Searching Scientific and Technical Journals Using the Research4Life Programs

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ACCESS TO GLOBAL ONLINE RESEARCH IN AGRICULTURE

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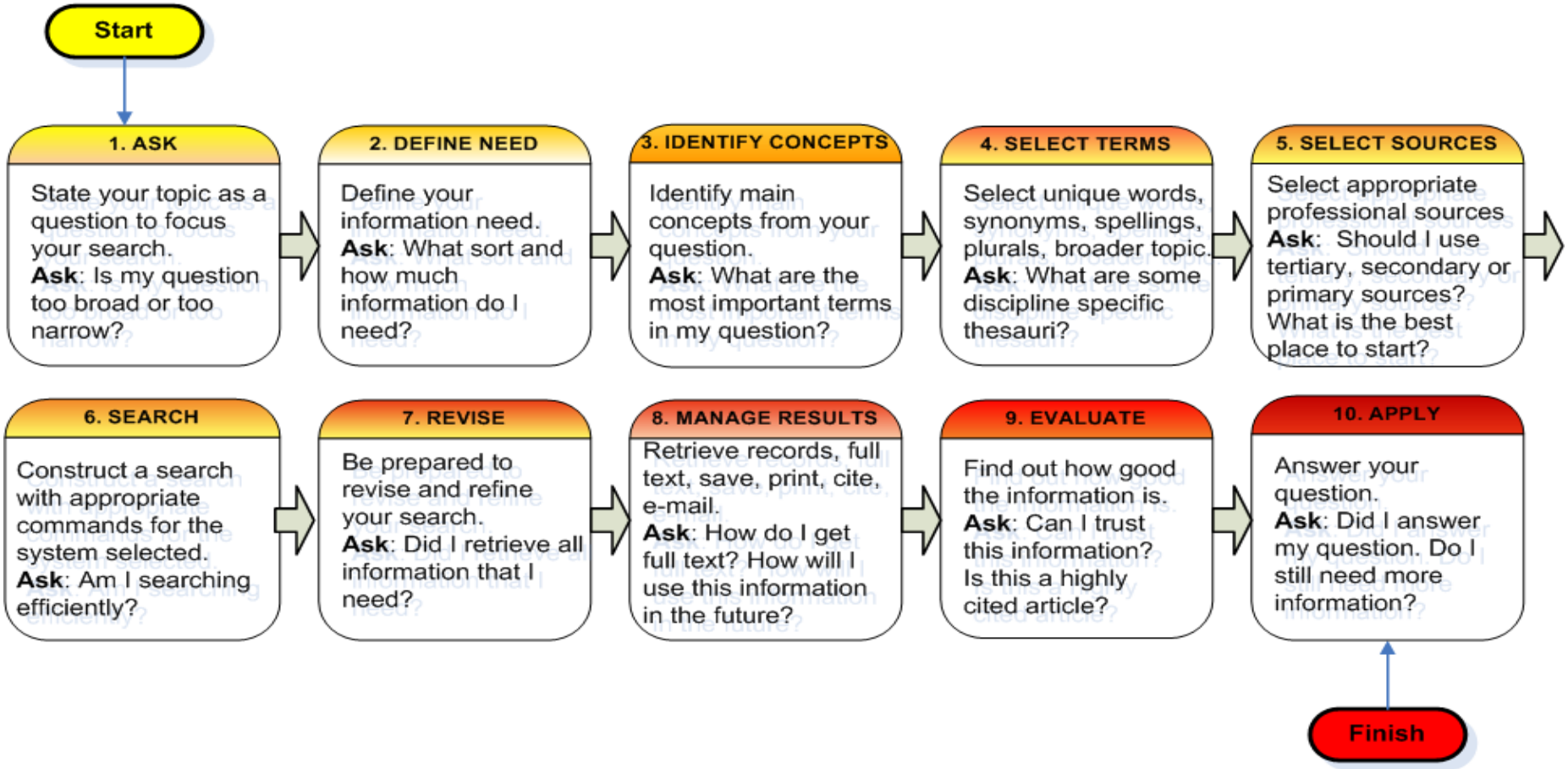
Planning a Search Strategy

Developing a Search Strategy: Process Overview



Remember: Your question drives the search strategy. There is no one best way to search. Avoid one stop searching to prevent bias.

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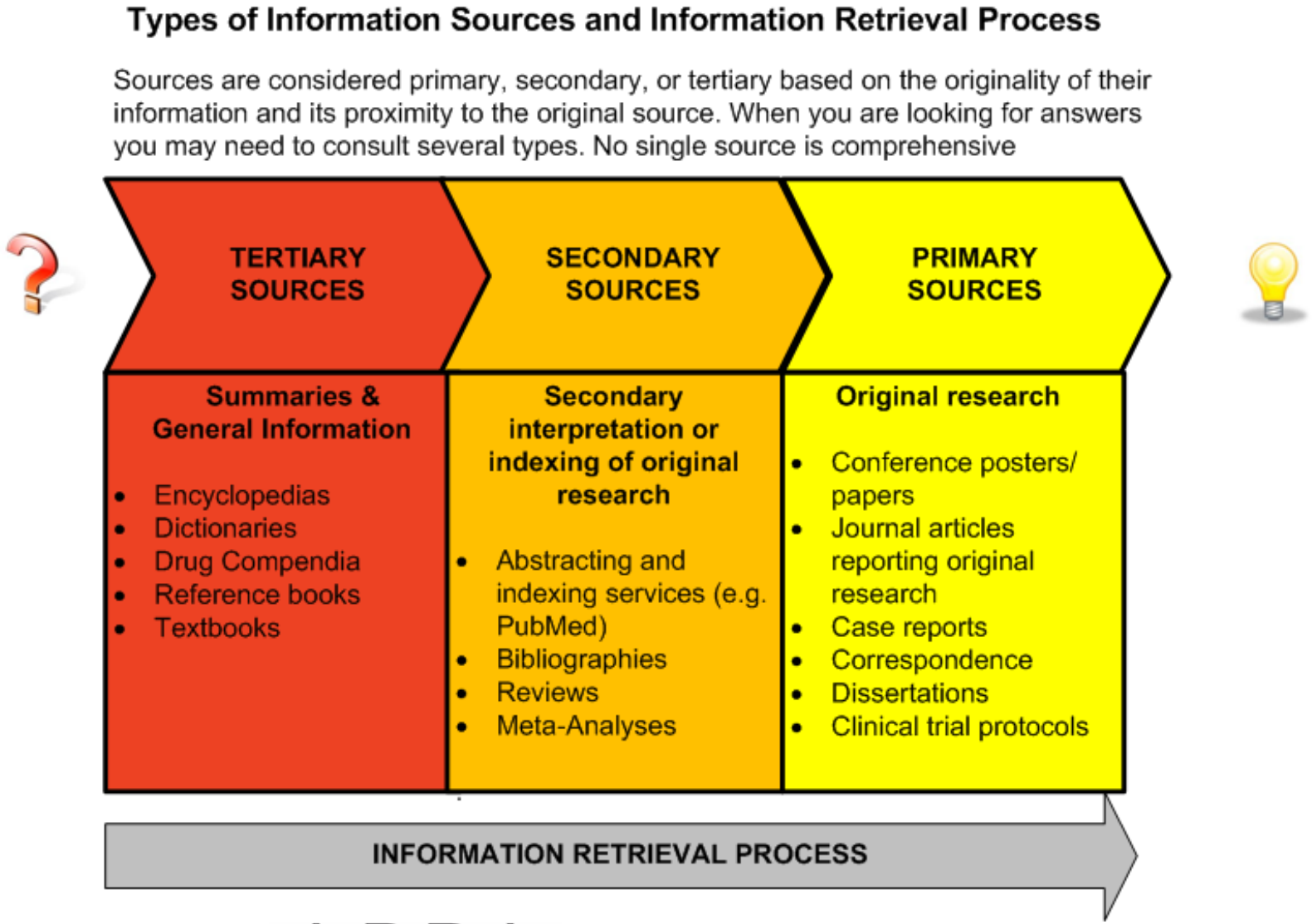
Steps 1-4: Example – health problems AND water pollution

1. Ask: What health problems are associated with water pollution?
2. Need: scholarly primary research
3. Main Concepts: health, water, pollution
4. Select terms:
   - Broader terms: 'health', environmental degradation', 'agricultural management',
   - Synonyms:
     health, illness, disease, etc.
     water, rivers, lakes, sea, domestic water, etc.
     pollution, 'oil spills', chemical, biological, toxicity, etc
   - Alternative spellings: none
   - Plurals: river(s), lake(s), disease(s)
   - Capitals: e.g. name of a specific lake, disease, region

Step 5. Select a Source



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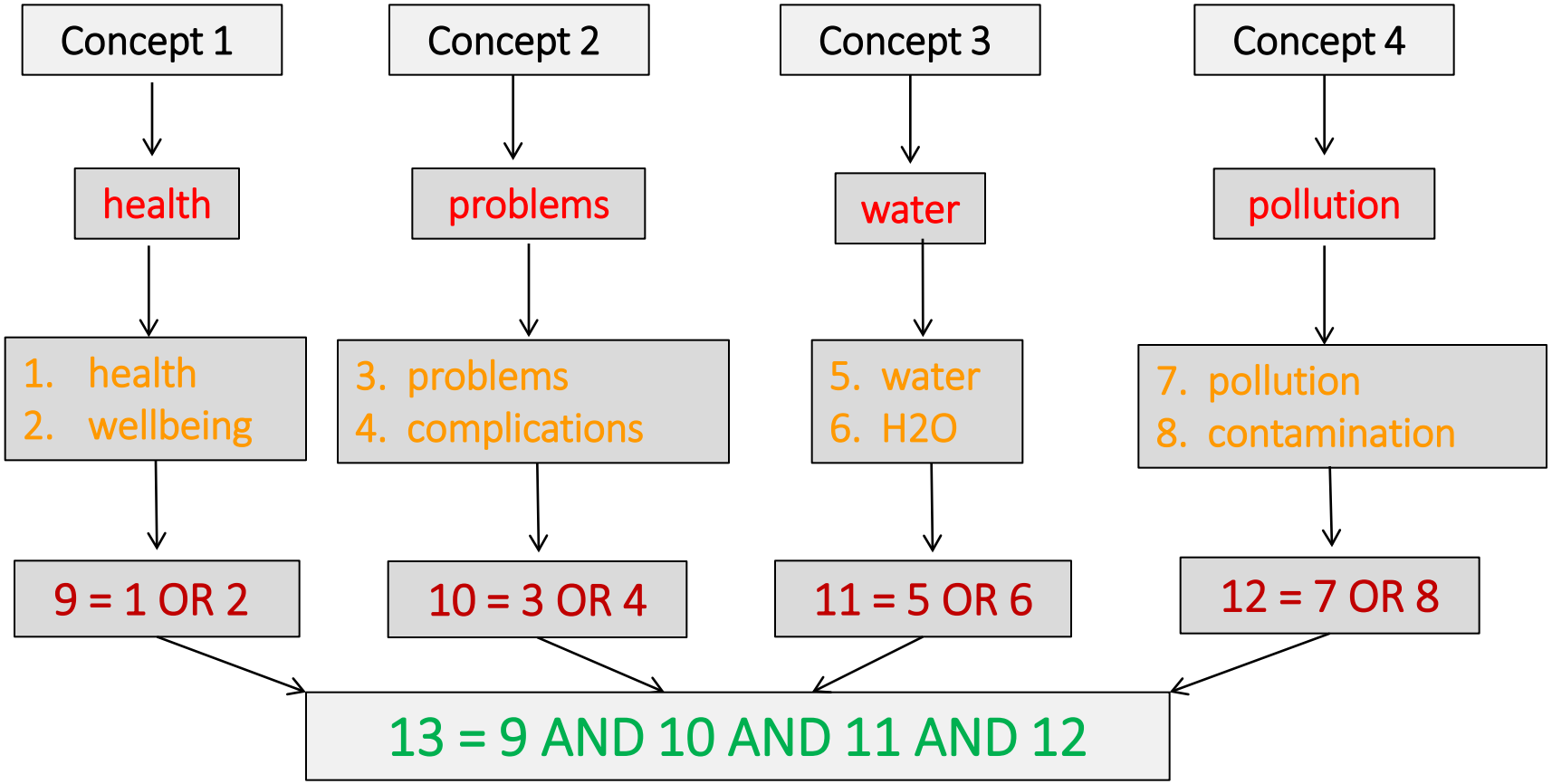
Step 6. Search: construct a search using the appropriate commands and best practices

Question: What health problems are associated with water pollution?



Step 7. Revise

Review and refine your search

- Be prepared to review/revise your search
- Keep your search terms in concept sets or zones but remember to explore subtopics
- Try new sources of information
- Save the search and citations for future use
- Promote use of high-quality resources

Step 8. Manage Results

- Download, print, save, e-mail results & search history
- Cite using a citation style
- Save search, set up alerts

Step 9. Evaluate-Who? What? When? Where? Why?

- Accuracy
- Authority
- Objectivity
- Currency
- Coverage

Step 10. Apply – Answer the question.

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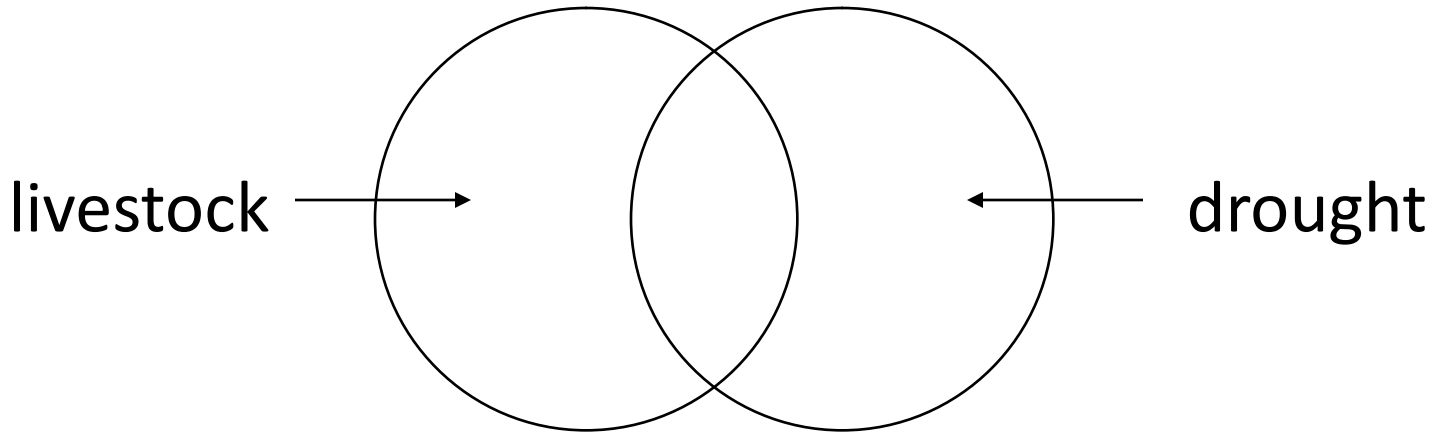
Boolean Operators

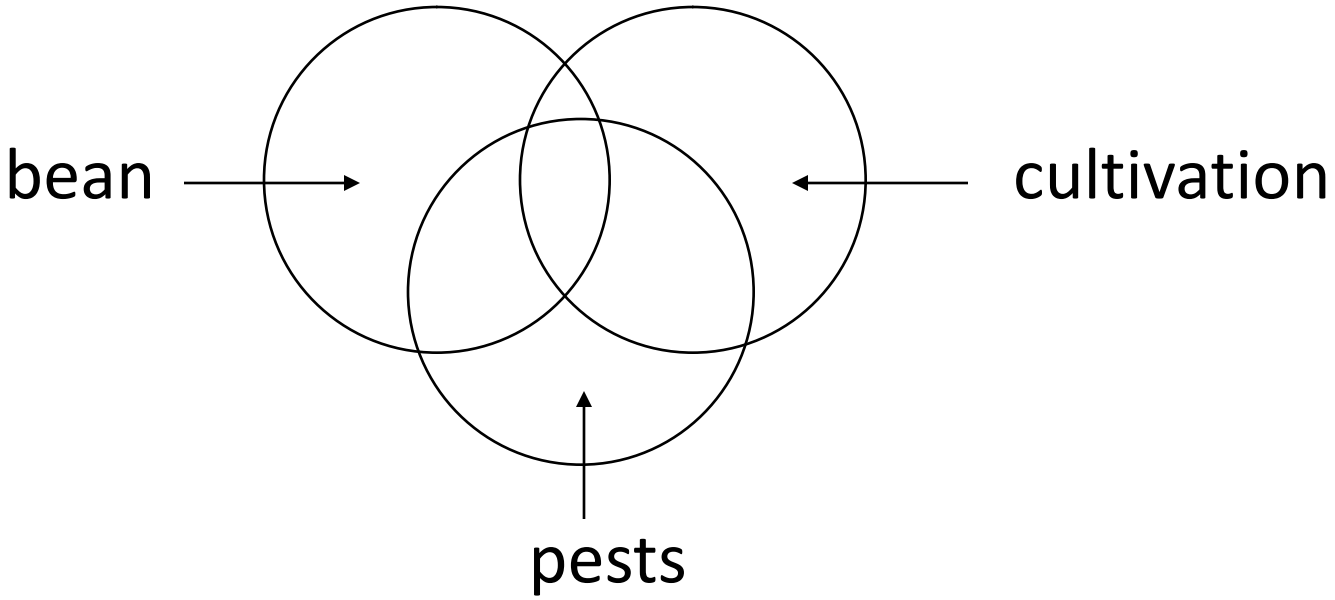
AND Operator

(to combine two concepts)



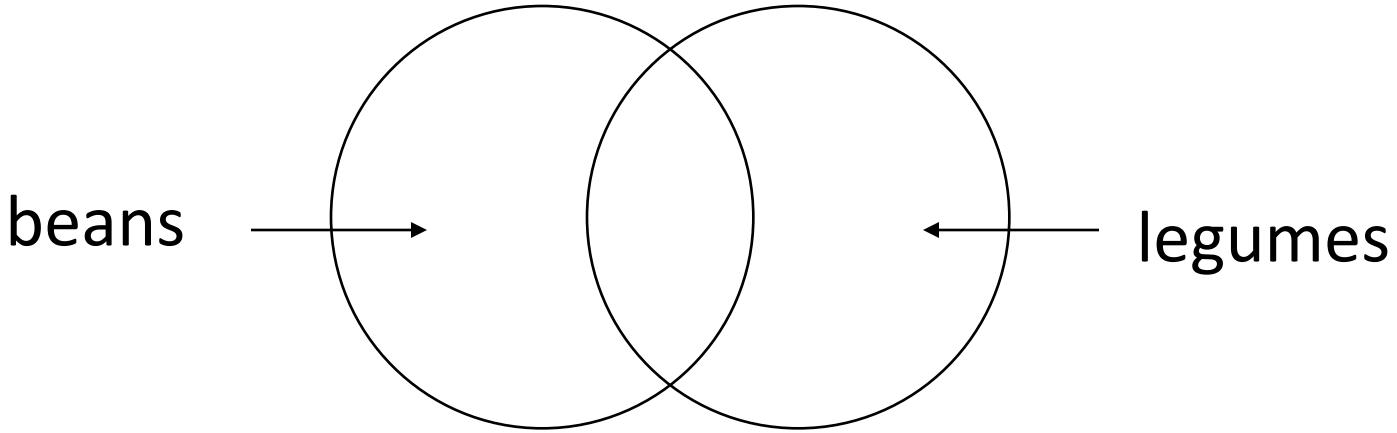
the **AND** operator is used to combine two concepts
e.g. livestock AND drought – results are in the combined area of the two circles

AND Operator
(to combine three concepts)



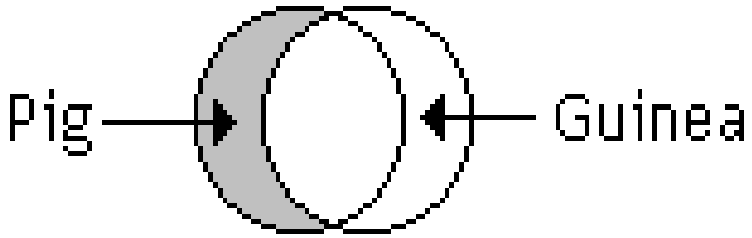
the **AND** operator is used to combine three concepts e.g. bean AND cultivation AND pests - in the combined area of the three circles

OR Operator
(info containing one or other term)



the **OR** is a means of combining synonyms e.g. beans OR legumes - in each circle's area with the overlap in the middle having both search terms

NOT Operator
(in one term or the other)



pig **NOT** guinea

pig **NOT** guinea – in the shaded area; eliminates items in 2nd term (guinea) or both terms

Other search engine functions

- Phrase or proximity searching: **"…"** or **(…)**
  - allows you to search for an exact phrase, e.g. pests and **(**bean cultivation**)**
- Truncation/wildcards: *****
  - allow you to search alternative spellings and plurals

  river***** for river OR rivers

  pesticide***** for pesticide OR pesticides

  program***** for programme or program
- Alternate spellings: **?**
  - can be used to substitute for characters anywhere in a word

    wom**?**n for woman or women

More Search Techniques

- Field Specific Searching
  - author, title, journal, date, url, etc.
- Language Restrictions, Humans or Animals and other limits (to be discussed in SCOPUS)
- Relevancy Ranking
  - a grading that gives extra weight to a document when the search terms appear in the headline or are capitalized
  - every found document is calculated as 100% multiply by the angle formed by weights vector for request and weights vector for document found

ARDI

- World Intellectual Property Organisation (WIPO), 14 Major publishers
- Launched July 23, 2009
- Includes Up to 5,100 journals; 19,000 books; and 20 other information resources from more than30 publishers
- available to 107 countries
- The newest addition to Research4Life programs

  http://ardi.wipo.int

ARDI Objectives

- Re-inforce the capacity of developing countries to participate in the global knowledge economy; and
- Support researchers in developing countries in creating and developing new solutions to technical challenges faced on a local and global level.

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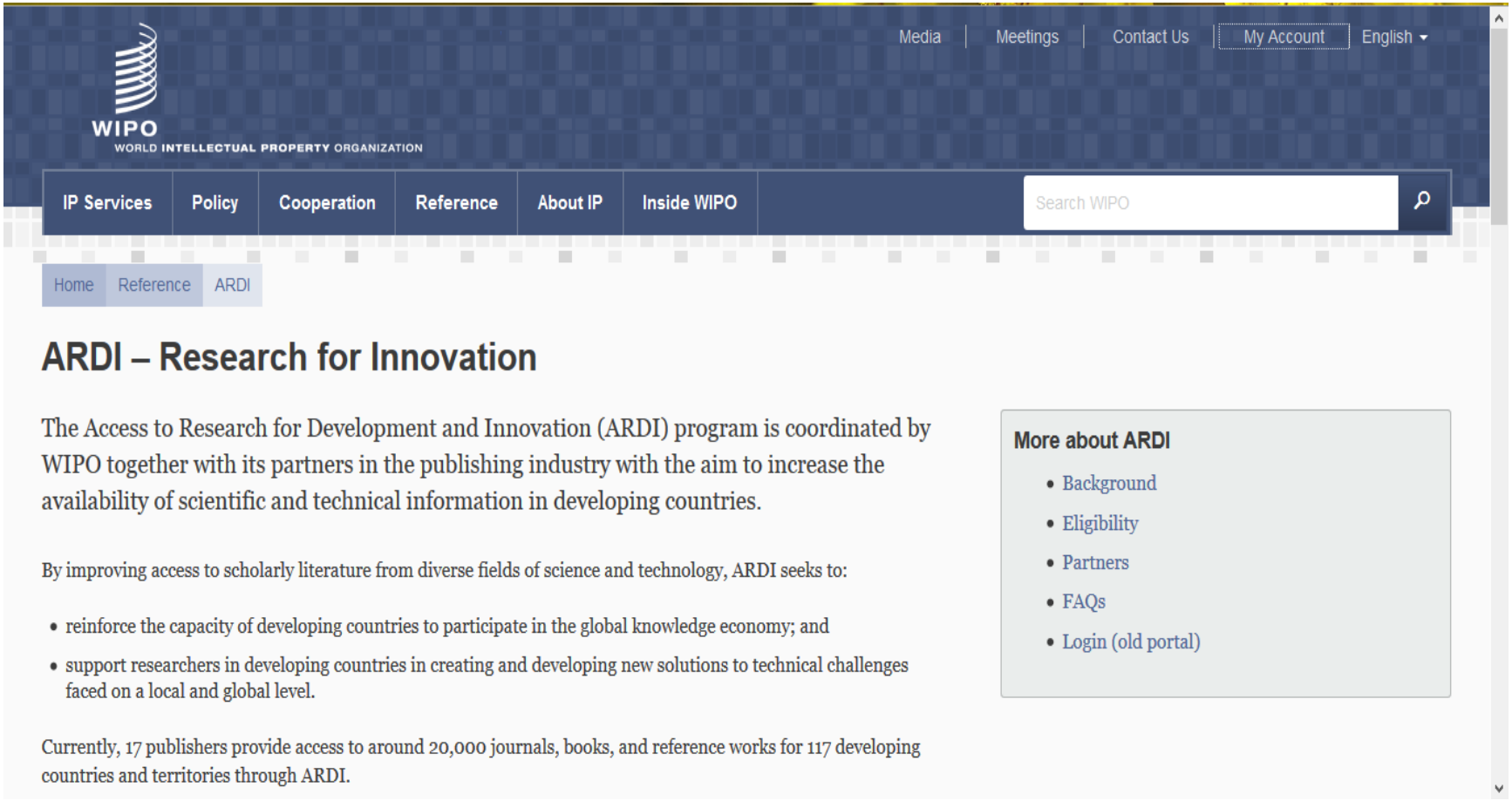

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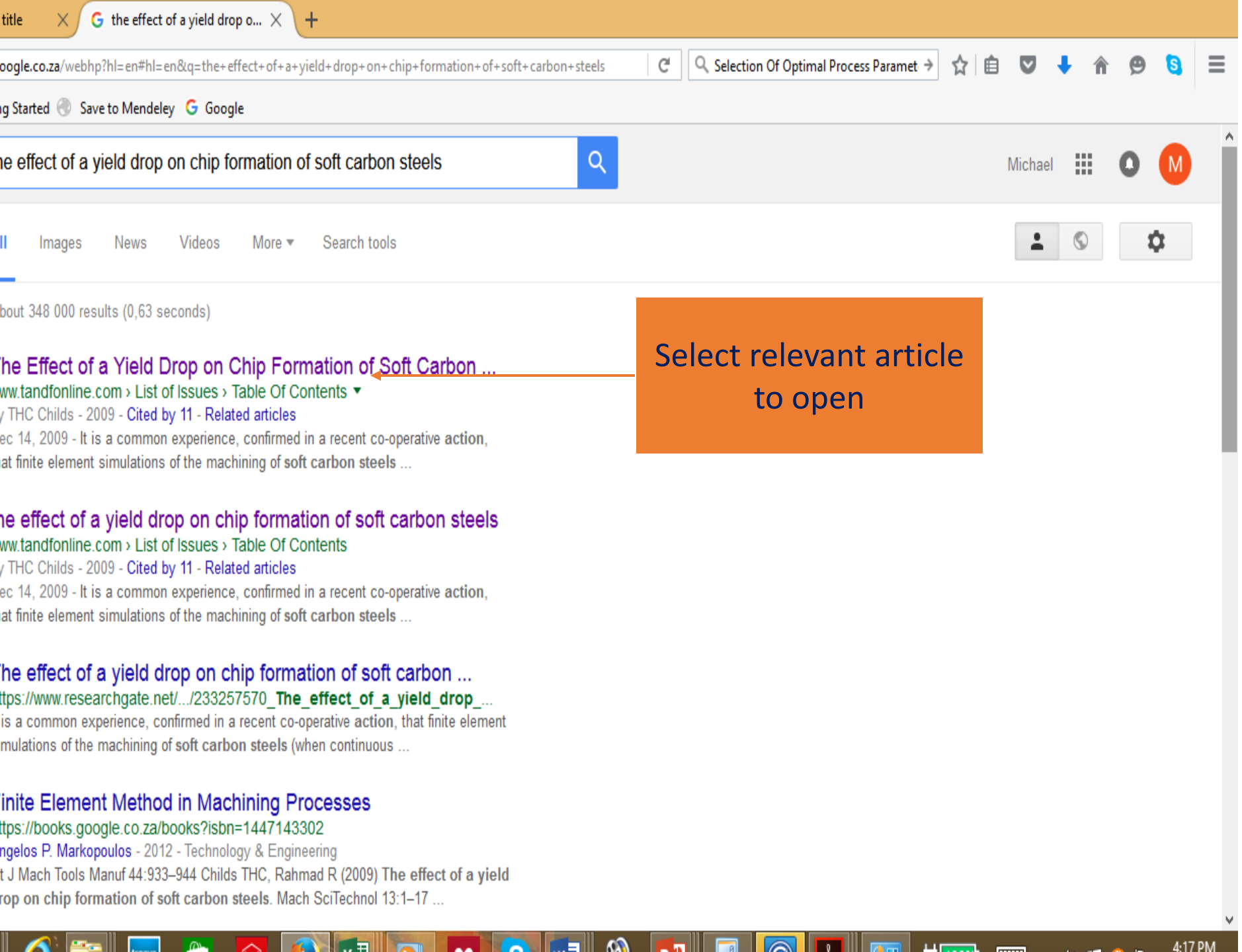
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T. H. C. Childs[a*] & R. Rahmad[ab]

pages 471-487

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Published online: 14 Dec 2009

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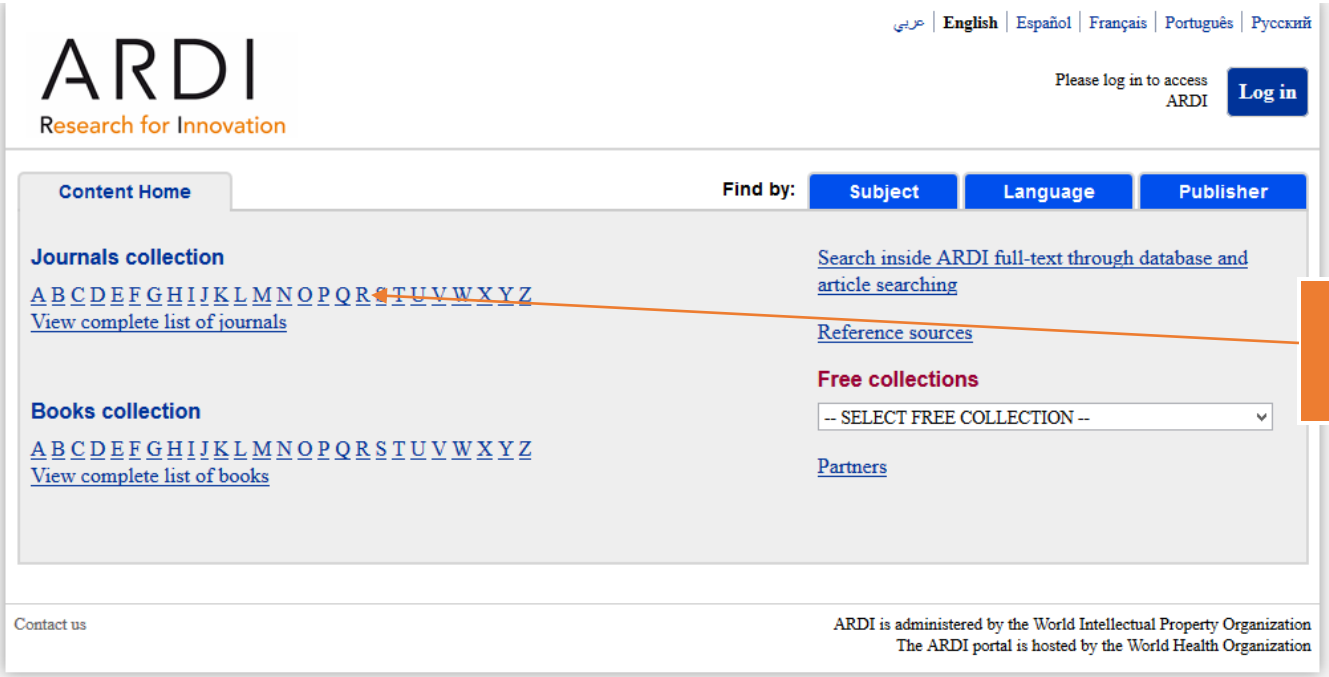

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THE EFFECT OF A YIELD DROP ON CHIP FORMATION OF SOFT CARBON STEELS

T. H. C. Childs[1] and R. Rahmad[1,2]
[1]*School of Mechanical Engineering, University of Leeds, Leeds, England*
[2]*Department of Manufacturing and Industry, Universiti Tun Hussein Onn, Malaysia*

□ *It is a common experience, confirmed in a recent co-operative action, that finite element simulations of the machining of soft carbon steels (when continuous chips are formed) do not correctly predict all three together of cutting force, thrust force and chip thickness ratio. This paper investigates the possibility that the source of error is in modelling the work materials' strain hardening behaviour, in ignoring the yield delay phenomenon that also shows itself as an upper yield point. First, the capability of a particular software to include an upper yield point is demonstrated. Then, the general effects of inclusion are shown before finally comparing simulations and experiments for a BS 970 070M20 steel (similar to AISI 1021). For agreement with experiment, not only an upper yield point, but also a correct dependence of flow stress on*

Thank you.

Any Questions?

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