

# 2018 LANSCE User Survey



Final – February 15, 2019



Managed by Triad National Security, LLC for the U.S. Department of Energy's NNSA

# WNR & Lujan Center Users

69 Total Responses

Date Created: Thursday, September 13, 2018

Complete Responses: 56

Survey Invitations (users)	527 (incl. 22 bounced emails)
Total Responses	69
Response Rate	13%
Responses with follow up request	10

# pRad Users

15 Total Responses

Date Open: Thursday, January 9, 2019

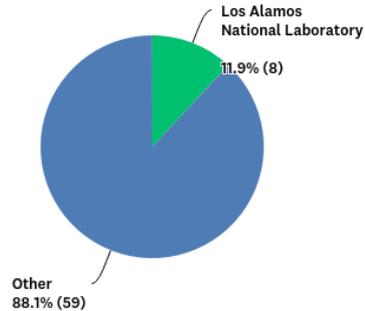
Complete Responses: 15

Survey Invitations (users)	70 (incl. 2 bounced emails)
Total Responses	15
Response Rate	22%
Responses with follow up request	1

# Q1: What is your home institution?

## WNR & Lujan Center

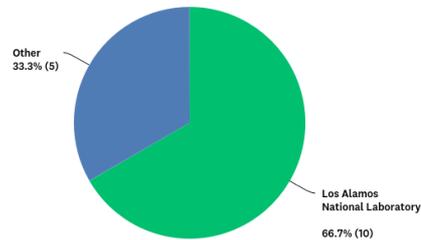
Answered: 67 Skipped: 2



ANSWER CHOICES	RESPONSES
Los Alamos National Laboratory	11.9% 8
Other	88.1% 59
TOTAL	67

## pRad

Answered: 15 Skipped: 0

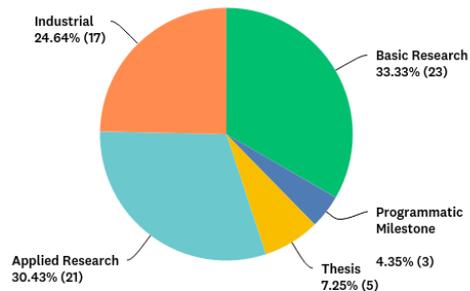


ANSWER CHOICES	RESPONSES
Los Alamos National Laboratory	66.7% 10
Other	33.3% 5
TOTAL	15

# Q2: What was the primary purpose of your experiment?

## WNR & Lujan Center

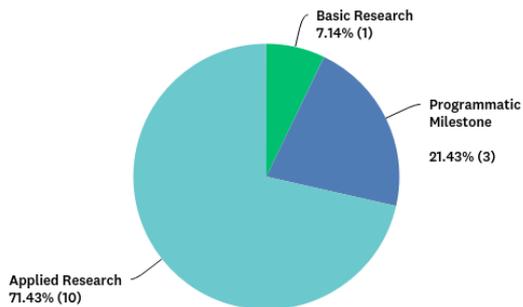
Answered: 69 Skipped: 0



ANSWER CHOICES	RESPONSES	
Basic Research	33.33%	23
Programmatic Milestone	4.35%	3
Thesis	7.25%	5
Applied Research	30.43%	21
Industrial	24.64%	17
TOTAL		69

## pRad

Answered: 14 Skipped: 1

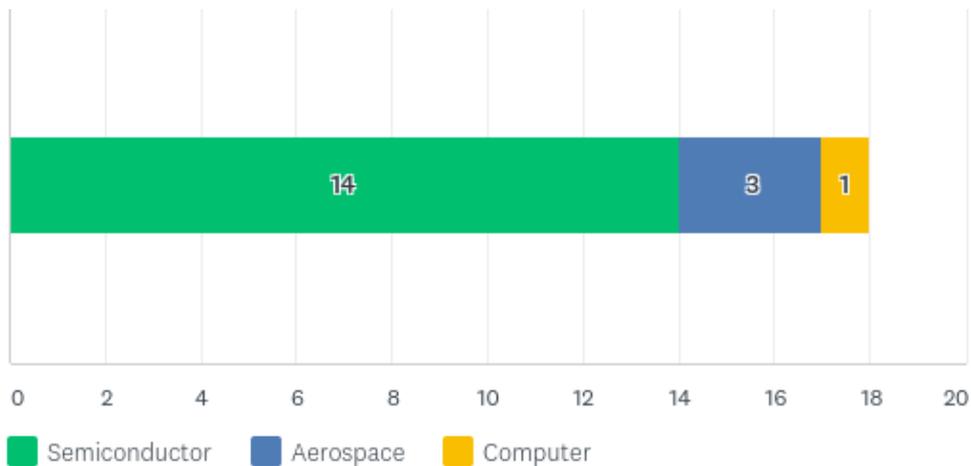


ANSWER CHOICES	RESPONSES	
Basic Research	7.14%	1
Programmatic Milestone	21.43%	3
Thesis	0.00%	0
Applied Research	71.43%	10
Industrial	0.00%	0
TOTAL		14

# Q3: What type of industry? (please select one or several of the options)

## WNR & Lujan Center

Answered: 16 Skipped: 53

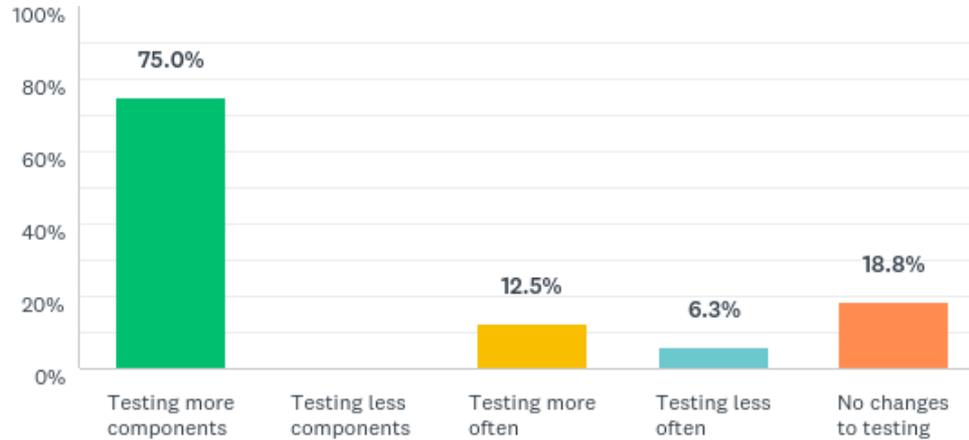


ANSWER CHOICES	RESPONSES
Semiconductor	87.50% 14
Aerospace	18.75% 3
Computer	6.25% 1
Total Respondents: 16	

# Q5: What are your future intention to use LANSCE? (check all answers that apply)

## WNR & Lujan Center

Answered: 16 Skipped: 53

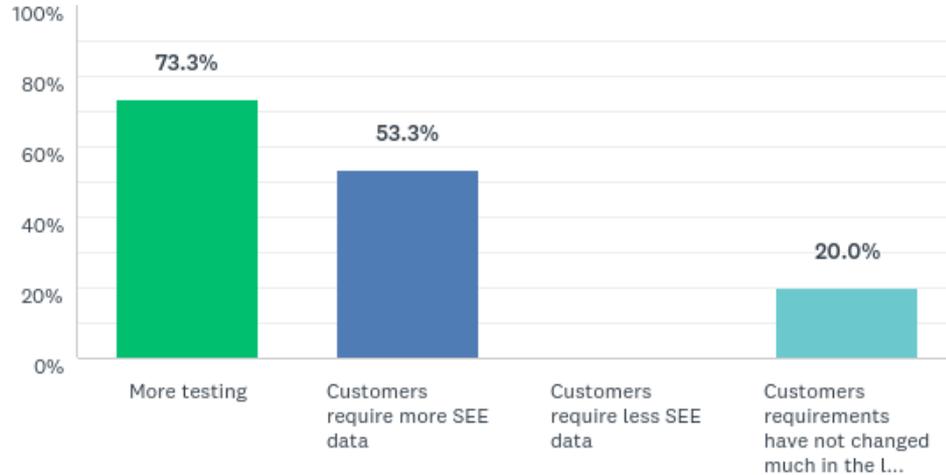


ANSWER CHOICES	RESPONSES	
Testing more components	75.0%	12
Testing less components	0.0%	0
Testing more often	12.5%	2
Testing less often	6.3%	1
No changes to testing	18.8%	3
Total Respondents: 16		

# Q6: What trends do you see?

## WNR & Lujan Center

Answered: 15 Skipped: 54

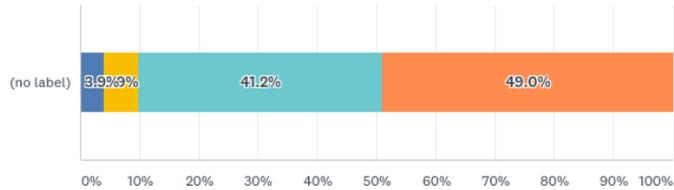


ANSWER CHOICES	RESPONSES	
More testing	73.3%	11
Customers require more SEE data	53.3%	8
Customers require less SEE data	0.0%	0
Customers requirements have not changed much in the last few years	20.0%	3
Total Respondents: 15		

# Q7: How satisfied were you with the proposal input process?

## WNR & Lujan Center

Answered: 58 Skipped: 11



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

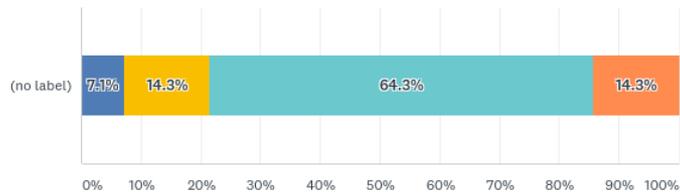
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	3.9%	5.9%	41.2%	49.0%	51	4.35
	0	2	3	21	25		

### BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	4.00	4.35	0.76

## pRad

Answered: 15 Skipped: 0



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	7.1%	14.3%	64.3%	14.3%	14	3.86
	0	1	2	9	2		

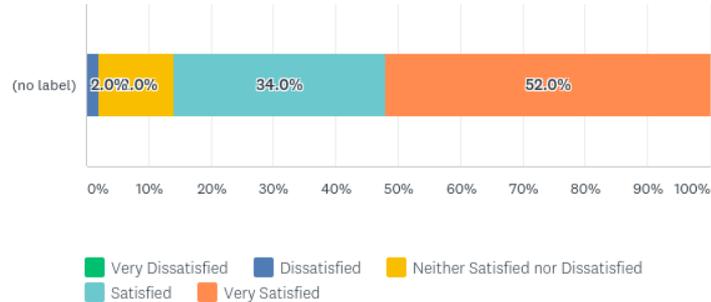
### BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	4.00	3.86	0.74

# Q8: How satisfied were you with the proposal review process?

## WNR & Lujan Center

Answered: 58 Skipped: 11

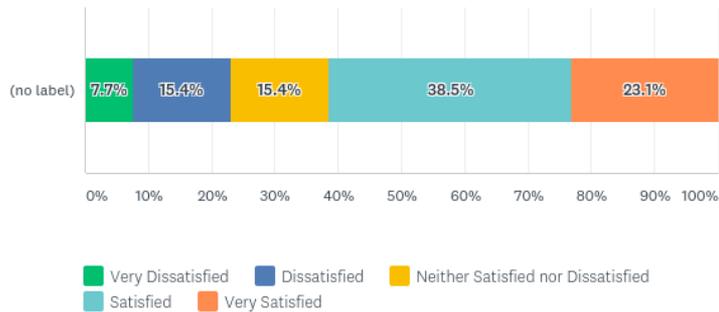


	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	2.0%	12.0%	34.0%	52.0%	50	4.36
	0	1	6	17	26		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	5.00	4.36	0.77

## pRad

Answered: 14 Skipped: 1



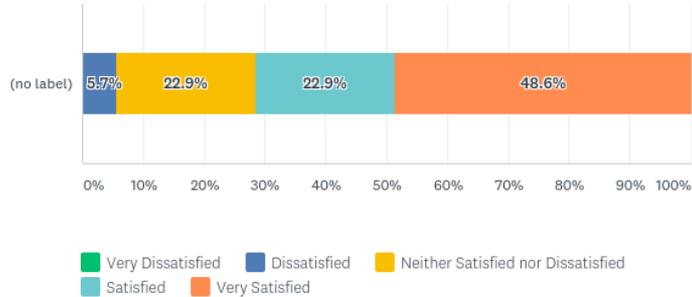
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	7.7%	15.4%	15.4%	38.5%	23.1%	13	3.54
	1	2	2	5	3		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
1.00	5.00	4.00	3.54	1.22

# Q9: How useful did you find the presentation portion of the PAC review?

## WNR & Lujan Center

Answered: 58 Skipped: 11

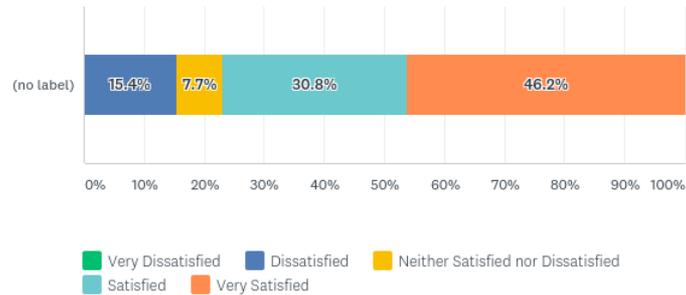


	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0% 0	5.7% 2	22.9% 8	22.9% 8	48.6% 17	35	4.14

BASIC STATISTICS					
Minimum	2.00	Maximum	5.00	Median	4.00
				Mean	4.14
				Standard Deviation	0.96

## pRad

Answered: 15 Skipped: 0



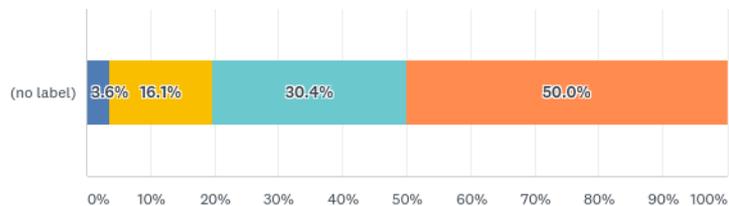
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0% 0	15.4% 2	7.7% 1	30.8% 4	46.2% 6	13	4.08

BASIC STATISTICS					
Minimum	2.00	Maximum	5.00	Median	4.00
				Mean	4.08
				Standard Deviation	1.07

# Q10: How satisfied were you with the scheduling of your experiment?

## WNR & Lujan Center

Answered: 58 Skipped: 11



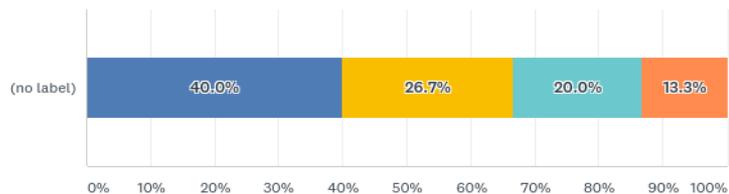
Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	3.6%	16.1%	30.4%	50.0%	56	4.27
	0	2	9	17	28		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	4.50	4.27	0.86

## pRad

Answered: 15 Skipped: 0



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

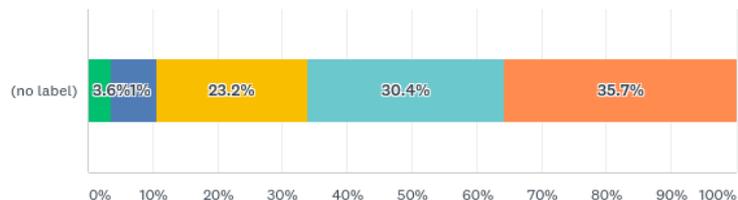
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	40.0%	26.7%	20.0%	13.3%	15	3.07
	0	6	4	3	2		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	3.00	3.07	1.06

# Q11: How satisfied were you with the beam performance and the communication of its expected performance?

## WNR & Lujan Center

Answered: 58 Skipped: 11



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

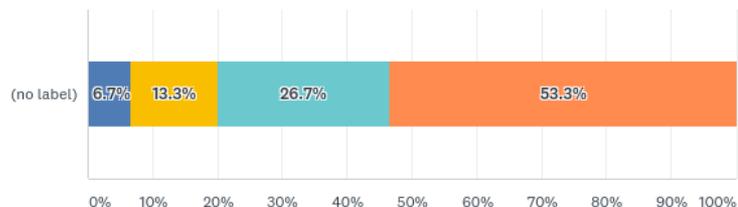
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	3.6%	7.1%	23.2%	30.4%	35.7%	56	3.88
	2	4	13	17	20		

### BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
1.00	5.00	4.00	3.88	1.09

## pRad

Answered: 15 Skipped: 0



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	6.7%	13.3%	26.7%	53.3%	15	4.27
	0	1	2	4	8		

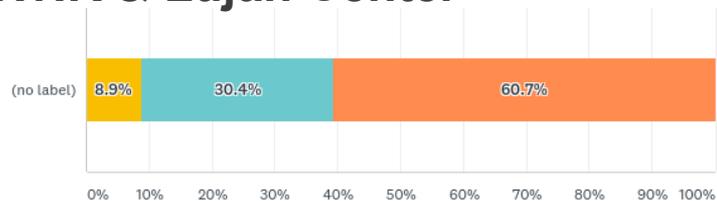
### BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	5.00	4.27	0.93

# Q12: How satisfied were you with the support provided by LANSCE staff?

## WNR & Lujan Center

Answered: 57 Skipped: 12



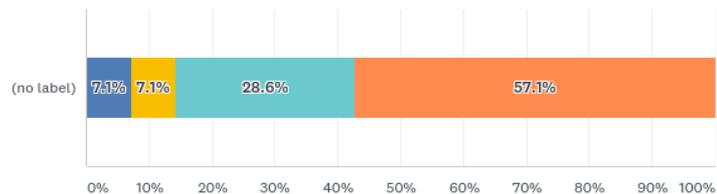
Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied  
Satisfied Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	0.0%	8.9%	30.4%	60.7%	56	4.52
	0	0	5	17	34		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
3.00	5.00	5.00	4.52	0.65

## pRad

Answered: 15 Skipped: 0



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied  
Satisfied Very Satisfied

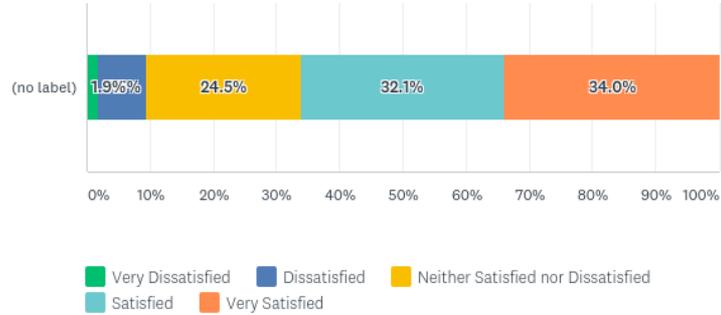
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	7.1%	7.1%	28.6%	57.1%	14	4.36
	0	1	1	4	8		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	5.00	4.36	0.89

# Q13: How satisfied are you with the beam line availability at LANSCE?

## WNR & Lujan Center

Answered: 57 Skipped: 12

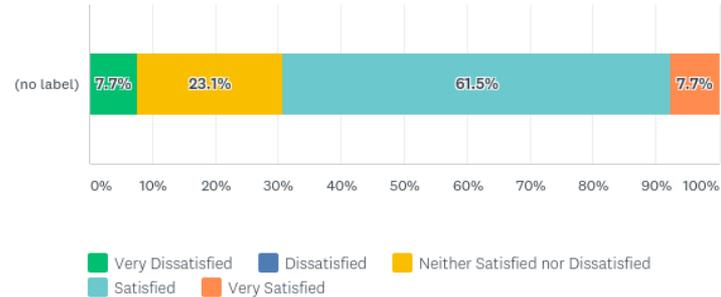


	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	1.9%	7.5%	24.5%	32.1%	34.0%	53	3.89
	1	4	13	17	18		

BASIC STATISTICS					
Minimum	Maximum	Median	Mean	Standard Deviation	
1.00	5.00	4.00	3.89	1.02	

## pRad

Answered: 14 Skipped: 1



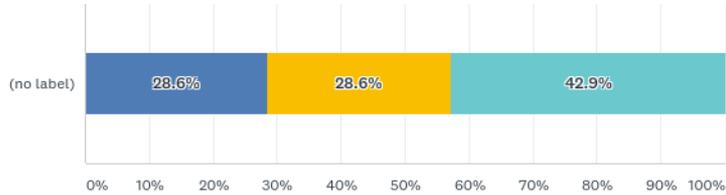
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	7.7%	0.0%	23.1%	61.5%	7.7%	13	3.62
	1	0	3	8	1		

BASIC STATISTICS					
Minimum	Maximum	Median	Mean	Standard Deviation	
1.00	5.00	4.00	3.62	0.92	

# Q14: How satisfied are you with the user on-boarding process?

## WNR & Lujan Center

Answered: 55 Skipped: 14



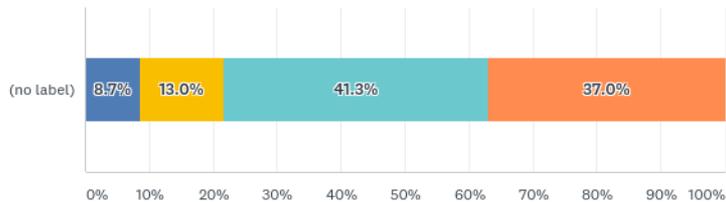
■ Very Dissatisfied 
 ■ Dissatisfied 
 ■ Neither Satisfied nor Dissatisfied 
 ■ Satisfied 
 ■ Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0% 0	8.7% 4	13.0% 6	41.3% 19	37.0% 17	46	4.07

BASIC STATISTICS					
Minimum	Maximum	Median	Mean	Standard Deviation	
2.00	5.00	4.00	4.07	0.92	

## pRad

Answered: 14 Skipped: 1



■ Very Dissatisfied 
 ■ Dissatisfied 
 ■ Neither Satisfied nor Dissatisfied 
 ■ Satisfied 
 ■ Very Satisfied

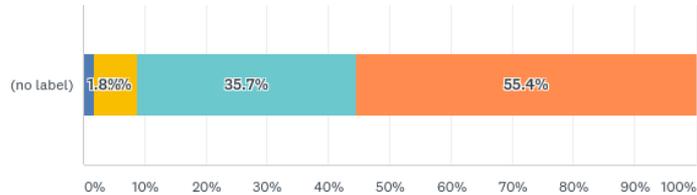
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0% 0	28.6% 2	28.6% 2	42.9% 3	0.0% 0	7	3.14

BASIC STATISTICS					
Minimum	Maximum	Median	Mean	Standard Deviation	
2.00	4.00	3.00	3.14	0.83	

# Q15: How satisfied are you with safety at LANSCE?

## WNR & Lujan Center

Answered: 57 Skipped: 12



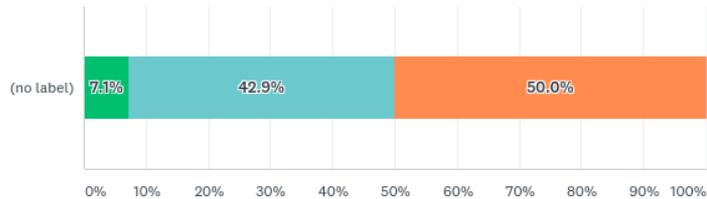
■ Very Dissatisfied 
 ■ Dissatisfied 
 ■ Neither Satisfied nor Dissatisfied  
■ Satisfied 
 ■ Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	1.8%	7.1%	35.7%	55.4%	56	4.45
	0	1	4	20	31		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	5.00	4.45	0.71

## pRad

Answered: 15 Skipped: 0



■ Very Dissatisfied 
 ■ Dissatisfied 
 ■ Neither Satisfied nor Dissatisfied  
■ Satisfied 
 ■ Very Satisfied

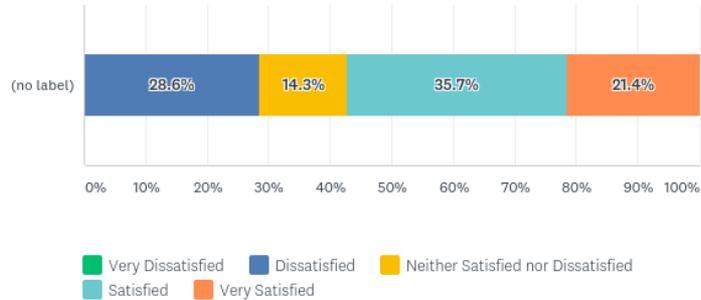
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	7.1%	0.0%	0.0%	42.9%	50.0%	14	4.29
	1	0	0	6	7		

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
1.00	5.00	4.50	4.29	1.03

# Q16: How satisfied were you with the data analysis and transfer of data to you?

pRad Only

Answered: 14 Skipped: 1



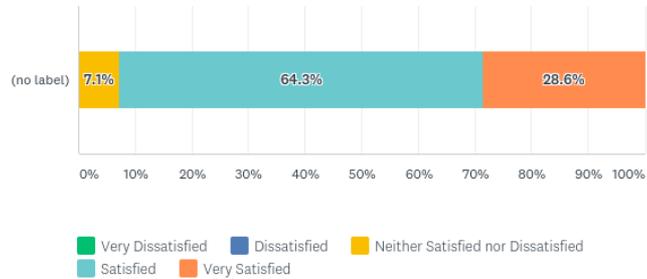
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0% 0	28.6% 4	14.3% 2	35.7% 5	21.4% 3	14	3.50

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	4.00	3.50	1.12

# Q17: How satisfied were you with the diagnostics capabilities available?

## pRad Only

Answered: 14 Skipped: 1



	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0% 0	0.0% 0	7.1% 1	64.3% 9	28.6% 4	14	4.21

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
3.00	5.00	4.00	4.21	0.56

## Q17: What additional diagnostics would you like to see at pRad?"

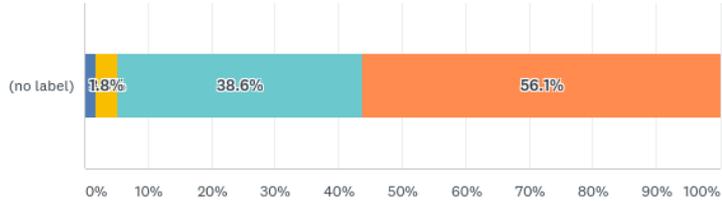
Answered: 6 Skipped: 9

- Spectroscopy
- Optical imaging. 10-frame cameras at IL-1.
- More classified cameras. X-rays or pRad perpendicular to the beam line.
- More frames, higher resolution camera systems. Better optical access for secondary diagnostics.
- Choice of scintillators at IL1.
- I know it's virtually impossible to get a high speed camera to work in the vessel but I'd like to see what's going on if it was possible. Have to dream...

# Q16/19: How satisfied were with your overall experience at LANSCE?

## WNR & Lujan Center

Answered: 58 Skipped: 11



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

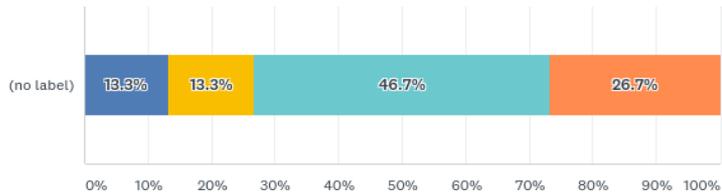
	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	1.8%	3.5%	38.6%	56.1%	57	4.49
	0	1	2	22	32		

### BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	5.00	4.49	0.65

## pRad

Answered: 15 Skipped: 0



Very Dissatisfied Dissatisfied Neither Satisfied nor Dissatisfied Satisfied Very Satisfied

	VERY DISSATISFIED	DISSATISFIED	NEITHER SATISFIED NOR DISSATISFIED	SATISFIED	VERY SATISFIED	TOTAL	WEIGHTED AVERAGE
(no label)	0.0%	13.3%	13.3%	46.7%	26.7%	15	3.87
	0	2	2	7	4		

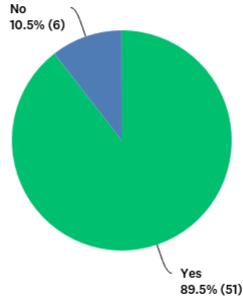
### BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
2.00	5.00	4.00	3.87	0.96

# Q: Are the training requirements appropriate?

## WNR & Lujan Center

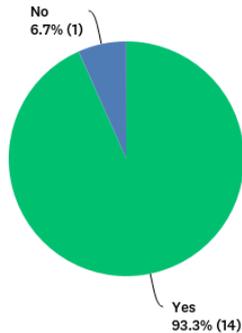
Answered: 57 Skipped: 12



ANSWER CHOICES	RESPONSES	
Yes	89.5%	51
No	10.5%	6
TOTAL		57

## pRad

Answered: 15 Skipped: 0

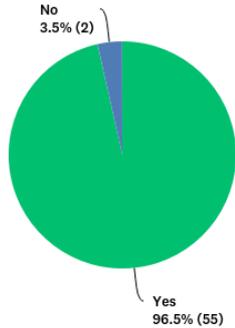


ANSWER CHOICES	RESPONSES	
Yes	93.3%	14
No	6.7%	1
TOTAL		15

# Q: Are the safety procedures appropriate?

## WNR & Lujan Center

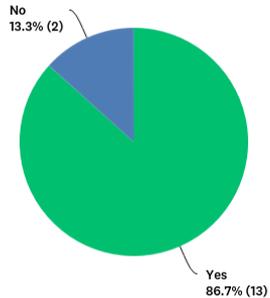
Answered: 57 Skipped: 12



ANSWER CHOICES	RESPONSES
Yes	96.5% 55
No	3.5% 2
TOTAL	57

## pRad

Answered: 15 Skipped: 0

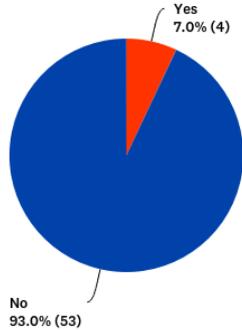


ANSWER CHOICES	RESPONSES
Yes	86.7% 13
No	13.3% 2
TOTAL	15

# Q: Have you (or your team) been involved in any safety incidents at LANSCE in the last few years?

## WNR & Lujan Center

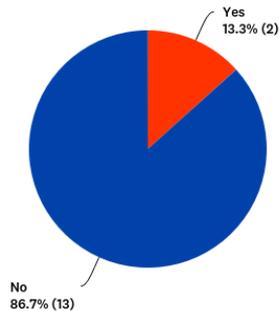
Answered: 57 Skipped: 12



ANSWER CHOICES	RESPONSES
Yes	7.0% (4)
No	93.0% (53)
TOTAL	57

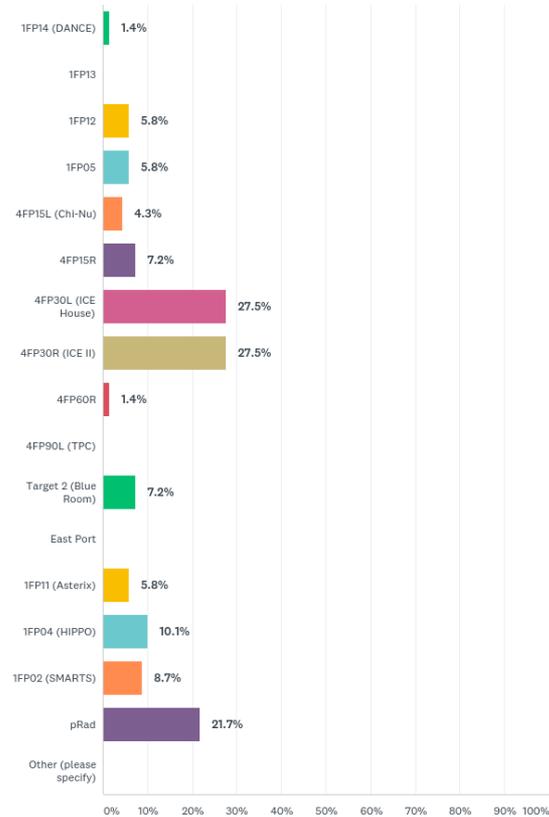
## pRad

Answered: 15 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	13.3% (2)
No	86.7% (13)
TOTAL	15

# Q: What flight path did you use at LANSCE?



Answered: 69 Skipped: 19

ANSWER CHOICES	RESPONSES	
1FP14 (DANCE)	1.4%	1
1FP13	0.0%	0
1FP12	5.8%	4
1FP05	5.8%	4
4FP15L (Chi-Nu)	4.3%	3
4FP15R	7.2%	5
4FP30L (ICE House)	27.5%	19
4FP30R (ICE II)	27.5%	19
4FP60R	1.4%	1
4FP90L (TPC)	0.0%	0
Target 2 (Blue Room)	7.2%	5
East Port	0.0%	0
1FP11 (Asterix)	5.8%	4
1FP04 (HIPPO)	10.1%	7
1FP02 (SMARTS)	8.7%	6
pRad	21.7%	15
Other (please specify)	0.0%	0
Total Respondents: 69		

# Q22 How many days (approximately) of beam time did you apply for in the last 2 years/have you been granted in the last 2 years?

## WNR & Lujan Center

Answered: 50 Skipped: 19

Beam time did you apply for in the last 2 years	Beam time have you been granted in the last 2 years
Average: 16.4	Average: 17.0

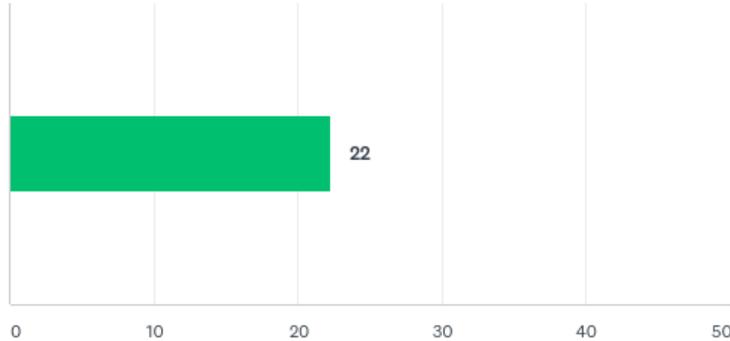
## pRad

Answered: 15 Skipped: 0

Beam time did you apply for in the last 2 years	Beam time have you been granted in the last 2 years
Average: 15.9	Average: 10.1

# Q: What approximate downtime did you experience during your testing campaign (in %; such as shutter issues, accelerator issues, etc.)?

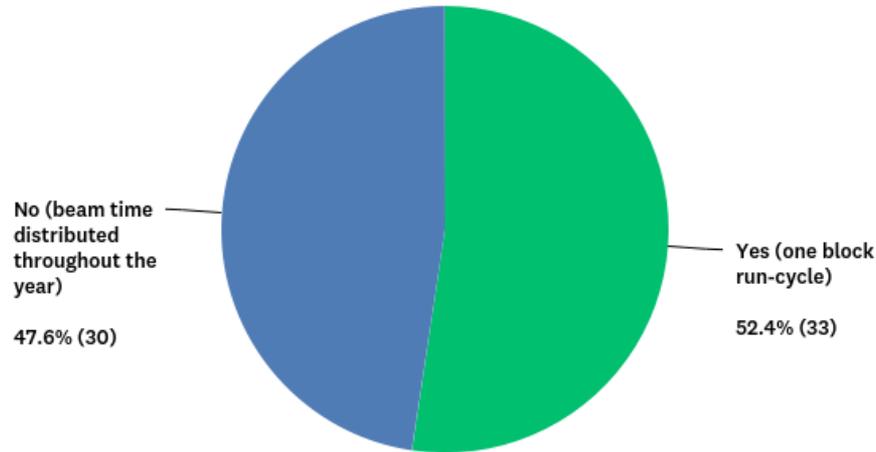
Answered: 65 Skipped: 23



ANSWER CHOICES	AVERAGE NUMBER	TOTAL NUMBER	RESPONSES
	22	1,445	65
Total Respondents: 65			

**Q: Currently LANSCE beam lines are offered about 8 months of continuous beam time per year (4 months no beam time). Should the 8 months of beam time be offered as one block (yes) or distributed throughout the year (no)?**

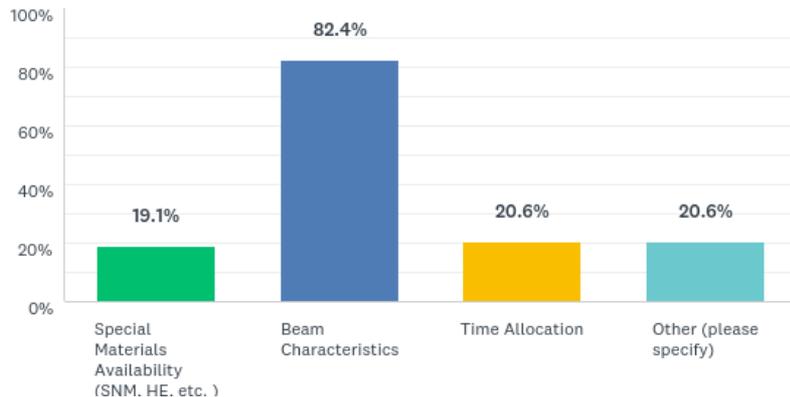
Answered: 63 Skipped: 25



ANSWER CHOICES	RESPONSES
Yes (one block run-cycle)	52.4% 33
No (beam time distributed throughout the year)	47.6% 30
TOTAL	63

# Q: Why did you choose to do your experiment at LANSCE? (select all that apply)

Answered: 68 Skipped: 20



ANSWER CHOICES	RESPONSES	
Special Materials Availability (SNM, HE, etc.)	19.1%	13
Beam Characteristics	82.4%	56
Time Allocation	20.6%	14
Other (please specify)	20.6%	14
Total Respondents: 68		

## Other (please specify):

- Multipulse radiography sensitive to HE detonation phenomonons.
- ability to provide multiple dynamic images
- Excellent beamline scientists on SMARTS. Long fruitful professional relationship.
- Availability of no cost beam for academic use
- Offered as a collaboration with LANSCE researchers
- SMARTS beamline staff is excellent
- easy access, good technical support
- Realistic neutron energy spectrum, and convenient travel.
- Familiarity
- TSL Uppsala is down
- one of the few places one can get eV energy pulsed neutrons
- Positive working relationship with instrument scientists
- Unique facilities in the Blue Room and East Port
- Geography (for US users)