

Evidence-based innovation in occupational therapy education

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Subtitle zone

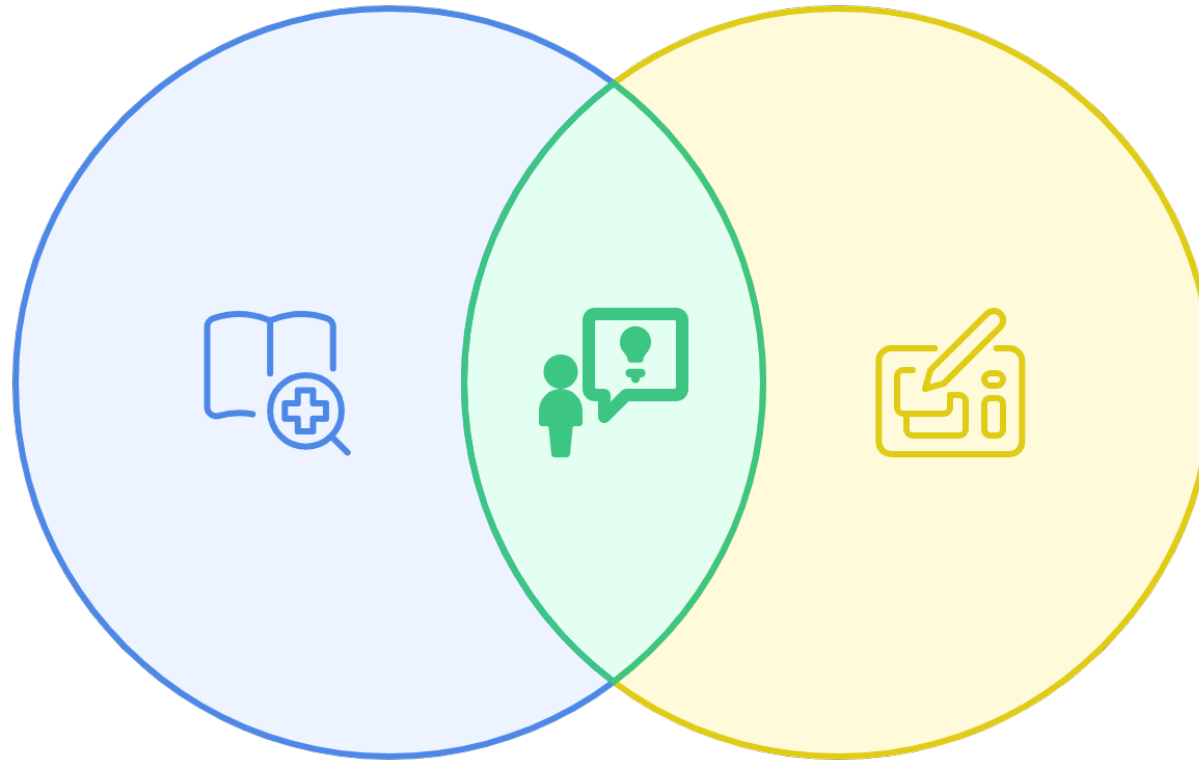
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Project Based Learning

Evidence-
Based Practice

Entrepreneurship



“Make me a resource that....”

“We need a survey to find out....”

“Create a video to ...”

“Volunteers seem stressed”

“Parents are concerned about screen time”

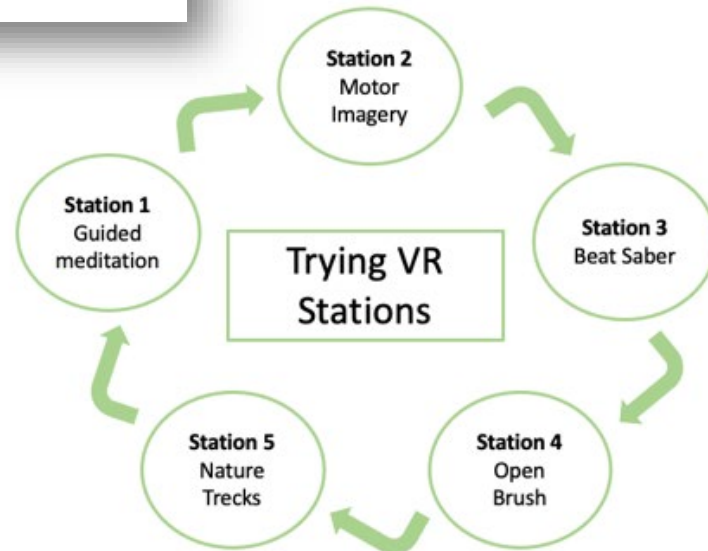
“People need access to adaptive sports equipment”

Simple Smart Speaker

Welcome to Simple Smart Speaker

Hello and welcome to Simple Smart Speaker! We're here to help you discover the useful features and functions of smart speakers in the easiest way possible.

What This Program Provides



Excessive Gaming Negative Impacts

1. Impacted Sleep

- Delayed sleep onset
- Reduced total sleep time
- Poor sleep quality and increase in fatigue
- Poor engagement in everyday activities, routines, and behaviours (e.g. school, social engagement, chores)

2. Mental Health

- Increased susceptibility to bullying behaviours
- Poor social skills and peer interaction
- Increased fatigue, depression and anxiety symptoms
- Irritability
- Conduct problems (aggression, violation, mania)

3. Brain Development

- Impaired executive function and self-perception
- Impaired emotional regulation and reward processing
- Impaired cognitive functioning
- Impaired memory, decision making, and problem-solving

4. Relationships

- Reduced time with family and friends
- Difficulty engaging in open communication
- Poor conflict management skills
- Poor social interaction
- Unrealistic expectations and unrealistic expectations

TROY, THE VERY RESILIENT BOY

BY SOPHIE DENHAM, SARAH KELLY,
ISABELLE MATTHEWS & RYAN TUNSTALL

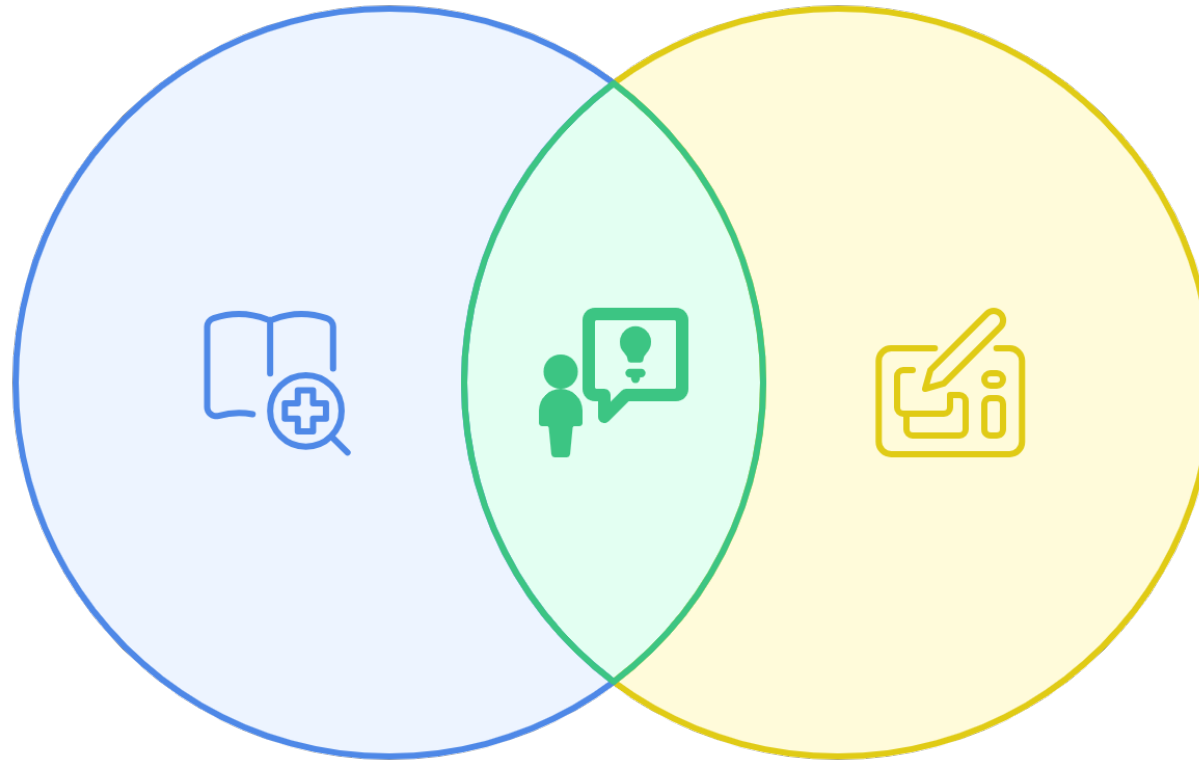


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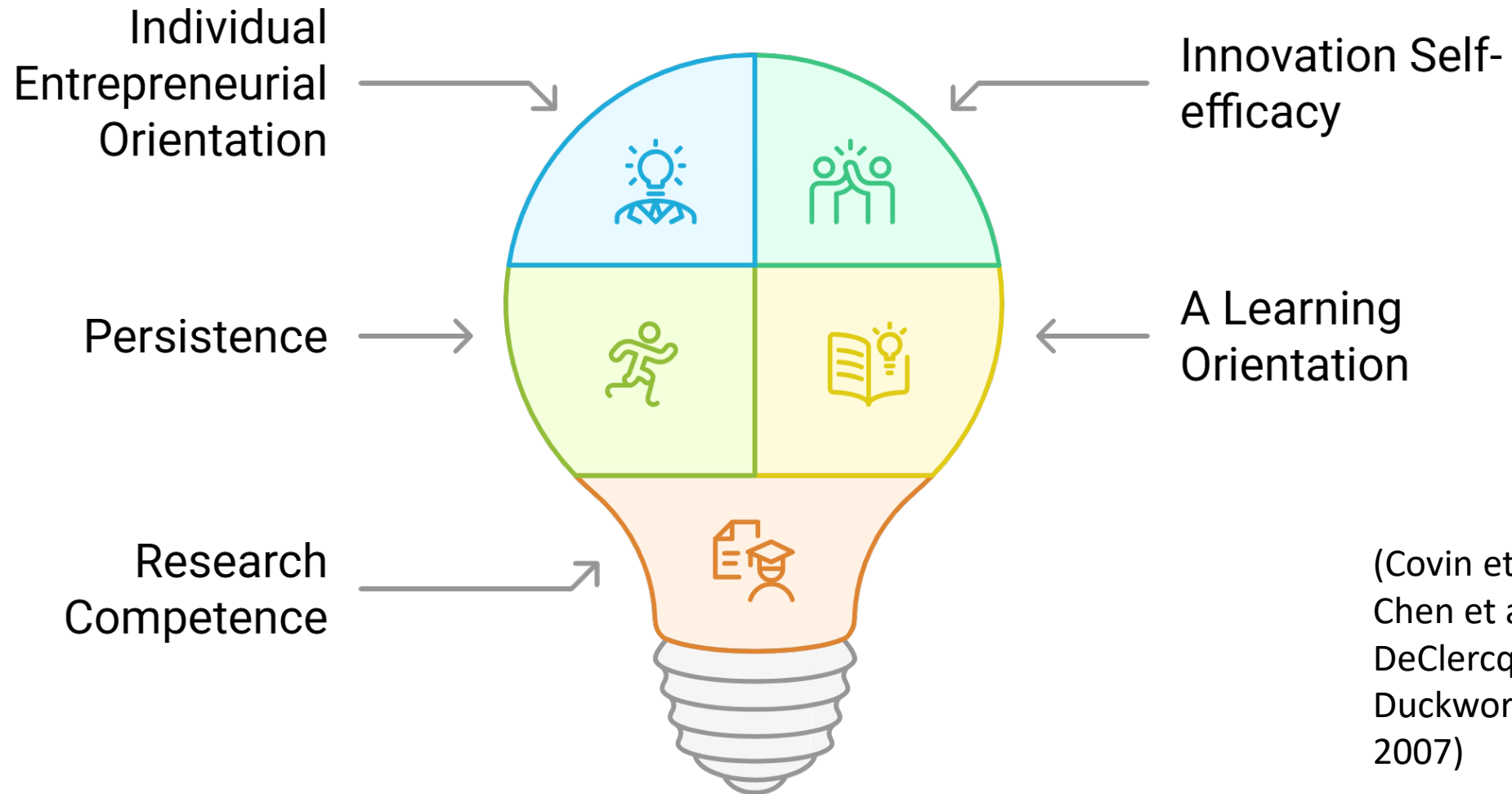
Project Based Learning

Evidence-
Based Practice

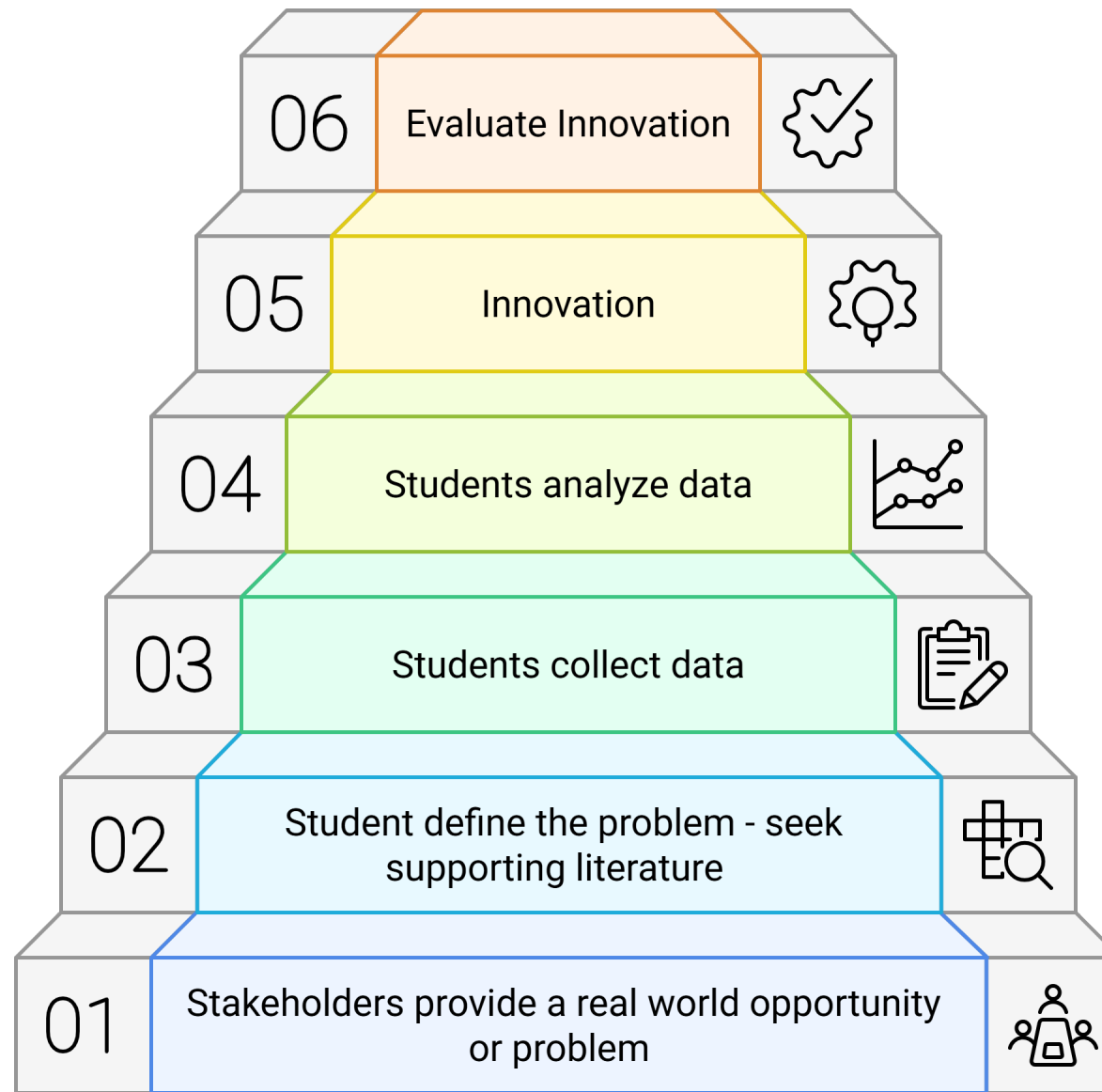
Entrepreneurship



Evidenced-based Innovation Mindset



(Covin et al., 2020
Chen et al., 2001
DeClercq et al., 2013
Duckworth et al.,
2007)

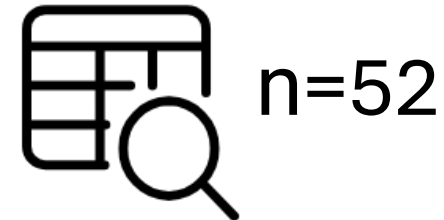


Study design

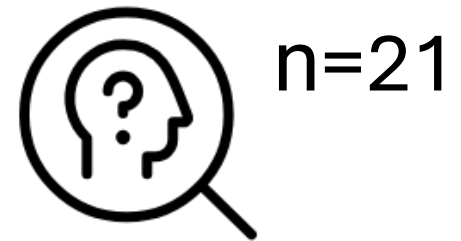
Examined the impact of developing an evidence-based innovation mind-set on final-year occupational therapy students

Mixed methods research:

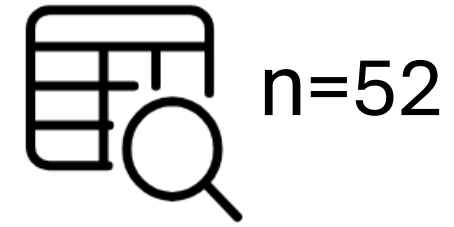
1) Measure changes



2) Understand how these changes occurred

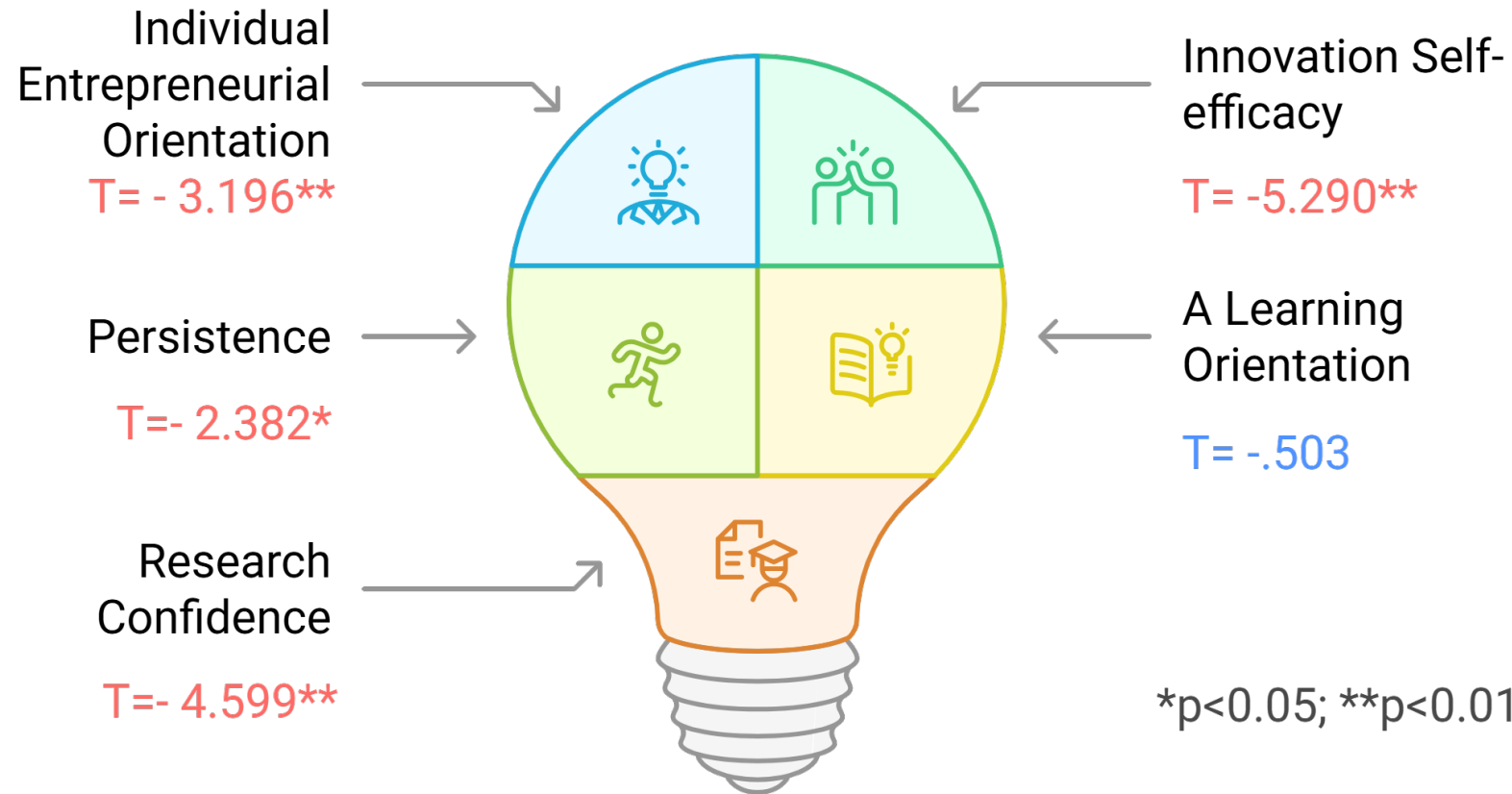


Questionnaire



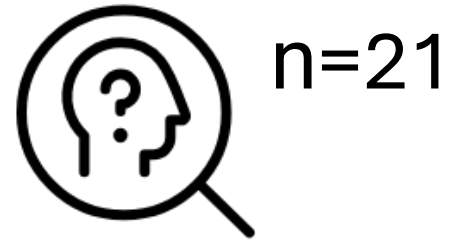
- Elements of 4 validated business study tools (Covin et al., 2020; Chen et al., 2001; DeClercq et al., 2013; Duckworth et al., 2007)
- 5 constructs from 25 items
- Likert scale 5-point
- Pre and post measurement T1 and T2 – Wilcoxon signed rank test SPSS

Changes in evidence-based innovation mindset dimensions, Wilcoxon signed-rank test



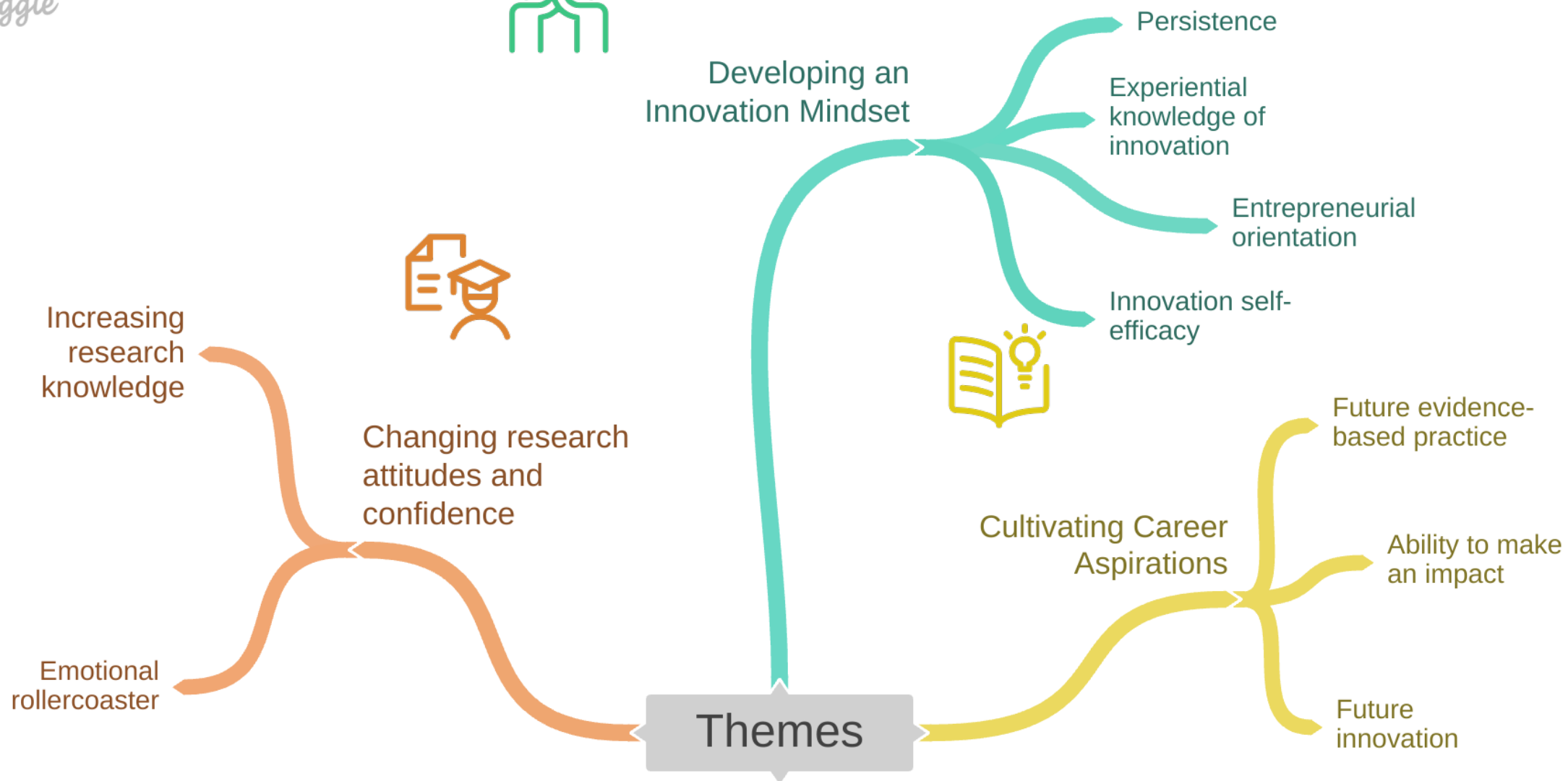
(Covin et al., 2020
Chen et al., 2001
DeClercq et al., 2013
Duckworth et al., 2007)

Qualitative interviews



- Semi structured Interviews
- Reflexive Thematic Analysis (Braun and Clarke, 2021)
- Line-by-line coding by a team of four researchers (Nvivo)
- Research team
 - Occupational therapy and Business academics
 - Occupational therapy student researcher

ggle





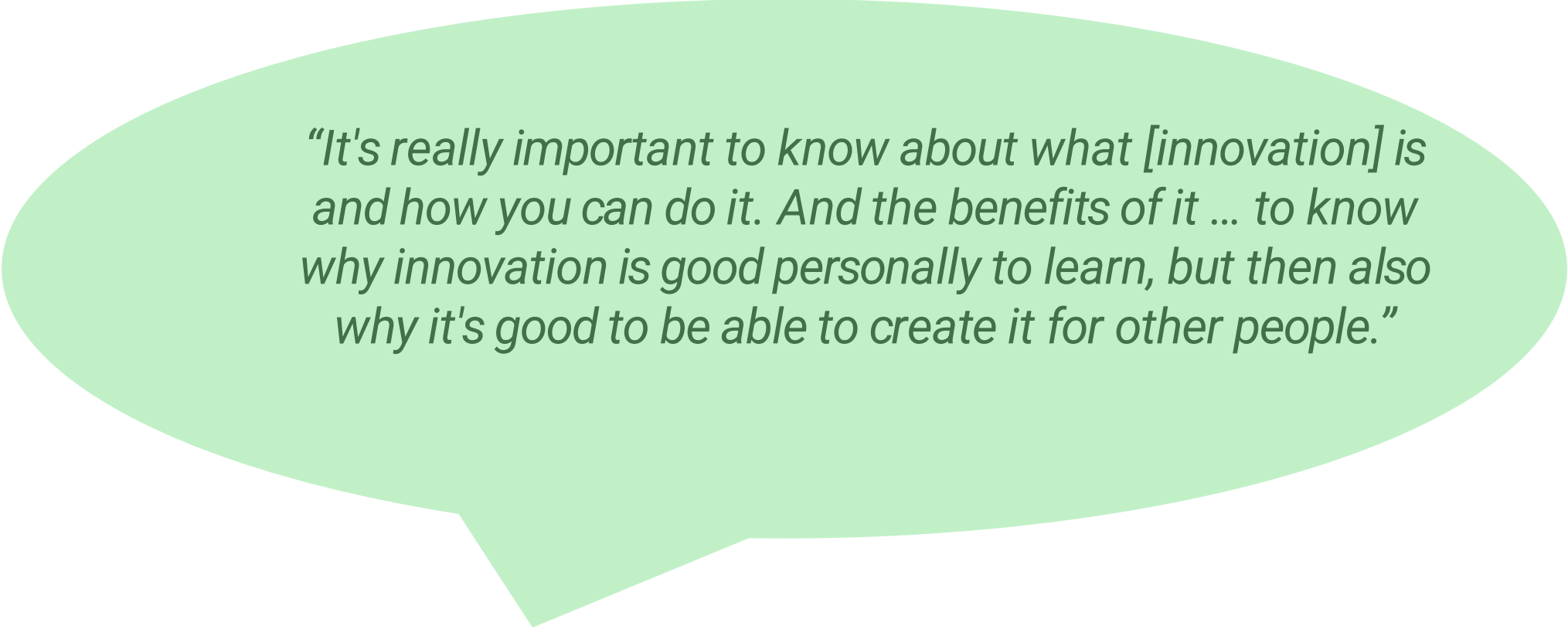
Developing an Innovation Mindset

Persistence

Experiential
knowledge of
innovation

Entrepreneurial
orientation

Innovation self-
efficacy



“It's really important to know about what [innovation] is and how you can do it. And the benefits of it ... to know why innovation is good personally to learn, but then also why it's good to be able to create it for other people.”

Experiential knowledge of innovation

*think outside
of the box*

non-linear

*Projects ... (that) were
brave, and they were
bold ... really, paid off*

*constantly
changing*

Entrepreneurial orientation

Increasing
research
knowledge



*Initially, I would have
thought, research was
for academics.*

Changing research
attitudes and
confidence

Emotional
rollercoaster

In my future practice, I am going to have to continue to be innovative and think outside the box.



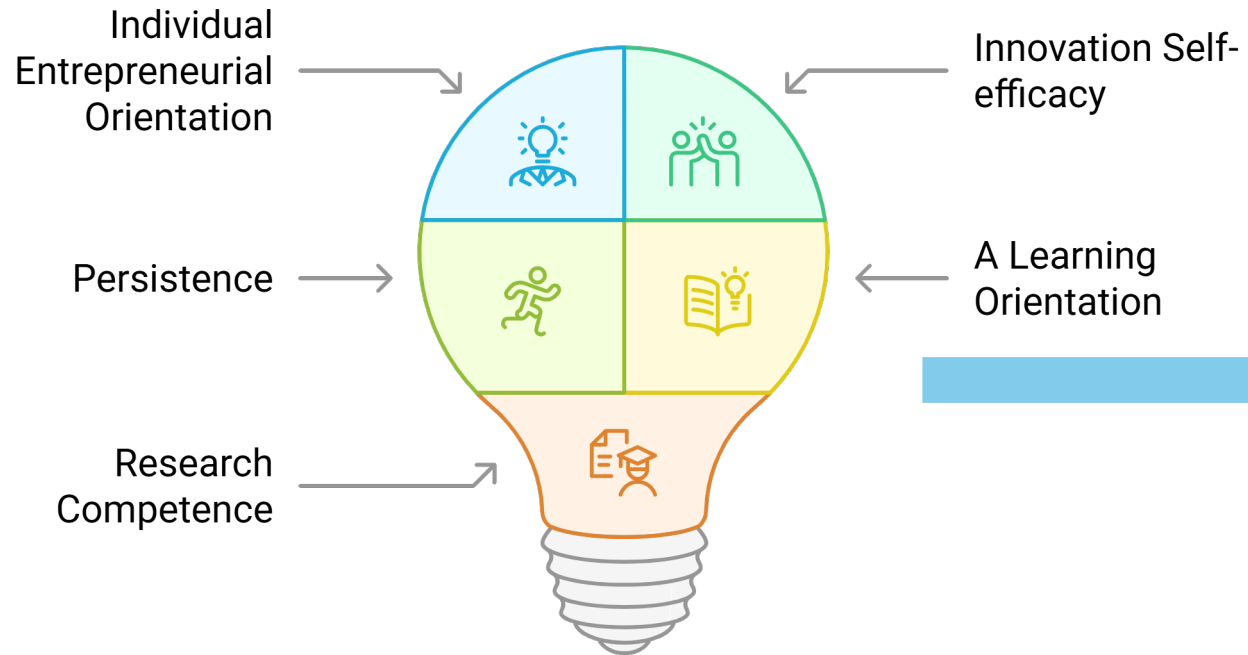
Cultivating Career Aspirations

Future evidence-based practice

Ability to make an impact

Future innovation

Evidenced-based Innovation Mindset



Future
Career
Aspirations

Conclusion

Targeting an evidence-based innovation mindset can :

- change students' perception of research
- change students' confidence to innovate
- drive future occupational therapist - adopt work-place research

in response to the changing world
and to change the world

Improve employability?

Can this be replicated elsewhere?



University of the
Sunshine Coast
Australia

Thank you for your interest



Queensland
Government

Department of Environment and
Science

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