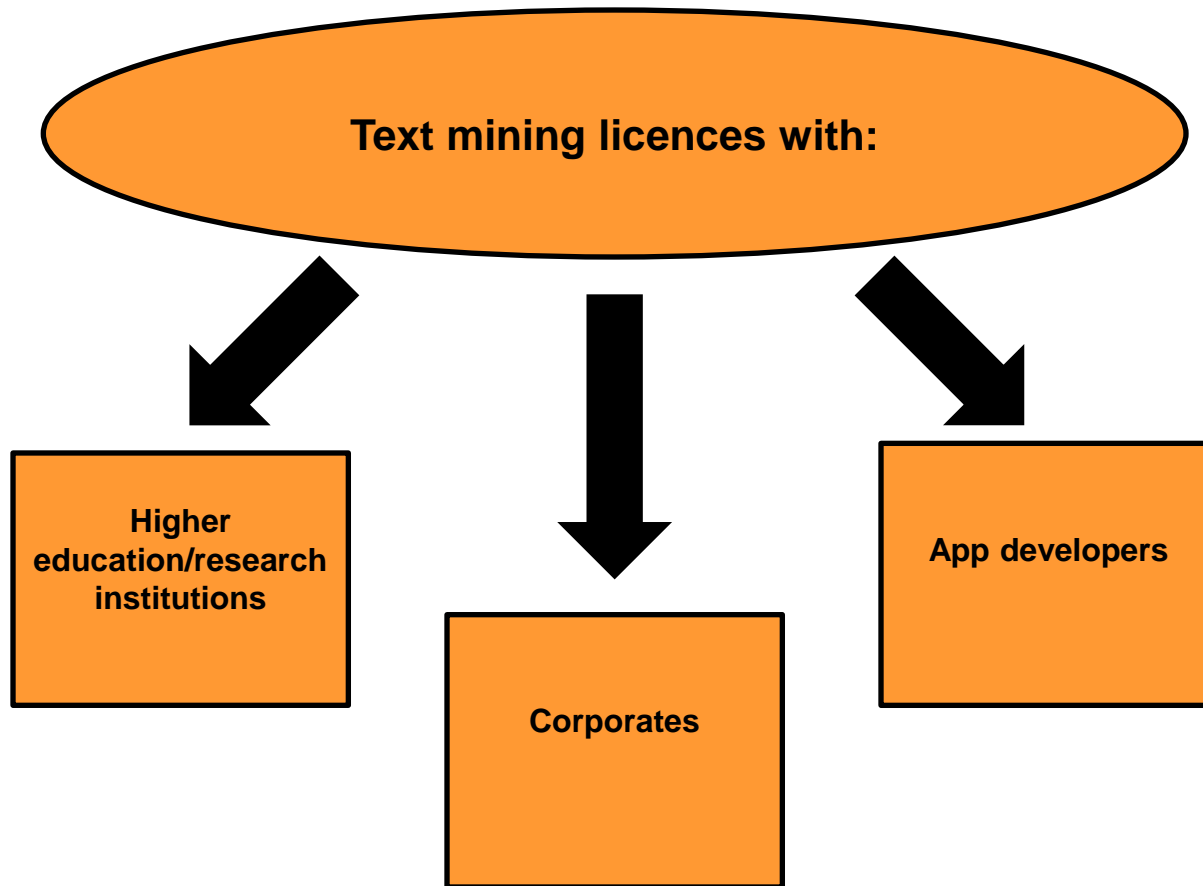


Text and Data Mining

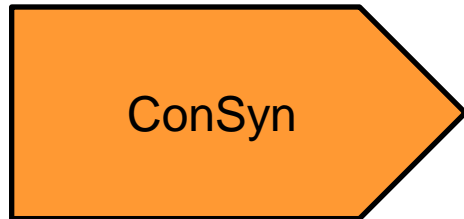
Reed Elsevier perspectives

Who is doing TDM on content published by Elsevier?



How do we give text miners access?

Transfer of content to user's system enabled by one of two delivery mechanisms under a separate licence:



- Delivery mechanisms have set up and running costs
- To recoup costs our policy to date has been to charge the value add of the services to commercial users

Why is content delivery managed this way? (1)

Platform Stability

- Miners want content at scale – they generally don't do TDM on a couple of articles
- Delivering scale via our main platform ScienceDirect.com is suboptimal
- APIs or ConSyn the solution – leave ScienceDirect untouched
- Effectively we are separating machine to machine traffic from traffic created by real users going to ScienceDirect.com

Content Security

- Free for all on ScienceDirect would not allow bona fides to be checked
- XML versions less susceptible to piracy than PDFs

Why is content delivery managed this way? (2)

It's more efficient for genuine text miners

- Most miners prefer to work off XML, not from article versions on ScienceDirect
- Our delivery mechanisms put the content into their hands fast
- Scraping 1000s of articles suboptimal for miners too

TDM Outputs

- CC-BY-NC license on output when redistributing results of text mining in a research support or other non-commercial tool
- Require DOI link back to mined article whenever feasible when displaying extracted content
- Grant permission to use snippets around extracted entities to allow context when presenting results, up to a maximum of 200 characters or 1 complete sentence

Next steps – encouraging and simplifying text mining

- Continue to enable mining for users at subscribed institutions where their purpose is non-commercial without charge.
- Actively encourage text mining requests from researchers and institutions to our single point of contact - TDMSupport@elsevier.com
- Set up a pilot automated licensing system

Summary

Licensing working well at Elsevier - will improve further

- Demand to mine being met, no extra charges in the vast majority of cases
- Additional services to support mining likely to be offered as we improve understanding of miners' needs

It's early days

- Mining demand is embryonic – low numbers at the moment

Copyright exceptions, a big cause for concern

- Major risk of spike in unauthorised redistribution.
- Platform stability threatened
- Risk of chilling effect on future service innovation

Thank you

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