Chemistry Add-In for Word

http://research.microsoft.com/chem4word/ http://chem4word.codeplex.com

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Collaborative R&D between the Unilever Centre for Molecular Science Informatics, University of Cambridge and Microsoft Research, Redmond. **People** (UoC) Peter Murray-Rust, Joe Townsend, Jim Downing. (Microsoft) Lee Dirks, Alex Wade, Oscar Naim, Mike Galos, Tim Haughton.

Semantically Editing Chemistry in Word

The Chemistry Add-In for Word, is an open source program that allows chemists to create, edit and manipulate chemistry (labels and 2D structures) in the Word environment. The on screen representation is backed by semantic data in Chemical Markup Language (CML). Combined with domain aware libraries we enable novel functionality in data checking during the authoring process, chemistry-centric article reading support and data-mining applications.

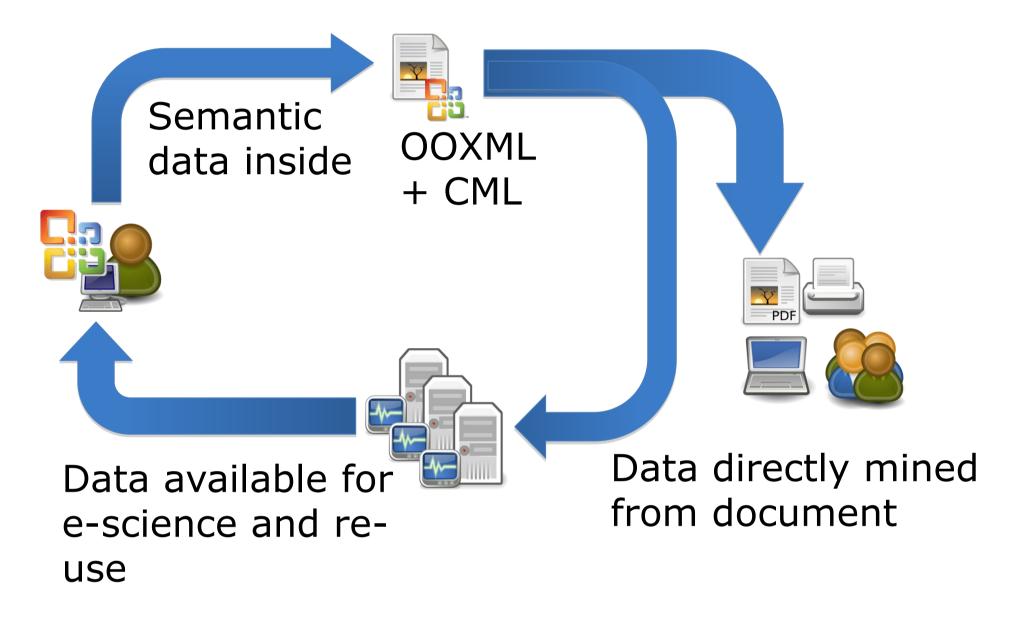
Current publishing practice

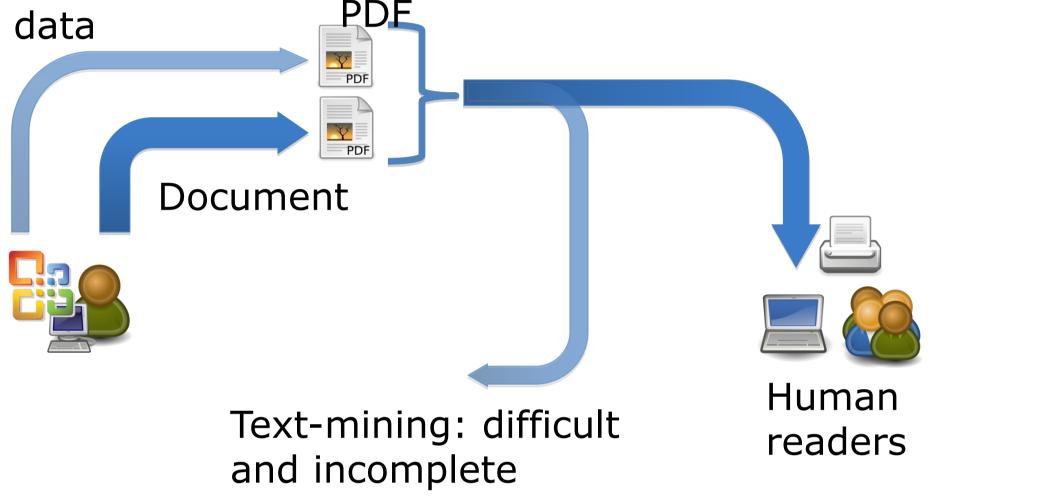
... is broken for data-rich science

Non-semantic

With Chemistry Add-In for Word

... the cycle is closed

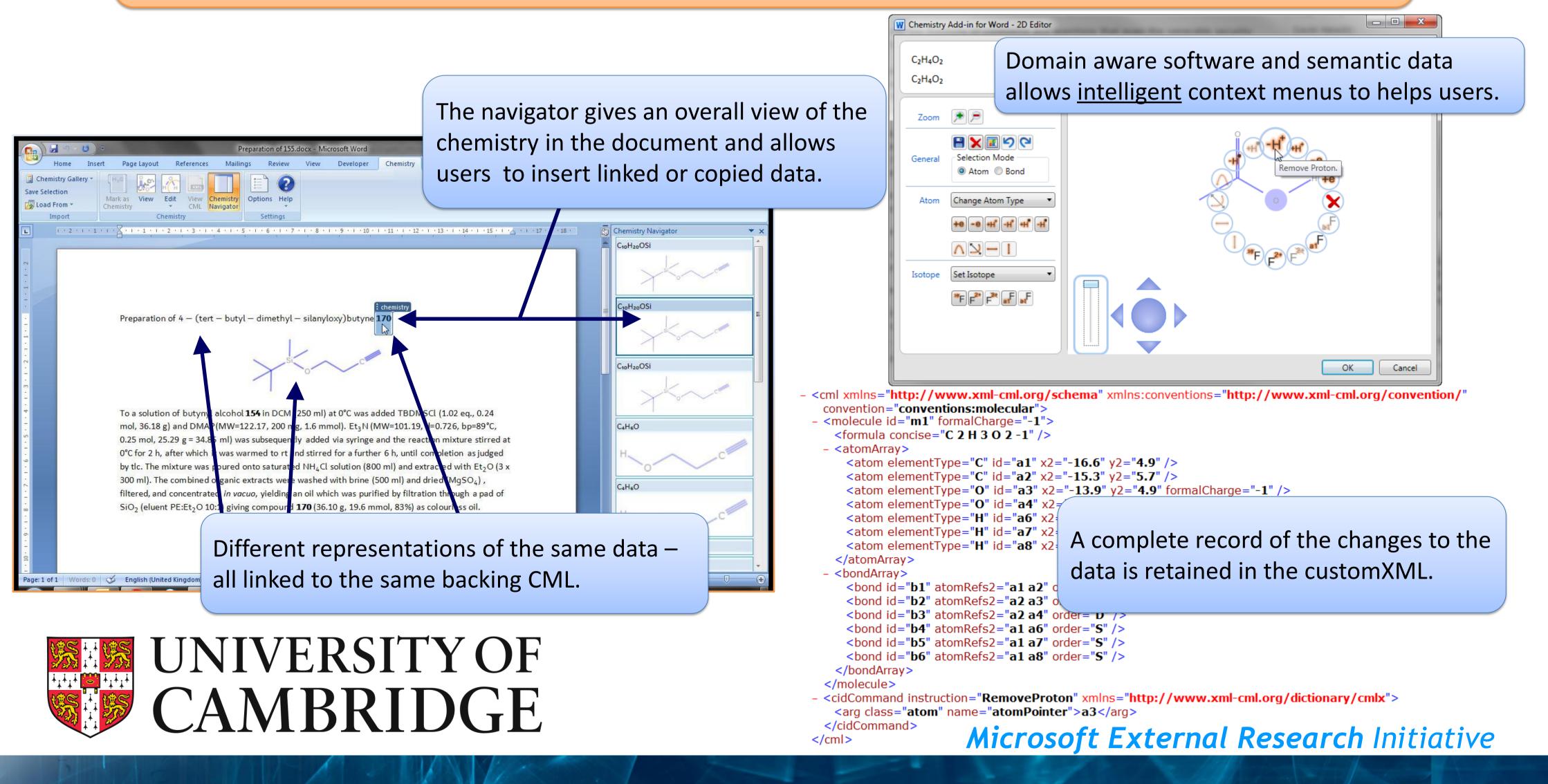




- Data publication difficult and unsupported
- Insufficient data to fully support research

- Data preparation integrated into user workflow
- •Open Standards promote Open Semantic Science

The Add-In (.NET) links a semantic chemistry engine (.NUMBO) through a command interface (CID) to a chemistry zone. Chemistry zones are textual or graphic renderings within a Word document (DOCX). All content and relationships are bound to CML in the DOCX package.



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