



UMS
UNIVERSITI MALAYSIA SABAH



EXPLORING

THINKING TOOLS FOR

KNOWLEDGE CREATION PROCESS

The future is already here!

**MARCH 25TH, 2021,
THURSDAY, 1430PM**



Link: meet.google.com/owk-qhnb-wam

All postgraduate students and staffs are invited!

FEATURED SPEAKER:



Prof. Ts. Dr. Rahinah Ibrahim
Department of Architecture,
Faculty of Design & Architecture,
Universiti Putra Malaysia

Presentation Overview

- About Speaker
- The PhD Challenges
- The E.A.G.L.E. Story
- E.A.G.L.E. Initiatives
- Moving on to ENos
- A Knowledge Creation Journey



“

**DISCOVERY is seeing what everybody else has seen,
and thinking what nobody else has thought**

- Albert Szent-Gyorgi

Speaker Information

Prof Ts. Dr. Rahinah Ibrahim

Professor, Dept of Architecture, Faculty of Design & Architecture,
Universiti Putra Malaysia

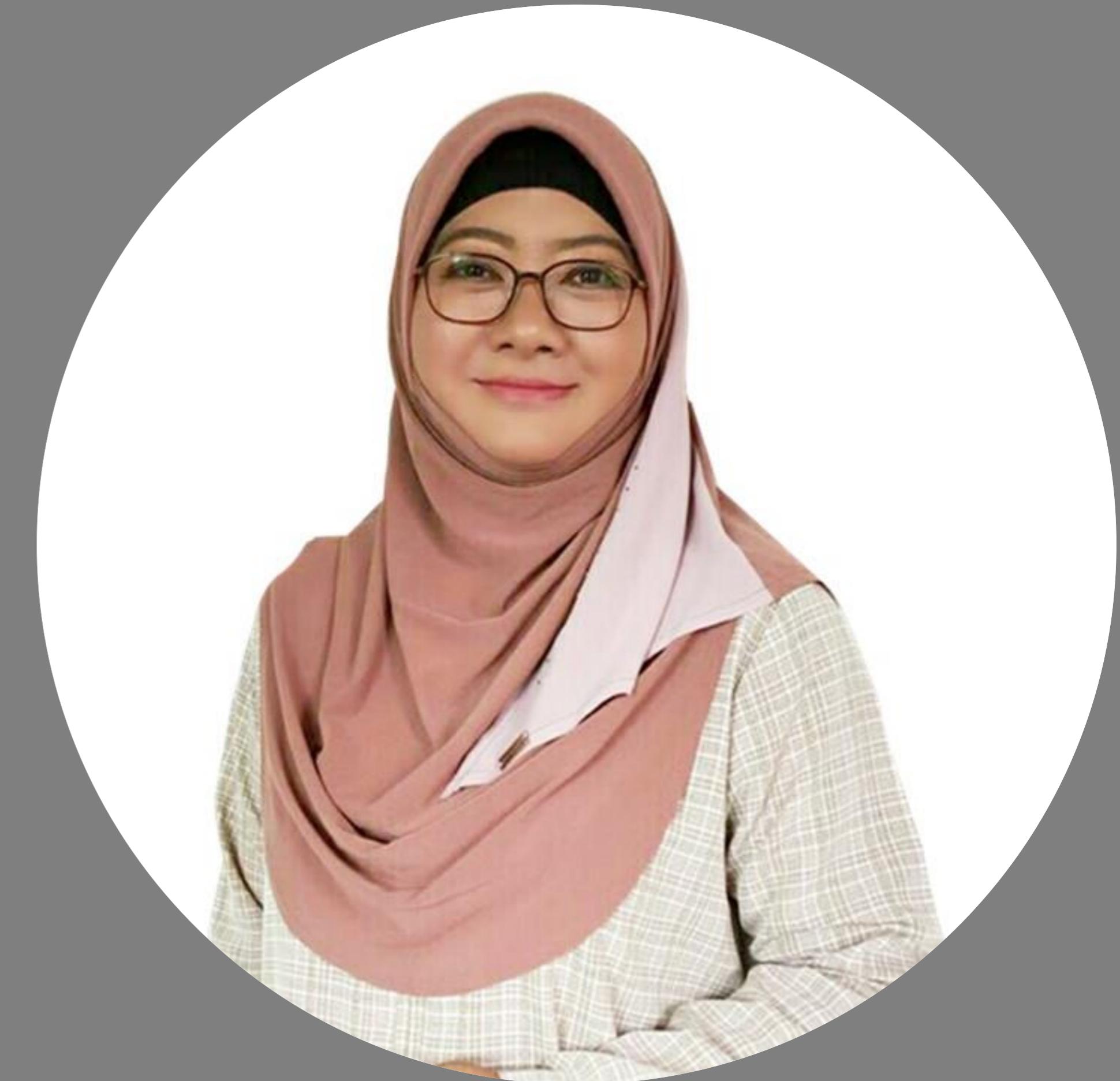
Principal Inventor, E.A.G.L.E. Program & ENos Platform

PhD (Construction Engineering & Management), Stanford '05

Engineer (Construction Engineering & Management), Stanford '01

M.Architecture, SCI-Arc '90;

B.A. (Architecture), University of Washington '87



Rahinah Ibrahim

Speaker Information

- 7 years industry, 22 years academia
- Fellow, Leaders in Innovation Fellowship, Newton-Ungku Omar Program 2018/2019
- Recipient, National Academic Award 2013
- Recipient, Top Research Scientists Malaysia 2012 & 2018
- Ethnographer - Skill to dissect and translate cognitive behaviour based on socio-cultural and environmental context
- Graduated 16 PhD/14 MSc students over 15 years
- 22++ IPs profiled at more than 50 countries; 3 IPs commercialized
- 3 students had Stanford Professors examiners
- Alumni employed in UK, New Zealand, Australia, USA, Canada, Ireland and German.
- SCOPUS H-Index 10





UPM - AT A GLIMPSE

146
DEGREE
PROGRAMMES

26,000
40%
17%

STUDENTS FROM
60 COUNTRIES
GRADUATES STUDENTS
INTERNATIONAL STUDENTS

3000 HECTARES
MAIN CAMPUS
+ BRANCH

1640
ACADEMIC
STAFF

16 FACULTIES
10 INSTITUTES
1 SCHOOLS
1 ACADEMY

100
STUDENT
ORGANISATIONS

140
NATIONAL
ATHLETES



(Picture & Source: Putra Science Park, Universiti Putra Malaysia)

PhD Journey

Challenges & Trials



Challenges faced



Institutional Challenges

Institutional goals and Academic credentials are misaligned due to lack of PhD staff and motivated students



Challenges on the ground

Mismatch of students' learning perspective and supervisor's teaching perspective caused by lack of critical thinking, tacit knowledge and different learning culture



Scholastic Challenges

Western vs Eastern knowledge creation approach

Institutional Challenges



Institutional Goals

Increase high impact publications
+

Increase research grants
+

Patented IPs



Academic Credentials

Post Graduate students to graduate on time
+

Quantity production



Resources

PhD staff

+

Motivated students

Challenges on the Ground



Students' Perspective

Students unsure if their research is original

+

Hard to understand LR

+

Problems finalizing their Research Question

+

Hard to graduate on time

Supervisor's Perspective

Students lack PhD technical skills

+

1-2 years development period to reach scholarship

Causes

Lack of critical thinking skills

+

Different learning culture

+

Tacit knowledge realm

Scholastic Challenges

**Western vs Eastern
Knowledge Creation Approach**

**Theory-centric Vs. Method-centric
for Non-native English Speakers**

***Theory.** A statement of rule regarding a phenomenon obtained through systematic and verifiable steps (Ibrahim, 2011)*

Research Challenges – “Theoretical Foundation”

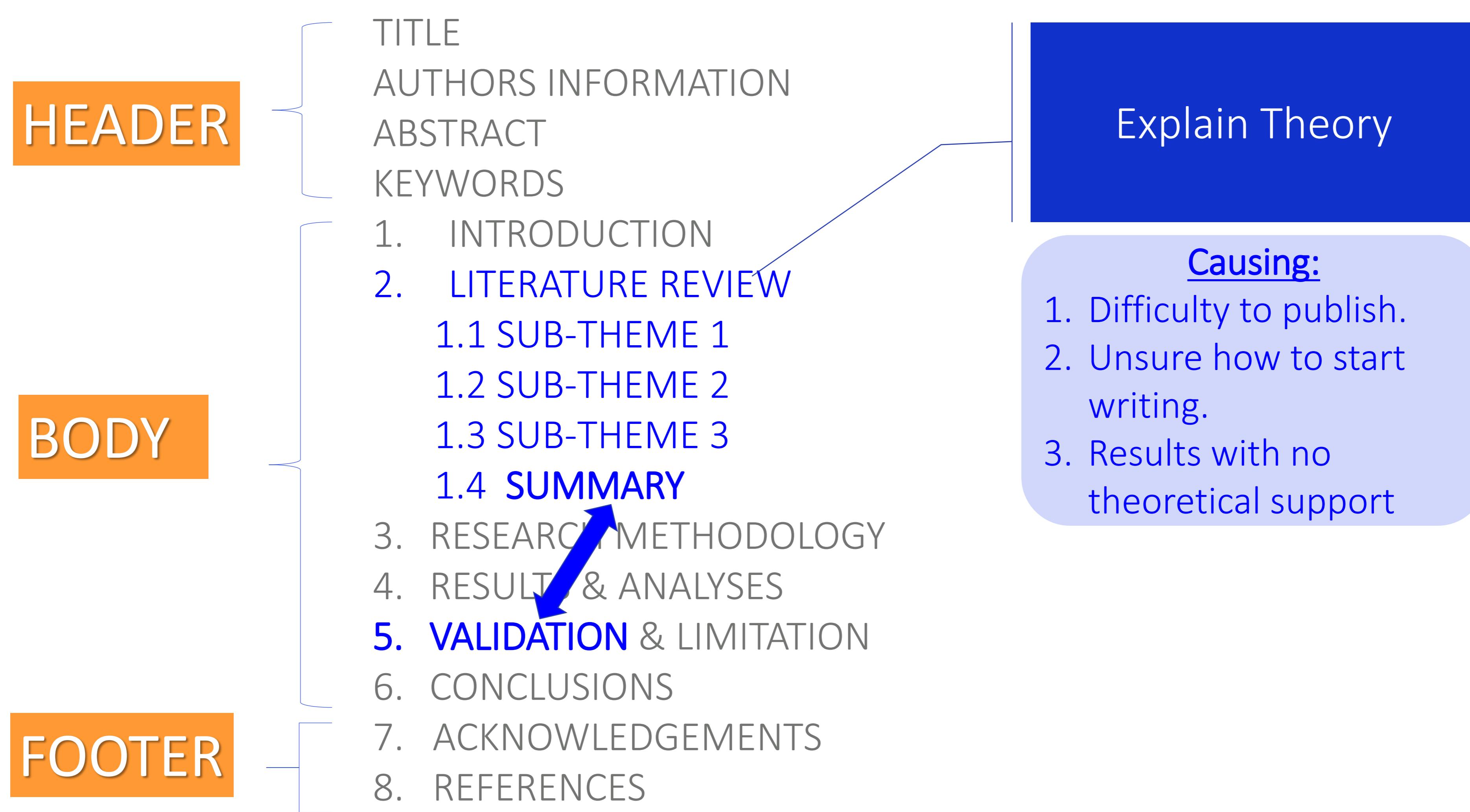
Quantitative Research (Confirming Theory)



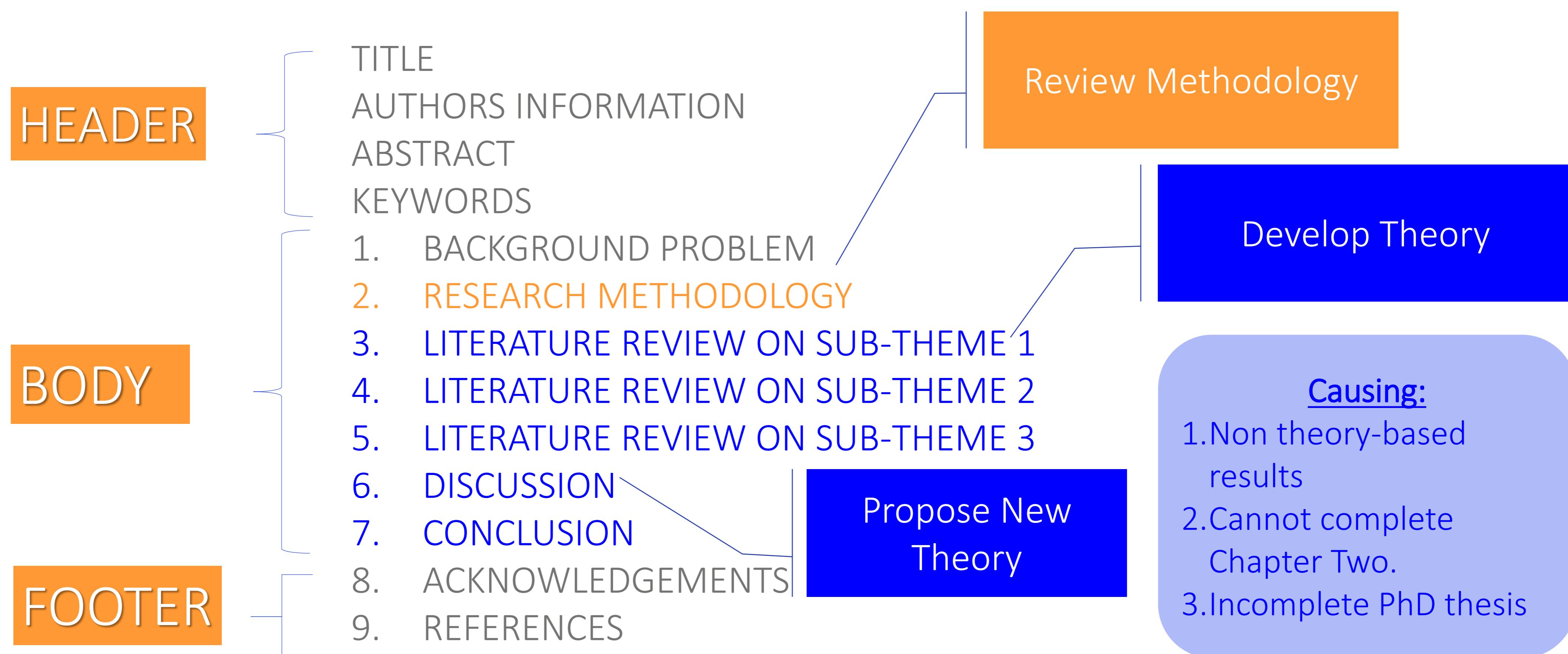
Qualitative Research (Constructing Theory)



Publishing Challenge – “Theoretical Support”



Publishing Challenge – Demonstrate Creation



E.A.G.L.E. Navigator

Accelerating Intellectual Excellence



E.A.G.L.E
NAVIGATOR

"Accelerating Intellectual Excellence"

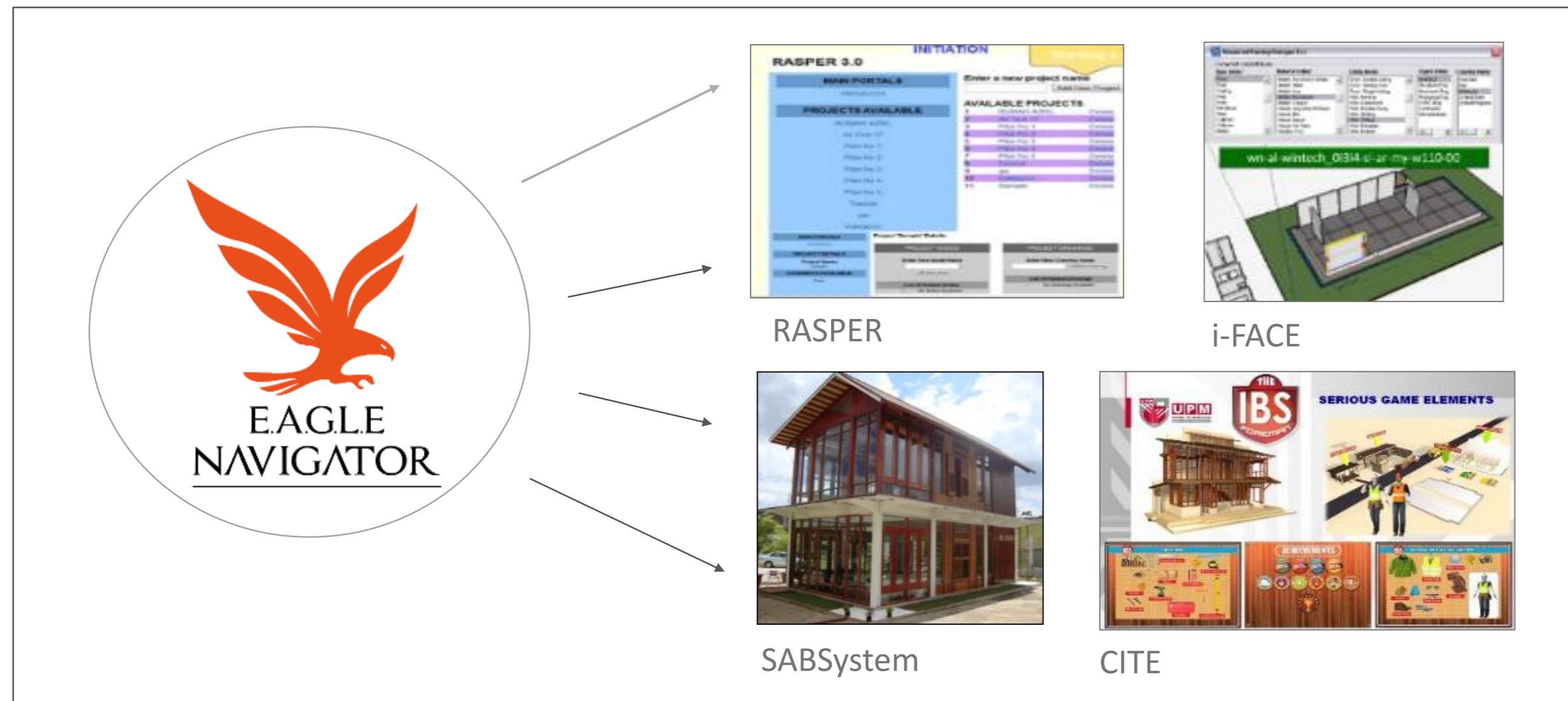
The E.A.G.L.E. Story



Synthesis of Experience

3 years of what **NOT TO DO**

1 month of what **MUST DO** .



Creation of the E.A.G.L.E Programme

Process efficiency + New knowledge creation

Result : 22 IPs profiled in 50 countries

Sources: 16 PhD & 14 Master students



The E.A.G.L.E. Navigator (EN) Solution



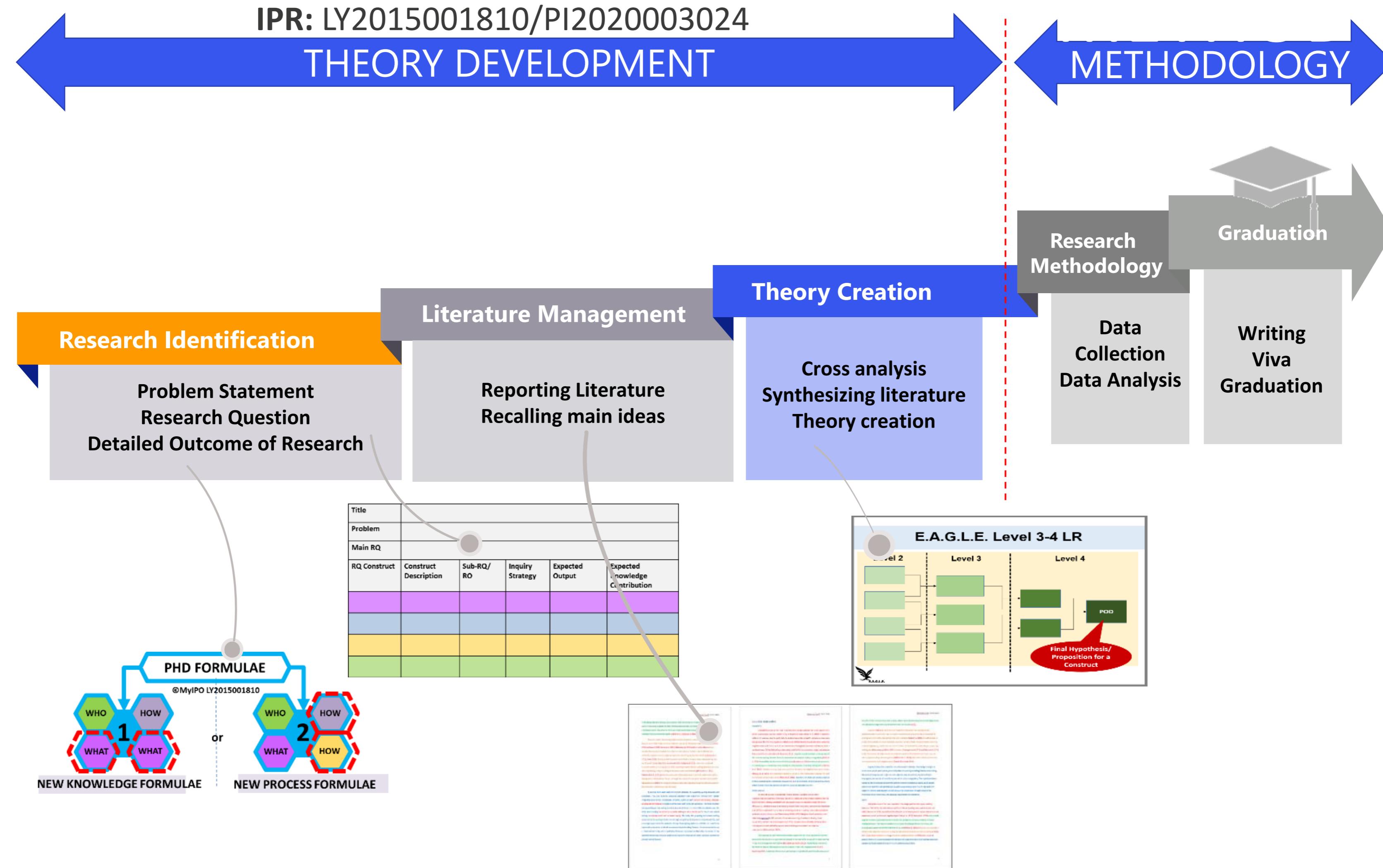
E.A.G.L.E
NAVIGATOR

(PI2020003024)

- Simple tools
- Fast techniques
- Less effort
- Set your own time

- A platform to manage new knowledge generation of a research project.
- Automatic documentation of the systematic ideation procedures for publication purpose.
- Tracks assessment of potential novelty.

The E.A.G.L.E. Innovations

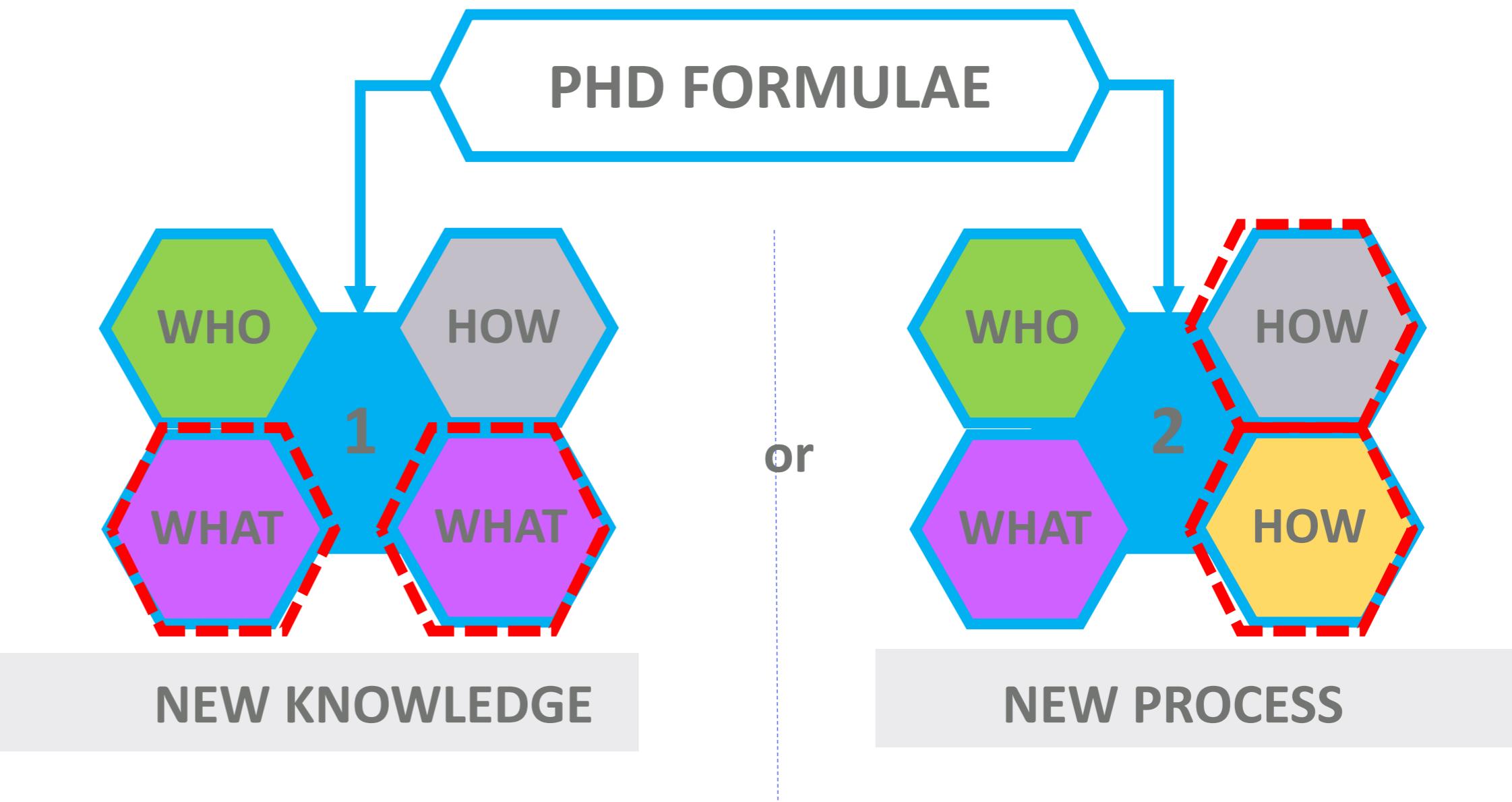




The E.A.G.L.E. Innovation #1 - RQ Construct

A formulae to determine
a PhD main
Research Question

©Ibrahim (2008, 2011)





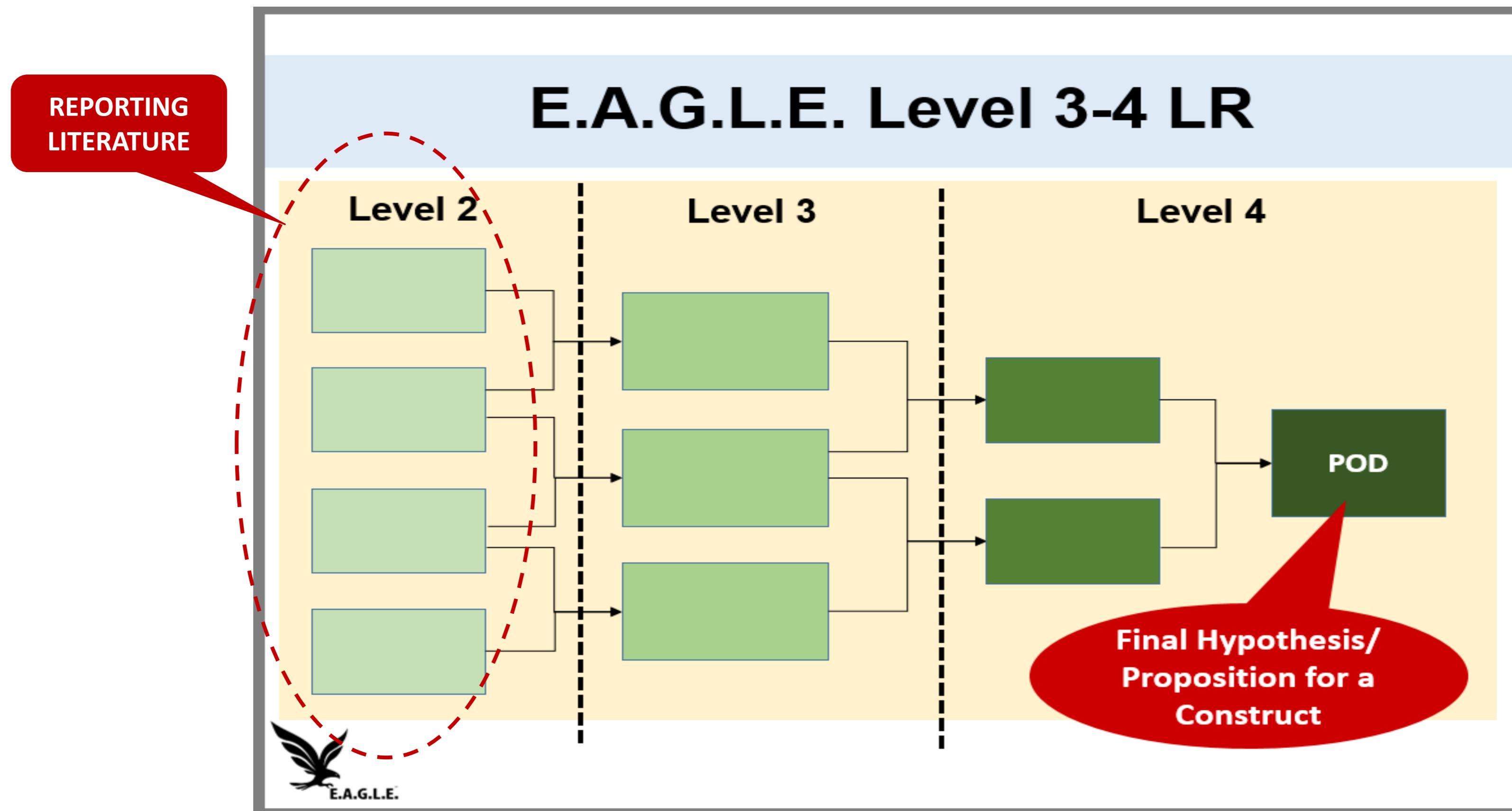
The E.A.G.L.E. Innovation #2 - E.A.G.L.E. Table

Title					
Problem	MANAGEMENT AND MONITORING OF PHD JOURNEY BY SUPERVISORS AND STUDENTS				
Main RQ					
RQ Construct	Construct Description	Sub-RQ/ RO	Inquiry Strategy	Expected Output	Expected Knowledge Contribution

Simplified Research Design Framework Table adapted from Ibrahim (2011)

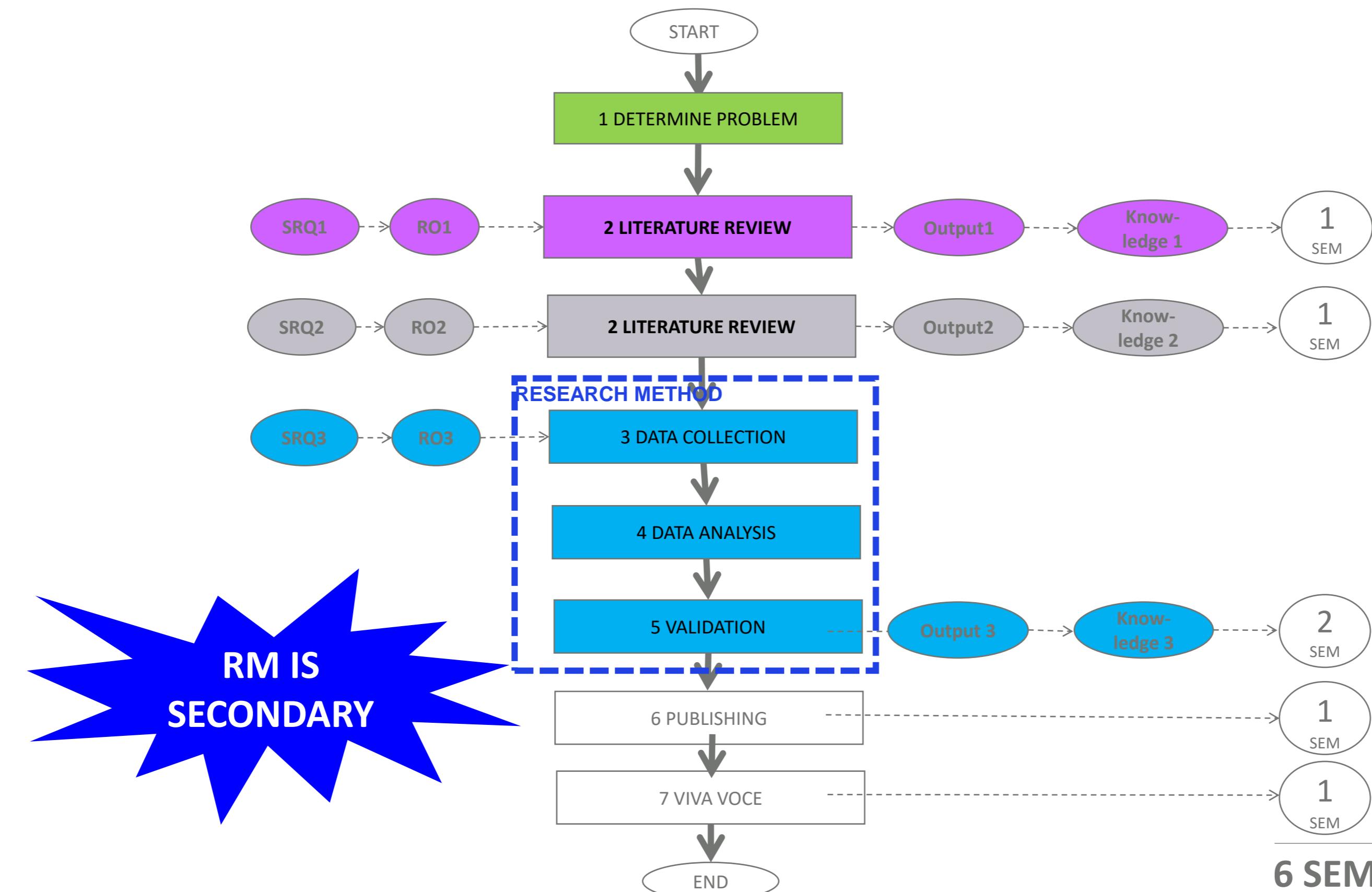
The E.A.G.L.E. Innovation #3 – POD Tree

(Source: Ibrahim & Mustafa Kamal, 2016)



Example of a POD Tree Diagram for developing a theory from literature.

The E.A.G.L.E. Innovation #4 – Visual Checking



EAGLE RESEARCH DESIGN WORKFLOW

(Source: Ibrahim & Mustafa Kamal, 2016)

E.A.G.L.E. Navigator

Accelerating Intellectual Excellence



E.A.G.L.E
NAVIGATOR

"Accelerating Intellectual Excellence"



Knowledge Ideation Process

Step 1 – Identify Problem or Issue

- Problem is always generic, i.e. achieving SDG targets
- Career plan since long lasting

LEADING STATEMENT:

Prototyping models are thrown away after they are used thus causing lots of solid waste in product design.

PROBLEM STATEMENT [Need + Purpose]:

There is a need for alternative biodegradable material for 3D printing technique in order to provide affordable material to industry market.



Knowledge Ideation Process

Step 2 – Set Inquiry Complexity

Unlimited opportunities to set your journey following your heart's desire

No	Construct Definition	RQ Construct
1	“element” used in or impacted by study	WHO
2	“body of K” required to solve the problem	WHAT
3	“action”/“impact” on the “element”/“body of K” in the study	HOW



Knowledge Ideation Process

Step 2 – Set Inquiry Complexity

- Use this table to decide complexity of study
- Plan the content of your study
- Can update content by revising earlier inputs

Level	WHO	WHAT	HOW	RQ OPTIONS
MASTER	1	1	1	9
PHD (OPTION 1)	1	1	2	16
PHD (OPTION 2)	1	2	1	16



Knowledge Ideation Process

Step 2 – Set Inquiry Complexity

1 Problem **2 RQ Constructs** 3 Main RQ 4 EAGLE Table 5 Abstracts 6 Library 7 POD 8 Final POD 9 ORM



RQ Table

Who

WHO = "Element" Used in or impacted by study

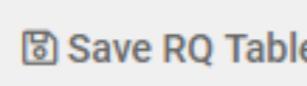
What

WHAT = "Body of K" required to solve the problem

How

Select an action

HOW = "action" / "impact" on the "element" / "Body of K" in the study



State your inquiry components based on the definitions of the RQ constructs



Knowledge Ideation Process

Step 3 – Create Main RQ Formulae

The screenshot shows a software interface for the EAGLE Navigator process. At the top, a navigation bar lists steps 1 through 9. Step 3, "Main RQ", is highlighted in red and has a thicker border. The main content area is titled "Main Research Question (RQ)" and contains the instruction "Please Choose Either One". Below this, there are several horizontal input fields, with the second one highlighted in yellow. To the right of the input fields is a text editor window showing the code "P > SPAN" and buttons for "Save", "Edit", and "Remove". A callout bubble on the left side of the interface states: "Can choose from multiple options of arranging different RQ Constructs".

1 Problem 2 RQ Constructs 3 Main RQ 4 EAGLE Table 5 Abstracts 6 Library 7 POD 8 Final POD 9 ORM

Main Research Question (RQ)

Please Choose Either One

A

P > SPAN

Save Edit Remove

Can choose from multiple options of arranging different RQ Constructs

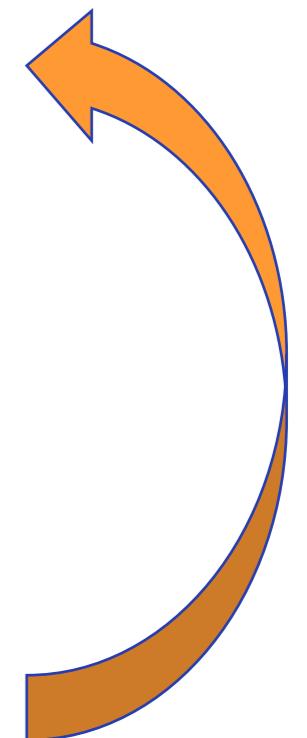


Knowledge Ideation Process

Step 3 – Create Main RQ Formulae

Title

Balancing **intelligent natural approach** [HOW] with **indoor environment parameters** [WHAT 1] for **occupant's psychophysical wellbeing** [WHAT 2] in a **healthy building design** [WHO]



Main Research Question

How to balance **intelligent natural approach** [HOW] with **indoor environment parameters** [WHAT 1] for **occupant's psychophysical wellbeing** [WHAT 2] in a **healthy building design** [WHO]?



Knowledge Ideation Process

Step 4 – Fill Up the E.A.G.L.E. Table

- Use this table to plan the content of your thesis/journal paper
- Can update content by revising earlier inputs

E.A.G.L.E. Table					
Title	E.A.G.L.E. Components				
	Problem	Main RQ	RQ Construct	Construct Description	Sub-RQ/ RO



Knowledge Ideation Process

The screenshot shows the E.A.G.L.E. Table software interface. At the top, a navigation bar lists steps 1 through 9: 1 Problem, 2 RQ Constructs, 3 Main RQ, 4 EAGLE Table (which is the active tab), 5 Abstracts, 6 Library, 7 POD, 8 Final POD, and 9 ORM. Below the navigation bar is a title bar for 'E.A.G.L.E. Table' with a video camera icon. The main area contains three sections: 'Title' with text input fields, 'Problem Statement' with a text input field, and 'Main Research Question' with three sub-sections: 'WHO', 'WHAT', and 'HOW'. Each sub-section has a text input field and a red box below it stating 'No Research Sub RQ Data'. At the bottom are buttons for 'Export EAGLE table PDF' and 'Save EAGLE table'.

Flexibility to plan your PhD journey

Can update inputs as you increase your understanding from additional readings



Knowledge Ideation Process

Step 5 – Automated Research Abstract

- Critical components obtained from the E.A.G.L.E. Table
- Can edit, save and export in Word or PDF
- Automatic reload if E.A.G.L.E. Table is updated

Universal Design principles for improving quality of life for active ageing in Malaysia through accessibility in the built environment

by

Ahin Ahim

ABSTRACT

PROBLEM

There is a need for the adoption of Universal Design (UD) principles in the built environment in order to support active aging in Malaysia.

RESEARCH METHOD

The purpose of this study is Universal Design principles for improving quality of life for active ageing in Malaysia through accessibility in the built environment. This study uses Literature Review to/for To analyse key facilities, services and destinations constituting accessibility in the built environment. Then it uses literature review to/for To evaluate Universal Design principles that can be applied for making accessibility in the built environment. To evaluate the Universal Design principles that could be applied for making accessible built environment. Later it uses Survey to/for To establish Universal Design principles for improving quality of life for active ageing in Malaysia through accessibility in the built environment?.

EXPECTED RESULTS

Results of the study would include key facilities, services and destinations critical for accessibility; policies regarding accessibility requirements; policies regarding accessibility requirements, Types of accessibility features in the built environment, UD principles, Methods of UD application, Methods of UD application, Access audit method and scoring . The results are expected to lead towards development of Ageing Framework for UD application in the built Environment.

OUTLINE OF RESEARCH PARER/PROPOSAL.

After the introduction of the background problem, this paper will present the literature on accessibility in the built environment, Universal Design principles, and improve quality of life for active ageing in Malaysia. Then, it describes the research methodology before presenting the expected results.

EXPECTED CONTRIBUTIONS / BENEFITS OF STUDY

The study contributes in the development of an Ageing Framework for UD application in the built Environment and recommends appropriate UD features in the built environment to support active aging in Malaysia.

P » SPAN » SPAN

307 WORDS POWERED BY TINY

Export Doc **Export PDF** **Save** **Reload Abstract from Eagle Table** **Go To Next Step →**



Knowledge Ideation Process

Step 6 – Building Review Library

1 Problem 2 RQ Constructs 3 Main RQ 4 EAGLE Table 5 Abstracts **6 LR Library** 7 POD 8 Final POD 9 ORM

Literature Review Sub-theme

RQ Construct Table

RQ Construct	Sub Theme
Who : WHO	+
What : WHAT	+
How : new HOW	+

[Go To Next Step, step06LibraryList →](#)

Classify your reviewed literature into easy manageable sub topics



Knowledge Ideation Process

Step 6 – Building Review Library

Critical Review Coverage:

What is the article about?

What is the author's POD (Point of Departure)?

How does the article support your study? → STRENGTH

How does it not support your study? → WEAKNESS

What else is needed to support your study? → Researcher's POD



Knowledge Ideation Process

Step 6 – Building Review Library

- Library of reviewed articles
- Progressive built up
- Store for future use

An Article Review

El-Shekeil et al (2014) highlights the influence of fiber content on the mechanical (i.e. tensile, flexural, impact, hardness and abrasion resistance) and thermal (i.e. TGA) properties of kenaf fiber reinforced thermoplastic polyurethane composites. El-Shekeil et al (2014) found 30% fiber loading exhibited the best tensile strength, while modulus increased with increase of fiber content, and strain deteriorated with increase of fiber content. Flexural strength and modulus increased with increase of fiber loading where increase of fiber loading resulted in decline in impact strength. However, El-Shekeil et al (2014) limits the use of the Kenaf bast fibre thermoplastic polyurethane (TPU) composite to larger products' manufacturing. Therefore, based on El-Shekeil et al (2014) my study intends to analyse whether the mechanical (i.e. tensile, flexural, impact, hardness and abrasion resistance) and thermal (i.e. TGA) properties of kenaf fiber reinforced thermoplastic polyurethane composites could be use for 3D RP materials.



Knowledge Ideation Process

Step 6 – Building Review Library

Add Journal

Author
Article Title
Doi
Year
Journal Name
Location
Volume
Issue
Page

What is the article about and author's point of departure ?
How the article support your study ?
How the article support your study ? (Your POD)

Page
Page
Page

Cataloguing articles

Retrieve Abstract Insert Template

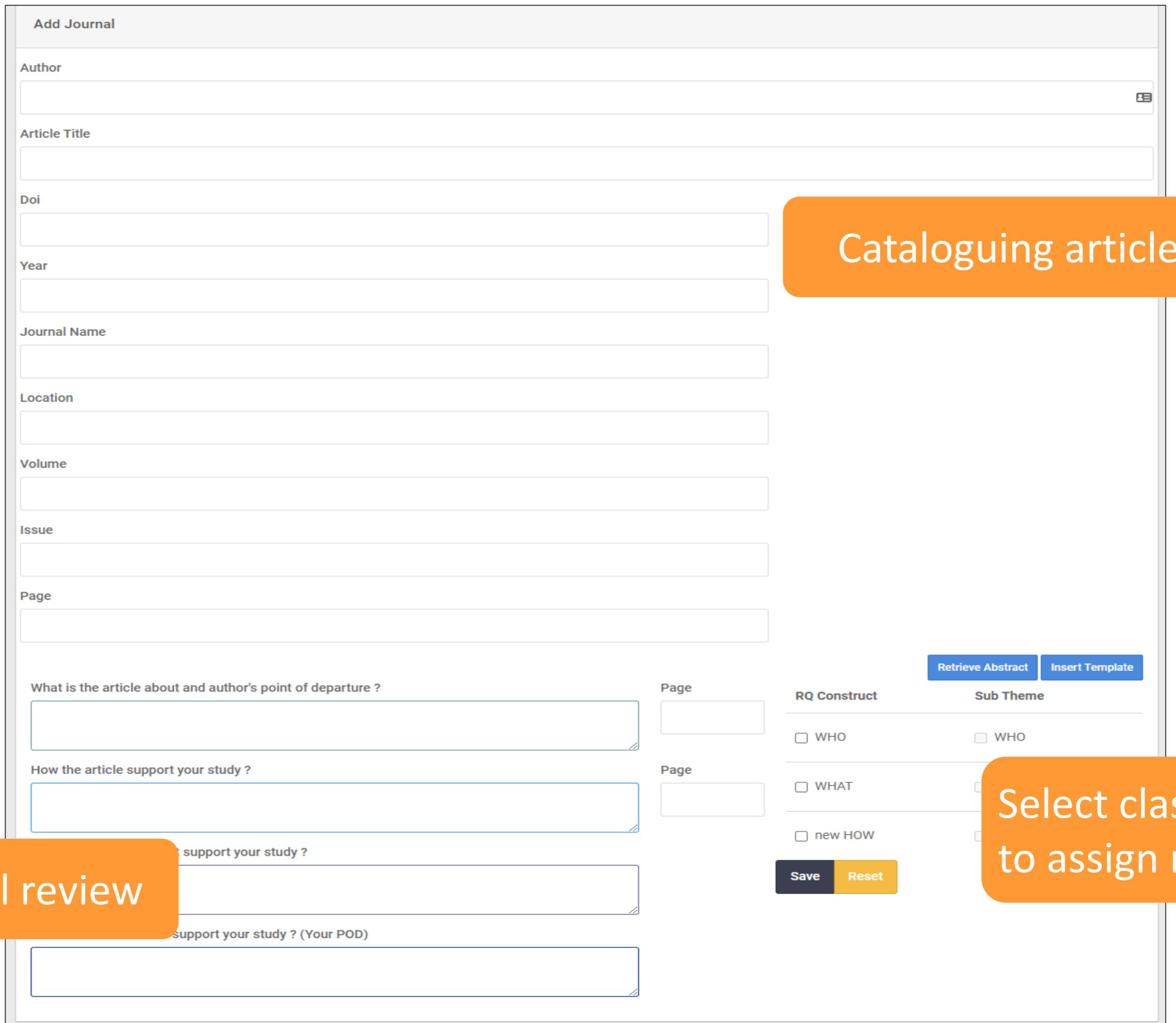
RQ Construct Sub Theme

WHO WHO
 WHAT WHAT
 new HOW new HOW

Save Reset

Guided critical review

Select classification to assign review info





Knowledge Ideation Process

Step 7 – Points of Departure (POD)

1 Problem 2 RQ Constructs 3 Main RQ 4 E.A.G.L.E. Table 5 Abstract Step 06 7 POD 8 Final POD 9 ORM

step07-who

POD Summary

WHO ST

Journal Data Subtheme Id:1435

K. (2012) states that Lee, T. T., & Osman, K. (2012) highlighted on. However Lee, T. T., & Osman, K. (2012) only focused on. Therefore & Osman, K. (2012) my study will focus on.

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Search

EDIT

EDIT

EDIT

EDIT

Showing 1 to 2 of 2 rows

Compilation Of P O D Statements

0 WORDS POWERED BY TINY

Summary Of P O D Compilation

0 WORDS POWERED BY TINY

Synthesis Of P O D Summary

|

P 0 WORDS POWERED BY TINY

Save POD 1435 Clear Forms

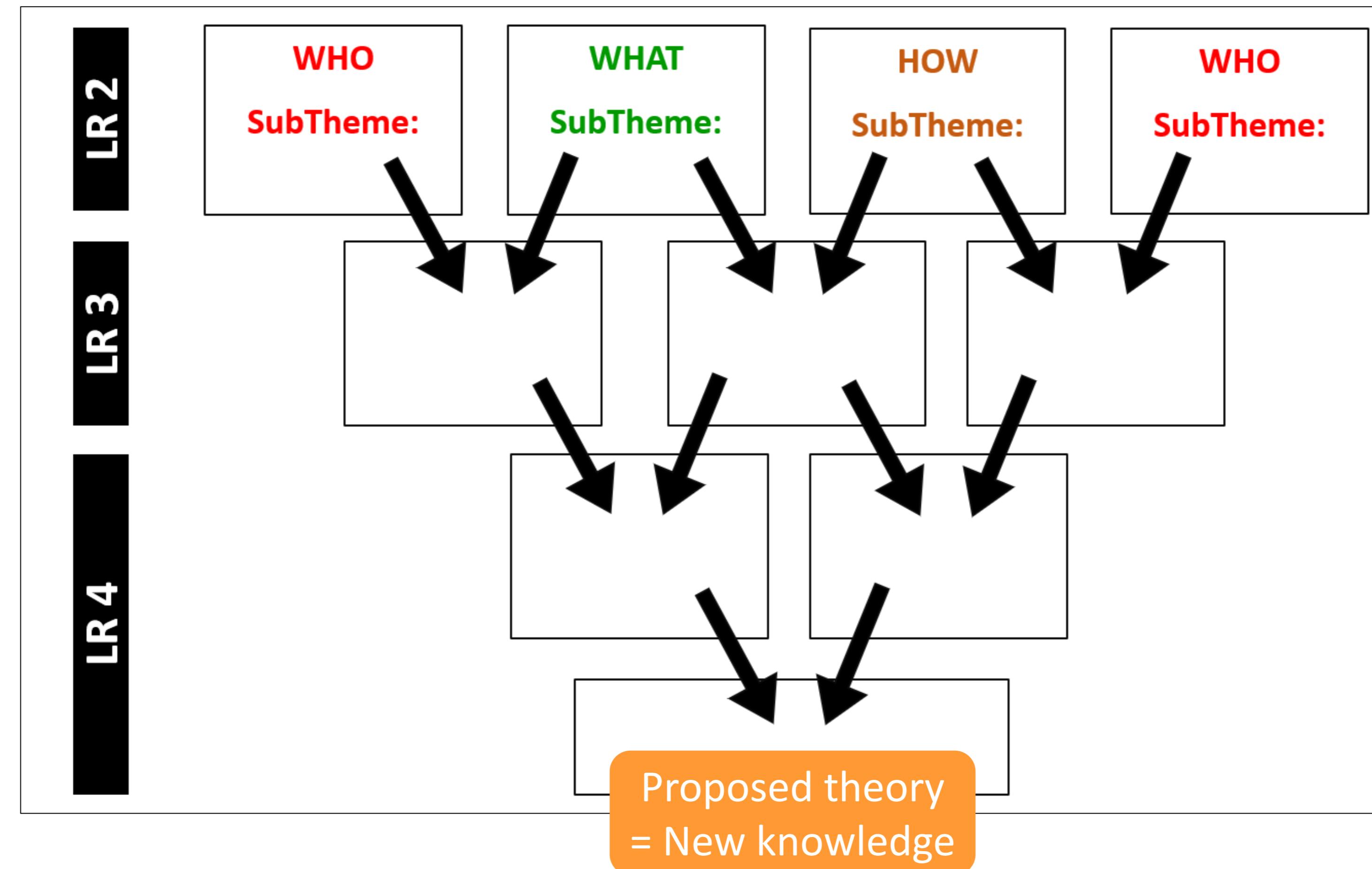
Export POD 1435

Select your choices of reviewed articles

Summarising a collection of reviews under one Subtheme

Knowledge Ideation Process

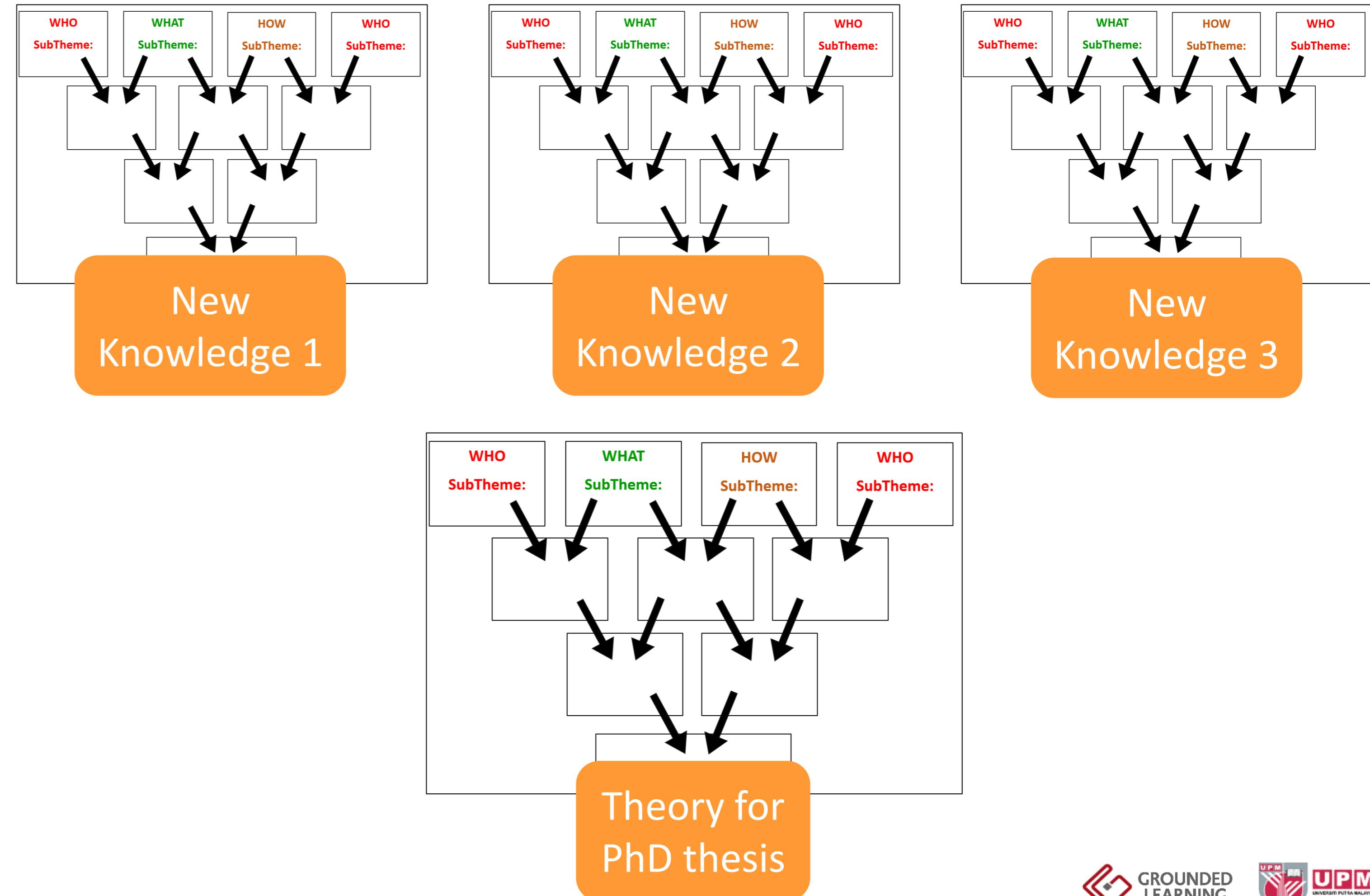
Step 7 – Points of Departure (POD)



Knowledge Ideation Process

Step 8 – Final POD

- Under one Problem Statement, LR content can change to develop new perspective
- Flexibility for transdisciplinary projects
- Grounded in theory





Concurrent Documentation Process

The screenshot shows a software interface with a dark header bar. The header includes a language dropdown set to "English" with a USA flag, a search icon, and a gear icon. Below the header, there are two tabs: "general settings" and "color settings". The "color settings" tab is active, displaying a list of color swatches and their corresponding hex codes for various constructs:

Construct	Color	Hex Code
WHO color	Blue	#00ccff
WHAT color	Red	#ff6666
WHAT1 color	Purple	#b366ff
WHAT2 color	Green	#339933
HOW color	Magenta	#ff33cc
HOW1 color	Blue	#0099cc
HOW2 color	Dark Blue	#333399

Below the color list, there is a note: "Color Picker for RQ constructs , please select color.. do not select similar color." At the bottom of the interface, another note reads: "Color Picker for LR review , please select color .. do not select similar color." A large orange arrow on the left side of the interface points towards the color settings area.

Colour code so you can “see”

Colour code your personal meaning

Concurrent Documentation Process

El-Shekeil et al (2014) highlights the influence of fiber content on the mechanical (i.e. tensile, flexural, impact, hardness and abrasion resistance) and thermal (i.e. TGA) properties of kenaf fiber reinforced thermoplastic polyurethane composites. El-Shekeil et al (2014) found 30% fiber loading exhibited the best tensile strength, while modulus increased with increase of fiber content, and strain deteriorated with increase of fiber content. Flexural strength and modulus increased with increase of fiber loading where increase of fiber loading resulted in decline in impact strength. However, El-Shekeil et al (2014) limits the use of the Kenaf bast fibre thermoplastic polyurethane (TPU) composite to larger products' manufacturing. Therefore, based on El-Shekeil et al (2014) my study intends to analyse whether the mechanical (i.e. tensile, flexural, impact, hardness and abrasion resistance) and thermal (i.e. TGA) properties of kenaf fiber reinforced thermoplastic polyurethane composites could be used for 3D RP materials.

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Naeemah Yusof | 04.01.2016

methodology (Remote Sensing, GIS and Spatial Web Technology) to model urban space walkability, which enables local residents to make informed decisions that will improve their living conditions and physical health related to the micro-scale built environment characteristics and the neighbourhood environmental quality (Adkins et al. 2012; Lwin & Murayama 2011).

However, most of the existing studies on natural and built environment physical walking features are limited to the normative objective measure of built environment attributes (Kelly et al. 2011; Southworth 2005; Adkins et al. 2012; Millward et al. 2013) and partial for elderlys. Less consideration are given towards the subjective measures (e.g. routes to popular destinations, unfriendly neighbours or past negative experience) including equity aims of walking (Adkins et al. 2012; Lutman 2008). Existing walkability studies also limited to transportation, urban planning and health benefits (Lee & Lee 2014; Southworth 2005; Pooley et al. 2013), rather than social and economic benefits of walking (Lutman 2008) especially towards elderly's walking behaviour for urban short trip walking. Study on walking travel pattern and street livability (Millward et al. 2013; Malmoudi et al. 2015) give less focuses on the influencing factors of walkable public realm such as demographic and behavioural factors. Although the analysis of route paths has been widely used in GIS applications (2011), the integration of green factors and subjective measures with the analysis of the route path is still lacking in the GIS arena.

In general, there exists built environment attributes for supporting walking behaviour and experience. They also could be measured objectively and subjectively. Among them, include integrating green factors (streetscape and parks), quality of path, network connectivity, adequate services and maintenance and analysis of the route path in the GIS application. Therefore my study will expand deeper the existing walkable network attribute, is it compatible for elderlys user. My study recommending the authority to provide walking to reduce health cost for the city and extend walking to improve social and economic equity. My study also proposing to increase walking opportunities and walking's mode share through recognizing the importance of non-home trips, and encourage opportunities for pedestrian through investigating pedestrian activities that need to be supported by the natural and built environment physical walking features. It is recommended to use a mixed-method study with a qualitative follow-up component to determine the nature of the reported relationships between objective and subjective measures of natural and built environment physical walking features.

2

Naeemah Yusof | 04.01.2016

2.2.2 Urban Design Qualities

Accessibility

Accessibility is one of the most important urban design qualities that could support city's ability to encourage exercise, healthy living, and ageing in place (Weiss et al. 2010). A systematic patterns of uneven access to parks help to explain inequalities in health outcomes across socio demographic New York City populations (Miyake et al. 2010). Intensity of social interaction within the neighbourhood parks is as a result of the combination of the legibility attributes and density within a residential areas (2014). Walkability studies widely used Walk Score calculation to objective foot accessibility in a place (Lwin & Murayama 2011). Inequities of park may lead to the misunderstanding between the built environment and physical activity (Talen & Koschinsky 2010). Accessibility and distribution of urban space (Miyake et al. 2010) is a key factor to create an intensity space of social interaction and help to solve problems (Moulay et al. 2014). However, existing study on accessibility limited to the built environment (Moulay et al. 2014) and evaluating accessibility based on the built environment and physical activity (Weiss et al. 2010). This study will propose to evaluate the relationships between the built environment and physical activity in elderly in order to provide solutions for inactivity issues.

Mixed-Land Use

Mixed-land use urban qualities that includes convenience of walking, proximity to services and neighbourhood are positively affect social interaction, health and safety (Talen & Koschinsky 2014). Density and legibility of a city could influence the walkability of a city (Moulay et al. 2014) and values of surrounding property (2014). While an unplanned city has been experiencing problems in walkability (Bhattacharyya & Mitra 2013), walkability is measured by GIS methods with an index consisting of walkability, connectivity, and land use mix (Sandquist et al. 2011). However, the relationship between land-use patterns and walkability require some rethinking as to consider the objective and subjective measures of walkability (Millward et al. 2013).

Existing study on rapid motorization provide support that the increasing level of road density and traffic volume of a city has put immense pressure on transportation system of the town resulting in high level of congestion and fatalities (Bhattacharyya & Mitra 2013). Physical factors are one of the elements that are affecting behaviour and outcome of the CWD neighbourhood (Talen & Koschinsky 2014). Pedestrian infrastructure and land use mix significantly contributed to increases in

3

Naeemah Yusof | 04.01.2016

rental multi-family residential property values, where higher development density with higher street and sidewalk coverage were also favoured by retail service uses (2012).

However, Sohn et al. study have not research on the factors making high-density neighbourhoods an attractive living environment would help develop urban design strategies for creating walking-friendly urban settings that are marketable (Sohn et al. 2012). An existing study on mixed-use study lack of professional views from variety of fields including transport planning, transport engineering, health, tourism, social inclusion, crime prevention, urban design in preparing walking plan (Bhattacharyya & Mitra 2013). Studies of Sandquist et al. (2011) and Weiss et al. (2010) study did not cover the objective and the subjective measures of mixed-land use impact towards elderly physical activity and travel pattern (Millward et al. 2013) which reflect elderly self-selection and causality in the CWD neighbourhood (Talen & Koschinsky 2014).

In general, there exist a need for the professionals to develop urban design strategies to encourage elderly participation, particularly elderly in spatial just walking-friendly urban setting. This study will propose to evaluate both, objective and subjective measures and the physical activity in elderly in order to evaluate the intensity of social interaction within a city among elderly. The empirical evidence will provide the relationships between the built environment and physical activity could provide solutions for inactivity issues. This study will propose to evaluate the relationships between the built environment and physical activity in elderly in order to provide solutions for inactivity issues.

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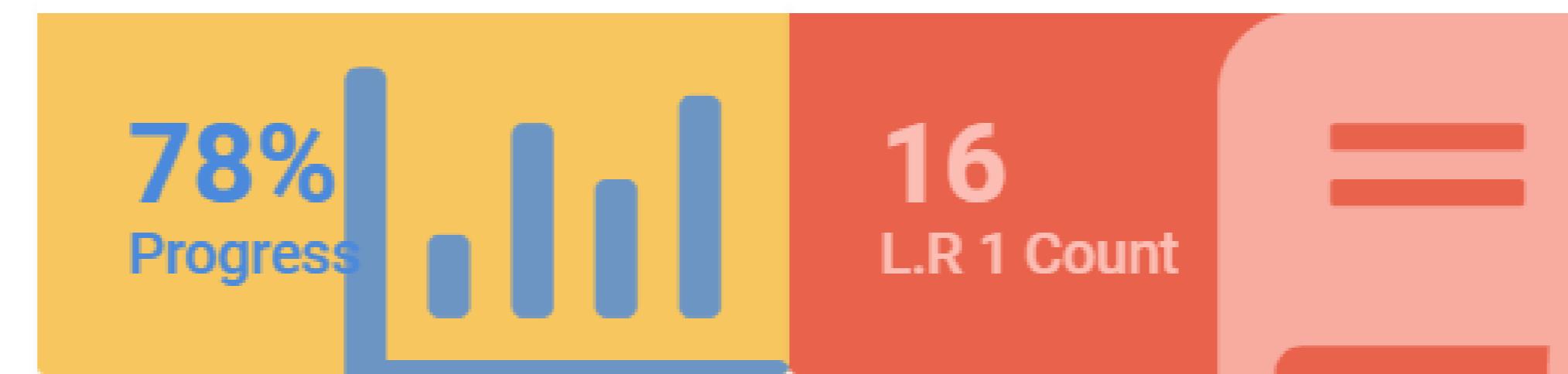
JUST ARRANGE THE COLOUR-CODED TEXT

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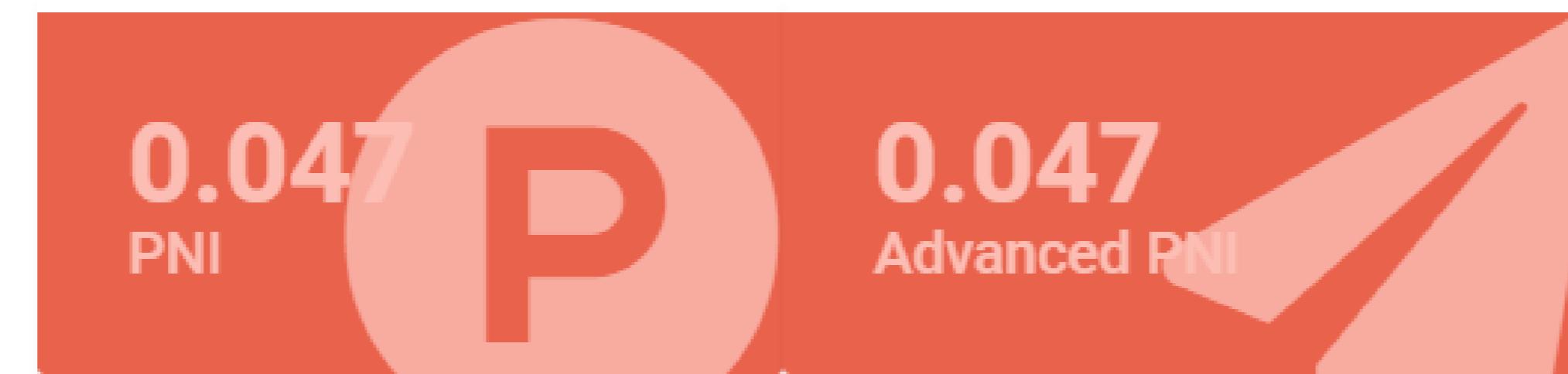


Potential Novelty Index in Knowledge Creation

Total number of
Steps completed



Total number of
reviewed articles



Conceptual
Potential Novelty
Index

Advanced Potential
Novelty Index

First
Winner!!



14 projects
from 100
entries from
8 APEC
countries

Home : Malaysian Startup Team Wins First Place at GIST APEC Startup Training in Australia

Malaysian Startup Team Wins First Place at GIST APEC Startup Training in Australia

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I-STM: Wastewater Technology Intervention for Sustainable Economic Development

I-STM Technology acknowledged by GIST-APEC as having scale up capability for international market



Innovation
Achievers'
Award

A Joint Project By



SMART SANITATION FOR WATER SETTLEMENTS

Love your nature, prosper your community



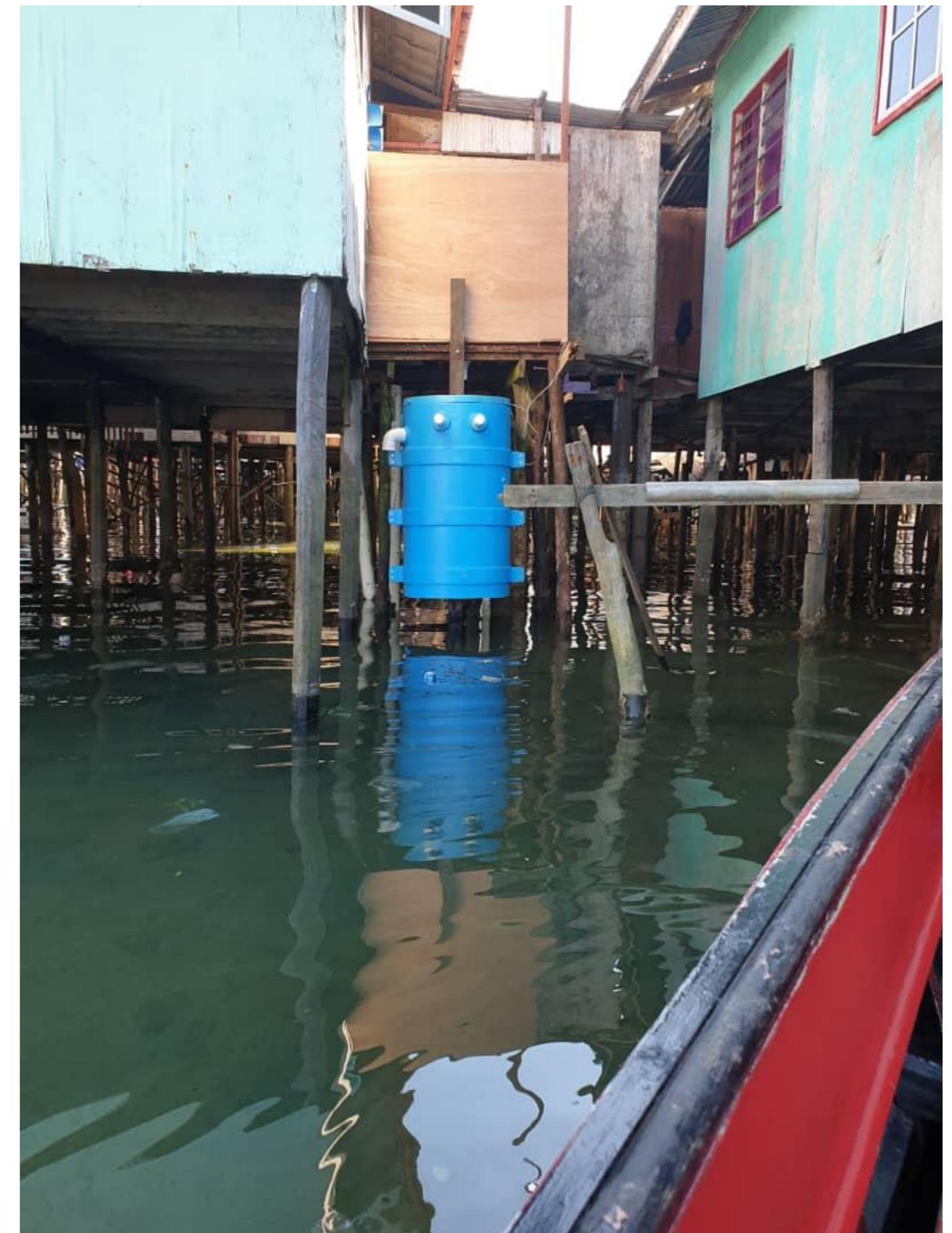
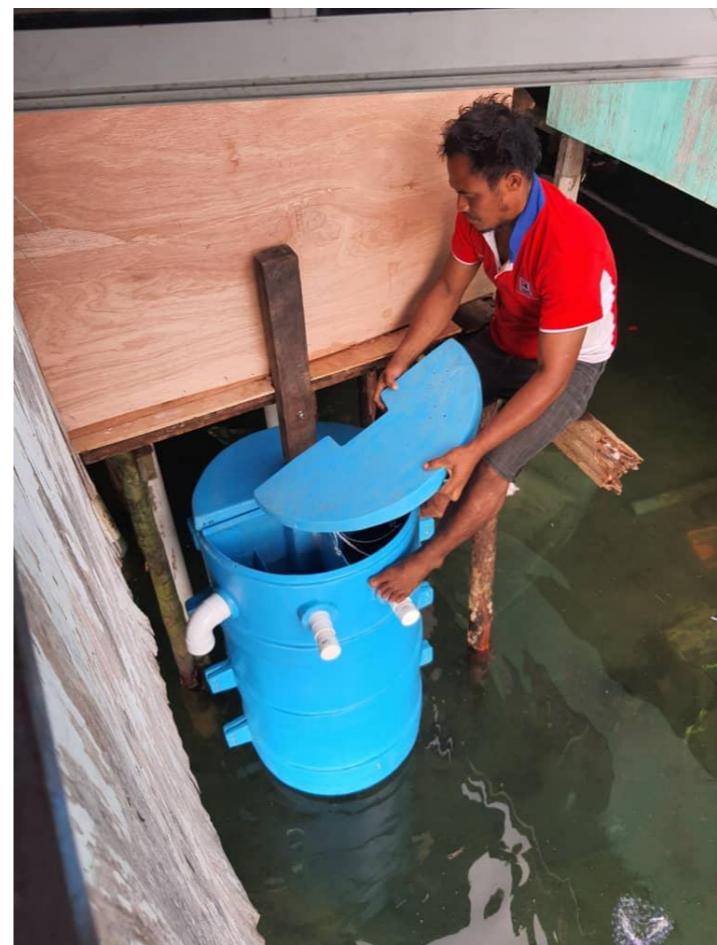
AIM: A demonstration project to stop wastewater pollution using ISTP technology, and empower water villagers to sustain their livelihood and avoid water-borne diseases

COMPONENTS: 1) Demonstration Project Installation
2) Development R&D

DURATION: 36 Months

OUTCOME: Policy Guidelines for Ocean Conservation

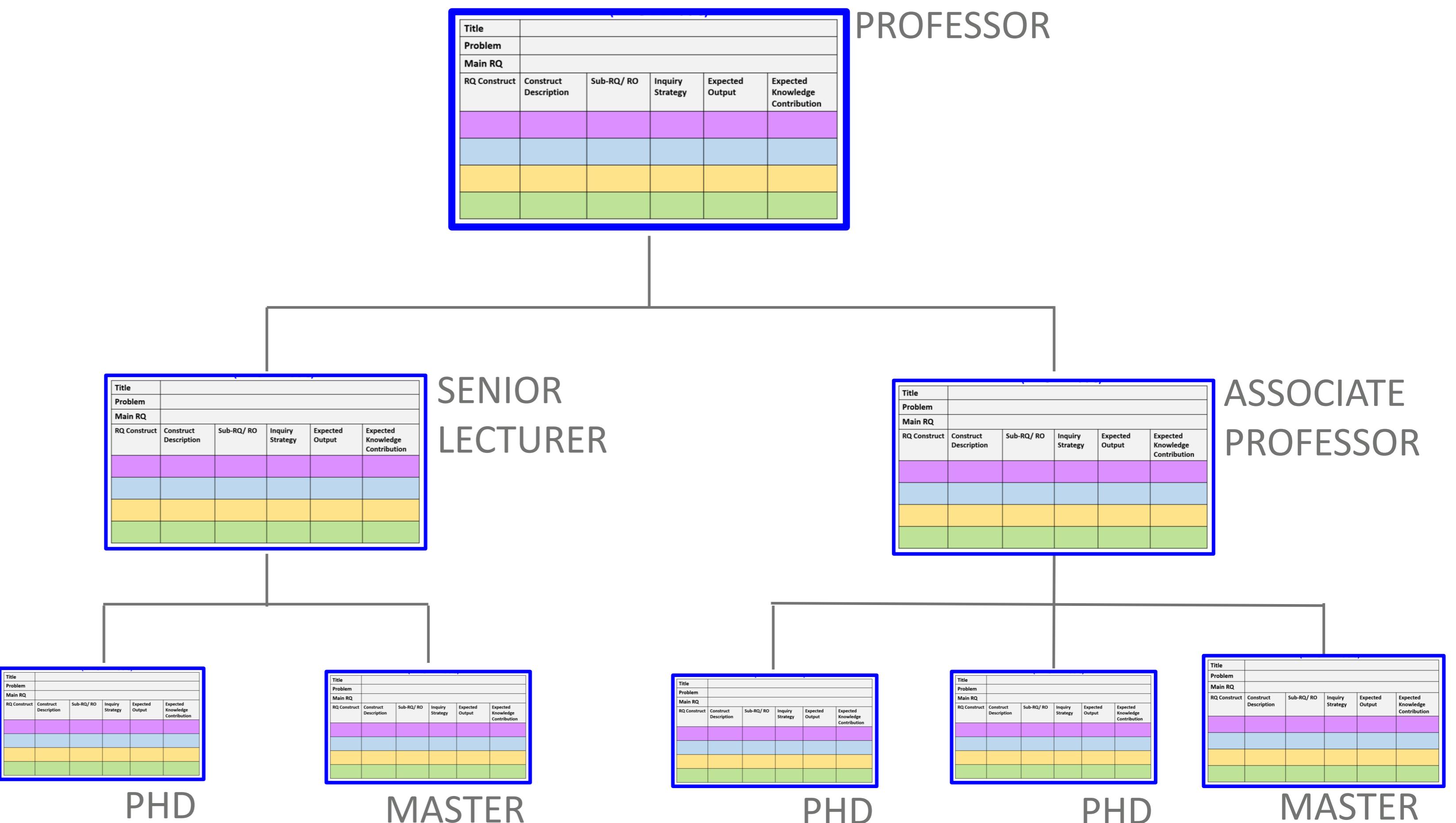
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Strategic Ideation Planning (R&D Development)

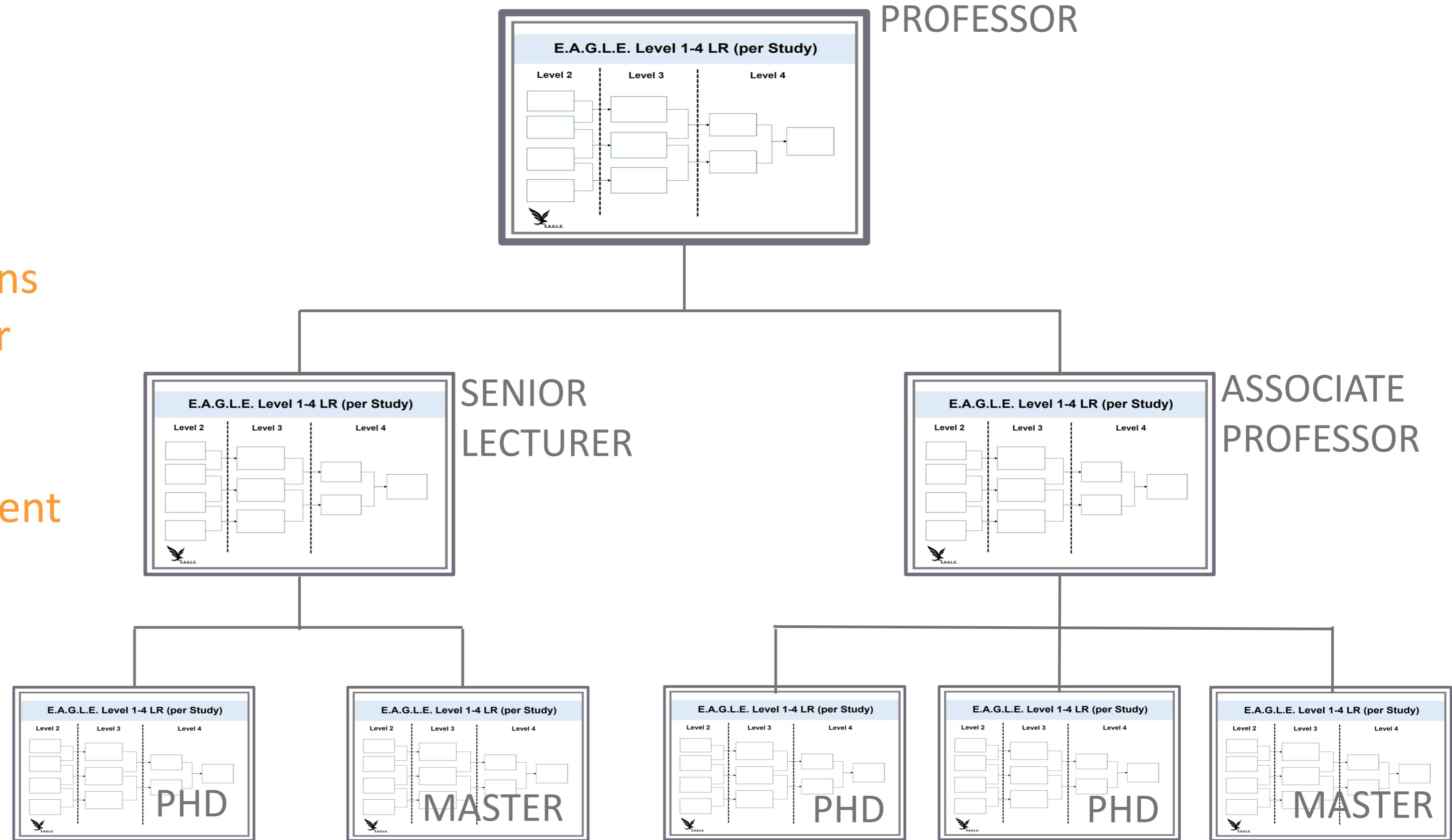
- Optimize limited staffing
- Increase research grants
- Talent development
- Institutional growth





Strategic Ideation Planning (Knowledge Creation)

- Increase scientific publications
- Grounding niche areas under prominent researchers
- Talent development
- Institutional asset management





CONCLUSION

Benefits of the E.A.G.L.E. System

Simple tools to plan faster

Easy techniques for faster comprehension

Less efforts to accomplish quality outputs

Structured process for easy documentation

Tracking intellectual maturity progress

Systematic retrieval for ease of mind

High potential to produce IP asset

Simplify strategic planning for R&D

E.A.G.L.E. Navigator

Accelerating Intellectual Excellence



E.A.G.L.E
NAVIGATOR

"Accelerating Intellectual Excellence"

E.A.G.L.E. Online Course

01

5 Steps for Planning Research Proposal

02

8 Steps in Writing Scientific Paper

03

8 Steps in Writing Literature Review Chapter

APPROACH

- Technology Assisted
 - Online Video
 - Assignment
- Group Consultation

E.A.G.L.E. ONLINE COURSE	DIFFICULTY	COMMITMENT TIME	GOAL	OUTCOME
5 Steps for Planning Research Proposal	Easy	7 hours – 14 hours	Prepare Proposal Prepare CE	<ul style="list-style-type: none"> • Abstract • Key points in Proposal
8 Steps in Writing Scientific Paper	Medium	14 hours – 42 hours	Publish Paper	<ul style="list-style-type: none"> • Abstract • First draft manuscript
8 Steps in Writing Literature Review Chapter	Hard	30 hours – 154 hours	Writing Chap 2 Literature Review	<ul style="list-style-type: none"> • Abstract • First draft Chapter 2 • Theoretical Proposition • (optional) 3 Draft Manuscript

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- 5 Steps PRP
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Wait

1 April 2021

THINKING TOOLS

NAVIGATING A 3-YEAR PhD JOURNEY



RAHINAH IBRAHIM

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THANK YOU

PROF. TS. DR. RAHINAH IBRAHIM

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