
Long-term neglect	52%

Concerns about pipelines: actions

To what extent does your organization <u>participate</u> in any of the following?
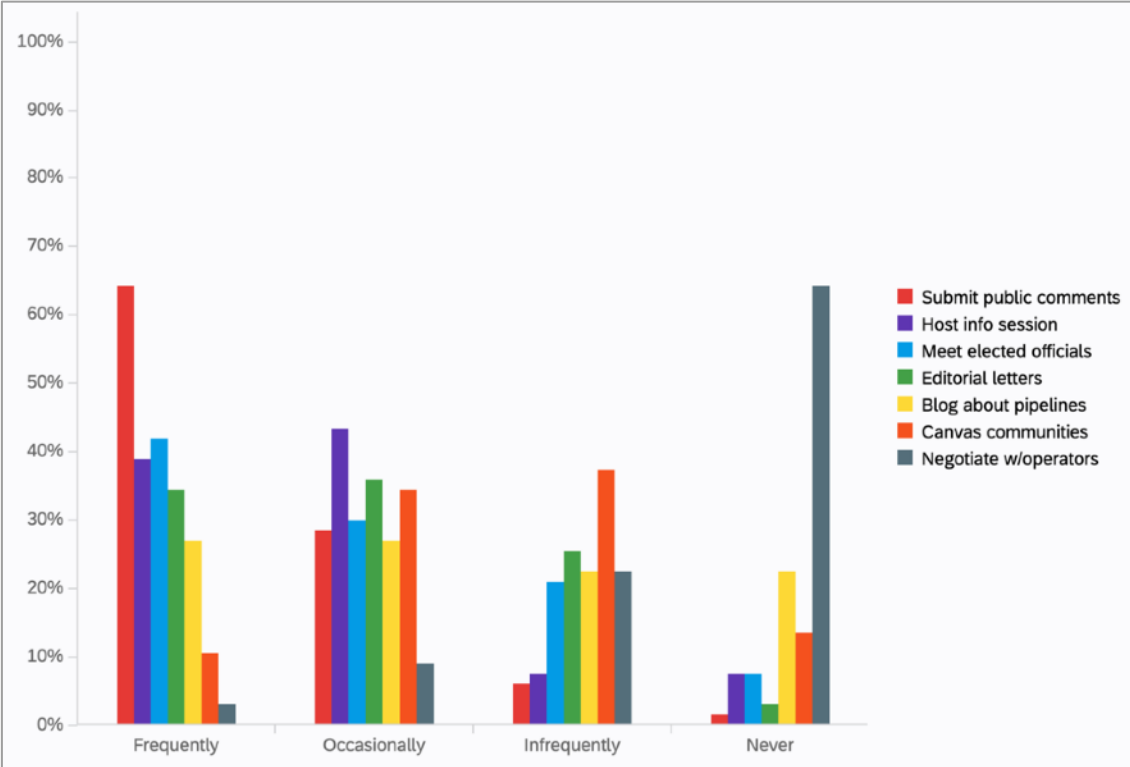
Concerns about pipelines: actions

To what extent does your organization <u>attend</u> any of the following?
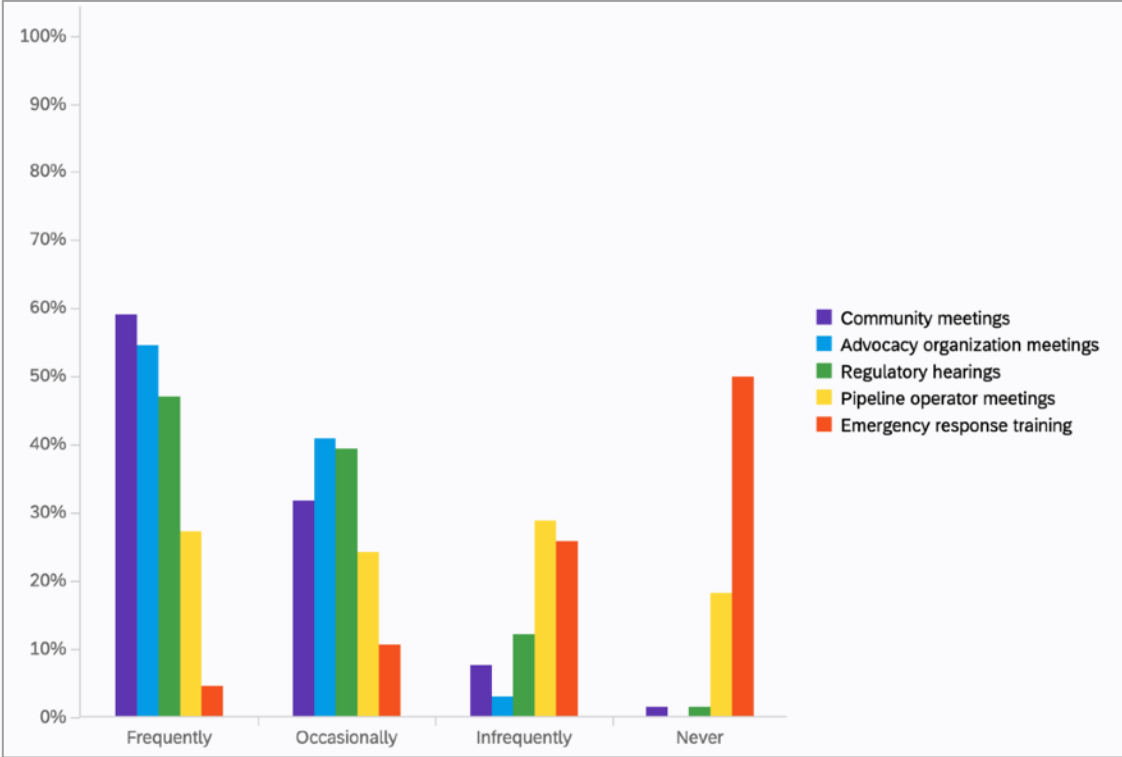
Concerns about pipelines: actions

To what extent does your organization <u>participate</u> in any of the following?
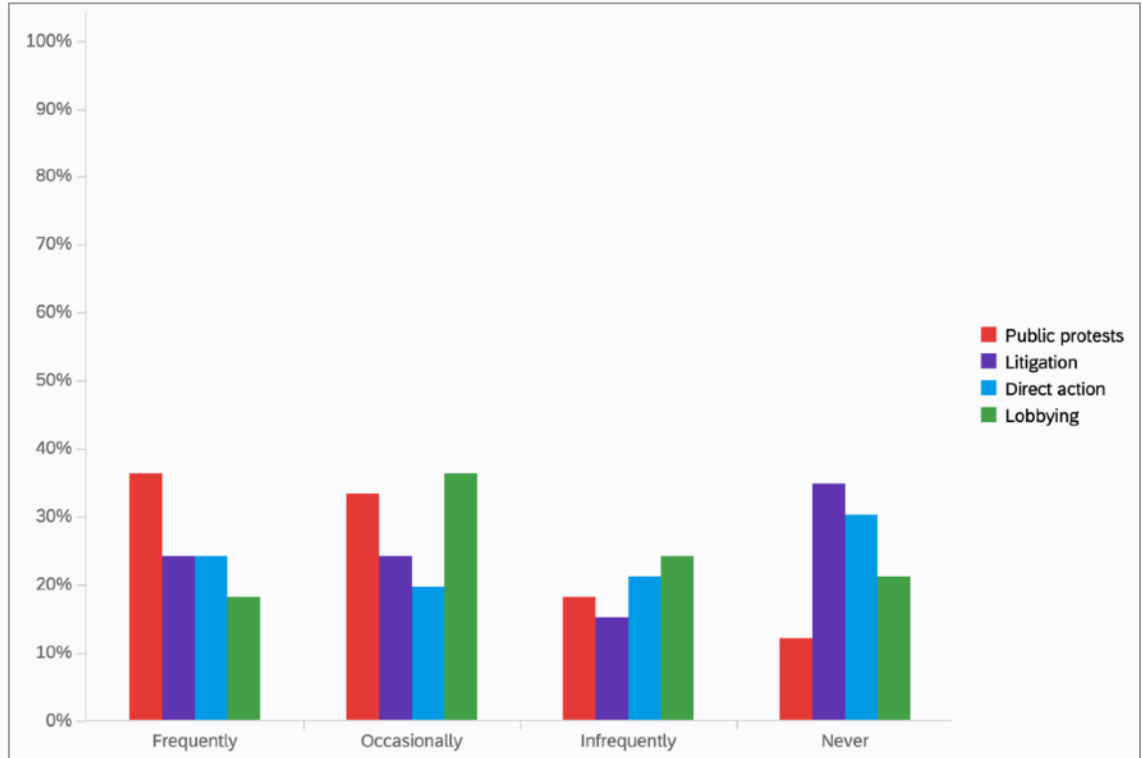
Concerns about pipelines: actions

Which of the following statements characterizes your relationship with levels of government?
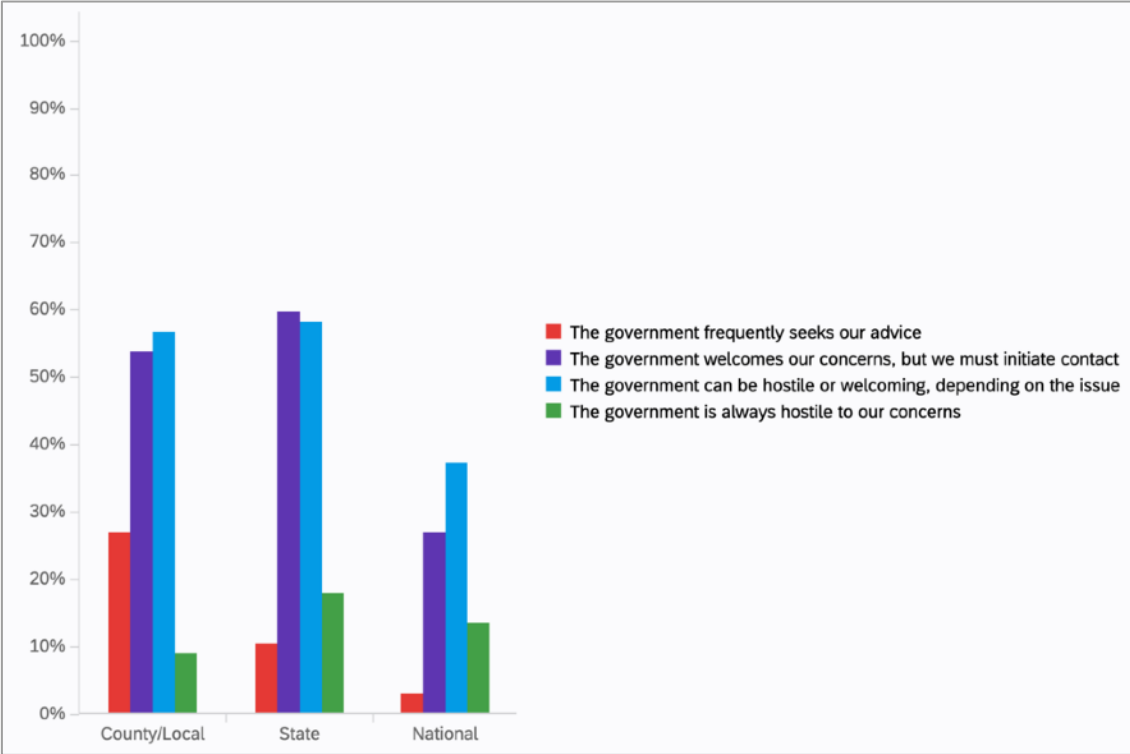
TECHNICAL PRACTICES

Technical practices: information sources

Where does your organization get <u>general information</u> about pipelines?
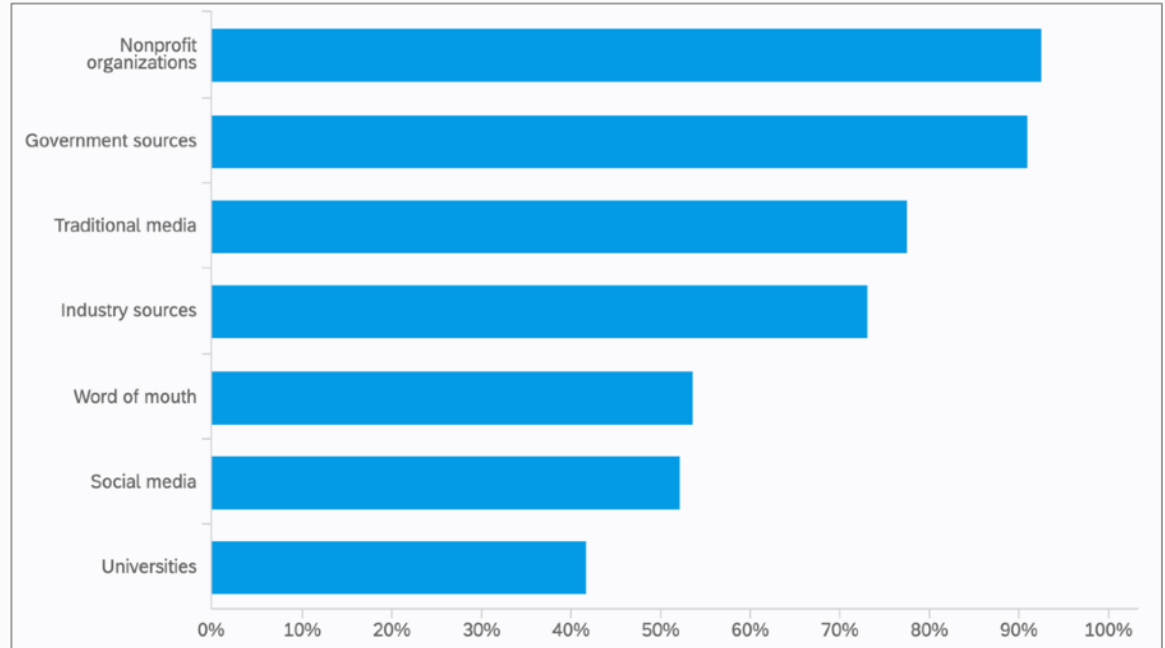
Technical practices: information sources

From what sources does your organization obtain <u>technical information</u> related to pipelines?
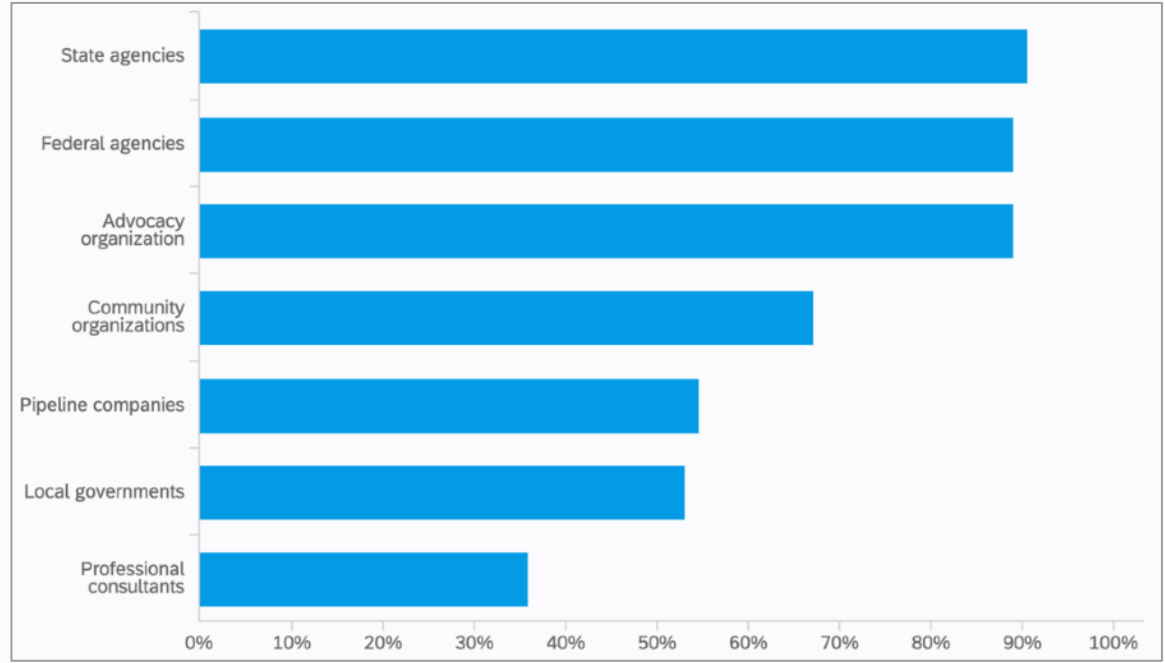
Technical practices: information sources

When searching for technical information, <u>what topics</u> does this information pertain to?

Technical practices: information sources

Technical practices: producing & using information

Related to which of the
following has your
organization ever <u>utilized
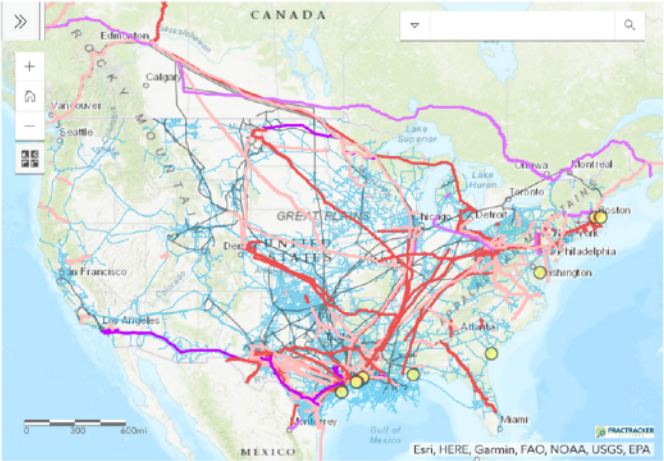or produced maps</u>?
(select all)
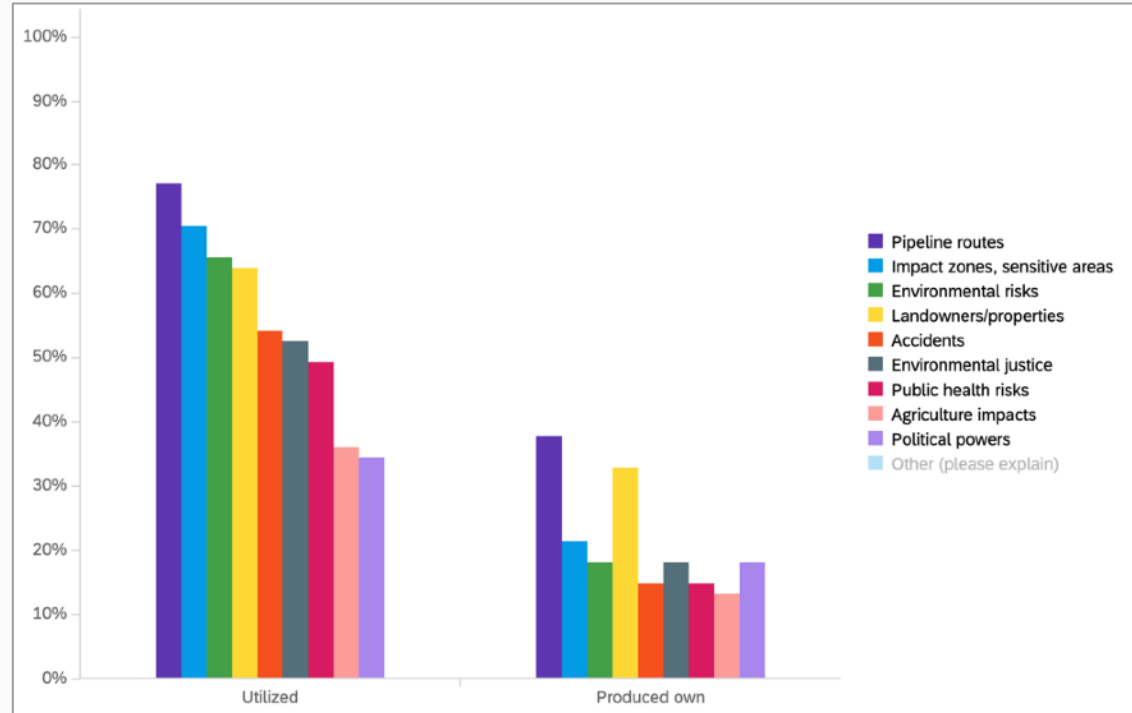
Technical practices: mapping

Technical practices: producing & using information

Related to which of the following has your organization ever <u>utilized or produced tools</u> to monitor a pipeline? (select all)
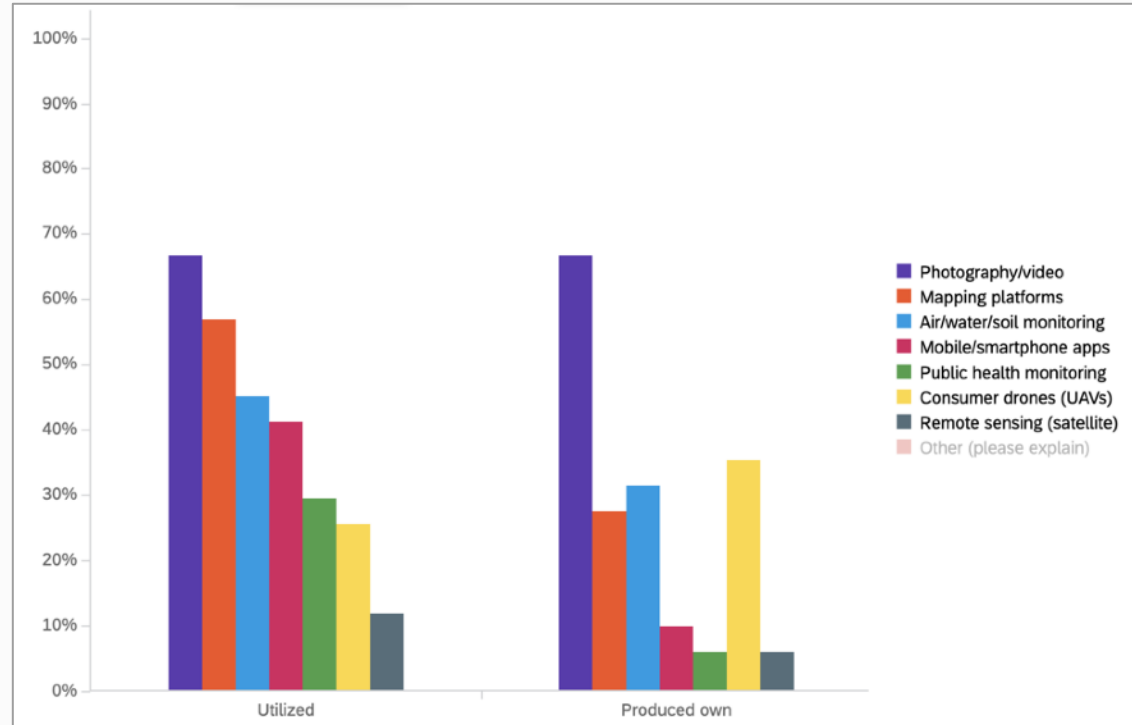
Technical practices: producing & using information

When creating educational resources for the public, <u>what topics</u> do they cover? (select all)
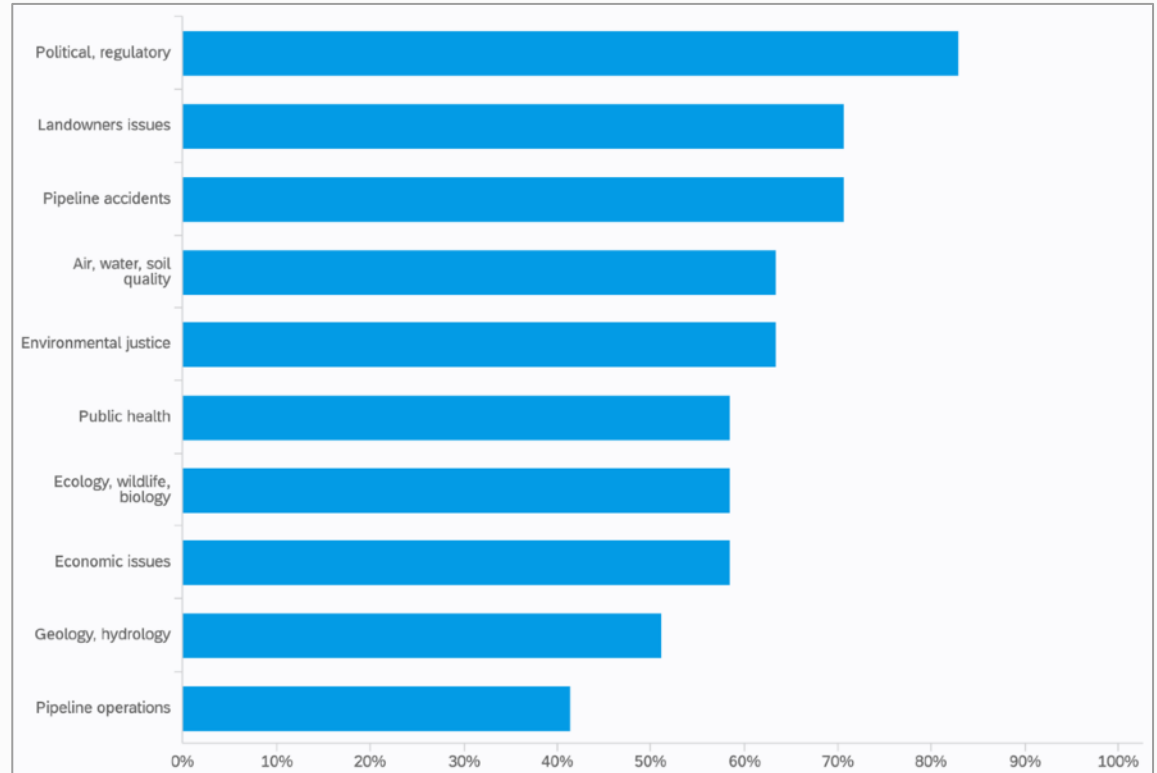
Technical practices: producing & using information

How do you <u>communicate</u> information to the public? (select all)

Technical practices: producing & using information
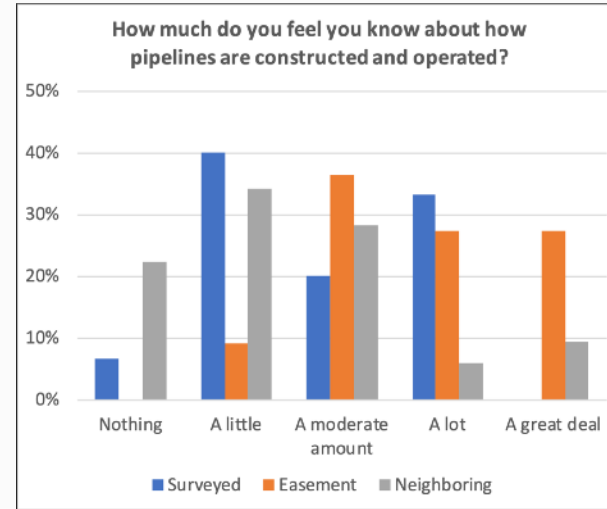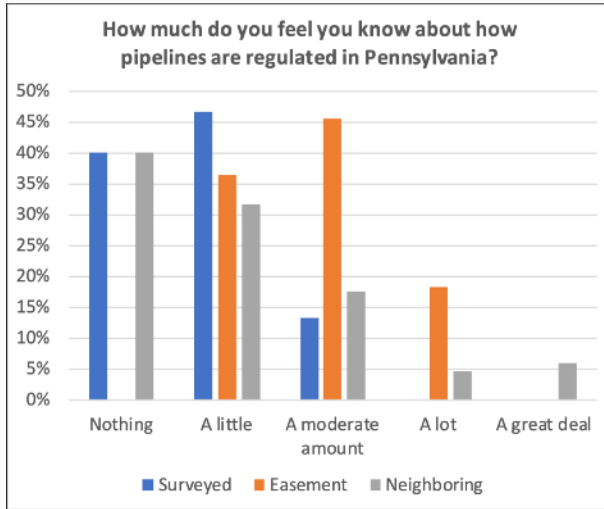
How much do you rely on the following for information about oil and gas infrastructure?

(1 = not at all, 5 = exclusively)

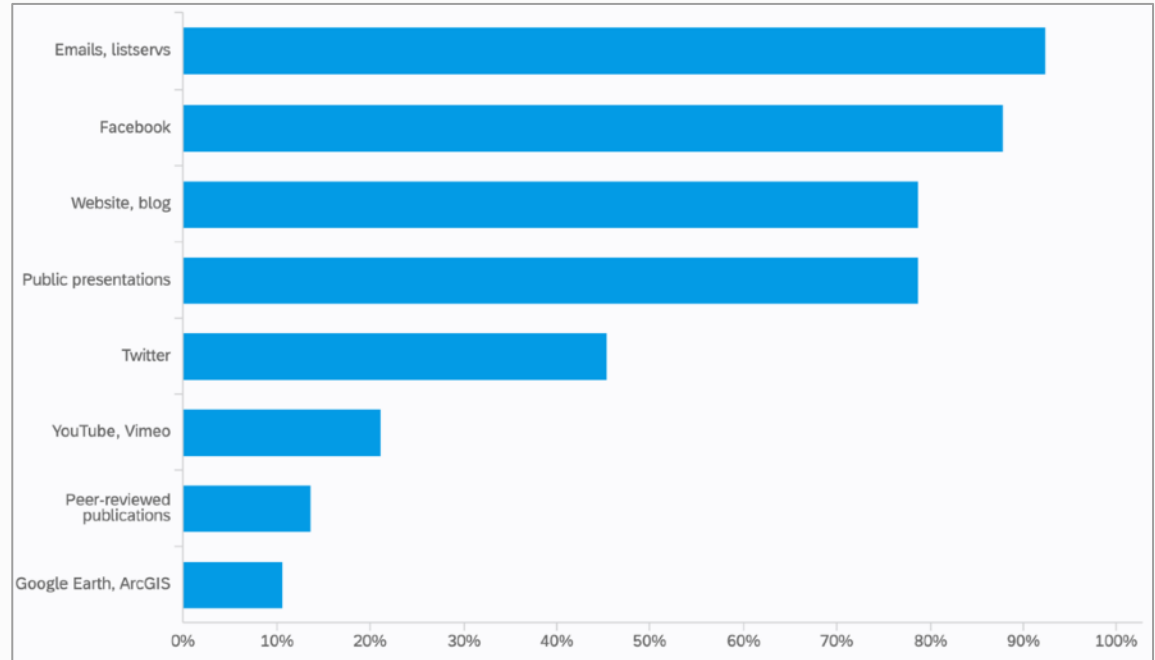|	Easements	Surveyed	Neighboring	All
	(n=10)	(n=15)	(n=78)	(n=103)
News media	2.33 ± 0.67	2.11 ± 1.20	2.70 ± 1.04	2.56 ± 1.04
Government	2.70 ± 1.00	2.78 ± 1.31	2.46 ± 1.10	2.54 ± 1.12
Word of mouth	2.44 ± 0.68	2.44 ± 1.07	2.50 ± 0.97	2.48 ± 0.95
Oil and gas industry	2.70 ± 0.78	2.50 ± 1.12	2.24 ± 1.08	2.35 ± 1.06
Nonprofit organizations	2.22 ± 0.79	1.33 ± 0.67	2.13 ± 1.19	2.03 ± 1.11

Technical practices: producing & using information

Has your organization ever used maps, data, or other technical resources to...

submit public comments on a permit or regulatory change?
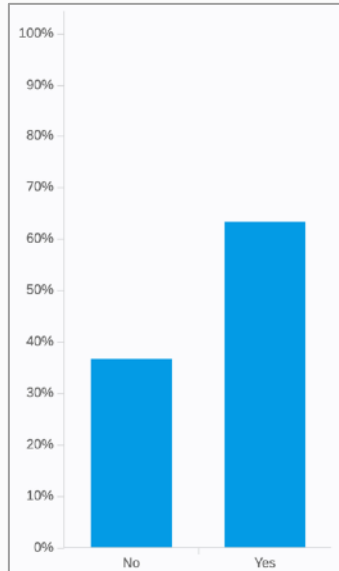
support or initiate pipeline-related litigation?
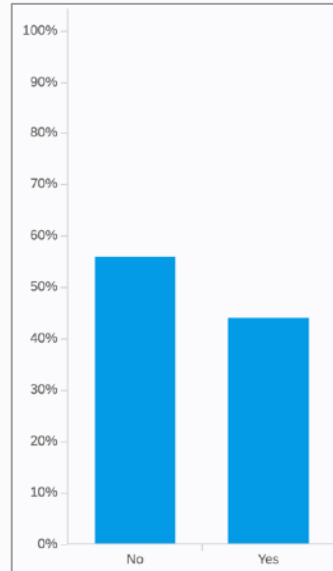
For political lobbying campaigns?
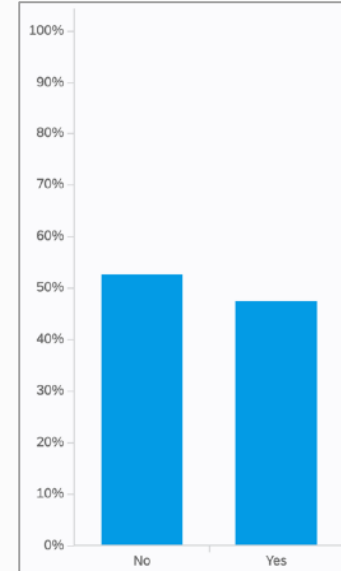
Technical practices: expert resources

Does your organization have access to any of the following kinds of <u>professional assistance</u> in your pipeline-related efforts?
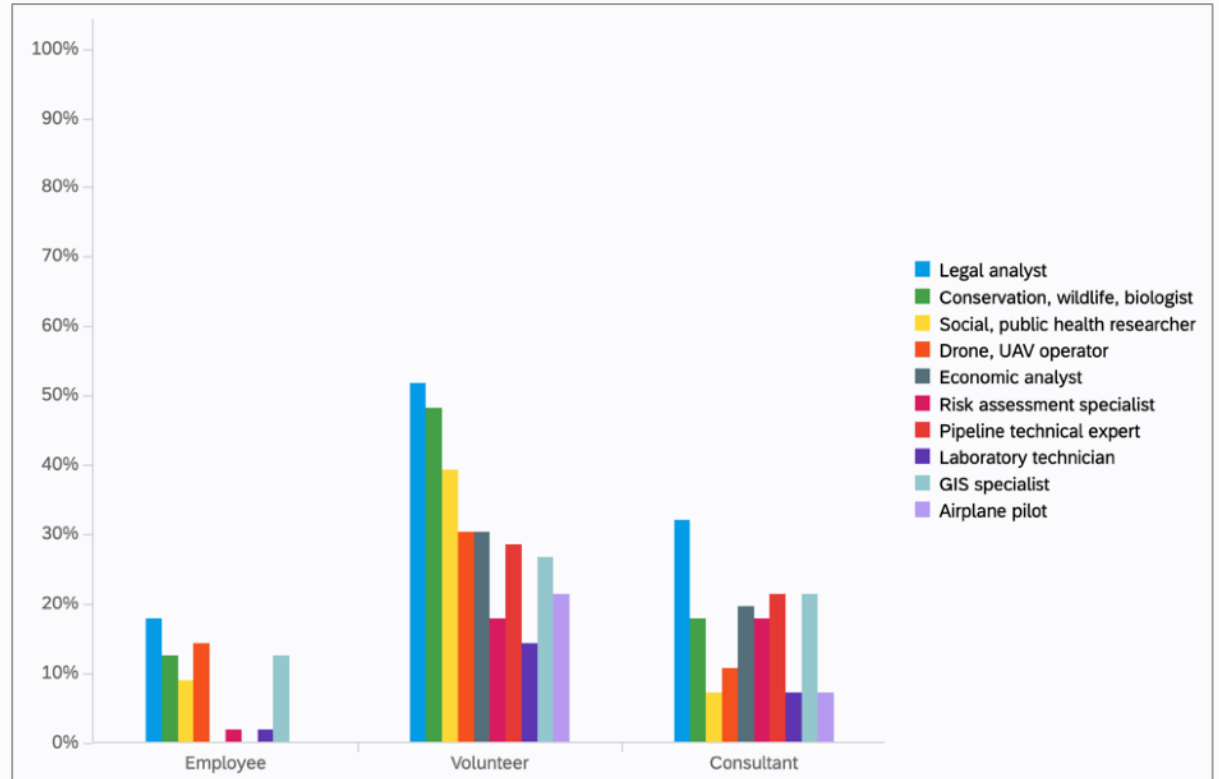
Technical practices: expert resources

Has your organization ever <u>received or offered training</u> to other groups on any of the following?
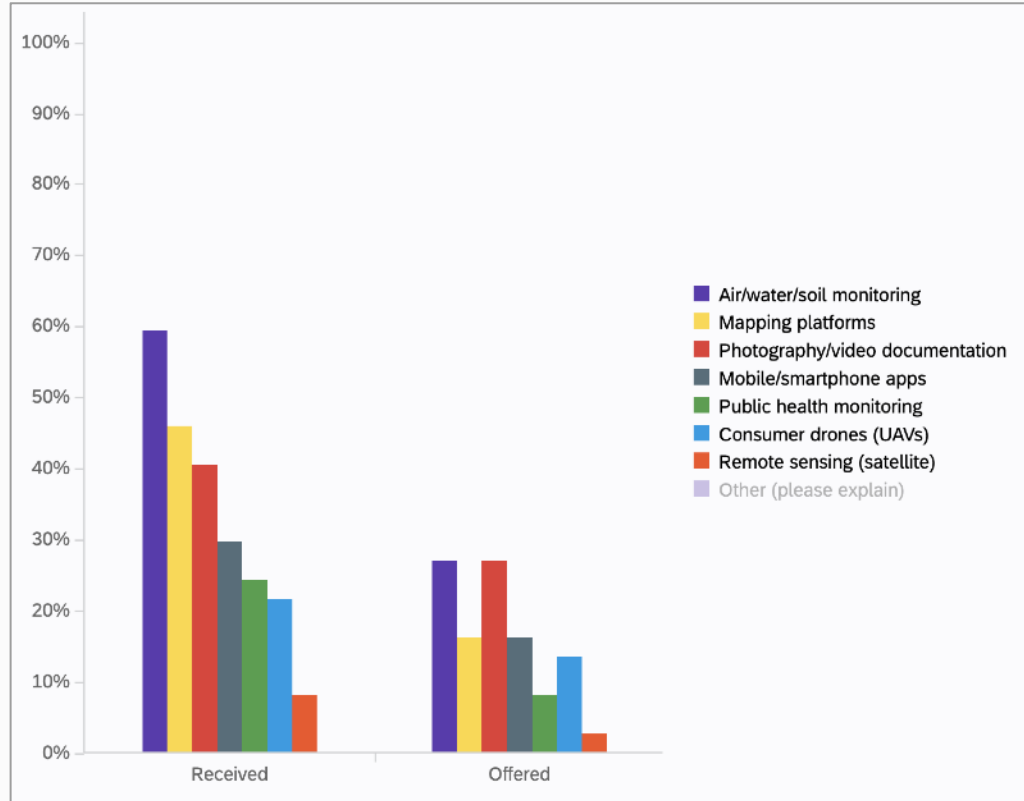
Technical practices: producing & using information

Why did you feel it was important to produce technical resources or tools, rather than relying on resources already available?

- Concerns about trustworthiness of existing resources

- Information did not exist within existing resources; targeting specific issues

- Needed to translate information for broader audiences

- As ways in which to distill or increase understanding of existing resources

NETWORKS & COALITIONS

Connectedness, technical resources, and impact

Overall connectedness
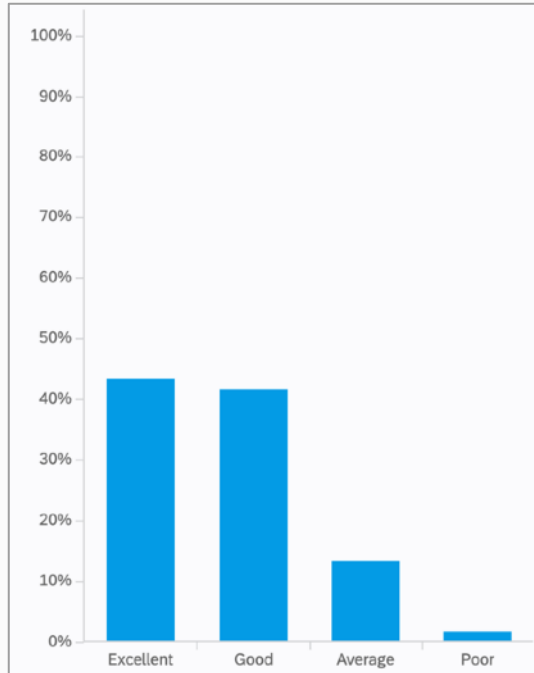
Part of a coalition
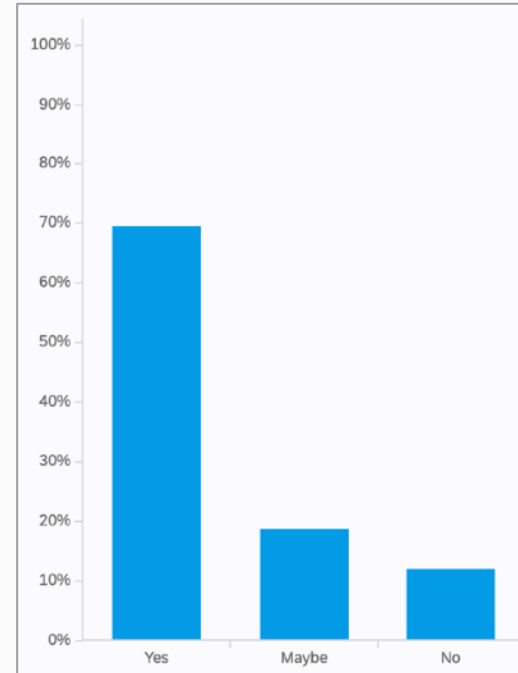
Networks & Coalitions

List the top 5 organizations from which you receive underline general information about pipelines, and the underline frequency of those interactions.

General Information Providers
Sierra Club
FracTracker Alliance
Food and Water Watch
Clean Air Council
Allegheny-Blue Ridge Alliance
Southern Environmental Law Center
Sane Energy Project
Pipeline Safety Coalition
Halt Mariner
National Wildlife Federation

46%
Weekly

42%
Monthly

12%
Annually

■ Weekly ■ Monthly ■ Annually
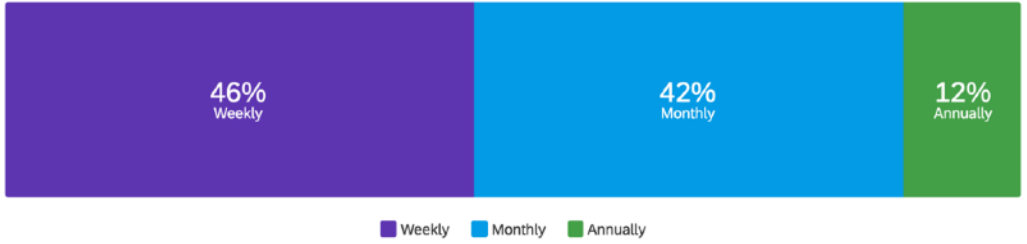
Networks & Coalitions

List the top 5 organizations from which you receive <u>technical resources</u> about pipelines, and the <u>frequency</u> of those interactions.

Technical Resource Providers
FracTracker Alliance
Sierra Club
Allegheny-Blue Ridge Alliance
Earthworks
Clean Air Council
SW PA Environmental Health Project
Environmental Integrity Project
Pipeline Safety Coalition
Pipeline Safety Trust
Breathe Collaborative

25% Weekly	58% Monthly	17% Annually

■ Weekly ■ Monthly ■ Annually
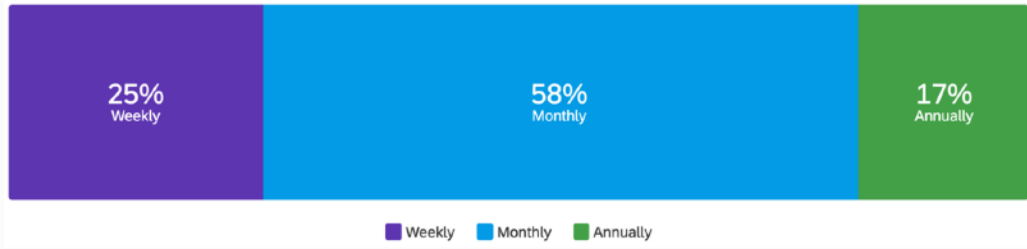
Connectedness, technical resources, and impact

Overall, do you think your organization's pipeline-related efforts have…

led to safer, better constructed, or better operated pipelines?
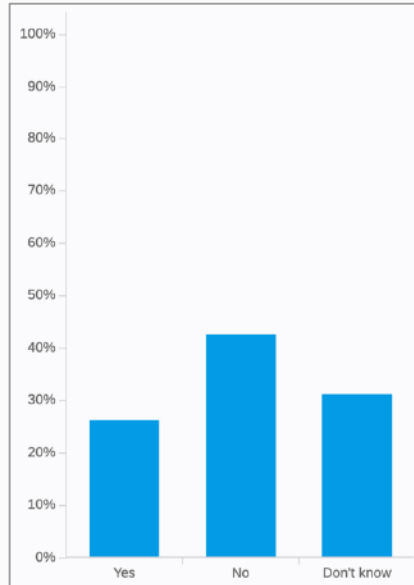
increased public understanding of pipelines?
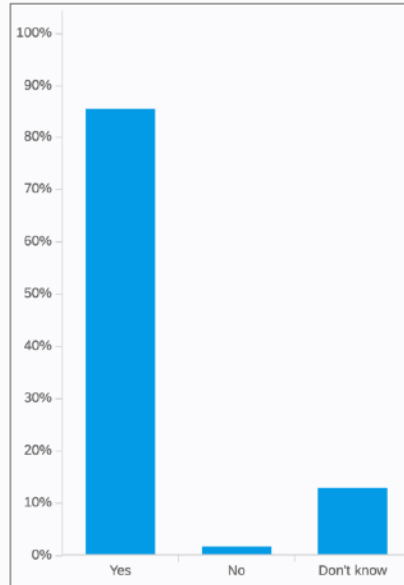
increased public participation in pipeline planning or operations?
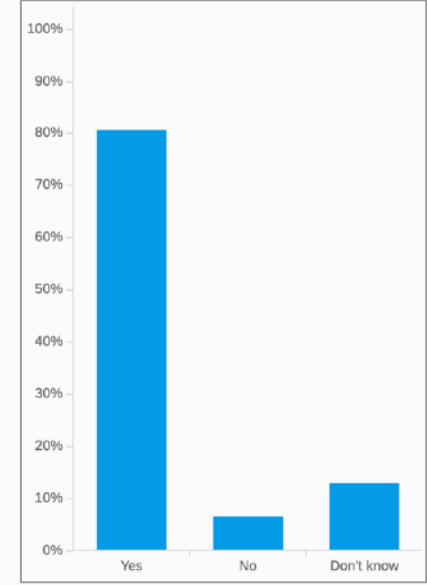
TAKEAWAYS
&
RECOMMENDATIONS

Study Highlights

- Many groups were formed in direct response to pipelines

- Most work locally, but are fairly connected

- Groups have a wide range of concerns consistent across regions

- Most see technical resources as critical to their work

- Only a fraction of key players produce technical resources

Additional Questions

Things we still don't understand...

- What makes some technical strategies more effective than others?

- Which have lowest barriers to entry for new and marginalized groups?

- Which are most portable and adaptable to emerging threats?

Next Steps

Building capacity...

- Better infrastructures for creating/sharing information/technical resources

- Expand coalitions to bridge types of orgs., regions, and scales of operation

- Invest in regions and organizations not represented in current networks

Next Steps: in their words

- "We need to have available a compendium of 'best practices' to which locally-impacted residents could turn, rather than being placed at the extreme disadvantage of having to figure out from scratch what is likely to be the most effective ways to defend fundamental local rights."

- "We need more citizen tool kits that tell residents what their rights are and how they can protect themselves."

- "We need to put together a national database of projects and resources."

- "If there isn't a national clearing-house type of organization, there should be."

- "We have found it's often not the 'what' (e.g. resources, tools, materials) but also the 'how' that drives successful actions and campaigns...how to recruit, how to call supporters to action, how to work collaboratively. Defined structure is very important in coalition."

THANK YOU !

Dr. Kirk Jalbert

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• • •

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