**Fedoruk, L.E., Cole, R. J., Robinson, J.B. and Cayuela, A. (2015)
Learning from failure: understanding the anticipated-achieved
building energy performance gap. *Building Research & Information*.**

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Supplemental data

Appendix:

Statistical Analysis of Inhabitant Controls Survey

Number of completed surveys (45) → Response rate = 22.6%. This response rate is based on the survey link being sent to the list of current CIRS inhabitants (199 inhabitants excluding the researchers). This response rate is relatively low, however the survey was delivered in August when many inhabitants were away. 60 – 70 people were estimated to be in the building during the month of August, which yields a relative response rate of approximately 70%.

1. How satisfied are you with the indoor environment at CIRS with respect to the following systems?

With this question we hope to uncover general satisfaction with the indoor environment in CIRS.

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
In General	40	1.0	6.0	5.200	1.0427
Lighting	45	1.0	6.0	4.244	1.4327
Heating & Cooling	44	1.0	6.0	4.250	1.4163
Ventilation & Air Quality	45	1.0	6.0	4.978	1.2879
Acoustics	45	1.0	6.0	3.267	1.5136
Valid N (listwise)	39				

Frequencies

Statistics

		In General	Lighting	Heating & Cooling	Ventilation & Air Quality	Acoustics
N	Valid	40	45	44	45	45
	Missing	5	0	1	0	0

Frequency Table

General satisfaction with indoor environment

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	1	2.2	2.5	2.5
	3.0	1	2.2	2.5	5.0
	4.0	5	11.1	12.5	17.5
	5.0	14	31.1	35.0	52.5
	6.0	19	42.2	47.5	100.0
	Total	40	88.9	100.0	
Missing	System	5	11.1		
Total		45	100.0		

Satisfaction with lighting

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	4.4	4.4
	2.0	3	6.7	6.7	11.1
	3.0	9	20.0	20.0	31.1
	4.0	10	22.2	22.2	53.3
	5.0	10	22.2	22.2	75.6
	6.0	11	24.4	24.4	100.0
Total		45	100.0	100.0	

Satisfaction with Heating and Cooling

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	1	2.2	2.3	2.3
	2.0	7	15.6	15.9	18.2
	3.0	3	6.7	6.8	25.0
	4.0	11	24.4	25.0	50.0
	5.0	13	28.9	29.5	79.5
	6.0	9	20.0	20.5	100.0
	Total	44	97.8	100.0	
Missing	System	1	2.2		
Total		45	100.0		

Satisfaction with Ventilation and Air Quality

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	4.4	4.4
	3.0	4	8.9	8.9	13.3
	4.0	5	11.1	11.1	24.4
	5.0	14	31.1	31.1	55.6
	6.0	20	44.4	44.4	100.0
	Total	45	100.0	100.0	

Satisfaction with acoustics

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	6	13.3	13.3	13.3
	2.0	9	20.0	20.0	33.3
	3.0	11	24.4	24.4	57.8
	4.0	10	22.2	22.2	80.0
	5.0	4	8.9	8.9	88.9
	6.0	5	11.1	11.1	100.0
	Total	45	100.0	100.0	

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3. How knowledgeable do you feel you are about the design intent of systems in CIRS? Note that we are using design intent to mean the design goals, intended system functioning, and the performance that the project was intended to achieve.

With this question we hope to uncover how much communication of design intent has existed for inhabitants as well as have a calibration point against which to measure levels of success in achieving design intent and operational optimizations.

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
In General	40	1	6	4.55	1.260
Lighting	43	2.0	6.0	4.512	1.0992
Heating & cooling	43	1.0	6.0	4.535	1.2974
Energy harvesting systems such as the EOS heat exchange, geothermal loop, solar hot water system and photovoltaic panels	44	1.0	6.0	4.318	1.4105
Ventilation & Air Quality	43	1.0	6.0	4.256	1.2927
Acoustics	43	1.0	6.0	3.698	1.3369
Valid N (listwise)	40				

Frequencies

Statistics

		In General	Lighting	Heating & cooling	Energy harvesting systems	Ventilation & Air Quality	Acoustics
N	Valid	40	43	43	44	43	43
	Missing	5	2	2	1	2	2

Frequency Table

In General (Knowledge of Intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	1	2.2	2.5	2.5
	2	2	4.4	5.0	7.5
	3	4	8.9	10.0	17.5
	4	10	22.2	25.0	42.5
	5	13	28.9	32.5	75.0
	6	10	22.2	25.0	100.0
	Total	40	88.9	100.0	
Missing	7	1	2.2		
	System	4	8.9		
	Total	5	11.1		
Total		45	100.0		

Lighting (Knowledge of Intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.0	3	6.7	7.0	7.0
	3.0	2	4.4	4.7	11.6
	4.0	17	37.8	39.5	51.2
	5.0	12	26.7	27.9	79.1
	6.0	9	20.0	20.9	100.0
	Total	43	95.6	100.0	
Missing	7.0	1	2.2		
	System	1	2.2		
	Total	2	4.4		
Total		45	100.0		

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Heating & cooling (knowledge of intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	1	2.2	2.3	2.3
	2.0	3	6.7	7.0	9.3
	3.0	4	8.9	9.3	18.6
	4.0	10	22.2	23.3	41.9
	5.0	14	31.1	32.6	74.4
	6.0	11	24.4	25.6	100.0
	Total	43	95.6	100.0	
Missing	7.0	1	2.2		
	System	1	2.2		
	Total	2	4.4		
Total		45	100.0		

Energy harvesting systems (knowledge of intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	4.5	4.5
	2.0	3	6.7	6.8	11.4
	3.0	8	17.8	18.2	29.5
	4.0	6	13.3	13.6	43.2
	5.0	16	35.6	36.4	79.5
	6.0	9	20.0	20.5	100.0
	Total	44	97.8	100.0	
Missing	System	1	2.2		
Total		45	100.0		

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Ventilation & Air Quality (knowledge of intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	4.7	4.7
	3.0	11	24.4	25.6	30.2
	4.0	10	22.2	23.3	53.5
	5.0	12	26.7	27.9	81.4
	6.0	8	17.8	18.6	100.0
	Total	43	95.6	100.0	
Missing	7.0	1	2.2		
	System	1	2.2		
	Total	2	4.4		
Total		45	100.0		

Acoustics (knowledge of intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	4.7	4.7
	2.0	7	15.6	16.3	20.9
	3.0	10	22.2	23.3	44.2
	4.0	10	22.2	23.3	67.4
	5.0	11	24.4	25.6	93.0
	6.0	3	6.7	7.0	100.0
	Total	43	95.6	100.0	
Missing	7.0	1	2.2		
	System	1	2.2		
	Total	2	4.4		
Total		45	100.0		

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5. How successful do you feel CIRS has been in achieving the design intent of systems in CIRS? Note that we are using design intent to mean the design goals, intended system functioning, and the performance that the project was intended to achieve.

With this question we hope to uncover whether there is a gap between how inhabitants view the building as functioning and the performance of systems at CIRS to date.

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
In General	39	1.0	6.0	4.333	1.2212
Lighting	41	1.0	6.0	4.146	1.3334
Heating & cooling	40	1.0	6.0	4.325	1.3471
Energy harvesting systems	31	1.0	6.0	4.258	1.4825
Ventilation & Air Quality	40	1.0	6.0	4.425	1.1742
Acoustics	36	1.0	6.0	3.306	1.4701
Valid N (listwise)	27				

Frequencies

Statistics

		In General	Lighting	Heating & cooling	Energy harvesting systems	Ventilation & Air Quality	Acoustics
N	Valid	39	41	40	31	40	36
	Missing	6	4	5	14	5	9

Frequency Table

In General (success in intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	1	2.2	2.6	2.6
	2.0	3	6.7	7.7	10.3
	3.0	3	6.7	7.7	17.9
	4.0	13	28.9	33.3	51.3
	5.0	13	28.9	33.3	84.6
	6.0	6	13.3	15.4	100.0
	Total	39	86.7	100.0	
Missing	7.0	3	6.7		
	System	3	6.7		
	Total	6	13.3		
Total		45	100.0		

Lighting (success in intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	1	2.2	2.4	2.4
	2.0	5	11.1	12.2	14.6
	3.0	5	11.1	12.2	26.8
	4.0	13	28.9	31.7	58.5
	5.0	10	22.2	24.4	82.9
	6.0	7	15.6	17.1	100.0
	Total	41	91.1	100.0	
Missing	7.0	3	6.7		
	System	1	2.2		
	Total	4	8.9		
Total		45	100.0		

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Heating & cooling (success in intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	5.0	5.0
	2.0	2	4.4	5.0	10.0
	3.0	7	15.6	17.5	27.5
	4.0	5	11.1	12.5	40.0
	5.0	18	40.0	45.0	85.0
	6.0	6	13.3	15.0	100.0
	Total	40	88.9	100.0	
Missing	7.0	3	6.7		
	System	2	4.4		
	Total	5	11.1		
Total		45	100.0		

Energy harvesting systems (success in intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	3	6.7	9.7	9.7
	2.0	1	2.2	3.2	12.9
	3.0	3	6.7	9.7	22.6
	4.0	8	17.8	25.8	48.4
	5.0	10	22.2	32.3	80.6
	6.0	6	13.3	19.4	100.0
	Total	31	68.9	100.0	
Missing	7.0	13	28.9		
	System	1	2.2		
	Total	14	31.1		
Total		45	100.0		

Ventilation & Air Quality (success in intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	2	4.4	5.0	5.0
	2.0	1	2.2	2.5	7.5
	3.0	2	4.4	5.0	12.5
	4.0	13	28.9	32.5	45.0
	5.0	17	37.8	42.5	87.5
	6.0	5	11.1	12.5	100.0
	Total	40	88.9	100.0	
Missing	7.0	4	8.9		
	System	1	2.2		
	Total	5	11.1		
Total		45	100.0		

Acoustics (success in intent)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	7	15.6	19.4	19.4
	2.0	3	6.7	8.3	27.8
	3.0	7	15.6	19.4	47.2
	4.0	11	24.4	30.6	77.8
	5.0	7	15.6	19.4	97.2
	6.0	1	2.2	2.8	100.0
	Total	36	80.0	100.0	
Missing	7.0	7	15.6		
	System	2	4.4		
	Total	9	20.0		
Total		45	100.0		

7. How effectively do you feel the systems in CIRS allow inhabitants to monitor their environment? (such as knowing how much energy has been used or how many people are in the building)

With this question we hope to uncover whether inhabitants feel their ability to monitor their environment and the building is adequate. Note that this question does not necessarily imply that specific monitoring capabilities are available.

Descriptives

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
In General	35	1.0	5.0	2.314	1.4095
Lighting	37	1.0	5.0	2.216	1.3152
Heating & cooling	37	1.0	5.0	2.216	1.3771
Ventilation & Air Quality	37	1.0	6.0	2.432	1.5553
Acoustics	35	1.0	6.0	2.200	1.3677
Valid N (listwise)	33				

Frequencies

Statistics						
		In General	Lighting	Heating & cooling	Ventilation & Air Quality	Acoustics
N	Valid	35	37	37	37	35
	Missing	10	8	8	8	10

|

Frequency Table

In General (effective monitoring)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	15	33.3	42.9	42.9
	2.0	5	11.1	14.3	57.1
	3.0	8	17.8	22.9	80.0
	4.0	3	6.7	8.6	88.6
	5.0	4	8.9	11.4	100.0
	Total	35	77.8	100.0	
Missing	.0	1	2.2		
	7.0	5	11.1		
	System	4	8.9		
	Total	10	22.2		
Total		45	100.0		

Lighting (effective monitoring)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	16	35.6	43.2	43.2
	2.0	6	13.3	16.2	59.5
	3.0	9	20.0	24.3	83.8
	4.0	3	6.7	8.1	91.9
	5.0	3	6.7	8.1	100.0
	Total	37	82.2	100.0	
Missing	.0	1	2.2		
	7.0	5	11.1		
	System	2	4.4		
	Total	8	17.8		
Total		45	100.0		

Heating & cooling (effective monitoring)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	17	37.8	45.9	45.9
	2.0	5	11.1	13.5	59.5
	3.0	9	20.0	24.3	83.8
	4.0	2	4.4	5.4	89.2
	5.0	4	8.9	10.8	100.0
	Total	37	82.2	100.0	
Missing	.0	1	2.2		
	7.0	5	11.1		
	System	2	4.4		
	Total	8	17.8		
Total		45	100.0		

Ventilation & Air Quality (effective monitoring)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	16	35.6	43.2	43.2
	2.0	4	8.9	10.8	54.1
	3.0	8	17.8	21.6	75.7
	4.0	5	11.1	13.5	89.2
	5.0	2	4.4	5.4	94.6
	6.0	2	4.4	5.4	100.0
	Total	37	82.2	100.0	
	Missing				
Missing	.0	1	2.2		
	7.0	5	11.1		
	System	2	4.4		
	Total	8	17.8		
Total		45	100.0		

Acoustics (effective monitoring)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	16	35.6	45.7	45.7
	2.0	6	13.3	17.1	62.9
	3.0	5	11.1	14.3	77.1
	4.0	7	15.6	20.0	97.1
	6.0	1	2.2	2.9	100.0
	Total	35	77.8	100.0	
Missing	.0	1	2.2		
	7.0	7	15.6		
	System	2	4.4		
	Total	10	22.2		
Total		45	100.0		

14. The CIRS design team specified as a design goal to “provide feedback to building inhabitants as to how their behaviour affects energy, water, and material use” How well do you feel the current feedback system in CIRS achieves this goal?

With this question we hope to uncover inhabitants’ viewpoint on whether this goal is being achieved. Additional comments are helpful.

Descriptives

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
In General	39	1.0	6.0	2.487	1.4667
With respect to energy use	39	1.0	6.0	2.359	1.3667
With respect to water use	39	1.0	6.0	2.333	1.3637
With respect to material use	38	1.0	6.0	2.342	1.4003
Valid N (listwise)	38				

Frequencies

Statistics					
		In General	With respect to energy use	With respect to water use	With respect to material use
N	Valid	39	39	39	38
	Missing	6	6	6	7

Frequency Table

In General (feedback goal)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	15	33.3	38.5	38.5
	2.0	6	13.3	15.4	53.8
	3.0	6	13.3	15.4	69.2
	4.0	9	20.0	23.1	92.3
	5.0	2	4.4	5.1	97.4
	6.0	1	2.2	2.6	100.0
	Total	39	86.7	100.0	
Missing	7.0	2	4.4		
	System	4	8.9		
	Total	6	13.3		
Total		45	100.0		

With respect to energy use (feedback goal)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	15	33.3	38.5	38.5
	2.0	7	15.6	17.9	56.4
	3.0	8	17.8	20.5	76.9
	4.0	7	15.6	17.9	94.9
	5.0	1	2.2	2.6	97.4
	6.0	1	2.2	2.6	100.0
	Total	39	86.7	100.0	
Missing	7.0	2	4.4		
	System	4	8.9		
	Total	6	13.3		
Total		45	100.0		

With respect to water use (feedback goal)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	15	33.3	38.5	38.5
	2.0	8	17.8	20.5	59.0
	3.0	7	15.6	17.9	76.9
	4.0	7	15.6	17.9	94.9
	5.0	1	2.2	2.6	97.4
	6.0	1	2.2	2.6	100.0
	Total	39	86.7	100.0	
Missing	7.0	2	4.4		
	System	4	8.9		
	Total	6	13.3		
Total		45	100.0		

With respect to material use (feedback goal)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	14	31.1	36.8	36.8
	2.0	10	22.2	26.3	63.2
	3.0	5	11.1	13.2	76.3
	4.0	6	13.3	15.8	92.1
	5.0	2	4.4	5.3	97.4
	6.0	1	2.2	2.6	100.0
	Total	38	84.4	100.0	
Missing	7.0	3	6.7		
	System	4	8.9		
	Total	7	15.6		
Total		45	100.0		

17. Based on the current configuration of controls and monitoring systems available to you at CIRS, to what extent do you feel you are able to influence whether CIRS is meeting its goals for inhabitant comfort and resource efficiency?

With this question we hope to uncover if inhabitants feel they are able to affect whether or not CIRS meets its design goals and whether the data provided to them is actionable for this goal.

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
With respect to comfort	37	1.0	6.0	3.216	1.5300
With respect to resource efficiency	38	1.0	5.0	2.921	1.4590
Valid N (listwise)	35				

Statistics

		With respect to comfort	With respect to resource efficiency
N	Valid	37	38
	Missing	8	7

With respect to comfort (influence goals achievement)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	7	15.6	18.9	18.9
	2.0	5	11.1	13.5	32.4
	3.0	8	17.8	21.6	54.1
	4.0	10	22.2	27.0	81.1
	5.0	4	8.9	10.8	91.9
	6.0	3	6.7	8.1	100.0
	Total	37	82.2	100.0	
Missing	7.0	3	6.7		
	System	5	11.1		
	Total	8	17.8		
Total		45	100.0		

With respect to resource efficiency (influence goals achievement)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	10	22.2	26.3	26.3
	2.0	5	11.1	13.2	39.5
	3.0	7	15.6	18.4	57.9
	4.0	10	22.2	26.3	84.2
	5.0	6	13.3	15.8	100.0
	Total	38	84.4	100.0	
Missing	.0	1	2.2		
	7.0	3	6.7		
	System	3	6.7		
	Total	7	15.6		
Total		45	100.0		

19. How effectively do you feel the systems in CIRS allow inhabitants to control their environment?

With this question we hope to uncover whether inhabitants feel the current controls systems available to them are adequate.

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Lighting Control	40	1.0	5.0	2.925	1.2276
Heating and cooling control	41	1.0	6.0	3.415	1.5649
Ventilation and Air Quality Control	40	1.0	6.0	3.750	1.6756
Acoustics Control	40	1.0	6.0	2.175	1.1959
Valid N (listwise)	40				

Frequencies

Statistics

		Lighting Control	Heating and cooling control	Ventilation and Air Quality Control	Acoustics Control
N	Valid	40	41	40	40
	Missing	5	4	5	5

Frequency Table

Lighting Control (effective control)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	7	15.6	17.5	17.5
	2.0	7	15.6	17.5	35.0
	3.0	11	24.4	27.5	62.5
	4.0	12	26.7	30.0	92.5
	5.0	3	6.7	7.5	100.0
	Total	40	88.9	100.0	
Missing	7.0	1	2.2		
	System	4	8.9		
	Total	5	11.1		
Total		45	100.0		

Heating and cooling control (effective control)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	7	15.6	17.1	17.1
	2.0	6	13.3	14.6	31.7
	3.0	4	8.9	9.8	41.5
	4.0	15	33.3	36.6	78.0
	5.0	5	11.1	12.2	90.2
	6.0	4	8.9	9.8	100.0
	Total	41	91.1	100.0	
Missing	System	4	8.9		
Total		45	100.0		

Ventilation and Air Quality Control (effective control)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	6	13.3	15.0	15.0
	2.0	4	8.9	10.0	25.0
	3.0	6	13.3	15.0	40.0
	4.0	9	20.0	22.5	62.5
	5.0	8	17.8	20.0	82.5
	6.0	7	15.6	17.5	100.0
	Total	40	88.9	100.0	
Missing	7.0	1	2.2		
	System	4	8.9		
	Total	5	11.1		
Total		45	100.0		

Acoustics Control (effective control)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	15	33.3	37.5	37.5
	2.0	10	22.2	25.0	62.5
	3.0	10	22.2	25.0	87.5
	4.0	4	8.9	10.0	97.5
	6.0	1	2.2	2.5	100.0
	Total	40	88.9	100.0	
Missing	7.0	1	2.2		
	System	4	8.9		
	Total	5	11.1		
Total		45	100.0		

22. CIRS has provided the following ways for inhabitants to learn about how the building has been designed and operated. Please let us know which of these options, if any, you have used in order to learn more about the building.

With this question we hope to uncover the current level of engagement with options available to inhabitants for learning about CIRS and whether inhabitants feel these options meet their needs.

Frequencies

Statistics

		Lunch and learns	The 'dashboard' displayed on the video wall in the main atrium	The 'building manual' available on the CIRS website	Informal conversations with colleagues in the building	Building tours
N	Valid	45	29	19	39	21
	Missing	0	16	26	6	24

Frequency Table

Lunch and learns

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	30	66.7	66.7	66.7
1	15	33.3	33.3	100.0
Total	45	100.0	100.0	

The 'dashboard' displayed on the video wall in the main atrium

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1.0	29	64.4	100.0	100.0
Missing System	16	35.6		
Total	45	100.0		

The 'building manual' available on the CIRS website

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	19	42.2	100.0	100.0
Missing	System	26	57.8		
Total		45	100.0		

Informal conversations with colleagues in the building

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	39	86.7	100.0	100.0
Missing	System	6	13.3		
Total		45	100.0		

Building tours

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.0	21	46.7	100.0	100.0
Missing	System	24	53.3		
Total		45	100.0		

25. How knowledgeable are you about how the technical systems in your own home work?

This question will be used in order to calibrate technical knowledge of inhabitants.

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Technical knowledge of my home's building systems	42	.0	6.0	3.595	1.4660
Valid N (listwise)	42				

Frequencies

Statistics

Technical knowledge of my home's building systems

N	Valid	42
	Missing	3

Technical knowledge of my home's building systems

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .0	1	2.2	2.4	2.4
1.0	3	6.7	7.1	9.5
2.0	4	8.9	9.5	19.0
3.0	12	26.7	28.6	47.6
4.0	10	22.2	23.8	71.4
5.0	8	17.8	19.0	90.5
6.0	4	8.9	9.5	100.0
Total	42	93.3	100.0	
Missing System	3	6.7		
Total	45	100.0		