Guidleline for Non-Tradtional Reseacrh Outputs NTROs Assessment in Malaysia

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Abstract: The development of Non-traditional Research Outputs (NTROs) guideline is initially driven by the desire to ensure inclusiveness of all researchers from diverse research disciplines especially in arts, humanities and social sciences. As evident from the current ranking assessment, research contributions from these disciplines are not significantly recognized. Globally, efforts to integrate NTROs in the assessment of research output has been fragmented and has not taken the center stage. However, as academic programs have become more eclectic , and research outputs become more diverse, inclusion of NTROs is not only timely but paramount to ensure sustainability of academic excellence. Building upon the NTROs guidelines from University of Sydney and Excellence in Research for Australia (ERA), this technical report outlines how alternative research outputs consisting multidisciplinary applied research and creative and practitioner-based research in arts, humanities and social science could be measured. The guideline development processes was started in August 2021 with a total of four cycles of revisions. Collaborative efforts from technical, public and private universities resulted in a customized NTROs guideline which is based on current non-traditional research outputs mostly found in Malaysian universities. Future technological platforms that might shape future research outputs are included. Eventually, the NTROs guideline consists of FOUR categories of non-traditional outputs which are Original Creative Works, Live Performance Creative Works, Recorded Creative Works and Curated Exhibitions or Events. Recommendation of NTROs equivalence in MyRA Glossary is also included.

Keywords: NTROs, arts, humanities, social sciences

Guideline for Non-Traditional Research Outputs NTROs Assessment in Malaysia

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EXECUTIVE SUMMARY

The development of Non-traditional Research Outputs (NTROs) guideline is initially driven by the desire to ensure inclusiveness of all researchers from diverse research disciplines especially in arts, humanities and social sciences. As evident from the current ranking assessment, research contributions from these disciplines are not significantly recognized. Globally, efforts to integrate NTROs in the assessment of research output has been fragmented and has not taken the center stage. However, as academic programs have become more eclectic , and research outputs become more diverse, inclusion of NTROs is not only timely but paramount to ensure sustainability of academic excellence. Building upon the NTROs guidelines from University of Sydney and Excellence in Research for Australia (ERA), this technical report outlines how alternative research outputs consisting multidisciplinary applied research and creative and practitioner-based research in arts, humanities and social science could be measured. The guideline development processes was started in August 2021 with a total of four cycles of revisions. Collaborative efforts from technical, public and private universities resulted in a customized NTROs guideline which is based on current non-traditional research outputs mostly found in Malaysian universities. Future technological platforms that might shape future research outputs are included. Eventually, the NTROs guideline consists of FOUR categories of non-traditional outputs which are Original Creative Works, Live Performance Creative Works, Recorded Creative Works and Curated Exhibitions or Events. Recommendation of NTROs equivalence in MyRA Glossary is also included.

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NTROs RUBRIC DEVELOPMENT TIMELINE AND ACTIVITIES

DECEMBER 2021

Explanation of NTROs at the faculty level

DECEMBER 2021

Draft mapping of NTROs empowerment strategy in UTHM

FEBRUARY 2022

Discussion of NTROs empowerment strategy in UTHM

18 NOVEMBER 2021

Final verification workshop

27 OCTOBER 2021

2nd Round – Presentation and discussion with external advisors

2 SEPTEMBER 2021

1st Round – Draft Rubric NTROs)

20 October 2021

2nd Round – Presentation and discussion with external advisors

5 AUGUST 2021

Preliminary discussion with faculties' Deputy Dean (Research, Development & Publication) and establishment of taskforce)

21 APRIL 2021

KPT MyRA task force raise up issues on MyRA Glossary improvement by inclusive of NTROs (UTHM TNCPI was commissioned to lead NTROs)

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GUIDELINE OF NON-TRADITIONAL RESEARCH OUTPUTS (NTROs)

A. ORIGINAL CREATIVE WORKS

DETAILS	DEFINITION	RESEARCH CONTRIBUTION	RESEARCH SIGNIFICANCE	
			EVIDENCE OF EXCELLENCE	EVIDENCE OF PEER REVIEW
Design Works	Realised, constructed, fabricated, or unrealised design and building projects Other types of designs which include; i. Architectural Design ii. Landscape Design iii. Interior design iv. Industrial design v. Product design vi. Furniture design vii. Ceramic design viii. Textile design ix. Graphic design x. Food design xi. Fashion design xii. Props and Stage Design	**Advancement or Expansion of Knowledge** The creation of new and original works, both realised and unrealised, that extends knowledge and design typologies. OR/AND **Innovation** Design and architecture that exhibits originality in at least one of the following criteria; i. Challenging disciplinary conventions ii. New and highly innovative approaches/ techniques iii. Addressing existing issues in new ways iv. Creating unusual combinations of media/ materials	**Documentation** in the forms of; i. Concept Design ii. Schematic Design iii. Scale Design iv. Model v. Prototype vi. Fabrication AND Evidence that the design works have been disseminated to the **public** in the forms of; i. Creative Commons ii. Open Source entities iii. Exhibition or publication in a venue recognized nationally or internationally by peers in the disciplines	At least **TWO (2)** subject matter experts (at least one must have field experience) endorsement in terms of quality and excellence following the rubric as follows; i. Originality ii. Complexity/ Sophistication in structure or scale iii. Systematic Approach - synthesis or extension of existing concept/ approaches/ repertoire/ inter-relationships iv. Degree of influence among peers in field v. Cultural Significance

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NTROs EQUIVALENCES IN MyRA GLOSSARY

PROPOSED NTROs ASSIMILATIONS STRATEGIES IN MyRA

As shown from the current ranking Malaysia Research Assessment Instrument (MyRA), Non-Traditional Research contributions from arts, humanities and social sciences disciplines are not significantly recognized.

To ensure the inclusiveness of Non-traditional Research Outputs (NTROs) in MyRA assessment, there are three (3) NTROs assimilation strategies proposed as shown in Table 4.

Table 4: Proposed NTROs Assimilations Strategy in MyRA

	A: Equivalence in MyRA Glossary	B: Addition of NTROs in E&F Section Only	C: Addition of NTROs in I Section (New)
Involved charges of the MyRA scoring system	X	X	/
Involved changes and addition of MyRA glossory	/	/	/
Enhancement of MyRA rating for non-research universities	/	/	X

The first strategy involved identifying the equivalence of non-traditional research outputs (NTROs) for each sub-section in MyRA. This implies one-to-one alternative for each traditional research outcome and their respective NTROs.

The second strategy involved expansion/addition of glossary for non-traditional research outputs (NTROs) in Section E and Section F only. This strategy would not affect the present MyRA scoring system as changes involved MyRA glossary only. However, it would improve the MyRA rating and scoring for non-research universities.

The last strategy is forming a new Section (Section 1) in MyRA glossary inclusion of non-traditional research outputs. This strategy would significantly change the MyRA scoring system and affect the MyRA rating of universities.
After several discussion, the first strategy was chosen as the best strategy for inclusion of NTROs in MyRA. Recommendation of NTROs equivalance in MyRA Glossary is shown in following pages.

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SURVEY FEEDBACK ON NTROs GUIDELINE

PARTICIPATING UNIVERSITIES IN NTROs GUIDELINE SURVEY

Name of Participating Universities:

1. Research Universities
   i. Universiti Sains Malaysia (USM)
   ii. Universiti Teknologi Malaysia (UTM)

2. Public Universities
   i. Akademi Seni Budaya dan Warisan Kebangsaan (ASWARA)
   ii. National Defence University of Malaysia (UPNM)
   iii. Sultan Idris education university (UPSI)
   iv. Universiti Malaysia Perlis (UniMAP)
   v. Universiti Malaysia Kelantan (UMK)
   vi. Universiti Malaysia Sarawak (UNIMAS)
   vii. Universiti Malaysia Terengganu (UMT)
   viii. Universiti Sains Islam Malaysia (USIM)
   ix. Universiti Teknologi MARA (UiTM)
   x. Universiti Teknikal Malaysia Melaka (UTeM)

3. Private Universities
   i. University of Nottingham Malaysia
   ii. University of Portsmouth
   iii. Universiti Kuala Lumpur (UniKL)
   iv. Tunku Abdul Rahman University College
   v. UCSI University
   vi. Perdana University
   vii. Manipal International University
   viii. Kolej Universiti Islam Antarabangsa Selangor (KUIS)
   ix. Kolej Universiti Islam Melaka (KUIM)
   x. Kolej Universiti Islam Perlis (KUIPs)
   xi. KPJ University College
   xii. AIMST University

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APPENDIX

APPENDIX OF NTROs RUBRIC

APPENDIX A

1. Majlis Rekabentuk Malaysia (MRM)
2. Persatuan Pereka Perindustrian Malaysia (PEREKA)
3. Intelectual Property Corporation of Malaysia (MyIPO)
4. Malaysia Board of Technologists (MBOT)
5. Jabatan Kebudayaan dan Kesenian Negara (JKKN)
6. Pertubuhan Akitek Malaysia (PAM)/ Lembaga Arkitek Malaysia (LAM)
7. Galleries listed in Cultural Economy Development Agency (CENDANA)
8. Balai Seni Negara
9. Kraftangan Malaysia
10. Federation of Malaysian Fashion, Textile and Apparel (FMFTA)

APPENDIX B

1. Intelectual Property Corporation of Malaysia (MyIPO)
2. Malaysia Board of Technologists (MBOT)
3. Jabatan Kebudayaan dan Kesenian Negara (JKKN)
4. Pertubuhan Akitek Malaysia (PAM)/ Lembaga Arkitek Malaysia (LAM)

APPENDIX C

1. Public Performance Malaysia (PPM)
2. Persatuan Karyawan Malaysia (Karyawan)
3. Recording Industry Association of Malaysia (RIM)

APPENDIX D

1. Intelectual Property Corporation of Malaysia (MyIPO)
2. World Intellectual Property Organization (WIPO)
3. Malaysian Communication and Multimedia Commission (MCMC)

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SUMMARY

This technical report provides details on the development of NTROs to ensure the inclusiveness of all researchers from various fields. This process has been illuminating and challenging to the taskforces and it is hoped to be recognized as a way forward for a more robust assessment of research output. This report could be used as a guideline for other universities to develop their own measure of NTROs.

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