

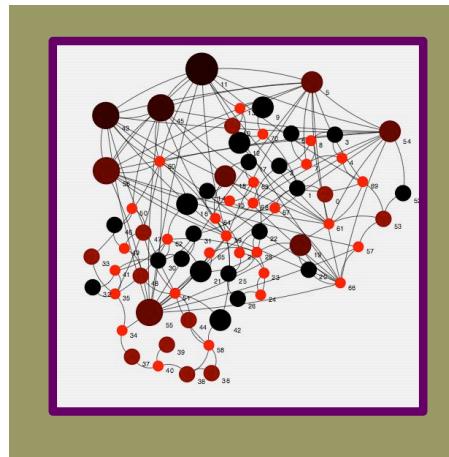
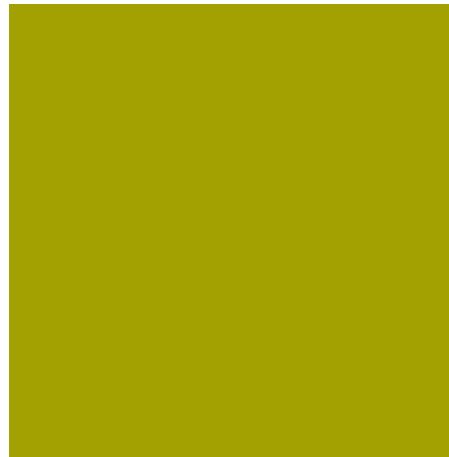


COMP47360

Research Practicum

Research Skills

June 2017



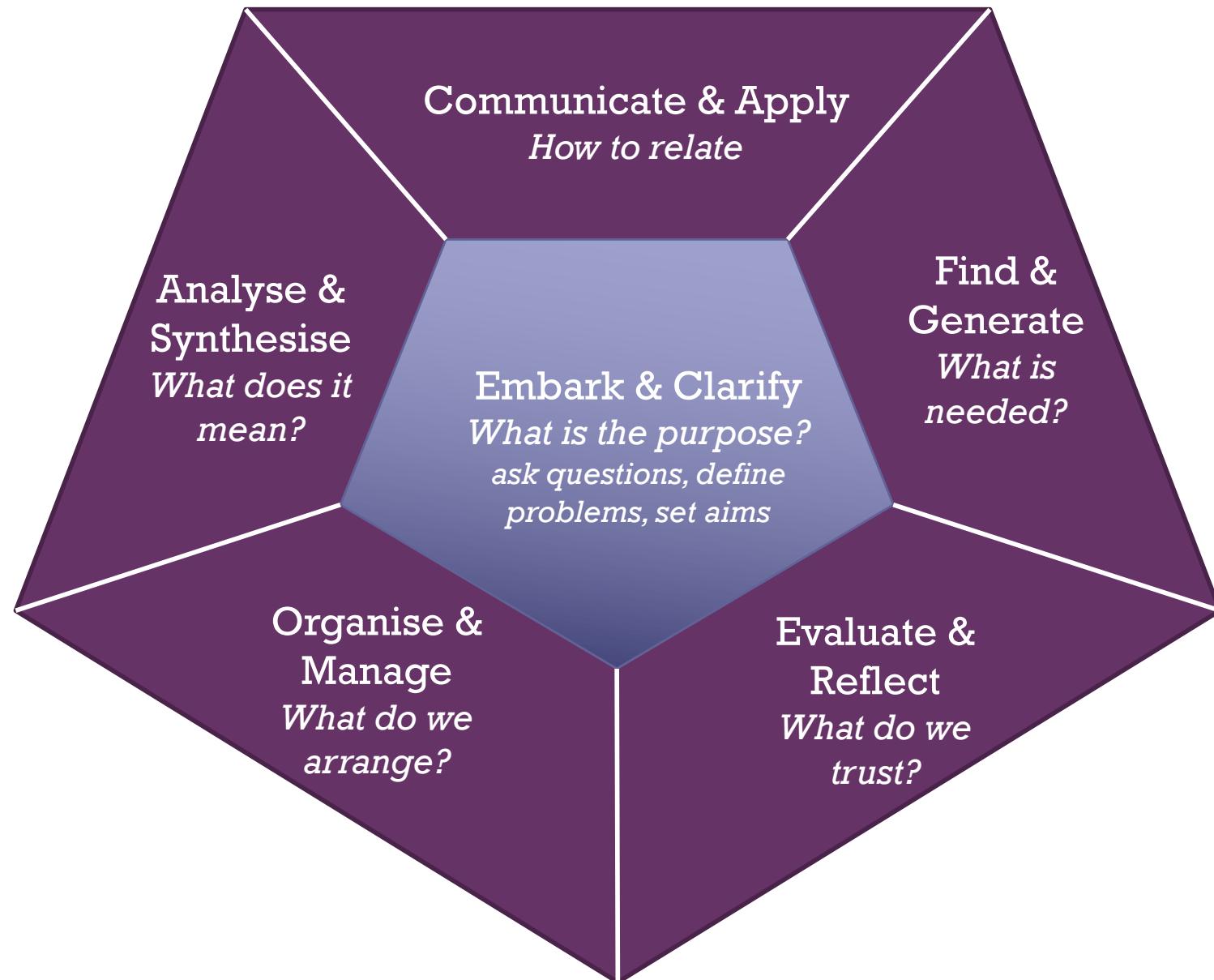
Prof. Julie Berndsen
School of Computer Science

Julie.Berndsen@ucd.ie



Research Skills Framework

RP



+ Group Exercise

‘Lightning never strikes twice in the same place’
(in the same storm)

RP

True or False?

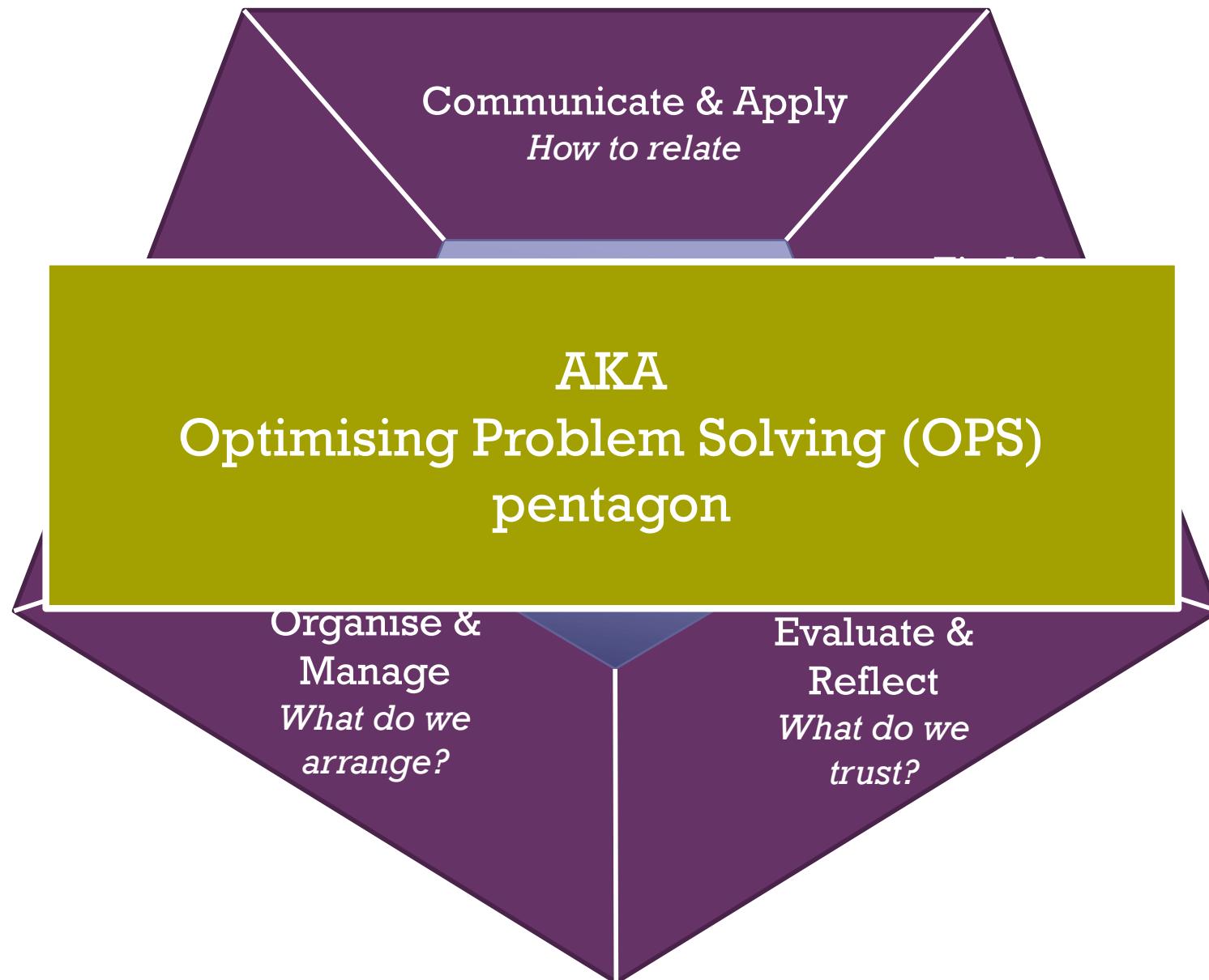
5 minutes

RSDF	What Skills?
Embark & Clarify	Asked questions
Find & Generate	Used Google or prior knowledge
Evaluate & Reflect	Reflected on process to do analysis Considered more plausible interpretation
Organise & Manage	Wrote 2 lists
Analyse & Synthesise	Decided on answer
Communicate & Apply	Talked to each other Communicated to group



Research Skills Framework

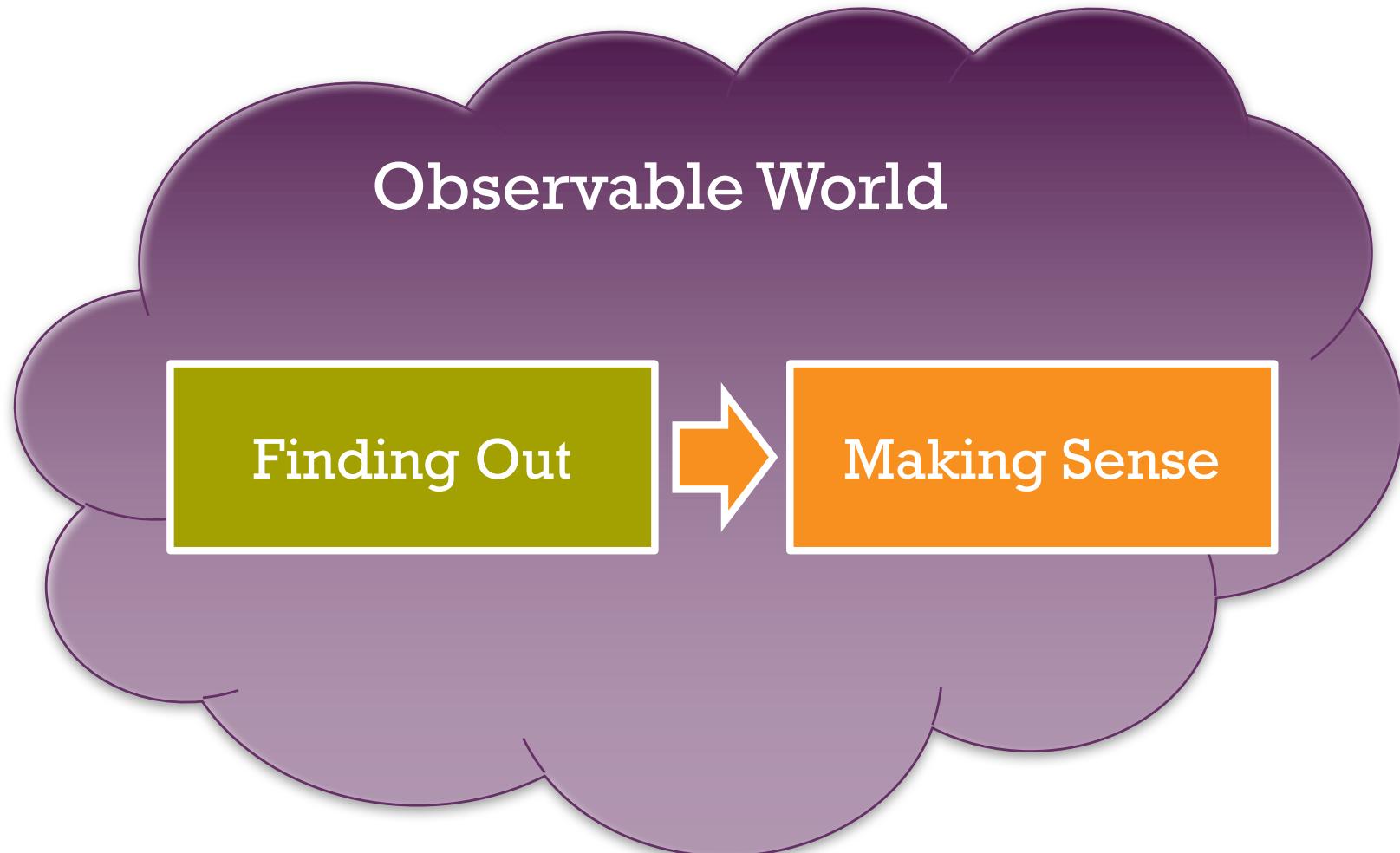
RP





Research?

RP



Scientific Research



Scientific Research

RP

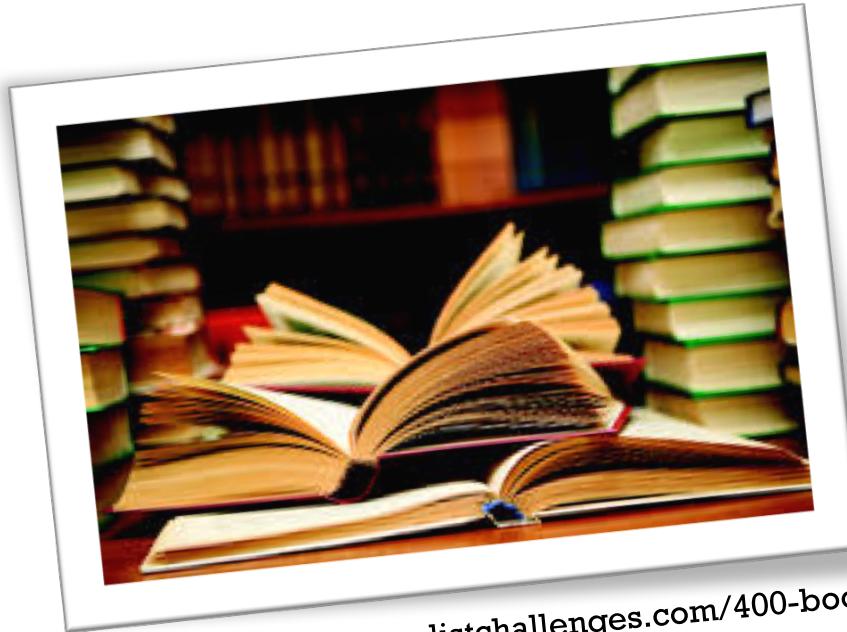


Image source: <http://www.listchallenges.com/400-books-so-far>

- Scientific research
- Peer review
- Trustworthy literature

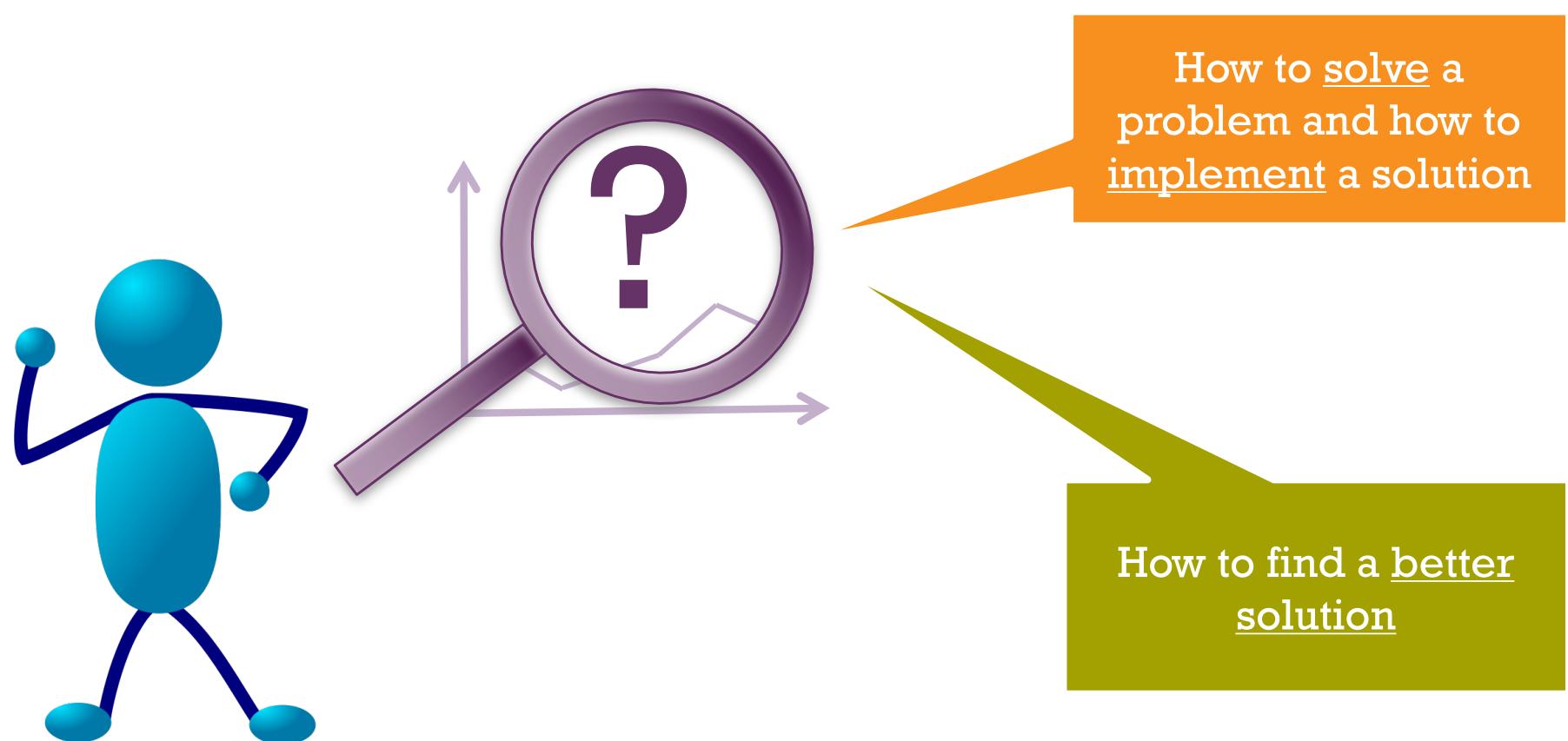


Image source: <https://www.famousscientists.org>



Scientific Research

RP



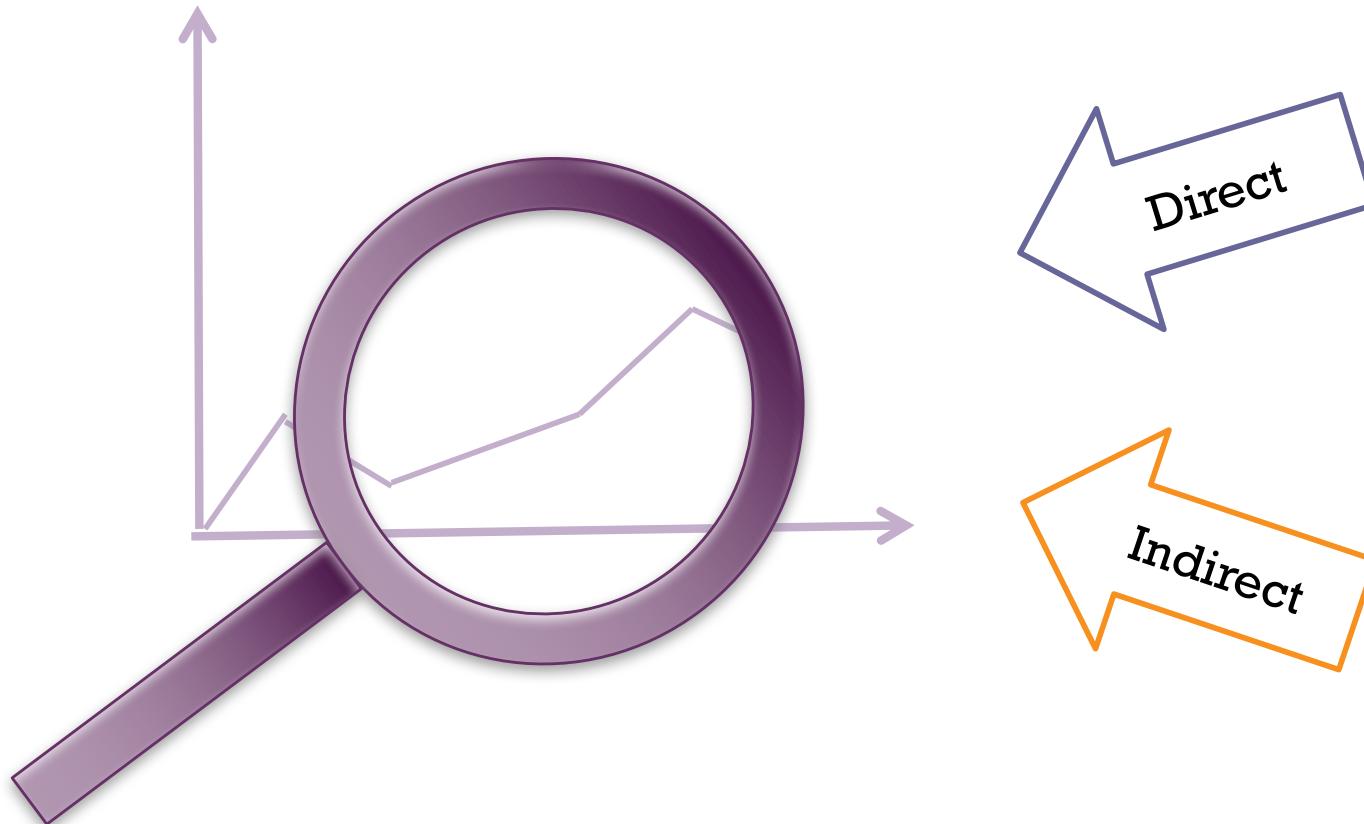
<http://felineclipart.com/clipart/8TARap7Ta.htm>

Based on: Epigeum Online Materials: Research Methods in the Sciences – www.epigeum.com





Scientific Research

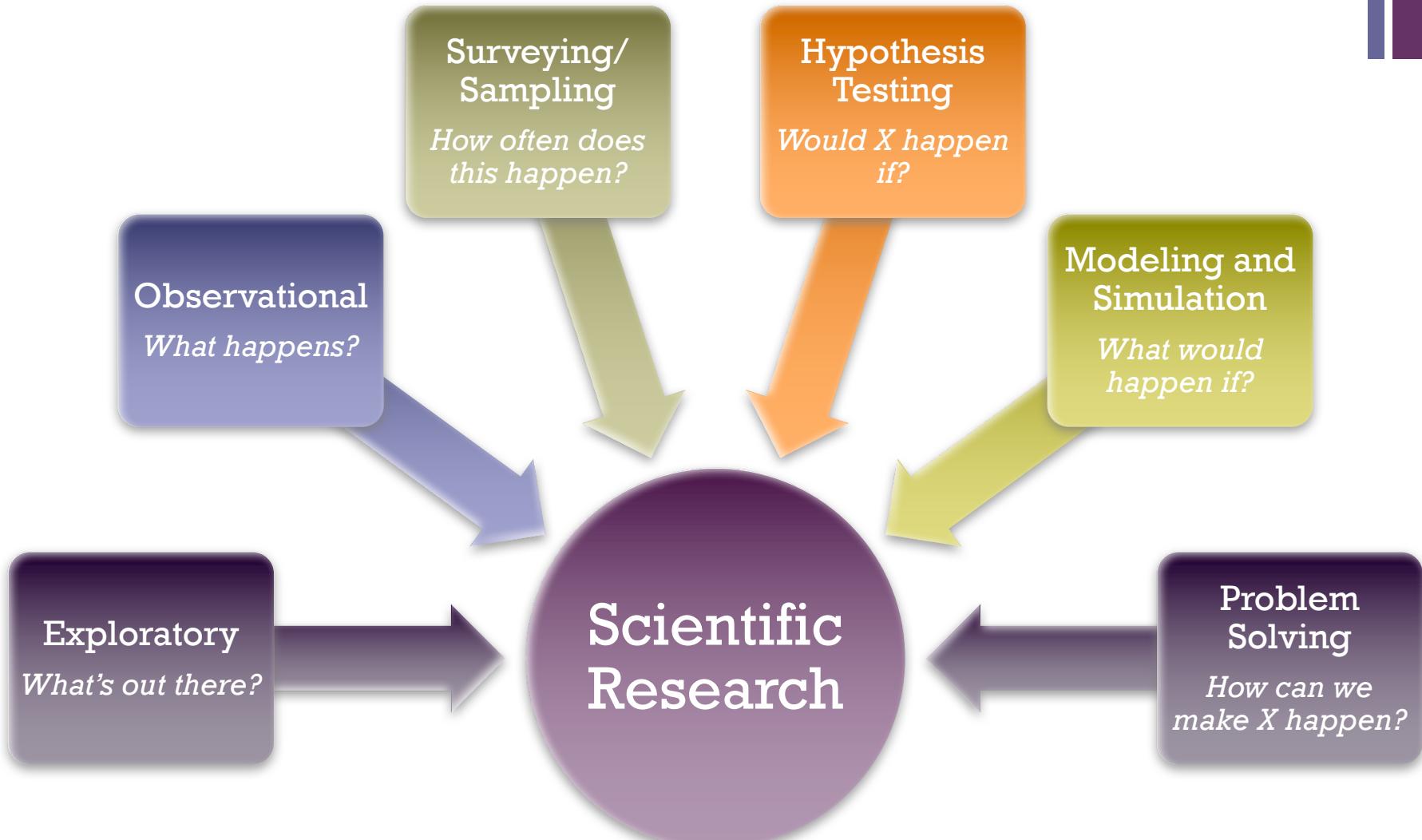


- Interpretation of observable evidence
- Prediction
- Testing of predictions



Research Methods

RP





Your Project

RP

Background research...

What is
already
known?

Rationale

... motivating your work



Consult the Literature

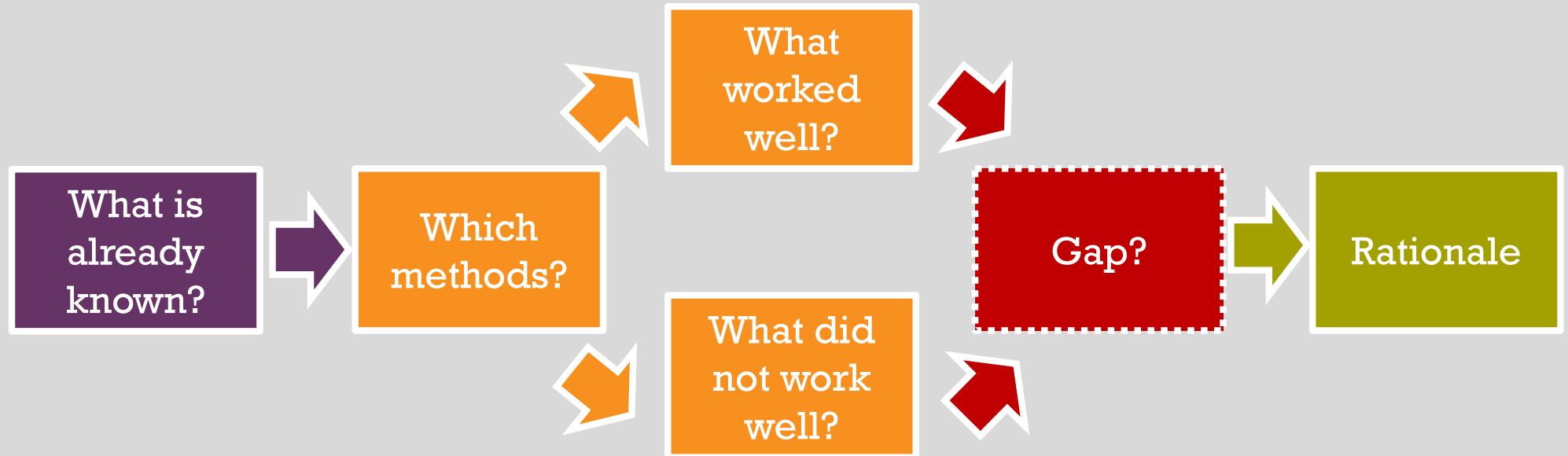
RP

What is
already
known?

- Papers made available to you on the topic
- Look for research papers and scientific reports on the specific topic or a related topic
- Journals and conference papers
- Online or in the library
- NOT wikipedia
- Do not copy and paste portions of the literature into your notes
- Summarise the salient points of each paper in your notes together with the exact bibliographic reference
- You may later want to go back and find an actual quote (although this should be the exception)
- Note your own opinion on what the paper says
- Your own words demonstrate that you have understood the papers

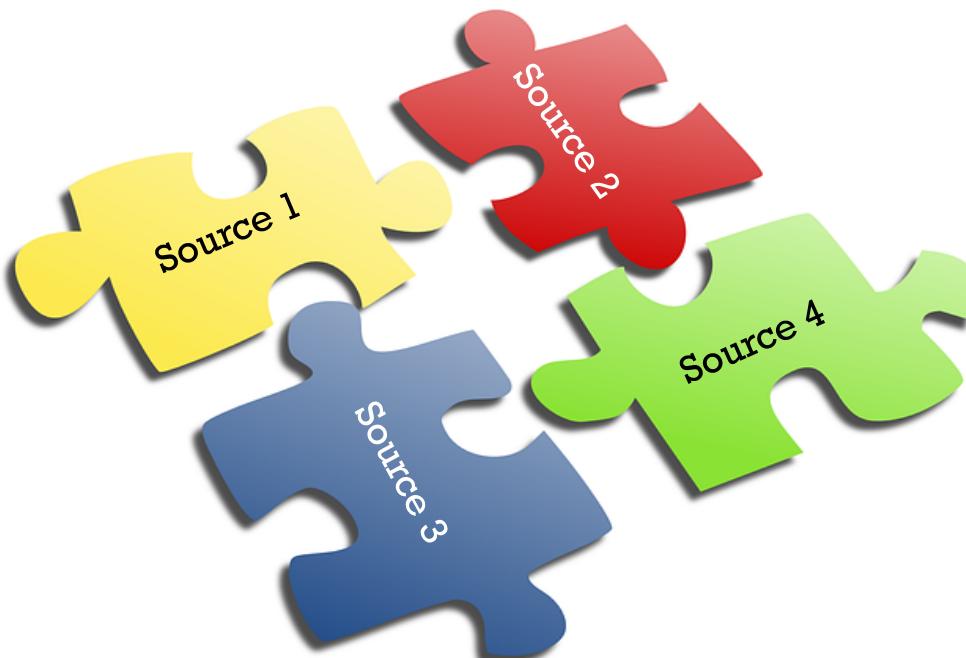


Background research...



Literature Review

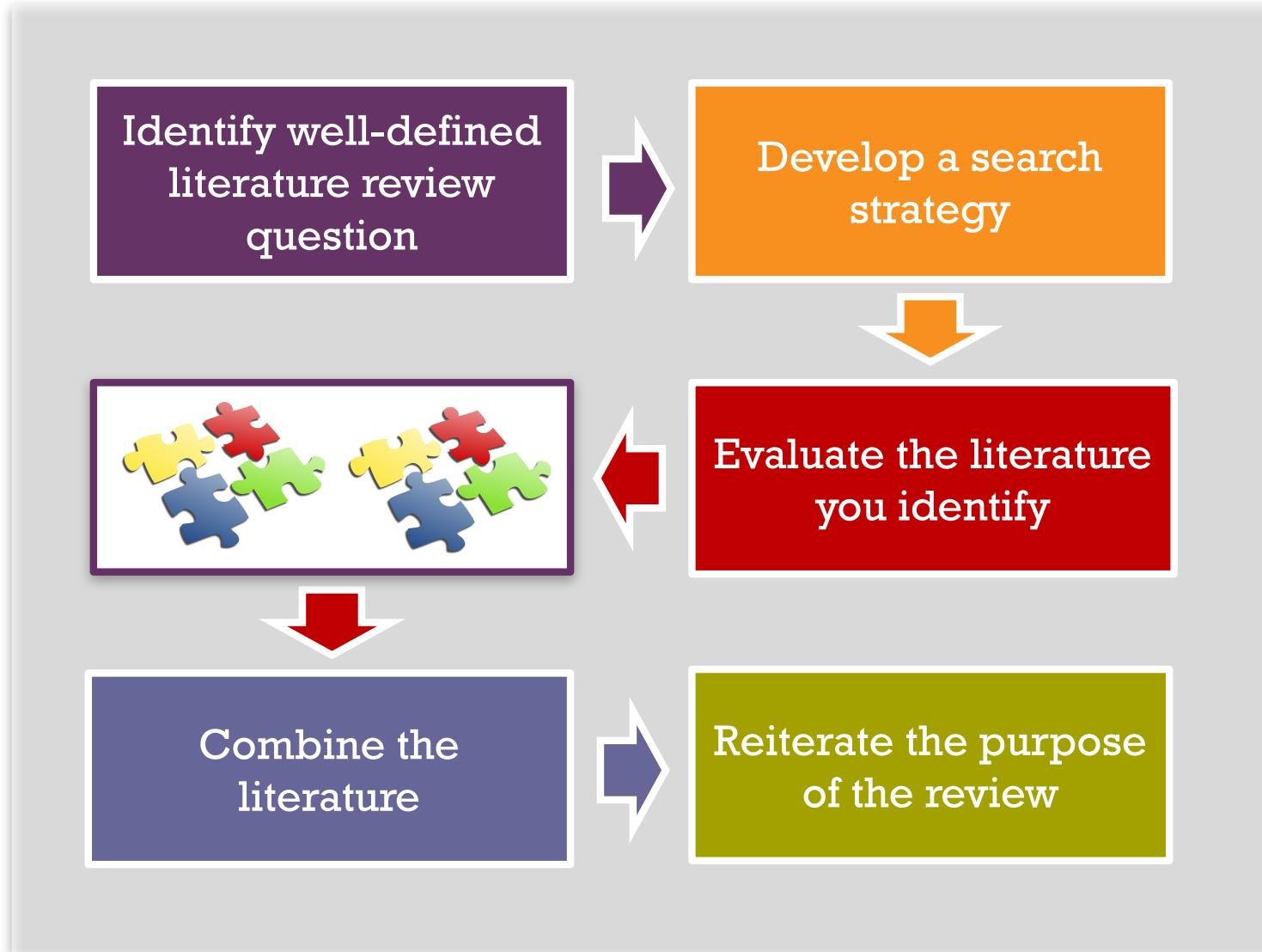
- “A literature review is the comprehensive study and interpretation of literature that relates to a particular topic.”
(Aveyard 2007)





Literature Review

RP



+ Tips

RP

- Use a standard citation format - look at the tips on this (and how to avoid plagiarism) at www.plagiarism.org/citing-sources/overview/
- Use a spell-checker!
- Don't forget your own time management; if you don't plan, you are setting yourself up for failure
- Recall the UCD grade descriptors

