



National Underground Injection Control (UIC) Database

Flowing Data, Improvements and
Surveys

EN2014 – Philadelphia, PA

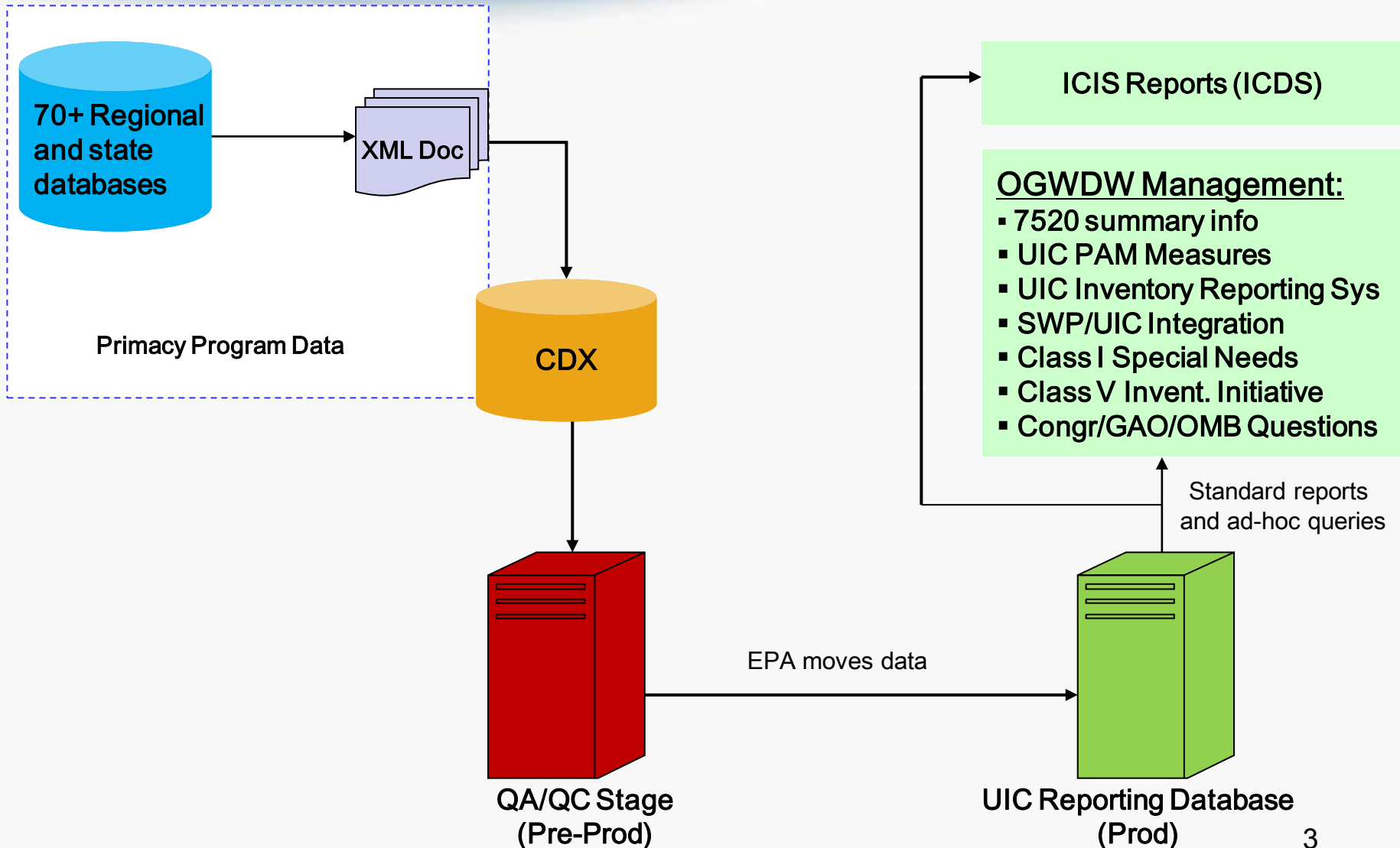


The Race is not Given to the Swift



- Data flow begins in the primacy program
- Data is then put into an XML File to be submitted to EPA
- XML file flows through EPA's Central Data Exchange to the QA/QC environment

National UIC Database System Framework



How to succeed in flowing UIC data from States to EPA



Getting Ready to Flow Data

Assure Data Quality

Demonstrate Consistency

E-Report

Data Flow Status



<u>Nationwide</u>	<u>69 Programs</u>
E-Reporters	15 Programs
Have flowed Data	14 Programs for IPT1
Working to Flow Data	15 Programs for IPT2
Basic Submitters	19 Programs
Non-participants	6 programs

Benefits of UIC Database

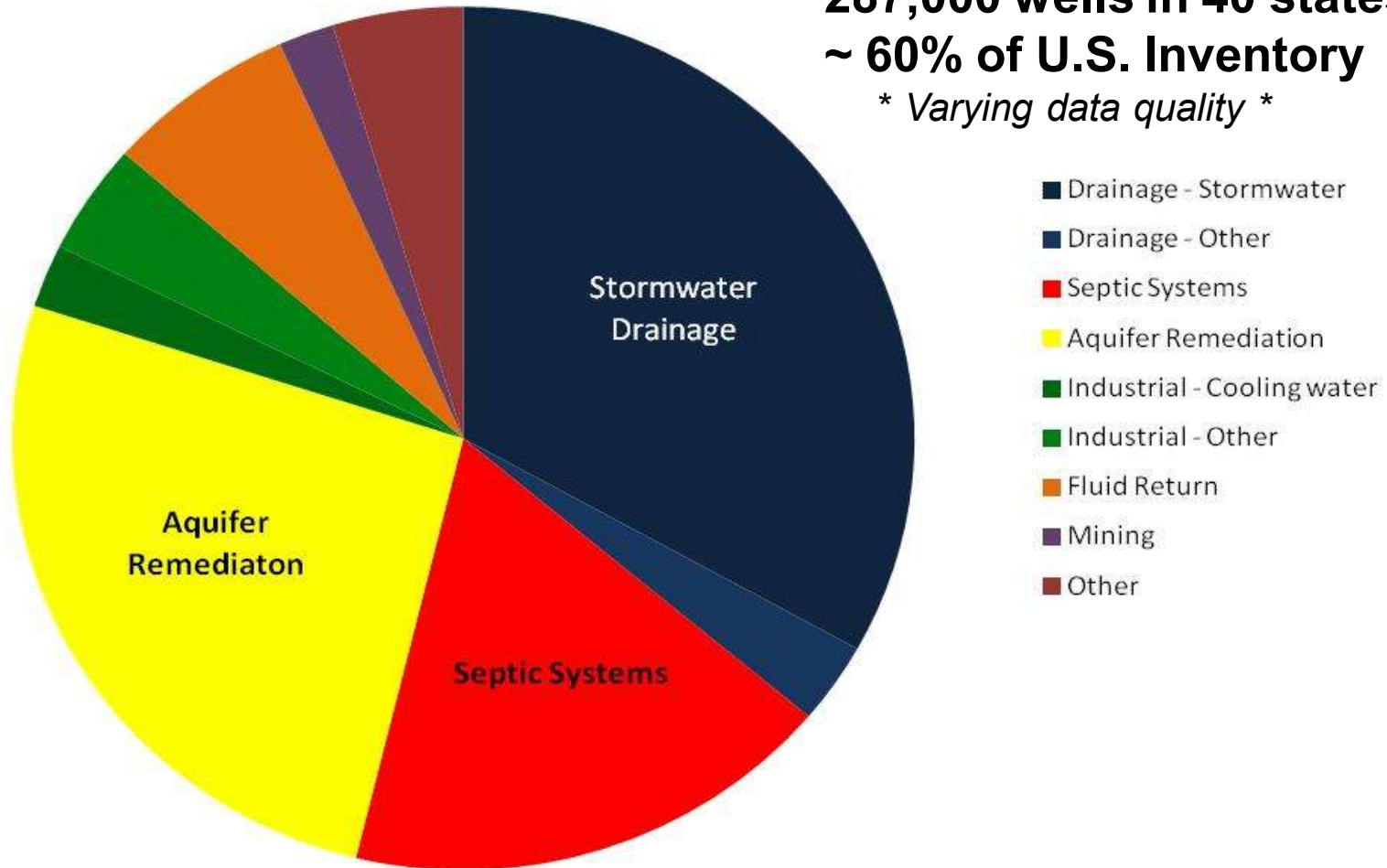


- We now have at least a one time data snapshot for most UIC programs; gives us a better understanding of inventory than ever before.
- For example:
 - Almost half of Class II wells in the existing EPA direct implementation inventory are not currently active – they are either proposed, under construction or temporarily abandoned.
 - Out of about 290,000 Class V wells with data, more than half are either aquifer remediation or stormwater drains.

Class V Subtypes



287,000 wells in 40 states;
~ 60% of U.S. Inventory
** Varying data quality **



Improving the Process



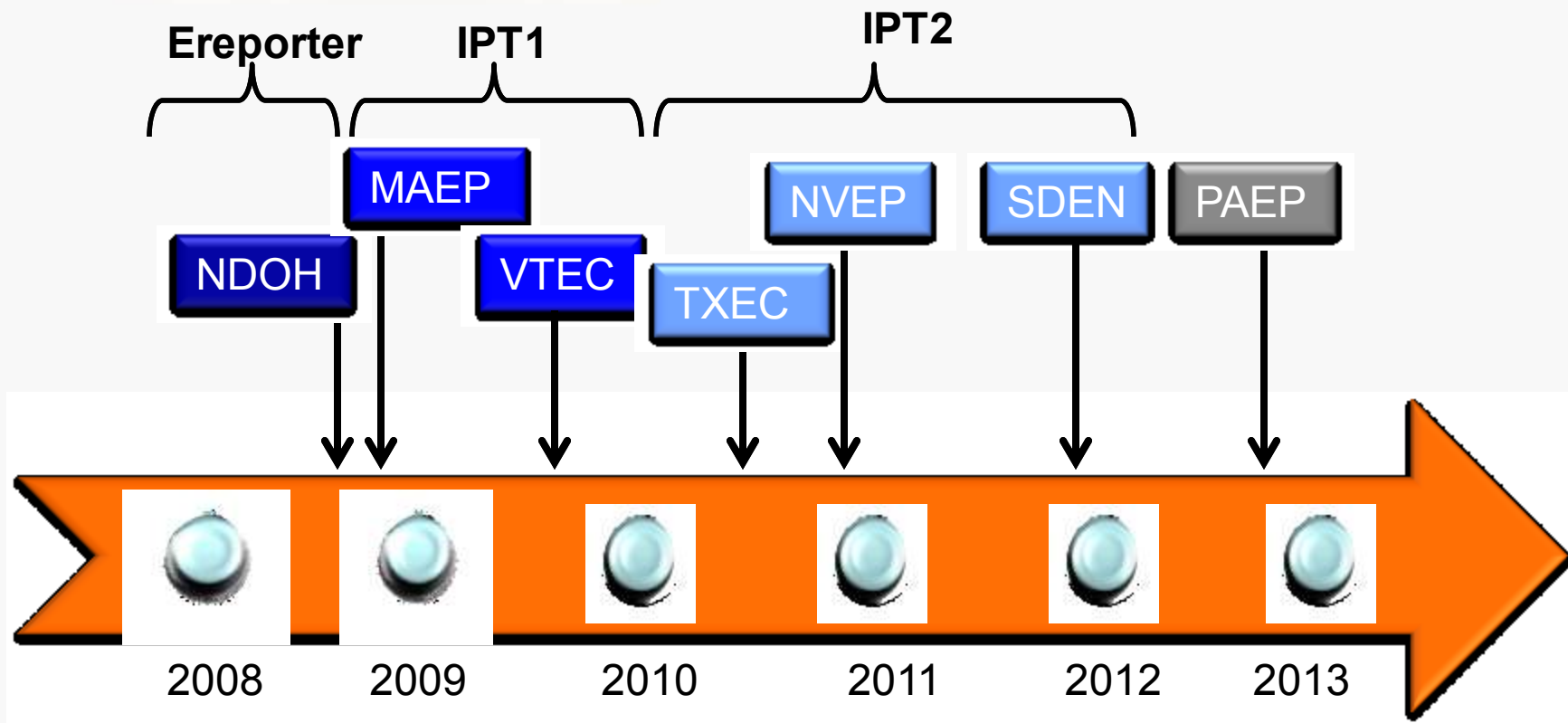
- Reduced data submission from quarterly to biannually.
- Streamlining Business Rules to reduce issues leading to frustration.
- Providing states with direct access to data through simplified Oracle Apex web-based service for producing data reports.
- Survey to identify benefits and areas for improvement: **Exchange Network & CDX Node Client usage**

Survey Results

Exchange Network Grant participants

Results

Grant Award Dates for agencies



Note: one anonymous on 10/01/2010

Overall feedback: Positive



Without funding, this work would have been more challenging to perform.

We would recommend other states to participate in the exchange network Grant program

The EN grant program has been instrumental in helping our agency improve the organization and quality of data, as well as implement flows across the EN.

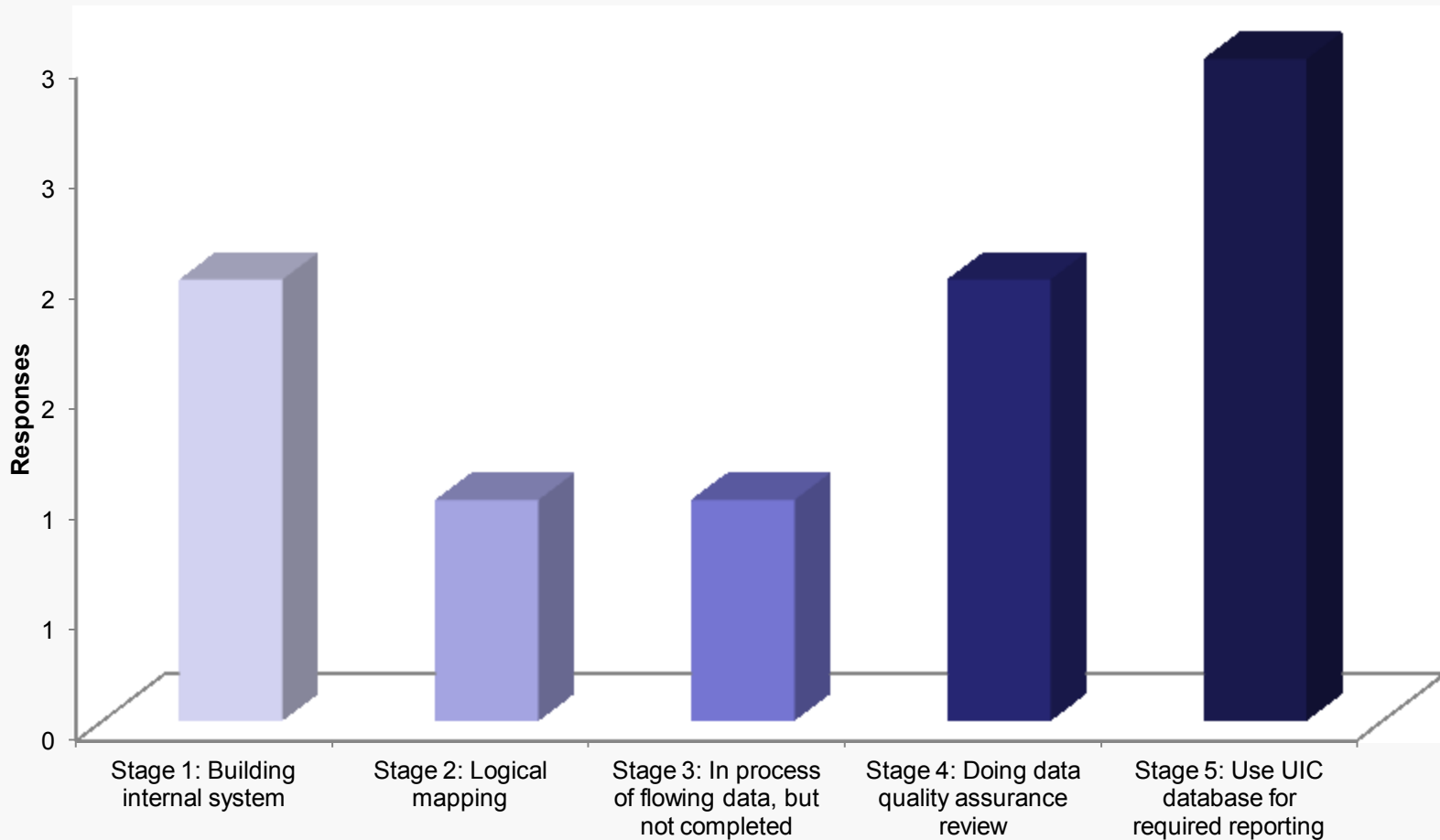
Grant participants in the Survey



Grant implementation stage



Primacy Agencies at different grant implementation stages

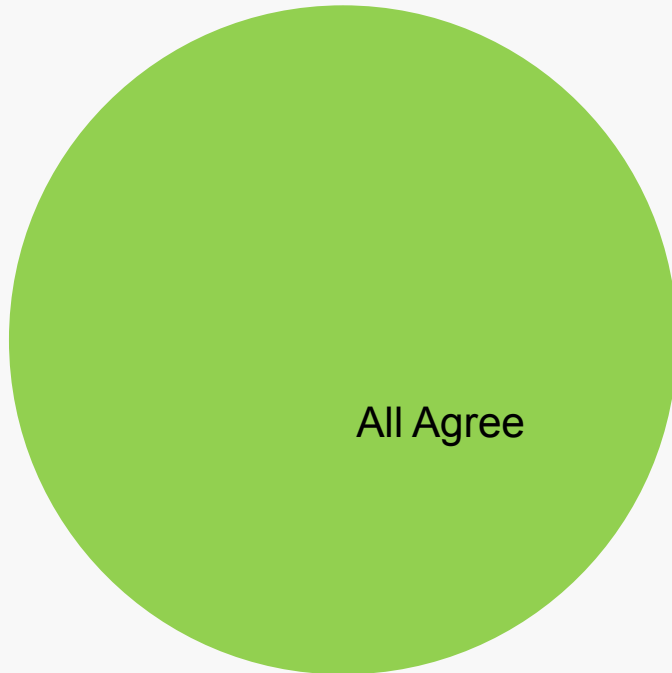


Integrated Project Team highlights

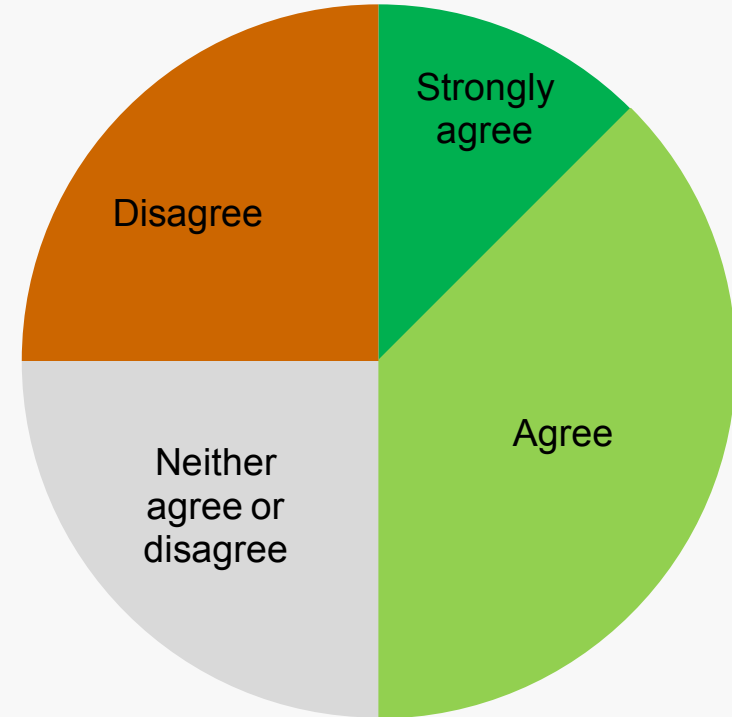


Were IPT2 meetings beneficial?

All those who regularly attends the meeting agreed it was beneficial



Was there adequate technical support provided by the EPA?

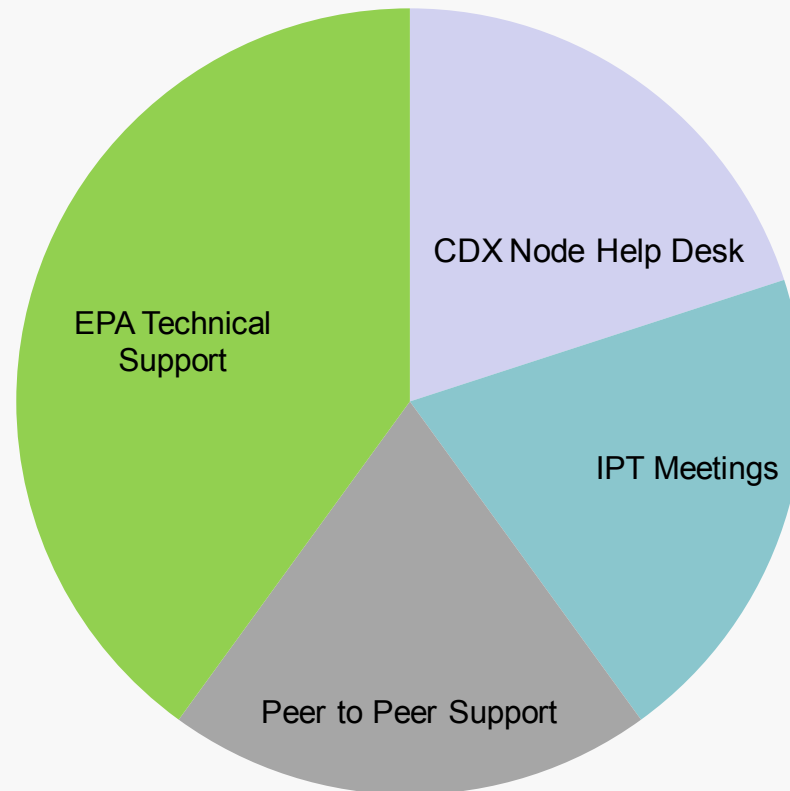


Note: 5 out of 9 participants in the survey attend the meeting and answered the following two questions

Grant support



Which types of support below were most useful to your work?

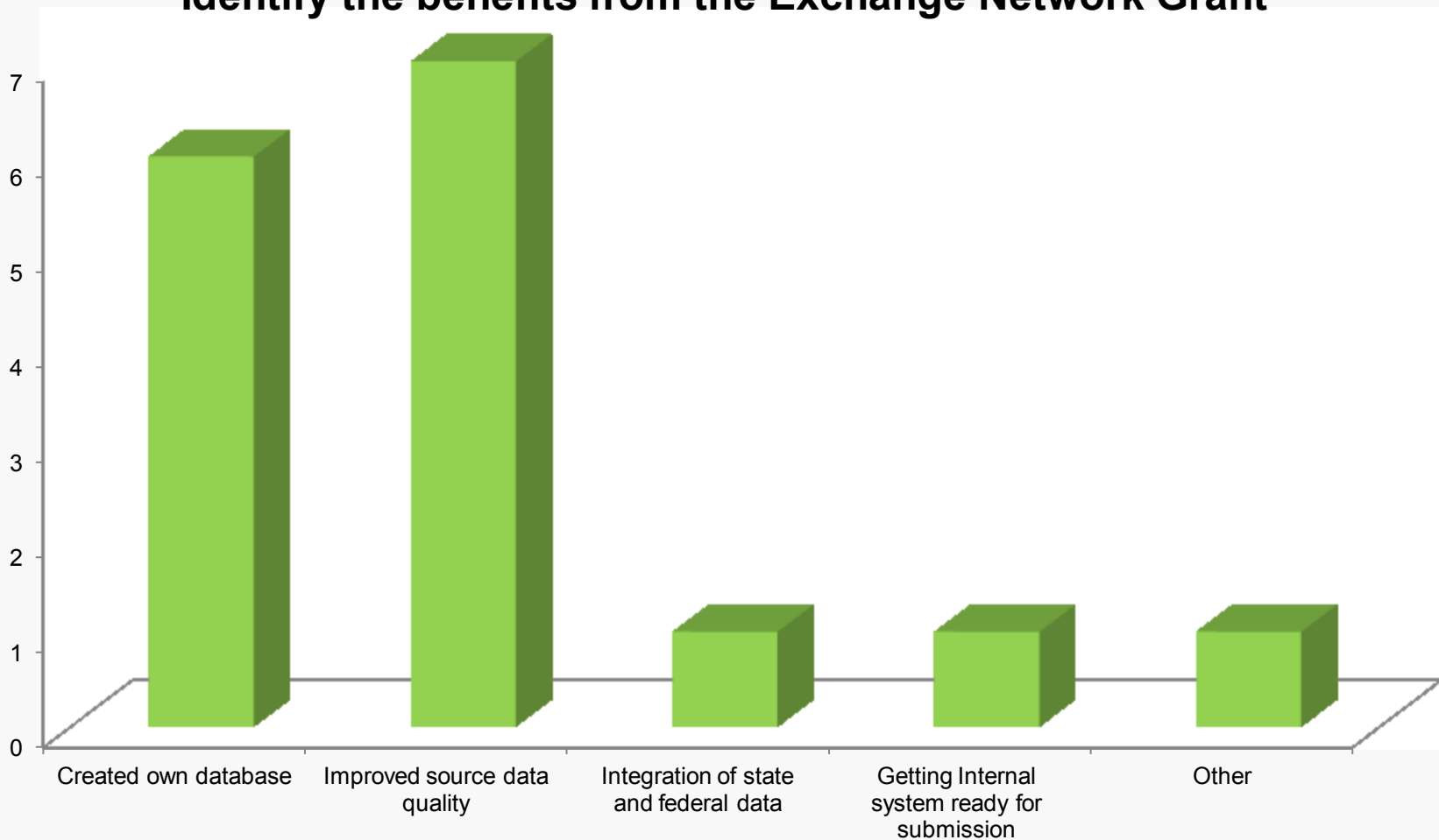


Note: Some participants have selected items more than one item

Exchange Network Survey Summary



Identify the benefits from the Exchange Network Grant



Note: Some participants have selected more than one benefit

Survey Results

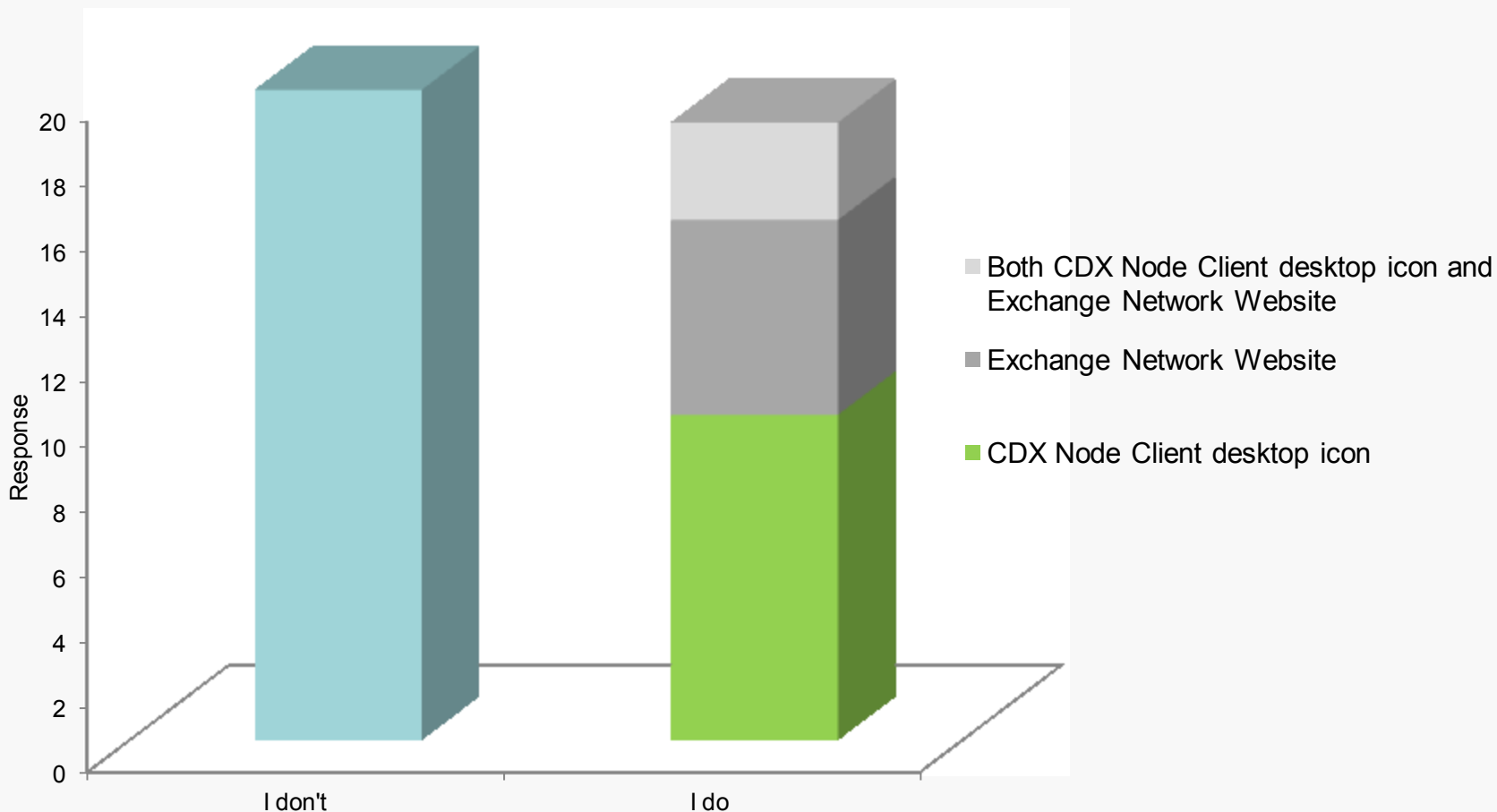


CDX Node Client Results

CDX Node Client



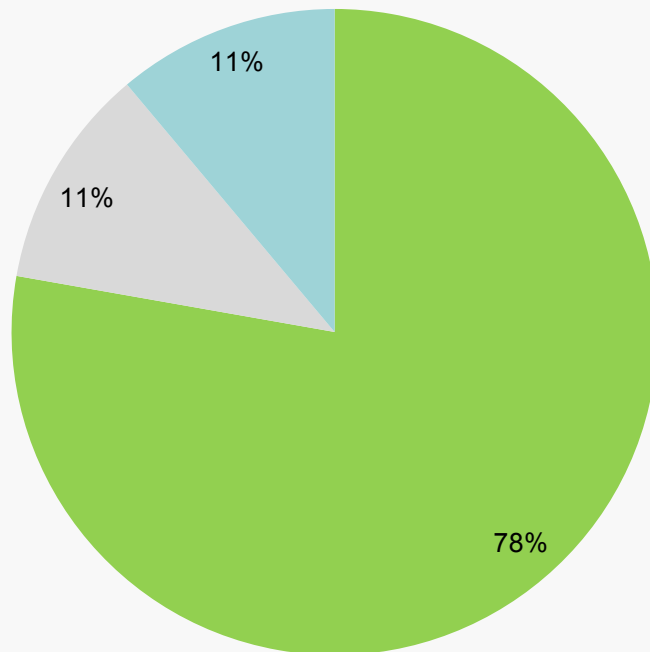
How do you submit data to the National UIC DB?





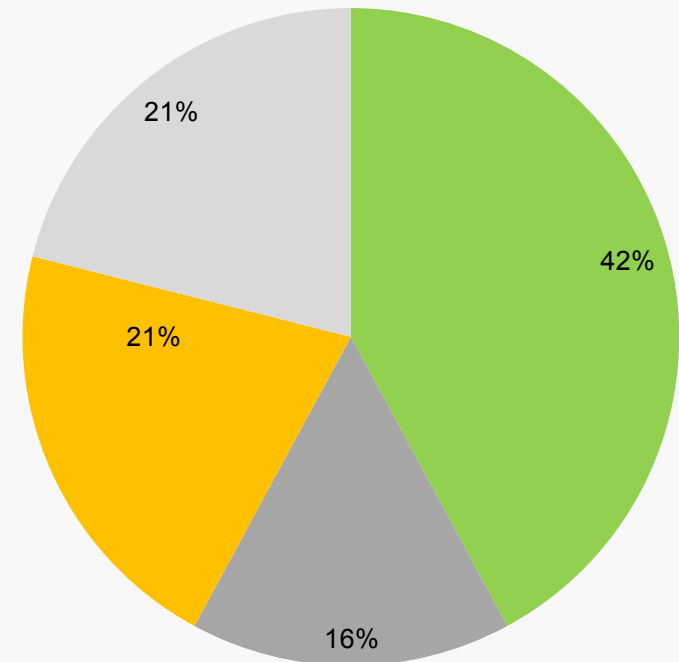
Easiness of Submission process

Submission through Exchange Network Website is easy to use



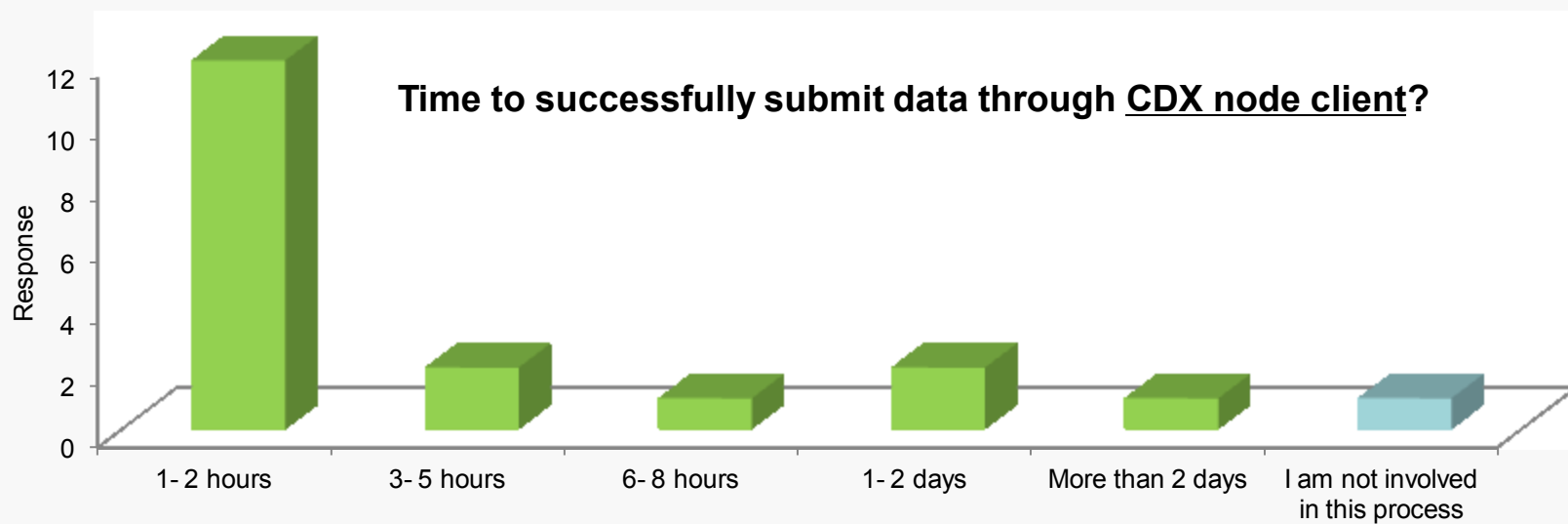
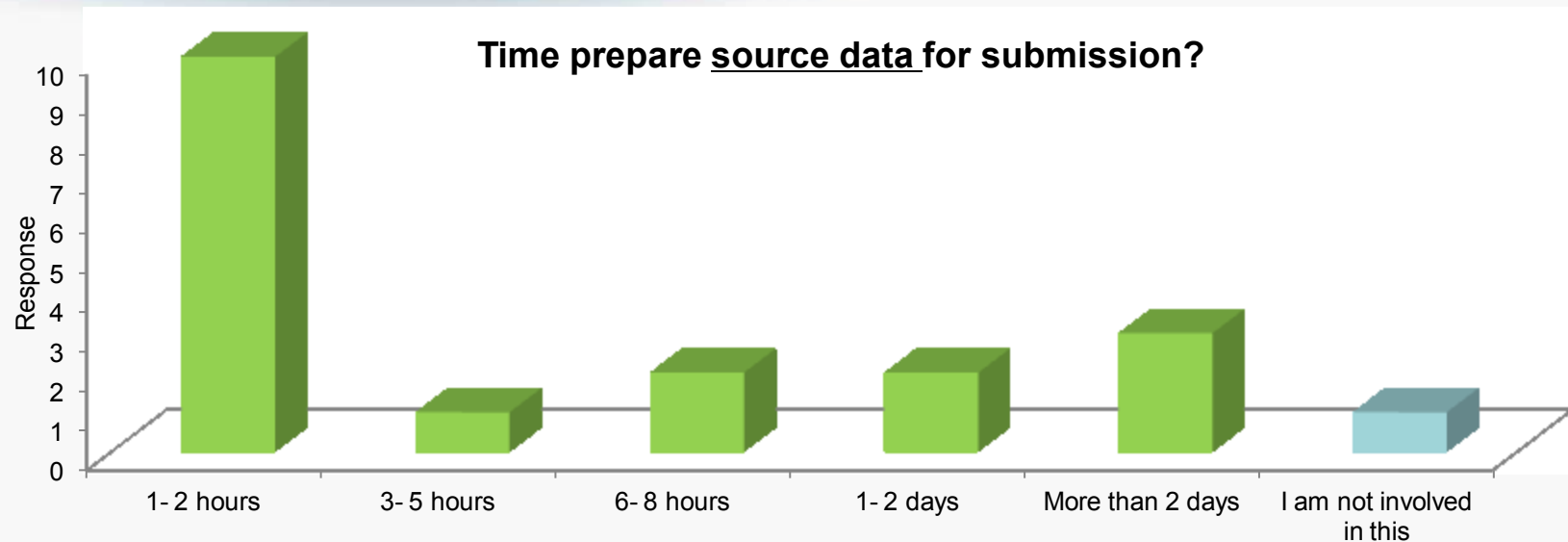
Note: Based on 9 responses

Submission via CDX node client desktop is easy to use



Note: Based on 19 responses, only 4 disagrees

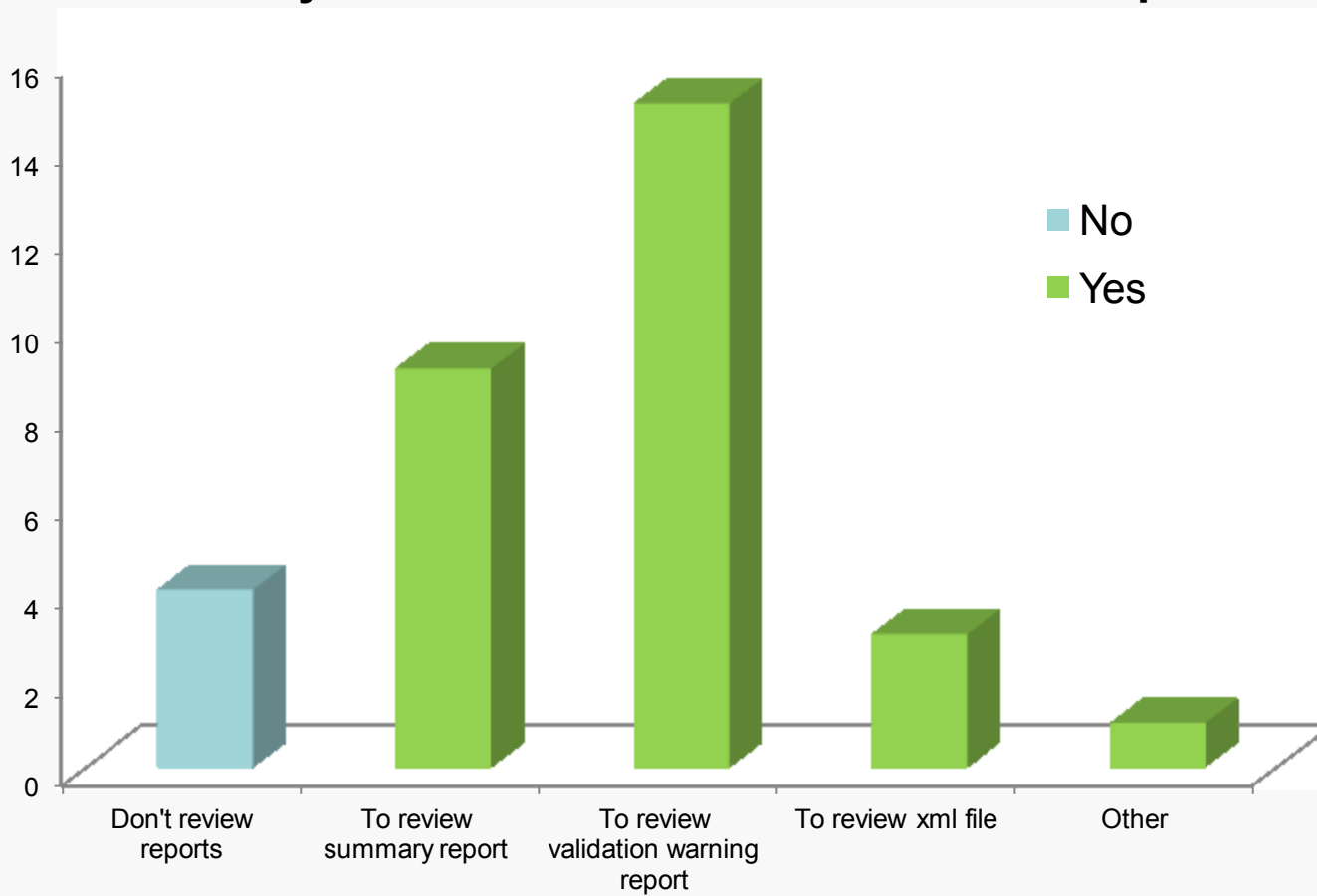
CDX Node Client



CDX Node Client



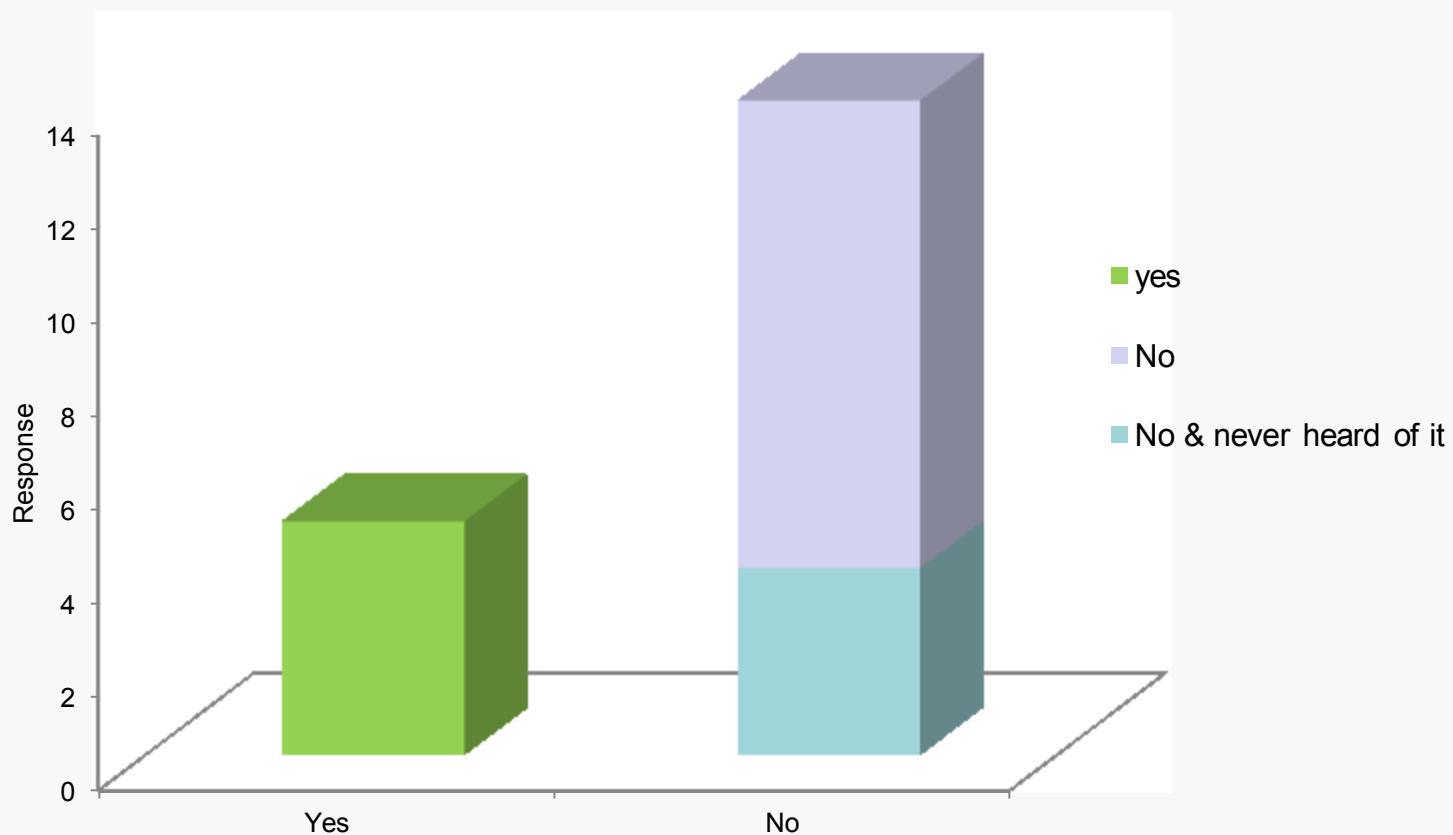
Do you use CDX node client to review reports?



CDX Node Client



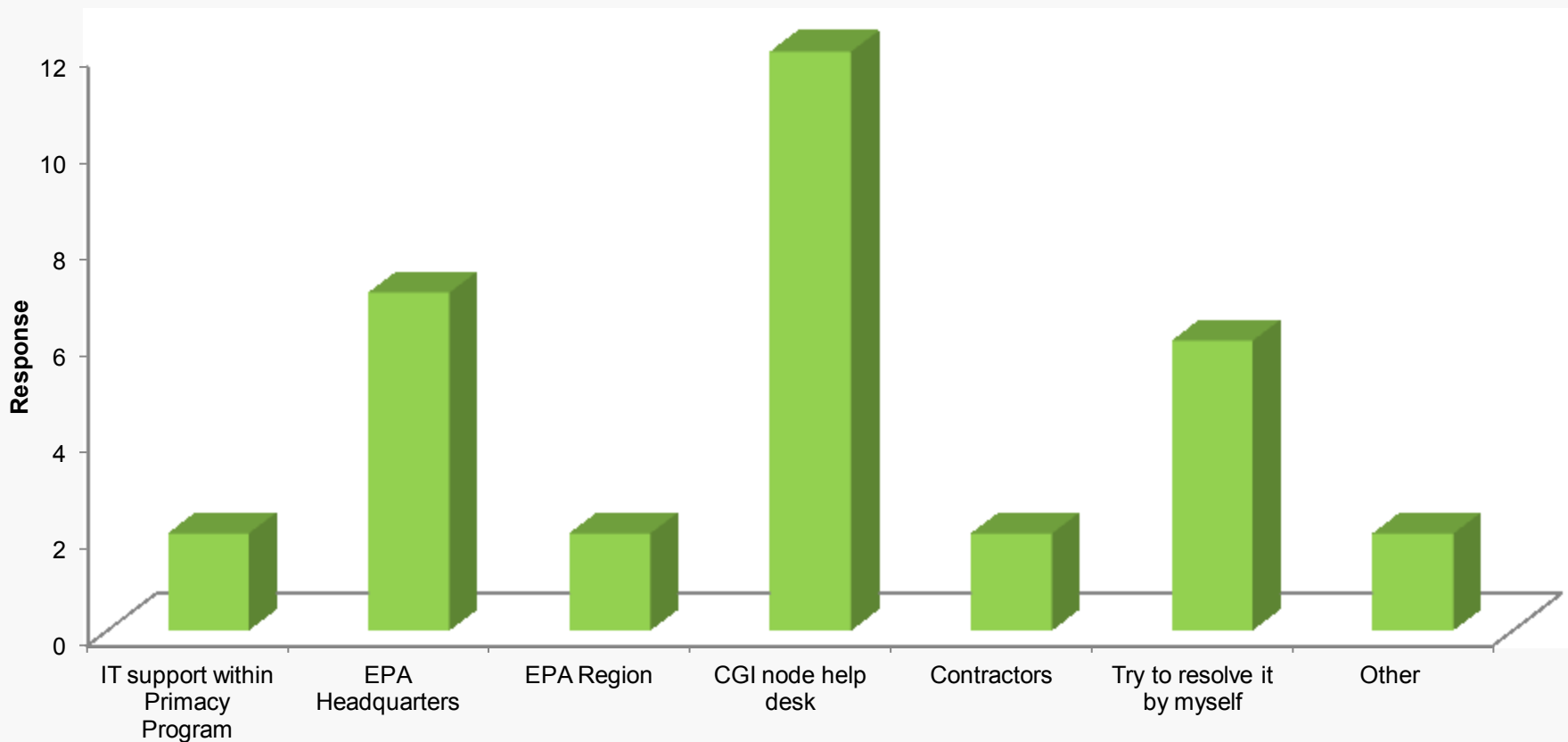
Have you ever used CDX node client user guide?



CDX Node Client



When you run into problems with CDX node client, who do you contact for support?



In Conclusion



- We continue to give **support** to our clients to flow data in each step of way.
- Current status of **15 e-reporters** and more to come!
- Areas of **improvements needed**: recognizing roadblocks and areas where EPA need to step up
- Survey results helped to **narrow down our improvements** to specific states

Contacts



EPA Region:

- Data Management Coordinators
- EN Coordinators

<http://www.exchangenetwork.net/about/contacts/>

UIC EN Website:

<http://www.exchangenetwork.net/data-exchange/underground-injection-controls>

EPA HQ:

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