

All the Glitters is not Gold.

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All that Glitters is not Gold



Why the need for federator software?

- At the time, there were several internal and external databases
- Employees often needed assistance from the Knowledge Center
- Additional headcount would have been required to cope (finding, distributing, indexing, etc.)
- Cumbersome process was a hindrance for staying current

Introduction and Purpose



- In an attempt to improve the quality and quantity of professional reading, following a survey we decided to introduce customized Federator S/W
- IS&T, KC and X teamed up to generate a customized system that we hope is a reasonable trade-off between complying with the majority of PDC requirements, available capabilities and budget
- What do we hope to achieve by introducing the Federator S/W?
 - Encouragement to read more in an easier and more user-friendly way,
 - Increase relevancy of articles retrieved and decrease the amount of time spent searching for them,
 - Routine update on new developments in a personalized way by regular alerting services
 - In a nut shell: more, better, while spending less

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Purpose of Federator Software:

- The quantity and quality of professional reading needed to be improved;
- The relevancy of the articles retrieved needed to be increased and the time spent searching for them needed to be decreased
- Needed routine updates on new developments in a personalized way by regular alerting services
- Needed to order full text articles directly from the search results, via the software

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Project Goal

- To enable One-Stop Shopping for employee knowledge retrieval
 - Has to be a process that would support the employee from the search to delivery of full text articles on his/her desktop
- Support efficient and automatic indexing of new materials

Brief Summary of What the Software Does



- One search across several DBs (internal and external.)
- UI is simple, DB by subject categories
- Results are received in a single set
- Direct link to available full text information
- On-the-fly text analysis and in-context category creation
- Personalized alerts/agents sent to your e-mail address

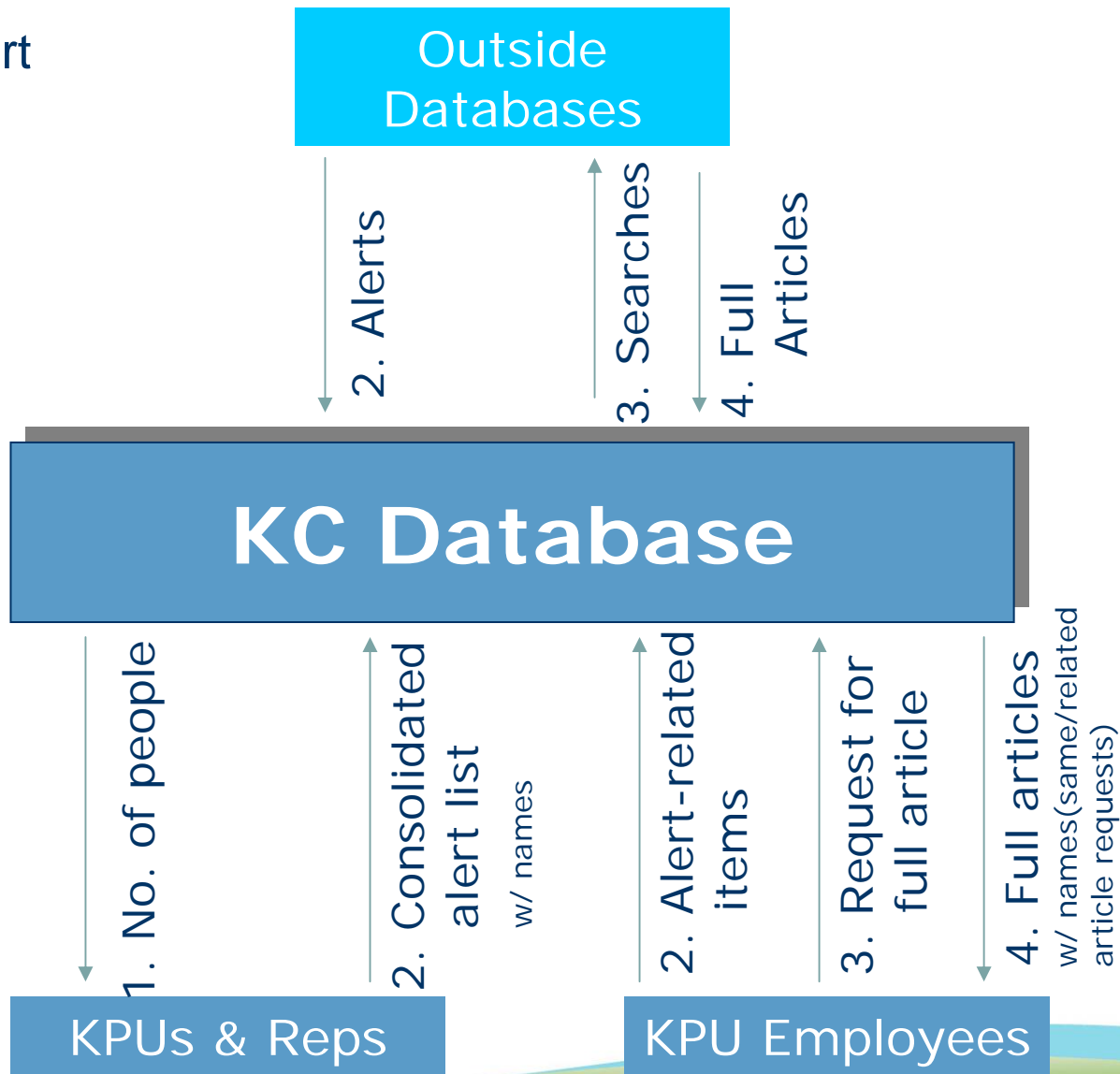


- **Section: infotech INDUSTRY NEWS**
- **Competitors claim technology is public; court case could follow**
- In a move that surely will reverberate throughout the field, **WebFeat** December 13 announced that the U.S. Patent and Trademark Office granted it a patent on its "methods and technology for managing the authentication and session management necessary to perform a federated search across licensed resources." Todd Miller, **WebFeat's** president, told LJ the patent "primarily deals with [the company's] ability to perform a federated search across licensed databases from Gale, EBSCO, ProQuest, etc. In the federated search business it is challenging to do that, and a lot of folks have tried and some have been partially successful, but our technology enables you to perform a federated search against any licensed database, and that's what the patent covers."

Original Knowledge Center Flow Chart



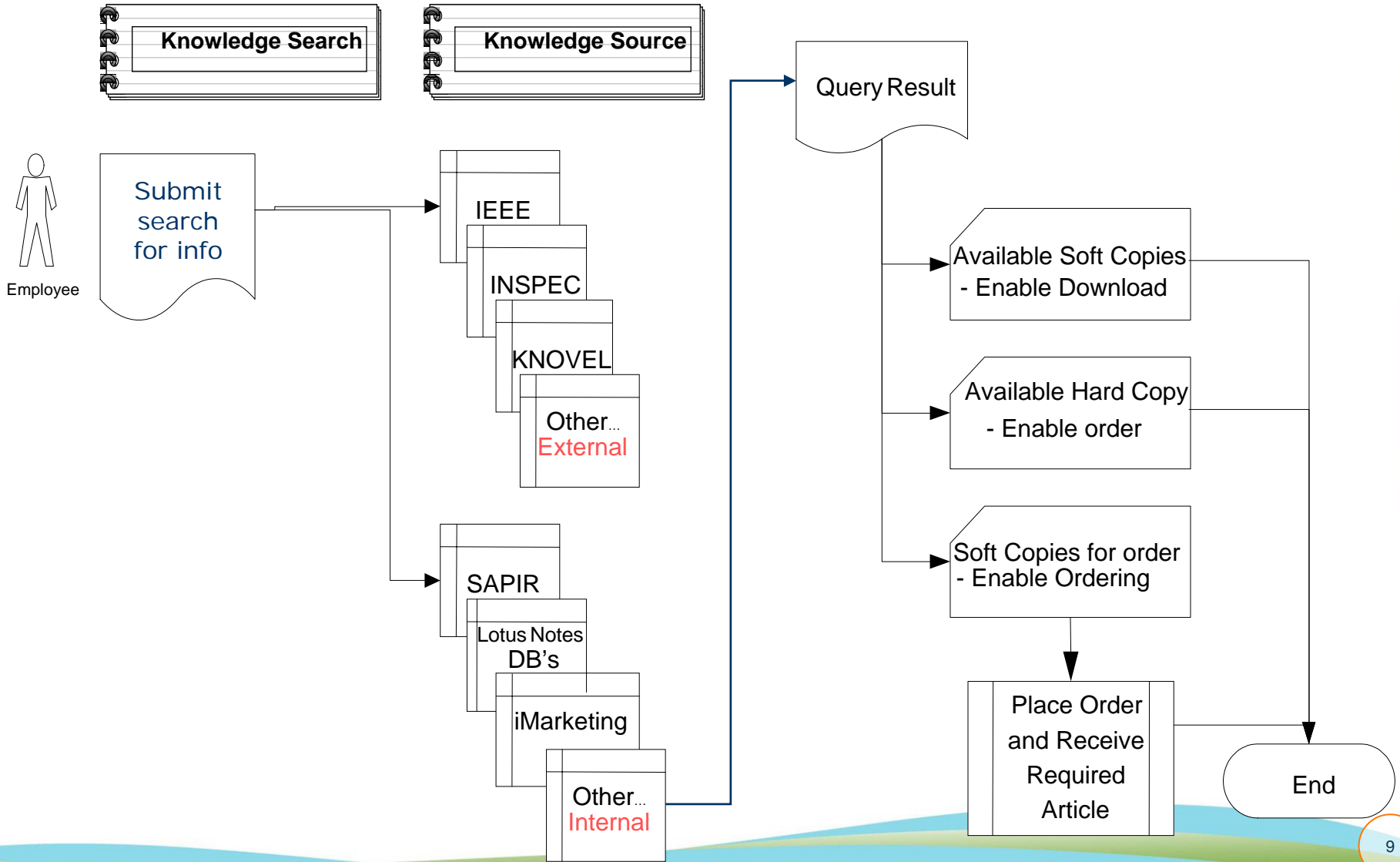
- Flow Chart



All that Glitters is not Gold – Federated Search Process



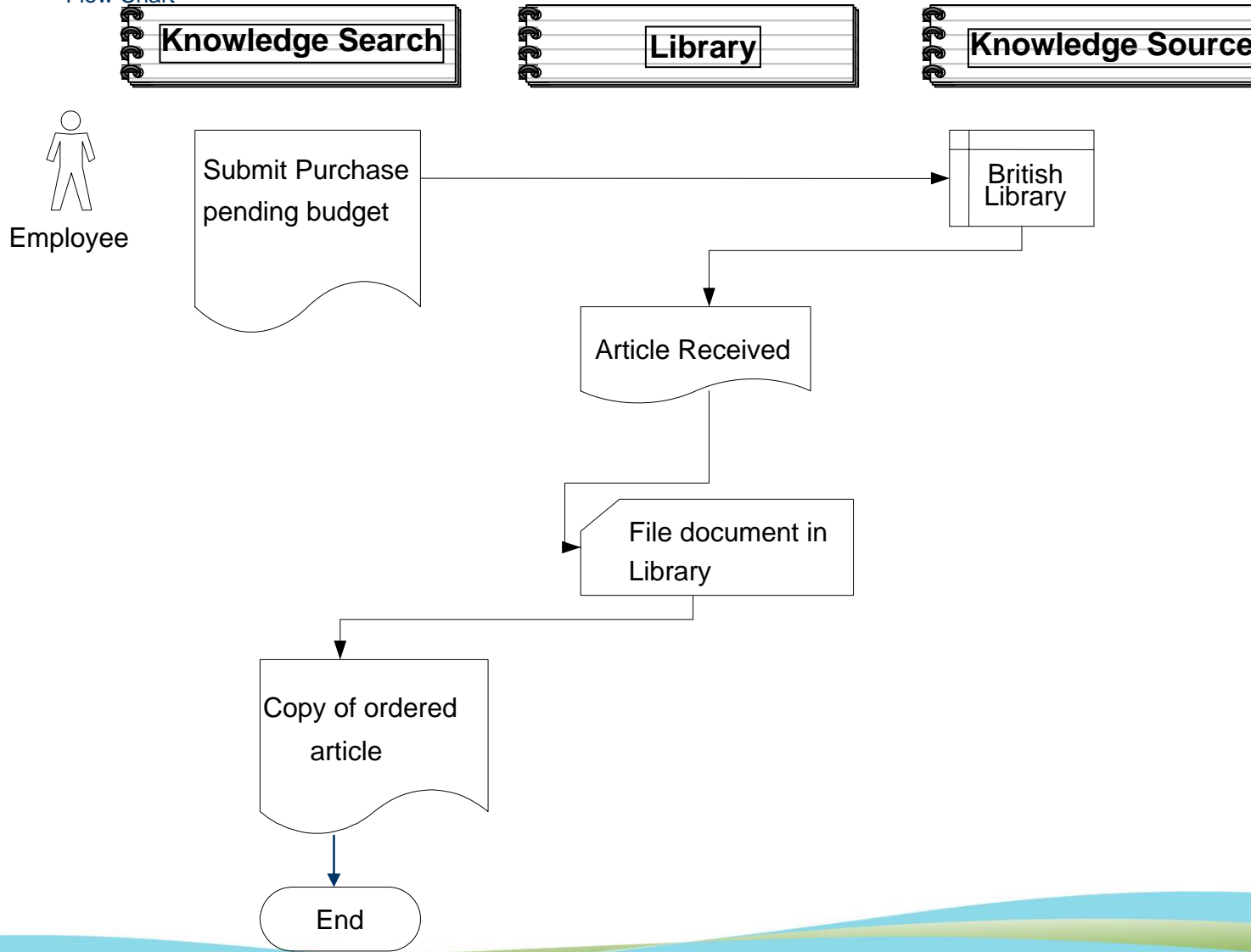
FLOW CHART



All the Glitters is not Gold Order Management



- Flow Chart



Requirements.... This was a Pipe Dream....



- Federated search engine
- Identify duplicates and alarm/warning not to search for these on outside sources again
- Flow (see separate slide)
- Archiving
- Customization (turn –key)
- Maintenance level and cost
- Timeline (up to 5)
- \$ amount
- **Automatic binning/storage for abstracts and full articles**
- **Automatic cataloging**



Requirements as in the SOW



- 1. Full support in the Knowledge Center customers process from search to delivery of documents including the order process and receipts.
- 2. Full support in alerting of new items according to customizable users' requirements.
- 3. Full support in automatic receiving and indexing of new items as specified in the following.
- Knowledge Center customers process from search to delivery:
 1. Enable users search items in all specified internal and external sources according to document TD1.
 2. Search will present available documents as follows:
 - i. Available Softcopies.
 - ii. Available hard copies.
 - iii. Available abstracts for ordering.

Requirements as in SOW



- For available softcopies the user will be able to download the item.
- For available hardcopies the user will be able to order the item through the same interface with SAPIR (the user will not have to change to another application and will have a fluent process)
- For unavailable documents the user will be able to place an order via the system to specified suppliers.
 - The user will be able to view his past and current orders
 - The Knowledge Center Manager will be able to review all users past and current orders with reference to financial aspects.
- When the document is received by email it will automatically be sent to the user and indexed in the knowledge center database

Requirements as in SOW



- Users will be able to set rules for alerting of new items according to customizable users' requirements.
- When a new item is entered to the database the user will have a notification. (according to the requested frequency)
- The Knowledge Center manager will be able to review and control all users alerts.
- Automatic Indexing:
 - This requirement is to enable receipt of new items by email and add them to Knowledge Center internal database with full text analysis.
 - Items formats are all accepted multimedia including:
 - Microsoft Office formats
 - Adobe PDF
 - Post Scripts
 - TIFF
 - GIF
 - JPG
 - HTML
 - Picture formats have to be OCRed and then analyzed and indexed
 - SAPIR cataloging abilities. full-text cataloguing and indexing for internal KC database
 - This will be added to existing SAPIR software, with text documents, full text indexing and search functionality

Pilot



▪ Federator introduction plan for PDC

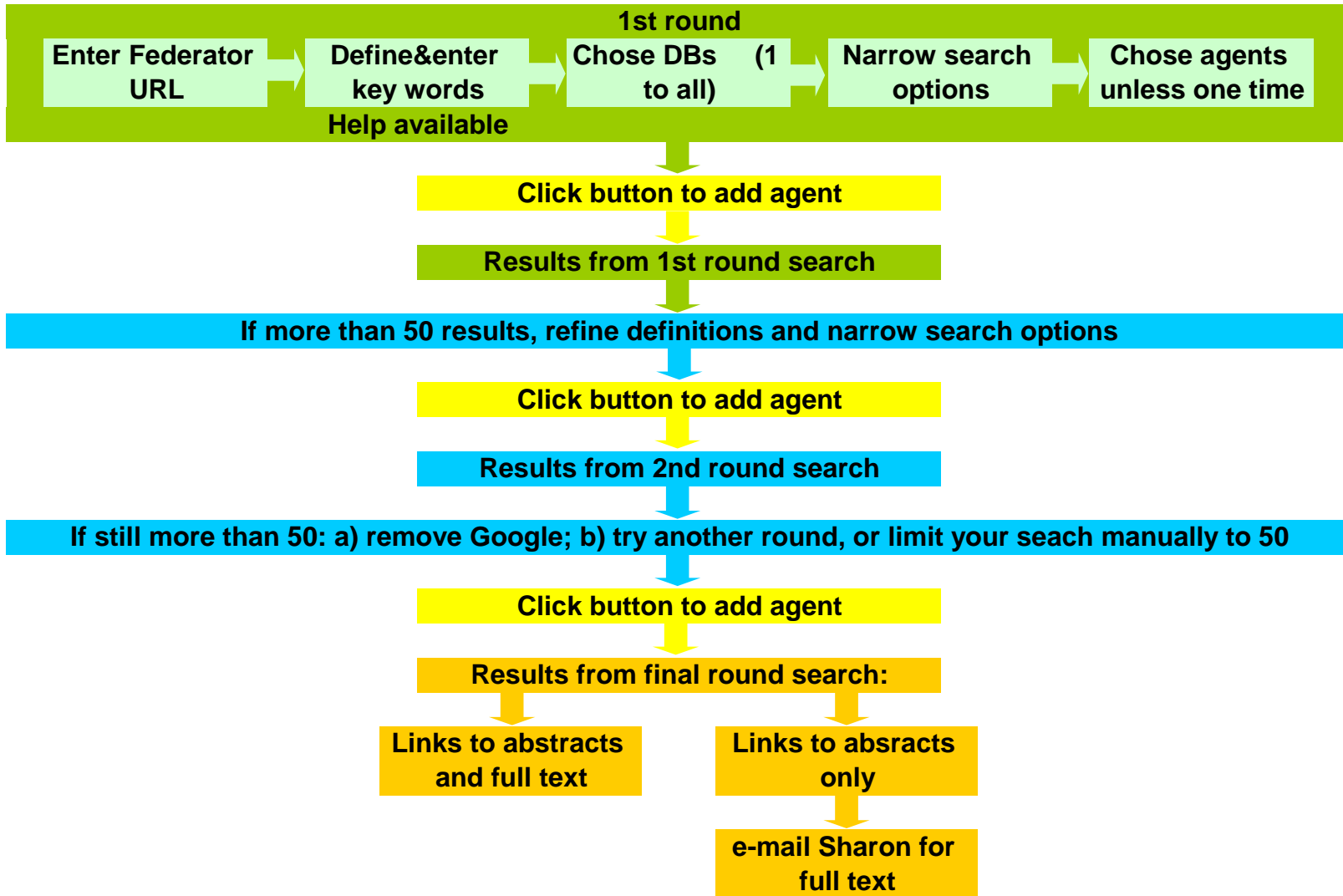
- | | |
|--|----------------|
| ▪ Customized Federator development | done |
| ▪ Internal tests by IS&T | done |
| ▪ Focus group evaluation | done |
| ▪ Seminar of info. professionals at PDC | done |
| ▪ Pilot group 1 orientation and training | 09/01/05 |
| ▪ Pilot group 2 orientation and training | 11/01/05 |
| ▪ Pilot | 16/01-10/02/05 |
| ▪ Pilot wrap up | TBD |
| ▪ Go live | TBD |
| ▪ Monthly steering committee meetings | TBD |
| ▪ Roadmap presentation and approval | TBD |
| ▪ Improvements introduction | TBD |

Pilot Plan



- Controlled part – to allow comparison of relevancy improvement
 - 2 searches with agents to be chosen per participant
 - 1st week - participant conducted subject #1
 - 2nd week – Sharon “conducted” subject #1 (Sharon to access search in participant’s account)
 - 3rd week - participant conducted subject #2
 - 4th week - Sharon “conducted” subject #2
 - Weekly statistics to be filled out by participant and Sharon
 - Sharon to compare weeklies and publish results
- Individual part - part of the pilot – intended for general feedback
 - At least additional 6 searches (with or without agents)
 - Weekly statistics to be filled out by participant and sent by mail
- Sharon will be in touch with participants through e-mail, telephone or personally once per week
- Sharon to issue a weekly report on the pilot status

Work Flow



- <http://amilesearcher.mis.amat.com/im/index.jsp?profile=amil&todo=statistics>
- **Figures for top DBs for last month:**
- Engineering Village2 (Inspec; Compendex) : 810 searches
- Scirus (Elsevier Scientific Search Engine) : 634 searches
- Google : 596 searches
- Google Scholar: 582 searches
- TNet (Electronic Journals)- Ksearcher : 406 searches
- - KC Portal : 727 searches
- SPIE Digital Library: 139 searches
- (only available since 25th May)
- Delphion (Patents) 253 searches

Statistics from the KSearcher



Virtual Self Information Manager - Microsoft Internet Explorer provided by Applied Materials

File Edit View Favorites Tools Help

Address <http://amilsearcher.mis.amat.com/im/index.jsp?profile=amil&todo=statistics>

Statistics

[Reset sort](#) [Reset search](#) [Reset select](#)

Search: go Amount: ok

result

query	
Total Searches	350.0
Total Successful Searches	312.0
Total UnSuccessful Searches	38.0
Source Errors	empty_results (Your search retrieved 0 records. Check to make sure that you have entered valid s
Total Marked Pages	4.0

1-5

Users Statistics

- All Users
- By User Group**
amil
- Specific User

Source Statistics

Select Source
EngineeringVillage2 INE

During
Last Week

Run

Done

start

Re: Link to statis... All that glitters is ...

Virtual Self Infor...

5.1_SP8-2.7.4EN-CD1 Vo EN 100%

Local intranet

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