



UNIVERSIDAD DE MÁLAGA



TEEM '17

CONSTRUCTION OF A QUESTIONNAIRE TO KNOW THE TRANSPARENCY IN THE EVALUATION OF THE LEARNING OF ENGINEERING STUDENTS

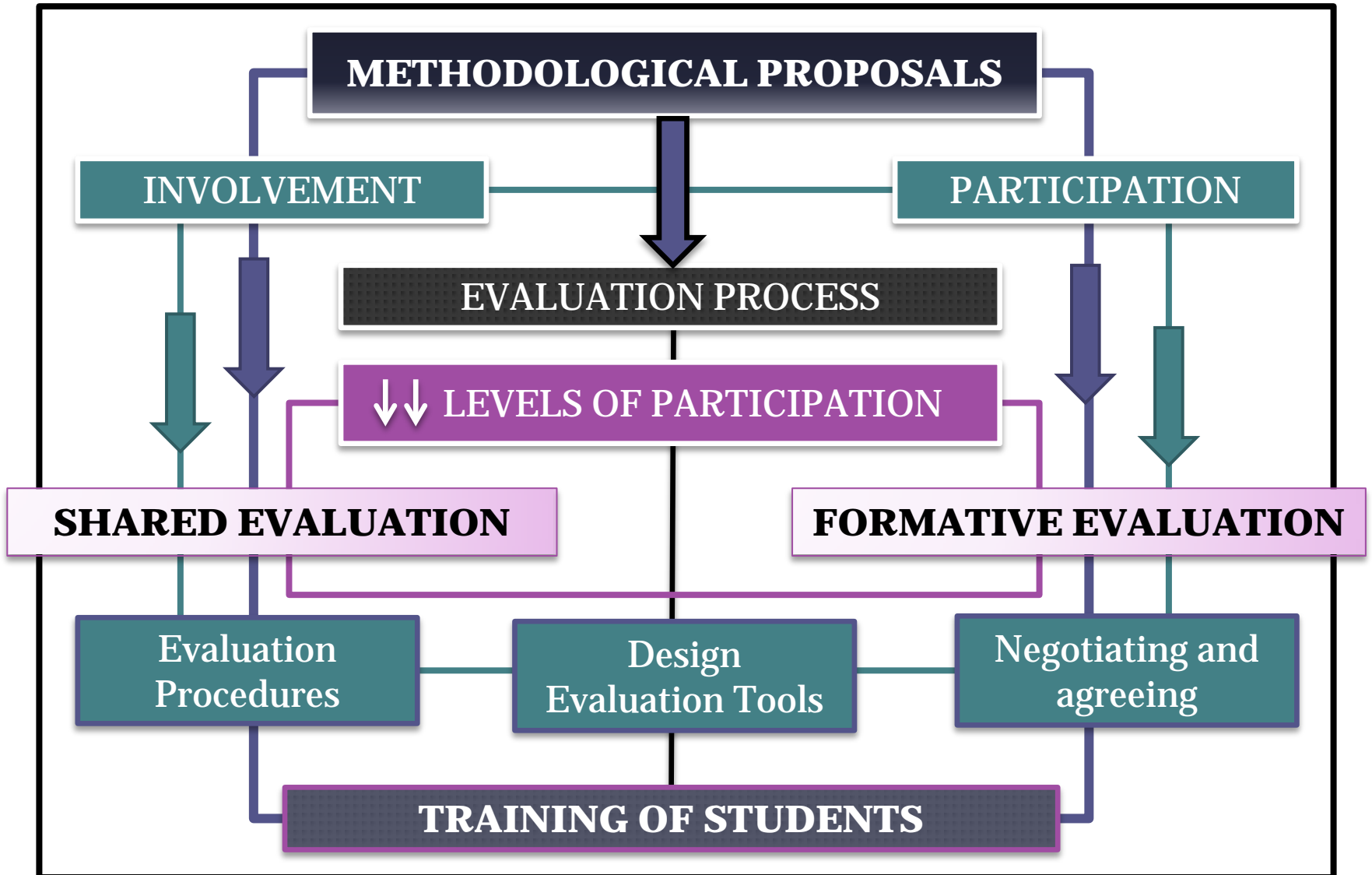
TEEM'2017

Track 3. Educational Assessment & Evaluation in Digital Society

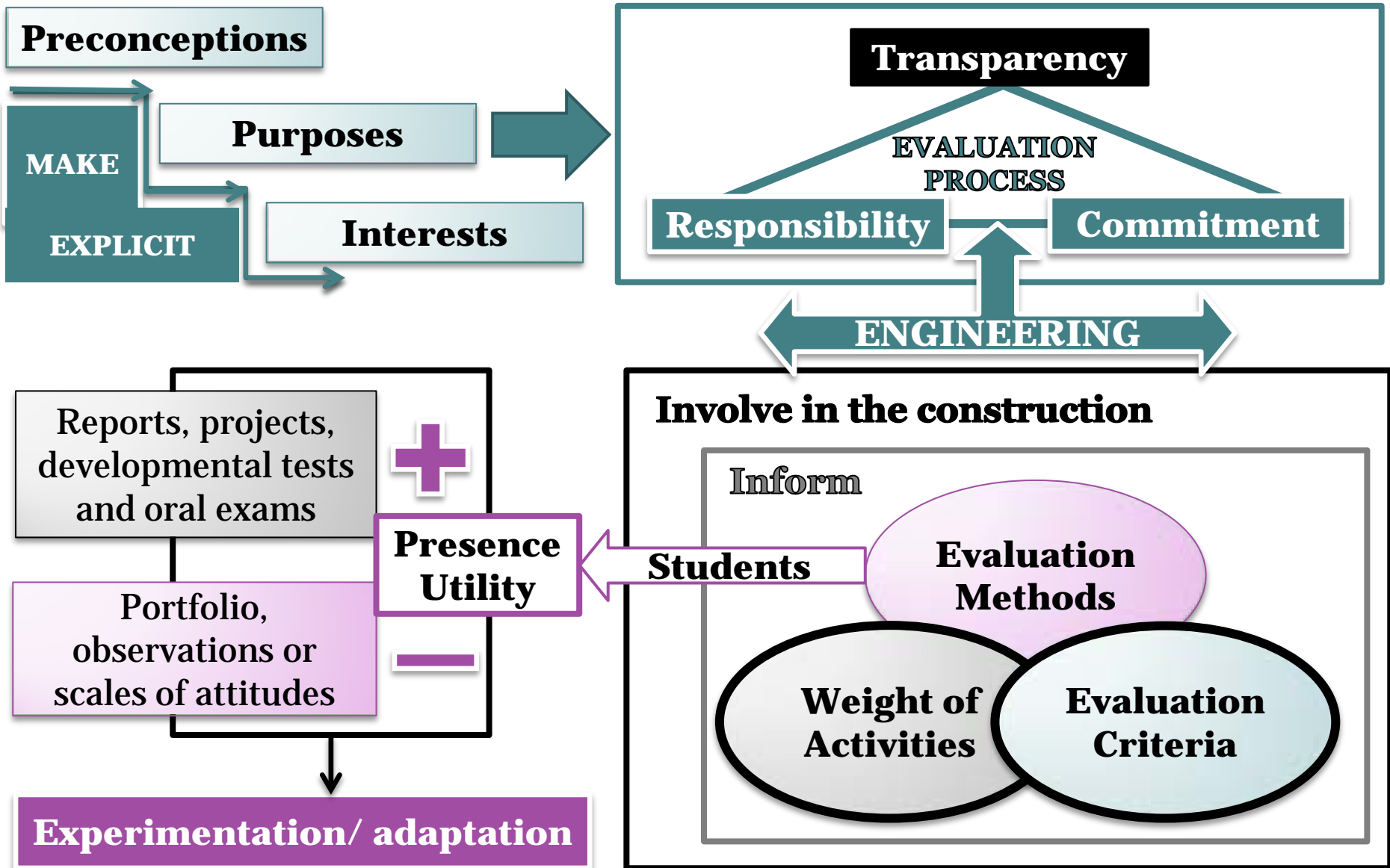
***Leticia C. Velasco Martínez
Juan Carlos Tójar Hurtado**

**Universidad de Málaga
*leticiav@uma.es**

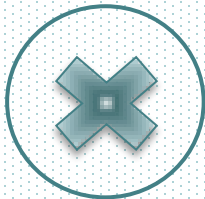
1. Introduction



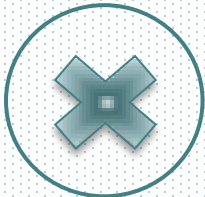
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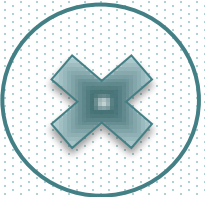
2. Objectives



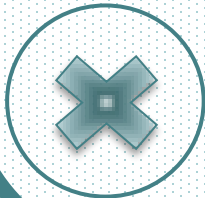
Construct an questionnaire about the transparency of the evaluation methods.



Conduct expert validation of the questionnaire.



Conduct a pilot study with students of degrees of engineering applying the questionnaire.



Analyze the reliability and validity and determined improvements.



3. Methods



Survey Methodology



Validation of the survey

Review

Scientific literature

Experts (n₁=5)

Pilot Study
↓
Reability & Validity Study

Categorical analysis

Factorial analysis

Cronbach Alpha coefficient

Sampling

Intentional

n₂ = 50
Engineering 4^o grade
UMA

Database

TELCOM

Industrial

66 items (7 Dimensions)

Likert scale

0 (totally disagree) to 5 (totally agree)

- 1) Transparency, involvement and accountability in evaluation.
- 2) Rating information level.
- 3) Characteristics of evaluation modalities.
- 4) Educator Feedback.
- 5) Educational resources and agents for acquiring learning.
- 6) Procedures, strategies and plans to guide the student's integral learning.
- 7) Availability of material resources used by educators.

4. Results

Validation of the experts and literature review
Redefining and better specifying several items



Cronbach Alpha coefficient

Factorial analysis



Categorical analysis (CATPCA)

↑ Internal Consistency
($\alpha = 0.923$)

19 Components.
Explained Variance
85.29%

7 dimensions.
↑ Internal Consistency
(α from .784 to .944).

4. Results



Survey Methodology



Validation of the survey

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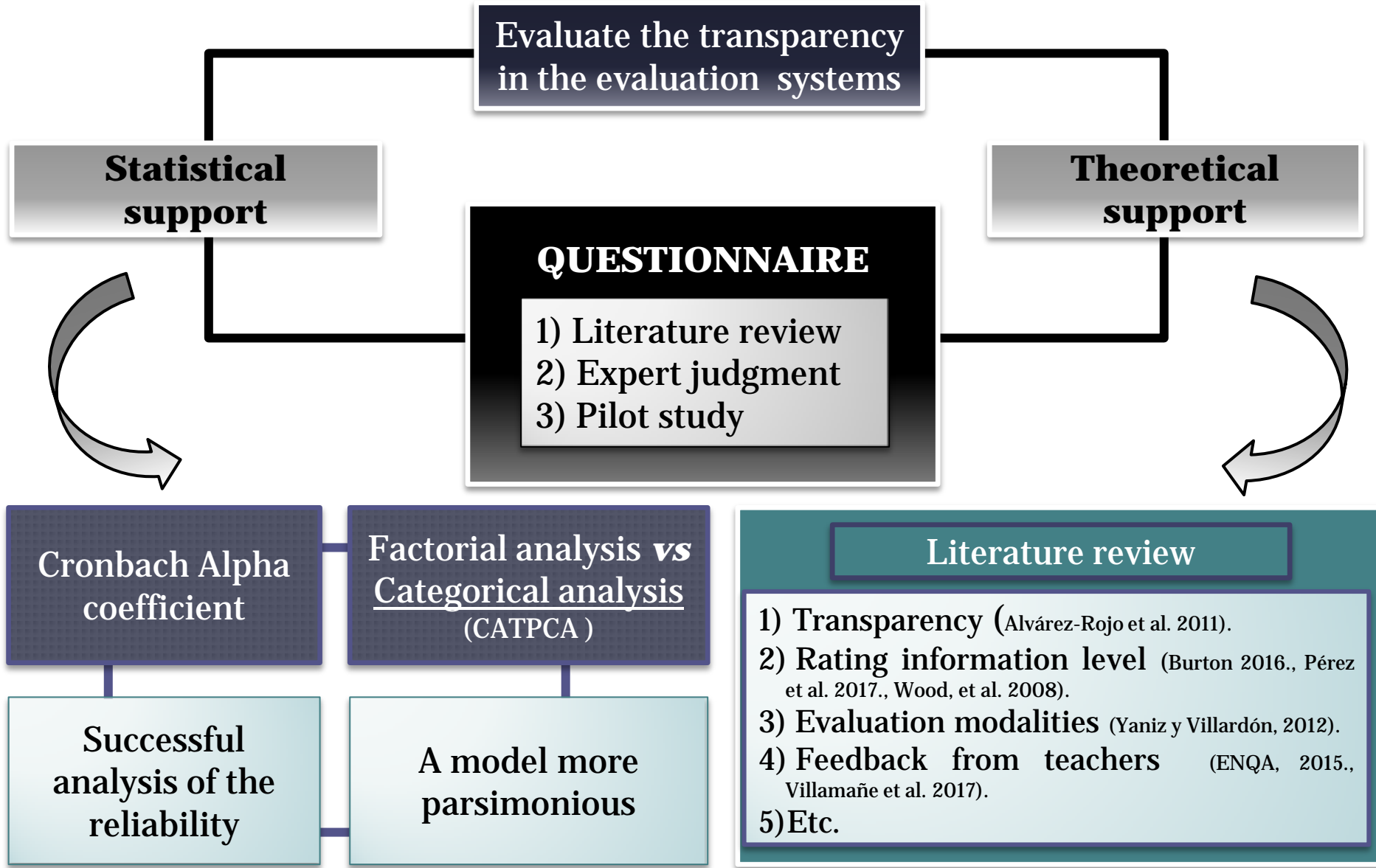
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5. Conclusions





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THANKS FOR YOUR ATTENTION

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