



Perception of the Climate of Research Integrity in the National Health Sciences University, University of the Philippines Manila (Quantitative Phase)

8th World Conference on Research Integrity

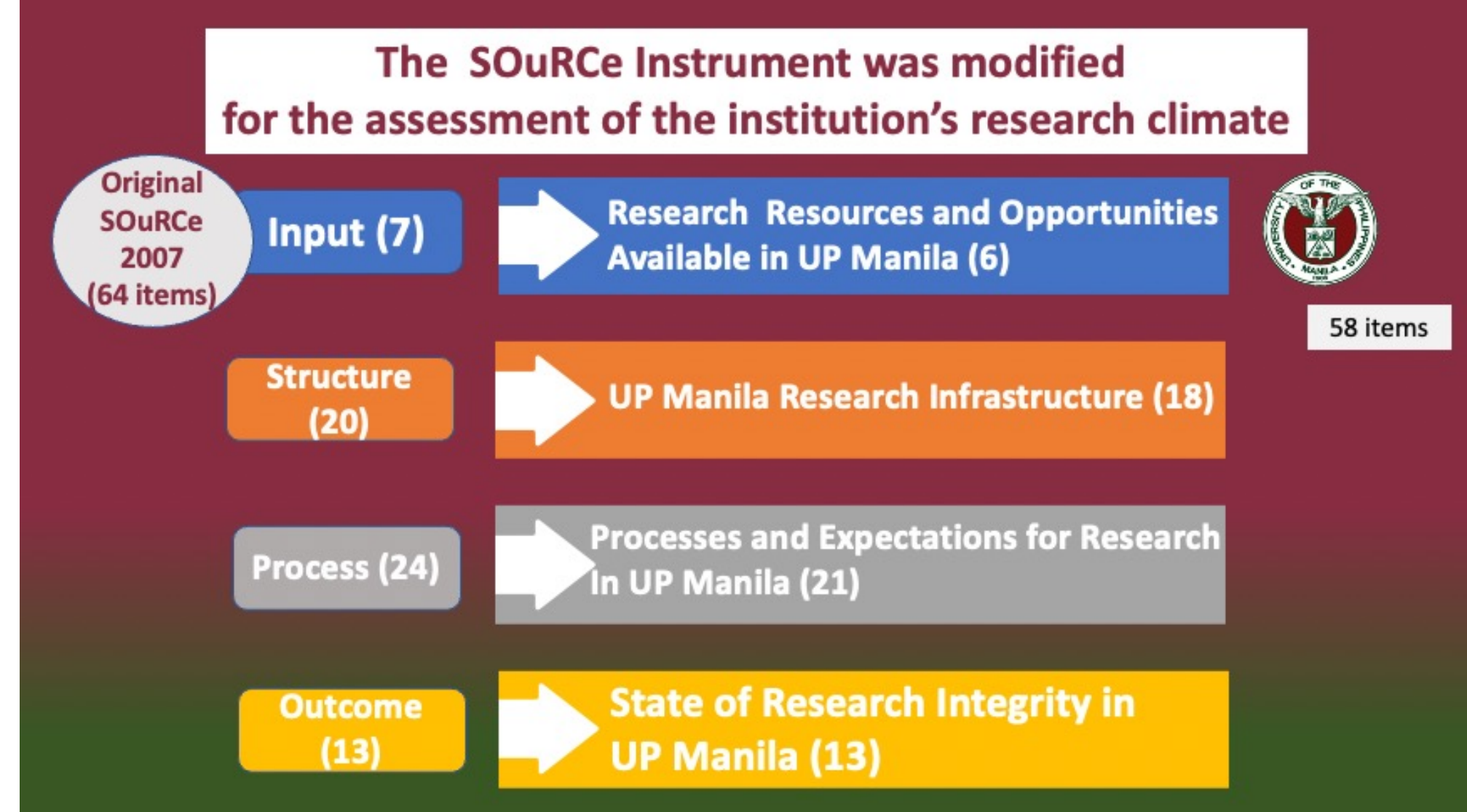
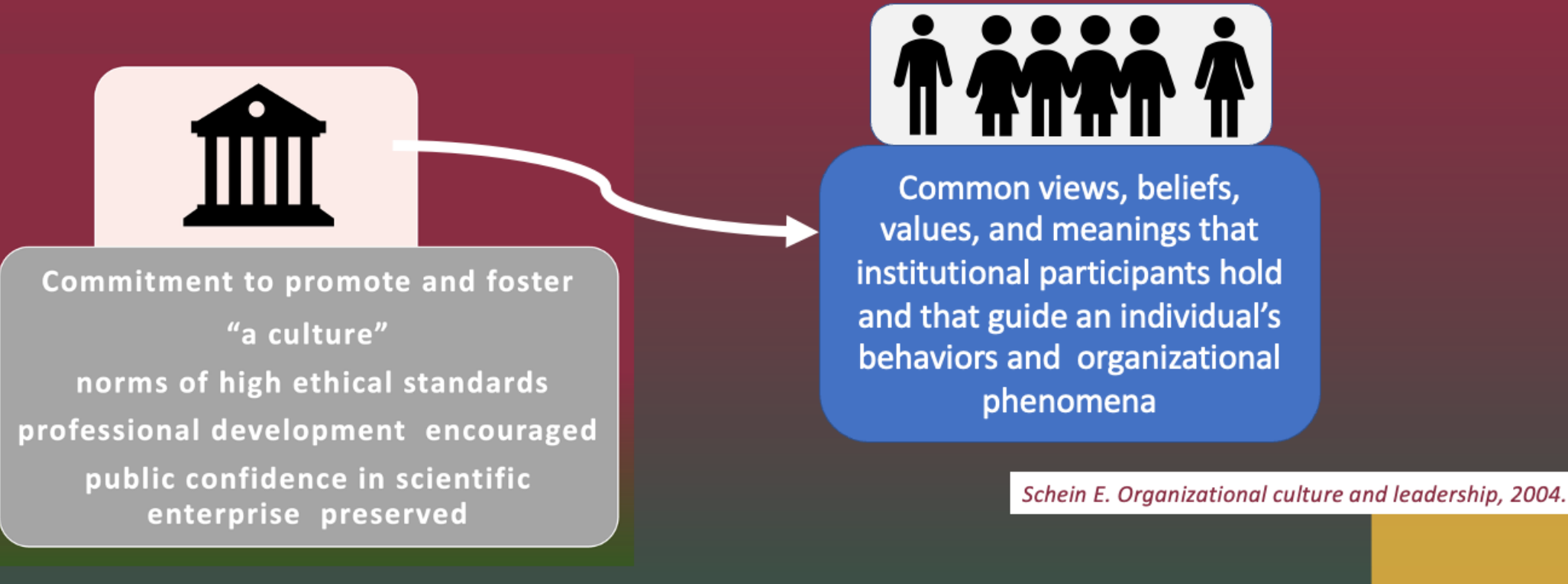
WORLD CONFERENCES ON RESEARCH INTEGRITY
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Background, Objectives, and Methodology

Results (Pilot testing and validation)

Organizational Climate



Results of construct validation and reliability testing (n=115)

Test/ Construct	Presence	Relevance
Overall Internal Consistency (Reliability) – Cronbach's alpha	97.52%	98.80%
Construct Validation through Factor Analysis	11 factors by Eigen Value 3 factors by Scree plot	5 factors by Eigen Value 2 factors by Scree plot

Use of a survey to establish organizational research climate (SOuRcE, Thrush CR 2007)

- The Survey of Organizational Research Climate
- Assesses research integrity climate to address risks to research integrity

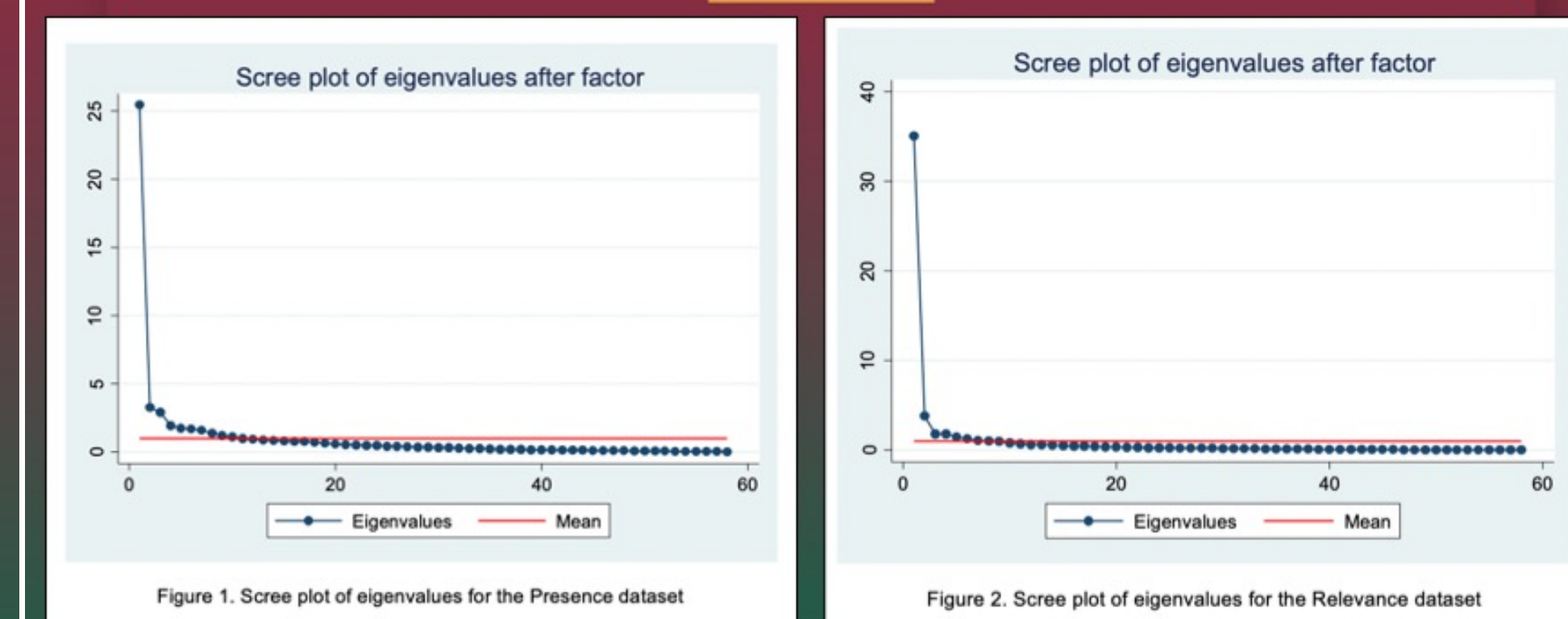
Domains	Number of Items
Ethical leadership	64 items in 4 domains
Socialization and communication processes	INPUT (7)
Policies	STRUCTURE (20)
Procedures	PROCESS (24)
Structures	OUTCOME (13)
Processes	

Modified SOuRcE Instrument of U.P. Manila to assess its research integrity climate

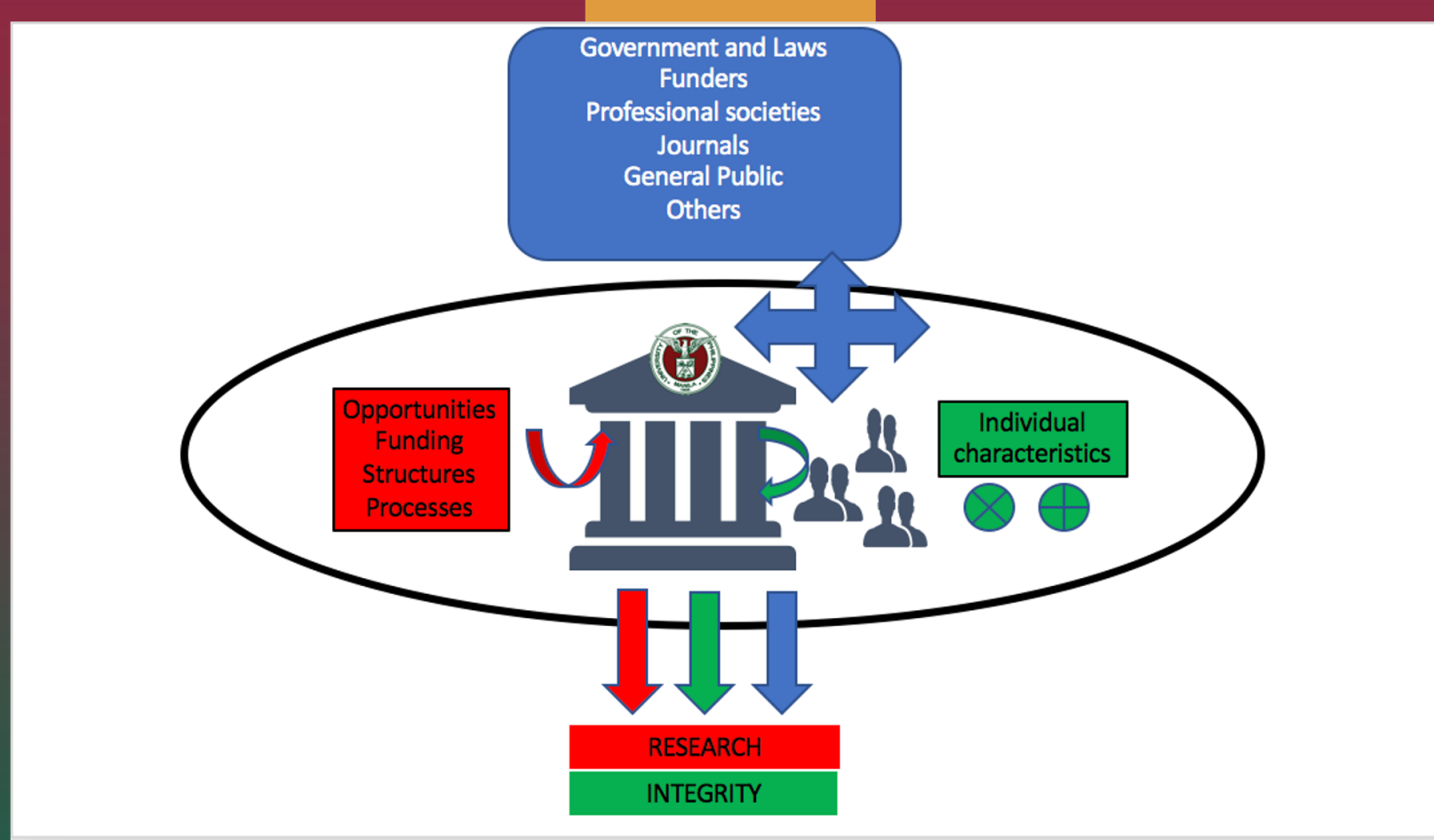
- Two scales
- Presence or absence
 - Relevance to ensure research integrity

DOMAINS	Number of Items (Total 58)
1. Research environment	13
2. Resources and systems	18
3. Capacity building	9
4. Collaborations	5
5. Communication, publication, dissemination and public recognition	9
6. Personal values	4

Test/ Construct	Presence	Relevance
Construct Validation through Factor Analysis	11 factors by Eigen Value 3 factors by Scree plot	5 factors by Eigen Value 2 factors by Scree plot



CONCEPTUAL FRAMEWORK



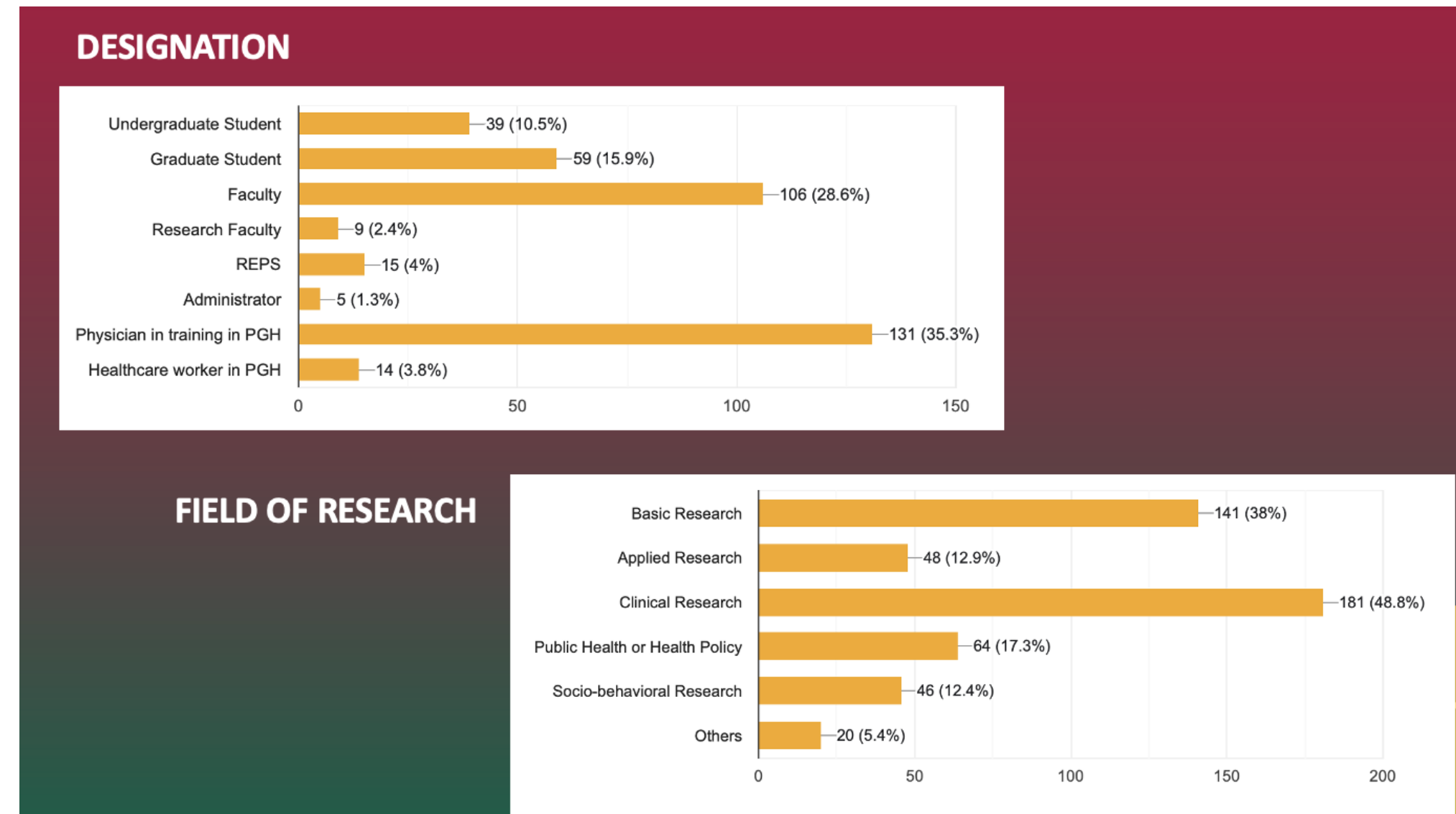
Results (Quantitative Phase)

OBJECTIVES

General Objective: To characterize the climate of research integrity among researchers in the University of the Philippines Manila

Specific Objectives:

- To adapt the SOuRcE survey tool to the study setting
- To assess the knowledge, attitude, and practice (KAP) of the university on research integrity
- To identify the association between perception of research integrity to academic ranks and fields of discipline



Other Demographics

- ❖ Age range: 15-74
- ❖ 60.9% female
39.1% male
- ❖ 29.9% had international research collaborations
- ❖ 83.6% were aware of RI concepts and issues

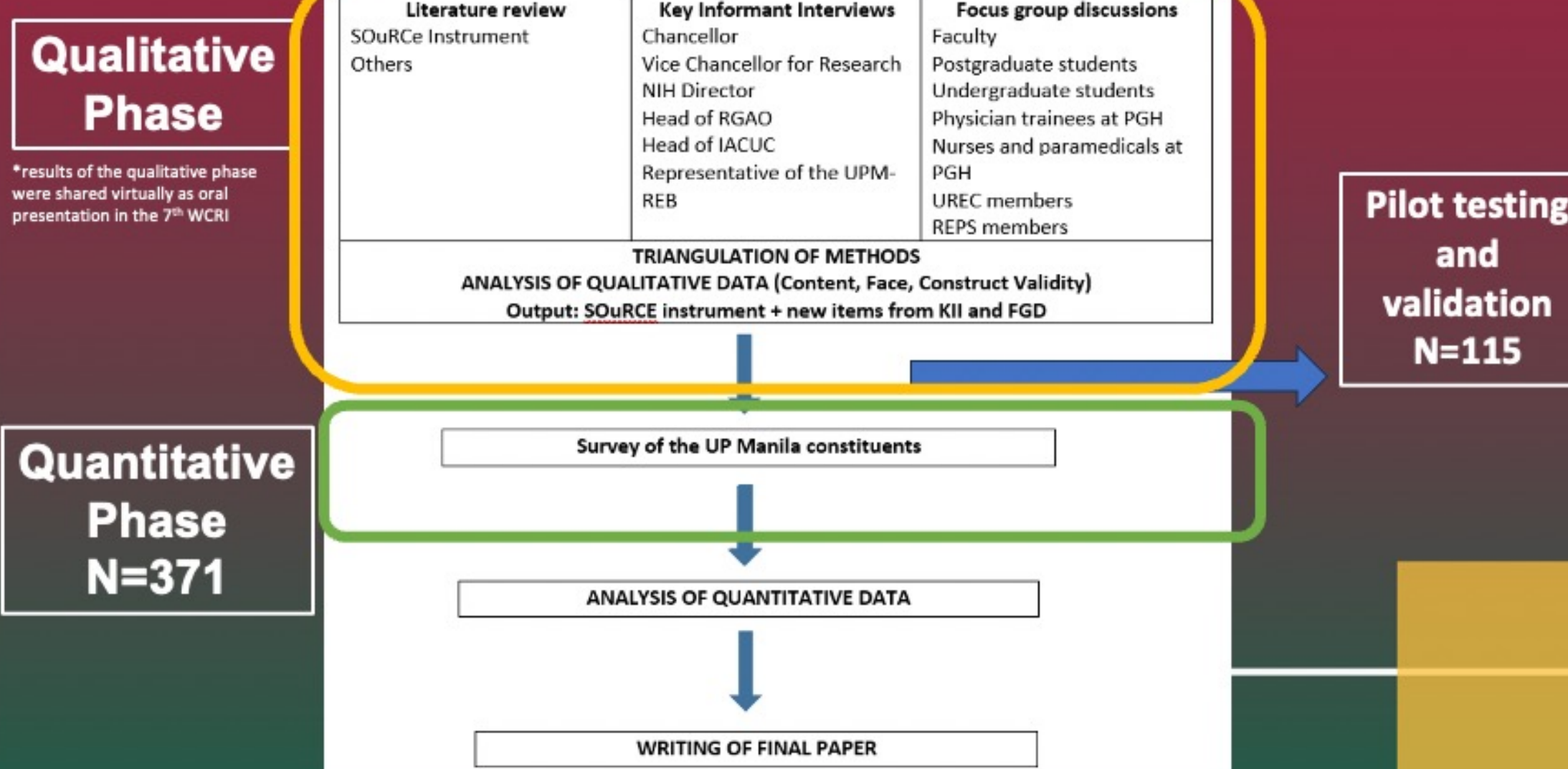
A total of 58 questions (in 6 domains) for presence and for relevance were categorized into three constructs namely:

- Knowledge (16 questions)
- Attitude (32 questions)
- Practice (10 questions)

Then, a principal component analysis (PCA) per construct was done. The first principal component, that is, the one with the highest eigenvalue, was used to produce summary scores which was then standardized between 0 to 4.

DOMAINS	Number of Items	Knowledge	Attitude	Practice
1. Research environment	13	-	10	3
2. Resources and systems	18	10	7	1
3. Capacity building	9	2	6	1
4. Collaborations	5	1	3	1
5. Communication, publication, dissemination and public recognition	9	3	2	4
6. Personal values	4	-	4	-
TOTAL	58	16	32	10

METHODOLOGY



Comparison of Knowledge, Attitude and Practice Scores by Academic Ranks and Fields of Discipline, n=371

	n (%)	2.77 Knowledge	3.24 Attitude (IQR)	3.2 Practice
Academic Ranks				
Faculty	115 (31.00)	2.70 (1.17)	3.08 (1.00)	3.14 (0.82)
Graduate Students	55 (14.82)	2.87 (1.84)	3.38 (1.59)	3.24 (1.30)
Undergraduate	38 (10.24)	3.00 (1.11)	3.49 (1.15)	3.41 (0.92)
HCW/Physician	143 (38.54)	2.73 (1.82)	3.18 (1.76)	3.12 (1.32)
Administrative/REPS	20 (5.39)	3.16 (0.79)	3.49 (0.61)	3.55 (0.64)
	p-value ¹	0.2115	0.1200	0.1354
Fields				
Pure Basic	96 (25.88)	2.73 (1.83)	3.31 (1.85)	3.20 (1.28)
Pure Applied	9 (2.43)	2.37 (1.28)	2.99 (1.24)	3.14 (0.87)
Pure Clinical	122 (32.88)	2.76 (1.61)	3.21 (1.19)	3.17 (1.05)
Multiple fields	130 (35.04)	2.80 (1.36)	3.18 (1.06)	3.20 (0.97)
Others	14 (3.77)	3.03 (0.89)	3.49 (0.66)	3.55 (0.50)
	p-value ¹	0.6440	0.8259	0.6683

¹Kruskal-Wallis test

- ❑ All medians above 2
- ❑ No significant differences by rank and field of research.
- ❑ The REPS had the highest KAP.
- ❑ The faculty was lowest for K and A while HCW/MDs in training were lowest for P.

CONCLUSION

- ✓ Generally, there is a high level of KAP among the constituents with all medians of at least 2. This reflects a good perception of the climate of research integrity.
- ✓ The highest level of KAP was demonstrated by the REPS.
- ✓ The lowest level of Knowledge and Attitude were with the faculty and the Practice were the HCW/MDs in training.