## Developing STEAM Educator's Proficiency Scoring Framework

Focus on:

How a Philippine higher education STEAM teacher would have an idea of his/her proficiency level?

## Ones proficiency level/profile depends entirely on the Survey without outside assumptions

- 60 items
- Questionnaire with no correct answer (elicits response on what is nearly true to oneself)
- Each item must have a unique response
- Covering 7 PPST domains including 7 TPACK dimensions
- 1507 STEAM teacher respondents

A sample item in the PPST's Content Knowledge and Pedagogy (Domain 1)

- Possesses content knowledge on STEAM.
- ☐ Always true to oneself
- ☐Often ...
- □Occasionally ...
- ☐ Rarely ...
- ☐ Not seen

A sample outcome (ones proficiency profile) appropriate for PPST's Domain 1

- ✓ Always true to oneself: 5/19 or 26%
- ✓ Often ...: 6/19 or 32%
- √ Occasionally ...: 4/19 or 21%
- ✓ Rarely ...: 3/19 or 16%
- ✓ Not seen: 1/19 or 5%

To gain any meaning and determine ones proficiency level, ones profile must be compared to the national STEAM proficiency profile. How is the national STEAM proficiency profile determined?

National STEAM proficiency profile in the PPST's Domain 1

✓ Distinguished: 37%

✓ Highly Proficient : 44%

✓ Proficient : 14%

✓ Beginner: 3%

✓ Not Observed: 2%

Comparison (taking the difference): ones rating minus (-) national rating Distinguished: -11% (national rating is greater than ones rating)

Highly Proficient: -12%

Proficient: 7%

Beginner: 13%

Not Observed: 3%

## Favorable Characteristic of the Scoring Framework:

- Adoptable provided the survey have no wrong and correct responses
- Results are valid provided one and only one response is allowed
- Internally rigorous without need for external assumptions

## Thank you very much!