



Searching Scientific and Technical Journals Using the Research4Life Programs

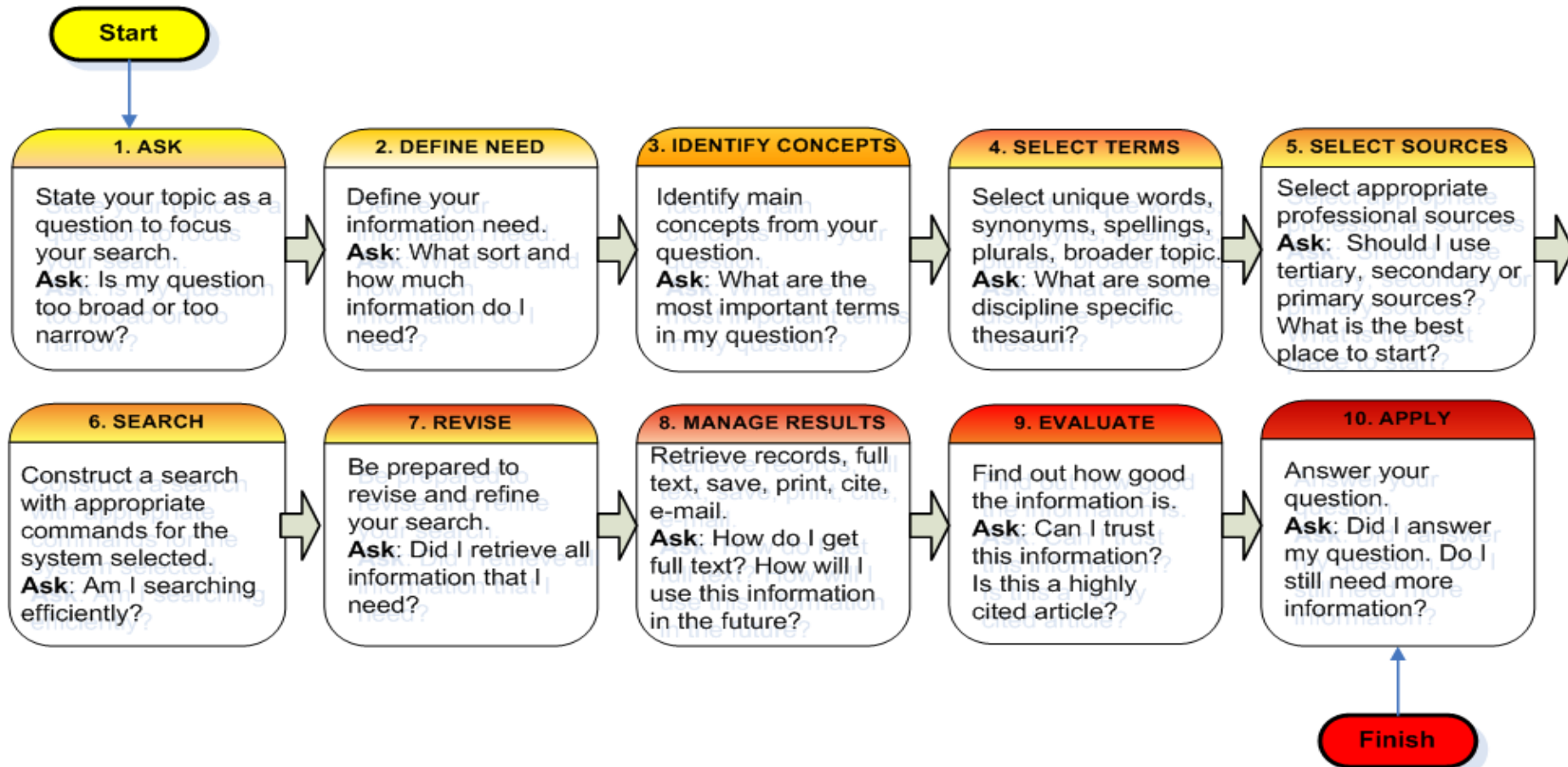


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- Planning a Search Strategy
- Boolean Operators
- Additional Search Techniques
- Evaluating Internet-based Information

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.

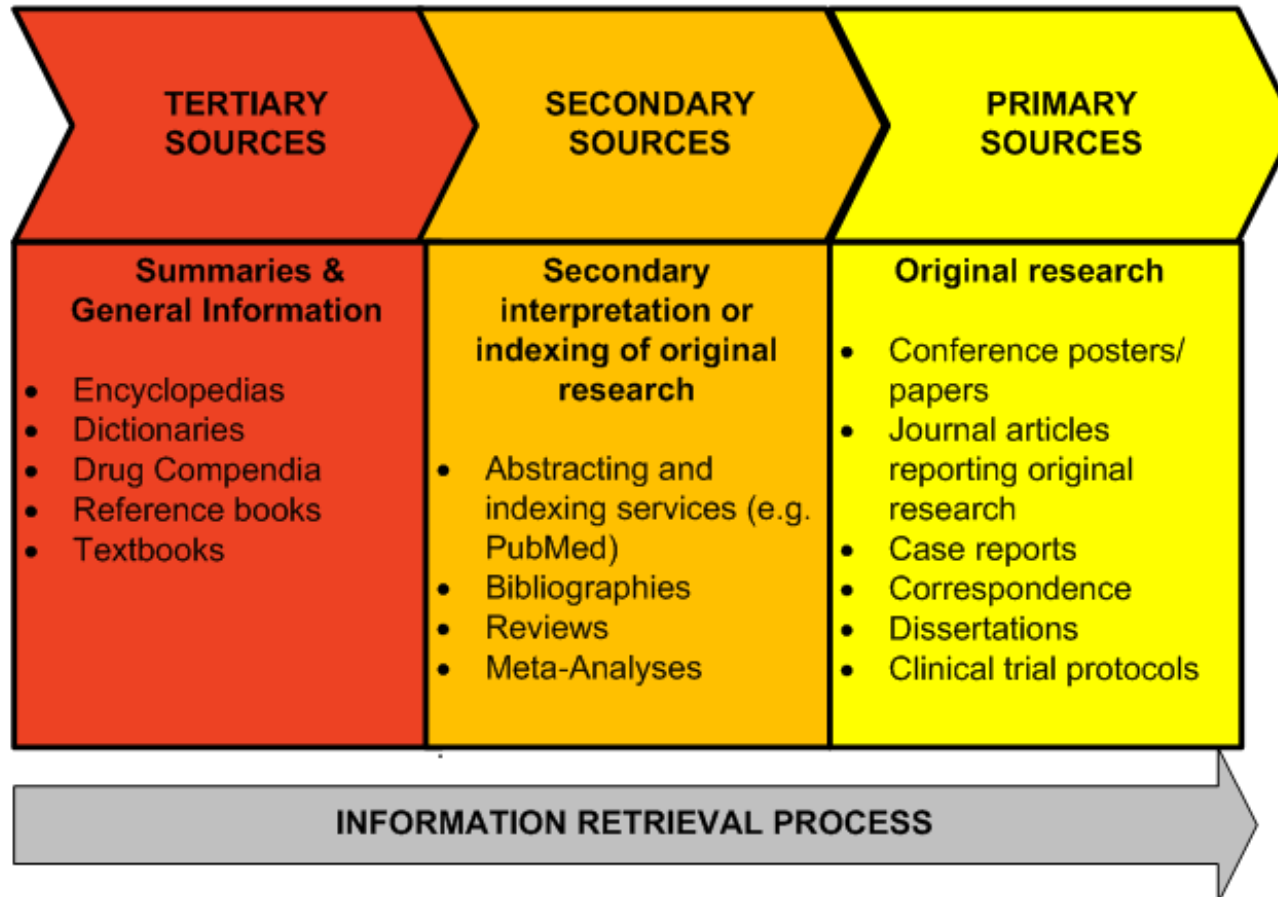
Steps 1-4: Example – health problems AND water pollution

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

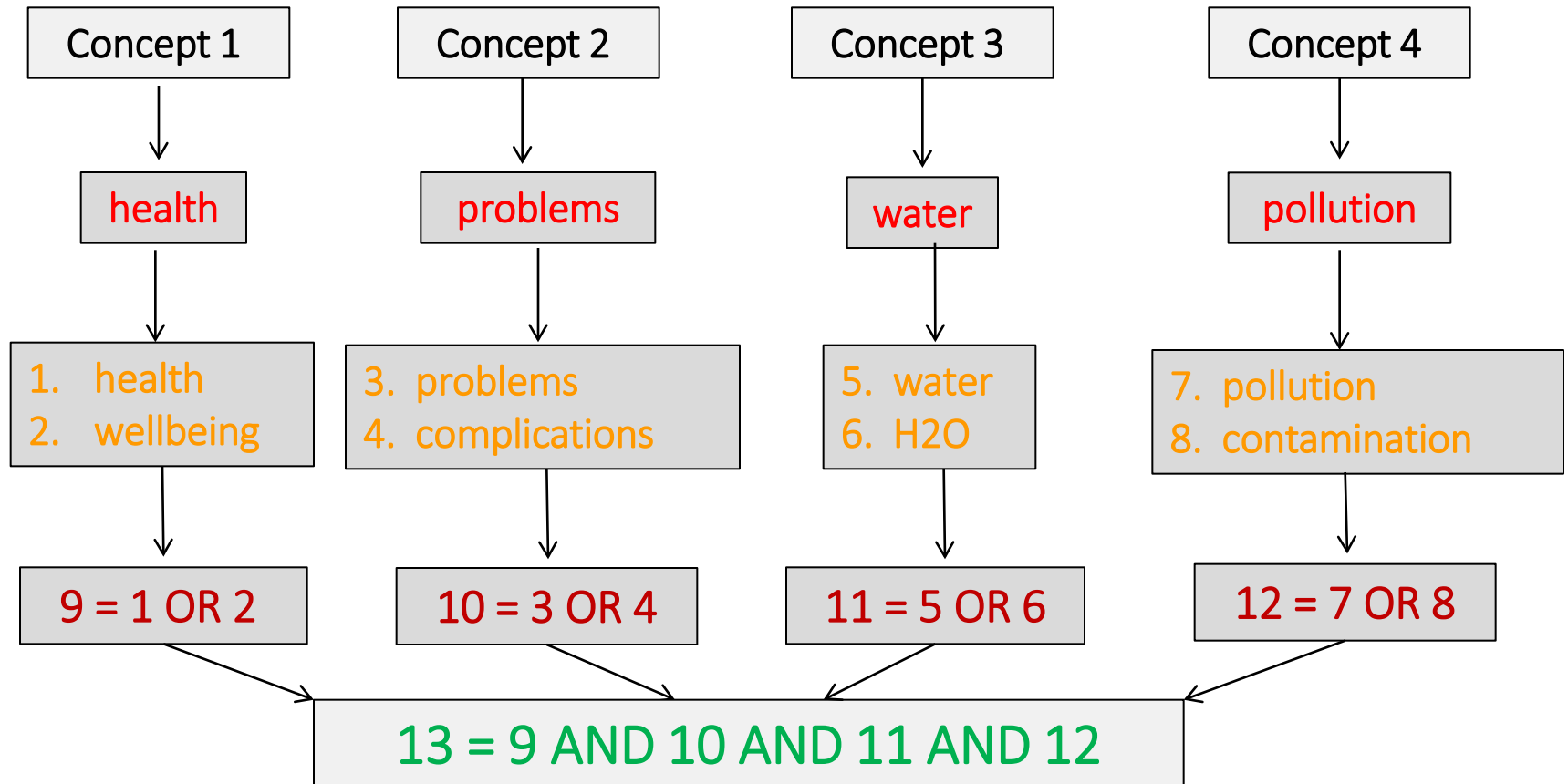
Types of Information Sources and Information Retrieval Process

Sources are considered primary, secondary, or tertiary based on the originality of their information and its proximity to the original source. When you are looking for answers you may need to consult several types. No single source is comprehensive



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?

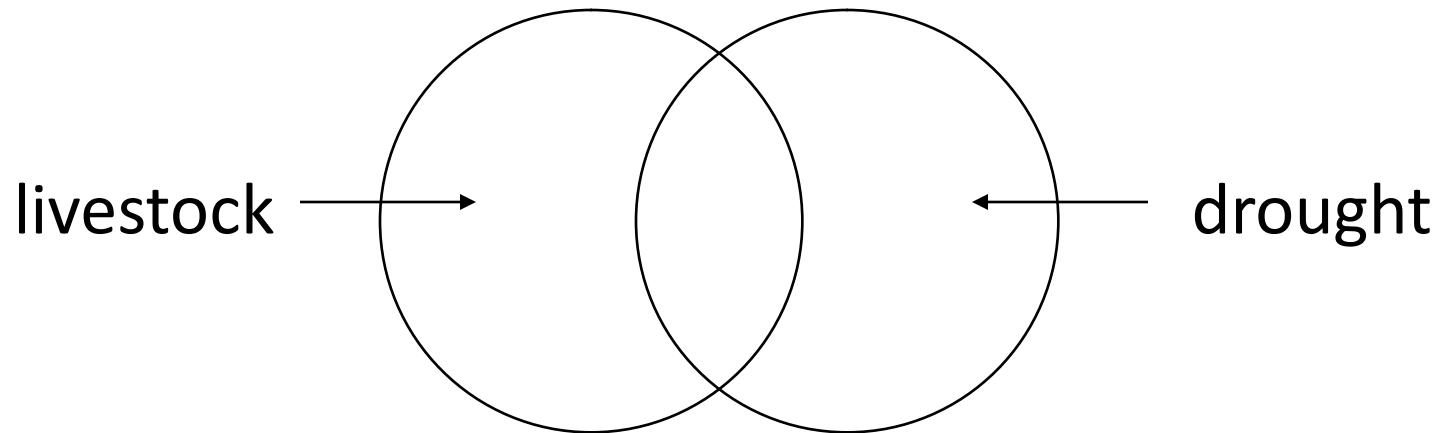
- Accuracy
- Authority
- Objectivity
- Currency
- Coverage

Step 10. Apply – Answer the question.

Boolean Operators

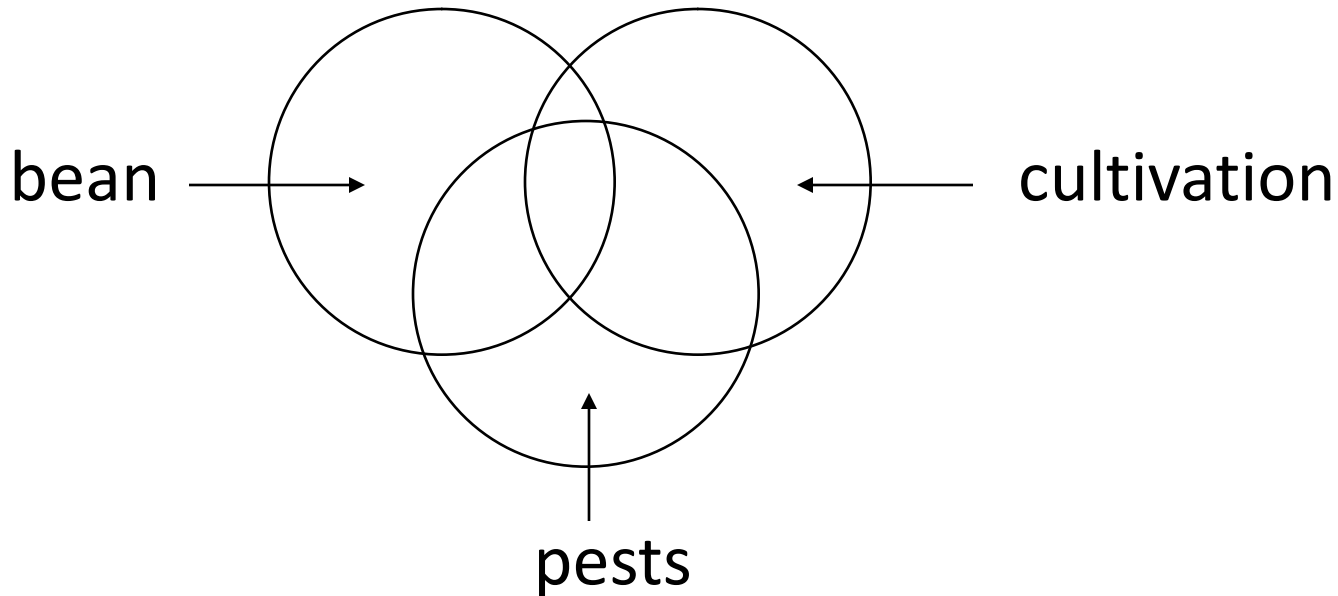
AND Operator

(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

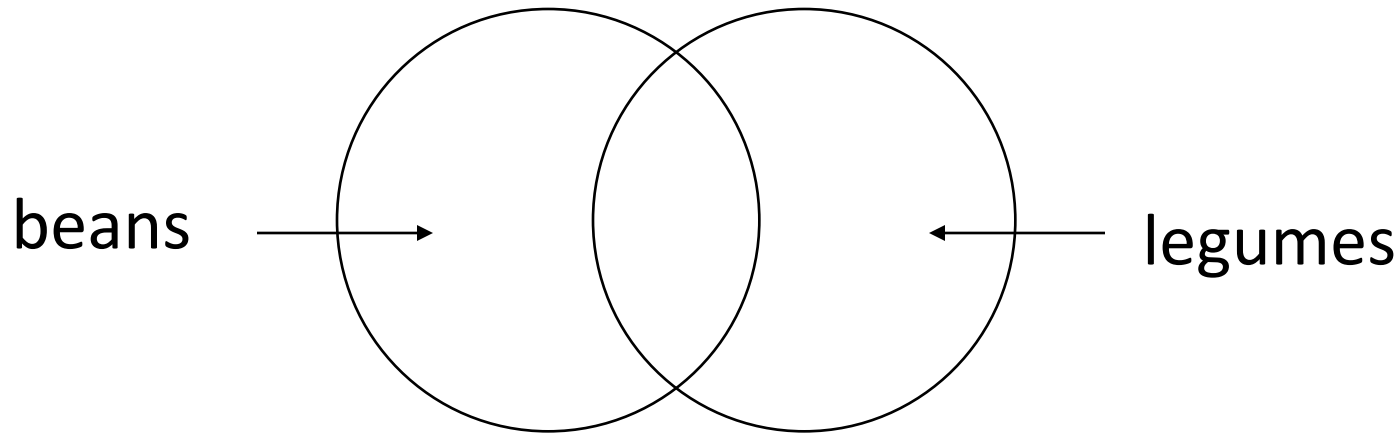
AND Operator (to combine three concepts)



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

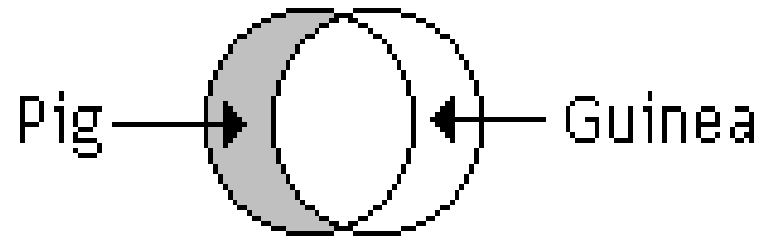
OR Operator

(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

stm



- 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 than 30 publishers
- available to 107 countries
- The newest addition to Research4Life programs

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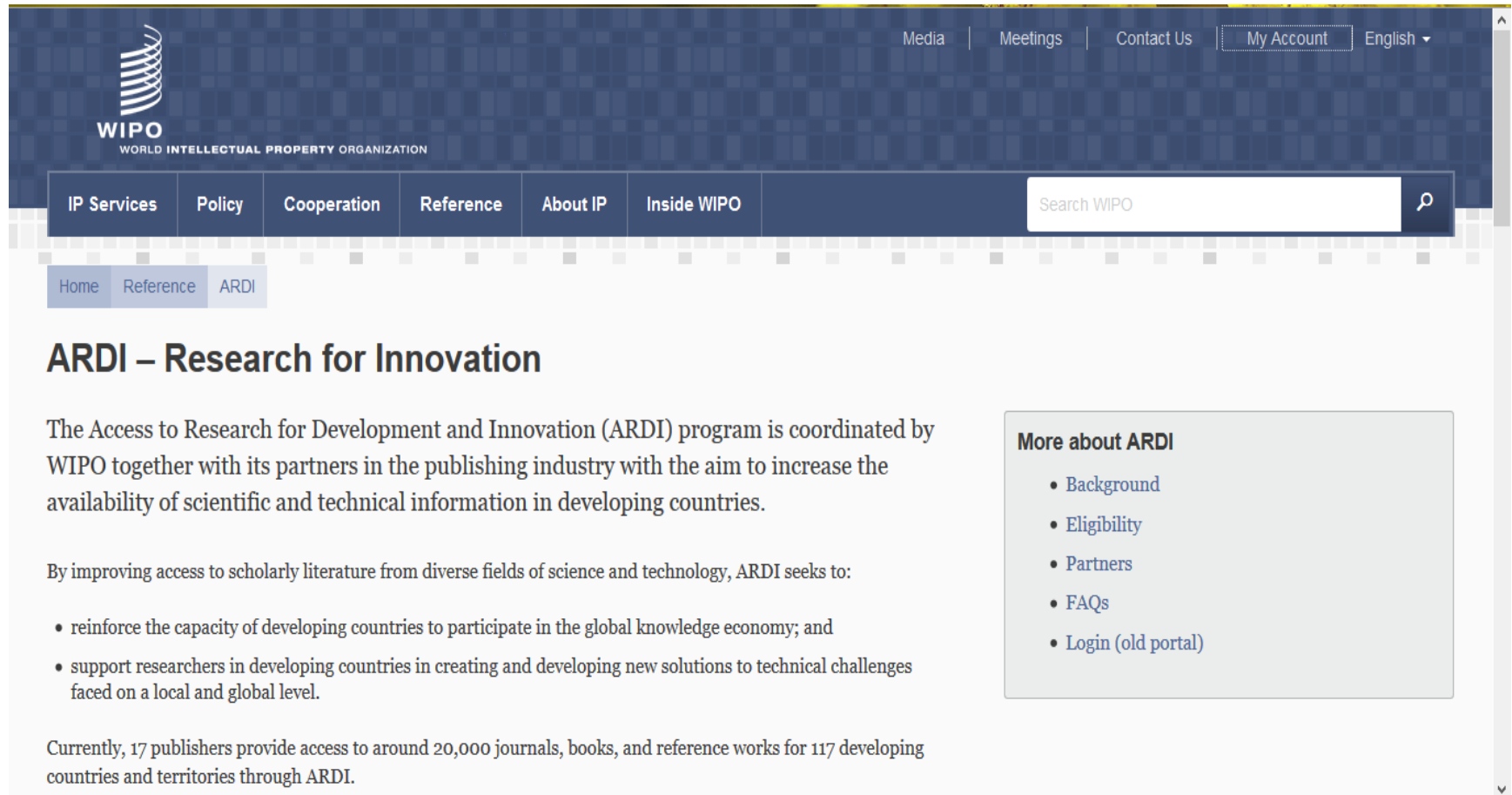
ARDI Objectives

stm



- 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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The screenshot shows the ARDI Home Page with a dark blue header. The WIPO logo is on the left, and navigation links for Media, Meetings, Contact Us, My Account, and English are on the right. A search bar is located in the top right. Below the header is a navigation menu with links for IP Services, Policy, Cooperation, Reference, About IP, and Inside WIPO. A breadcrumb trail shows Home > Reference > ARDI. The main content area features the title "ARDI – Research for Innovation" and a paragraph describing the program. A list of objectives follows, and a sidebar on the right titled "More about ARDI" contains links for Background, Eligibility, Partners, FAQs, and Login (old portal). At the bottom, logos for AGORA, ARDI, HINARI, and OARE are displayed.

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By improving access to scholarly literature from diverse fields of science and technology, ARDI seeks to:

- reinforce 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.

Currently, 17 publishers provide access to around 20,000 journals, books, and reference works for 117 developing countries and territories through ARDI.

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ARDI – Research for Innovation

The Access to Research for Development and Innovation (ARDI) is a project of the World Intellectual Property Organization (WIPO) together with its partners in the publishing industry to improve the availability of scientific and technical information in developing countries.

This is the main ARDi page with links to other R4L sites

By improving access to scholarly literature from diverse fields of science and technology, ARDI seeks to:

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DOI: 10.1080/10910340903451381

T. H. C. Childs^{a*} & R. Rahmad^{ab}

pages 471-487

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Published online: 14 Dec 2009

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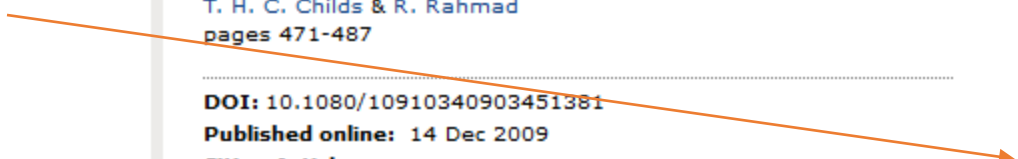
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THE EFFECT OF A YIELD DROP ON CHIP FORMATION OF SOFT CARBON STEELS

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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*

animation] at 06:30 26 February 2016

Thank you.
Any Questions?

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