

Content enrichment: driving innovation, revenue growth and cost savings across the publishing life-cycle



About 67 Bricks

- We build content platforms for publishers
- We implement content enrichment capabilities in the platforms that we build to unlock the data in your content
- We do this to increase automation, develop new revenue streams, improve discoverability and increase the value to content consumers
- Based in Oxford, our clients include:



WILEY SPRINGER NATURE





Our work with publishers has demonstrated that content enrichment delivers value across the whole publishing life cycle.



Content enrichment

"The process of adding structure, metadata or context to content to make it more useful to internal and external users and systems."



One content enrichment approach that we find very useful that can deliver value across the whole publishing life cycle is the creation of a **semantic fingerprint**.



Creating a semantic fingerprint

The activity of antibodies against filoviruses is poorly understood but has important consequences for vaccine design and passive prophylaxis. To investigate this activity, a panel of recombinant human monoclonal antibodies to Ebola virus ar ligens was isolated from phage displa libraries constructe from R. A from concern sword covered from infection in the 19, 5 Ebola vilus out or ak in Kik vit, Democratic Republic of Congo. Antibodies reactive w.... nucleop. steir. (NP), envelope sycoprotein (G.), and secreted envelope glycoprotein (sGP) were characterized by immunofluorescence and radioimmunoprecipitation assays. Four antibodies reacting strongly with sGP and weakly with GP and two antibodies reacting with NP were not neuralizing. An antibody specific for GP neutralized Et a iru to 7% 100 as, ml to re om/ment Fab fragment and to 50% at 0.3 μg/ml (90 / 2.6 μg/ml) is the corresponding vince unoglobulin G1 molecule. The studie indicate the neutral zing an bodies reproduced in infection by Ebola virus although probably at a relatively low frequency. The neutralizing antibody may be useful in vaccine design and as a prophylactic agent against Ebola virus infection.



Creating a semantic fingerprint: Keywords

The activity of antibodies against filoviruses is poorly understood but has important consequences for vaccine design and passive prophylaxis. To investigate this activity, a panel of recombinant human monoclonal antibodies to Ebola virus antigens was isolated from phage display libraries constructed from RNA from donors who recovered from infection in the 1995 Ebola virus outbreak in Kikwit, Democratic Republic of Congo. Antibodies reactive with nucleoprotein (NP), envelope glycoprotein (GP), and secreted envelope glycoprotein (sGP) were characterized by immunofluorescence and radioimmunoprecipitation assays. Four antibodies reacting strongly with sGP and weakly with GP and two antibodies reacting with NP were not neutralizing. An antibody specific for GP neutralized Ebola virus to 50% at 0.4 µg/ml as the recombinant Fab fragment and to 50% at 0.3 µg/ml (90% at 2.6 µg/ml) as the corresponding whole immunoglobulin G1 molecule. The studies indicate that neutralizing antibodies are produced in infection by Ebola virus although probably at a relatively low frequency. The neutralizing antibody may be useful in vaccine design and as a prophylactic agent against Ebola virus infection.



Creating a semantic fingerprint: Entities

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Creating a semantic fingerprint: Relationships

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Creating a semantic fingerprint: Categorisation

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Some techniques used to generate a semantic fingerprint

Keyword extraction (grammatical)

Keyword extraction (statistical)

Entity extraction (rules based)

Name identification

Places extraction (database)

Subject classification (clustering)

Subject classification (taxonomy)

Machine learning (training set)

Structure enrichment (JATS, BITS)

Context identification

Relationships/connections

Reference extraction



With the ability to create semantic fingerprints you can now augment activities throughout the publishing life cycle.



Research and authoring

Editorial

Submission and peer review

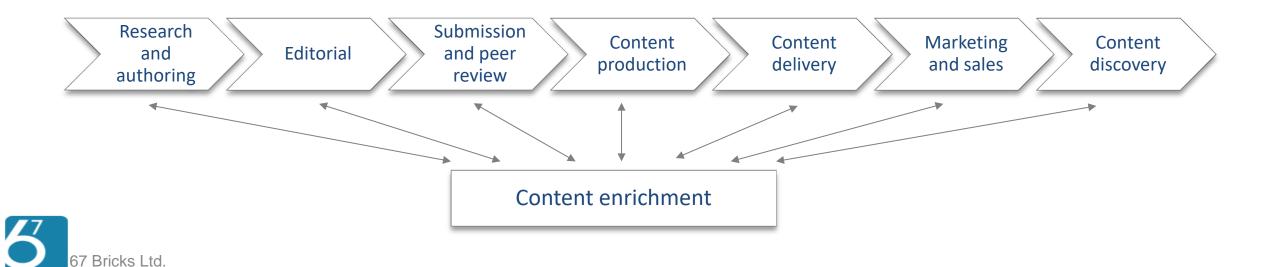
Content production

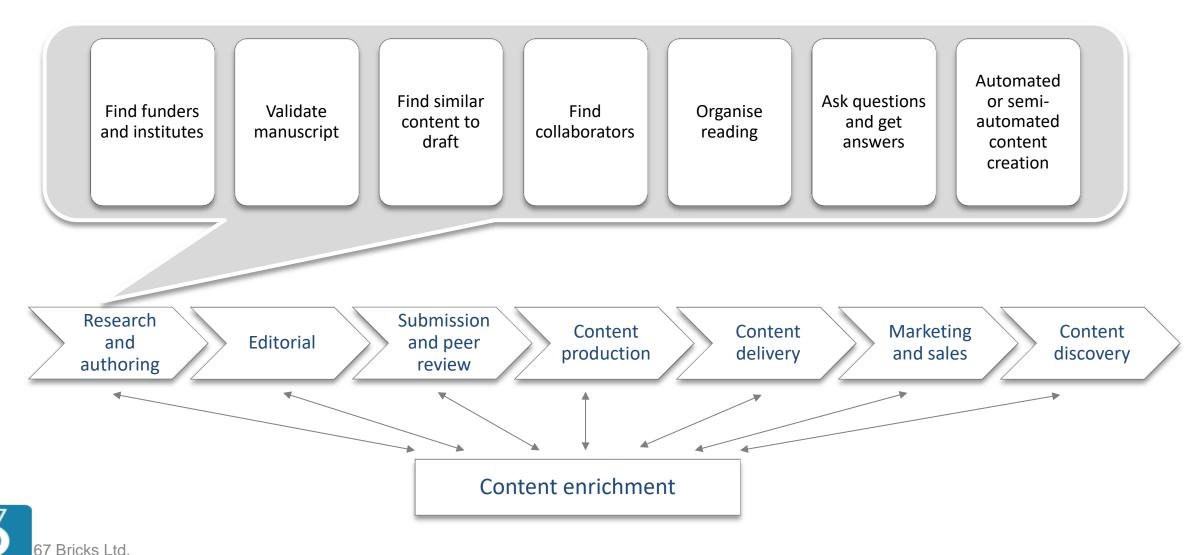
Content delivery

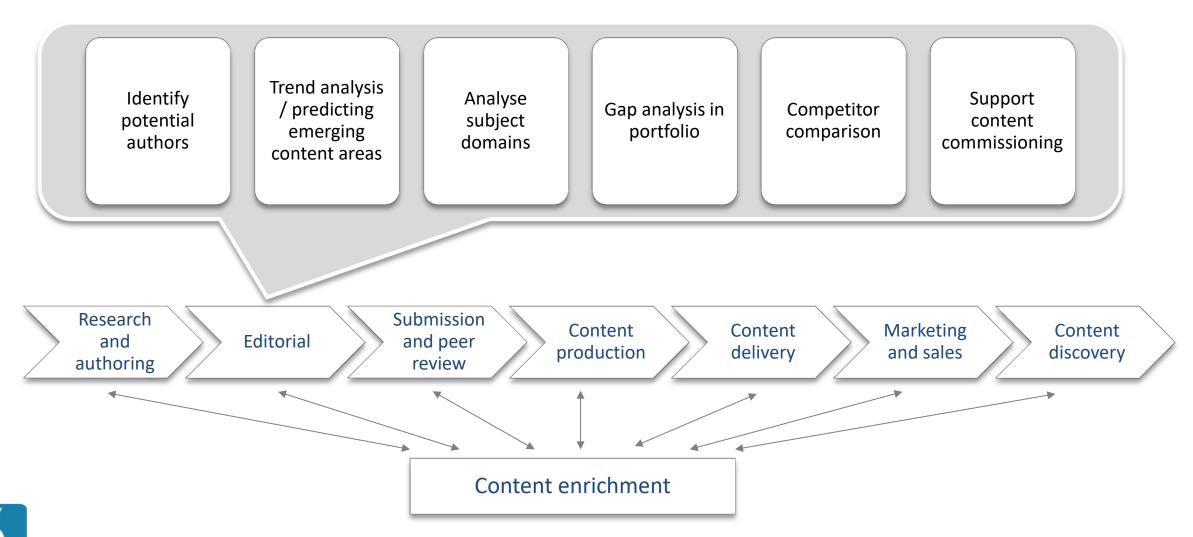
Marketing and sales

Content discovery

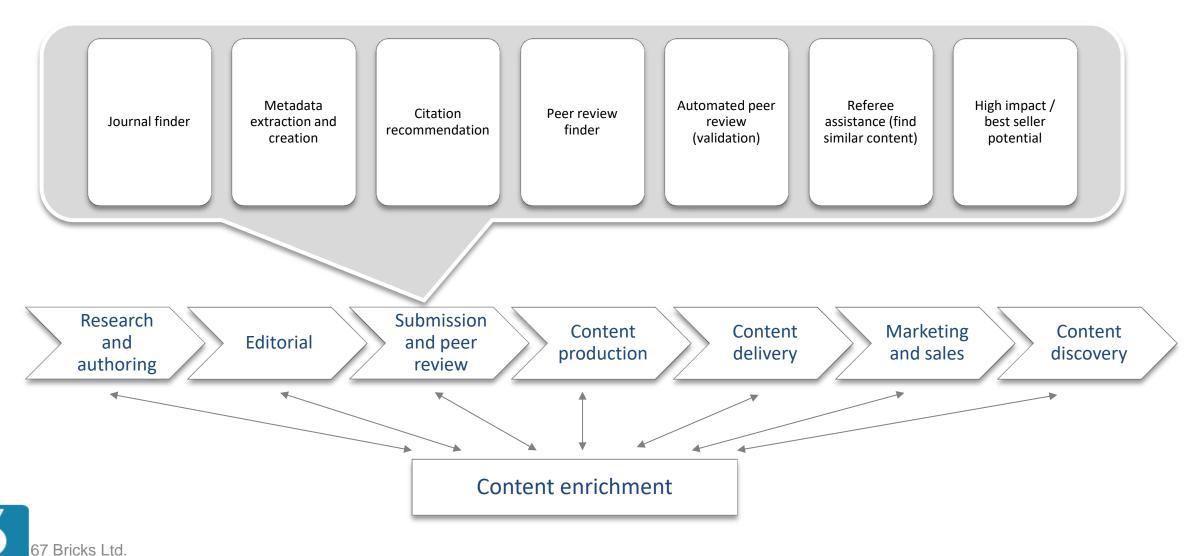








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Manuscript Reference Metadata Classification validation handling creation Submission Research Content Content Marketing Content **Editorial** and peer and production and sales delivery discovery authoring review Content enrichment

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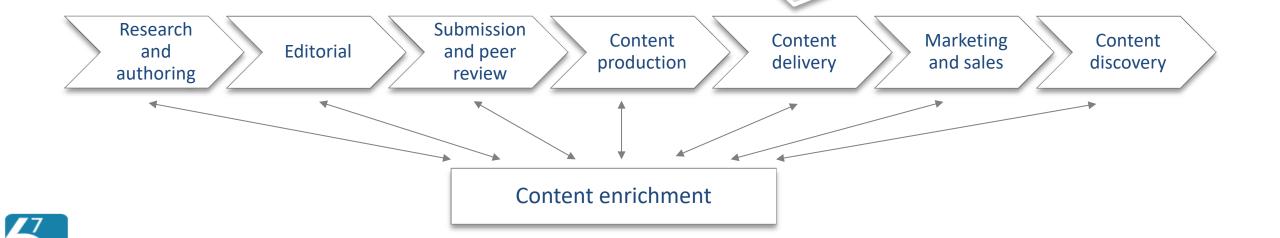
Subject / topic pages

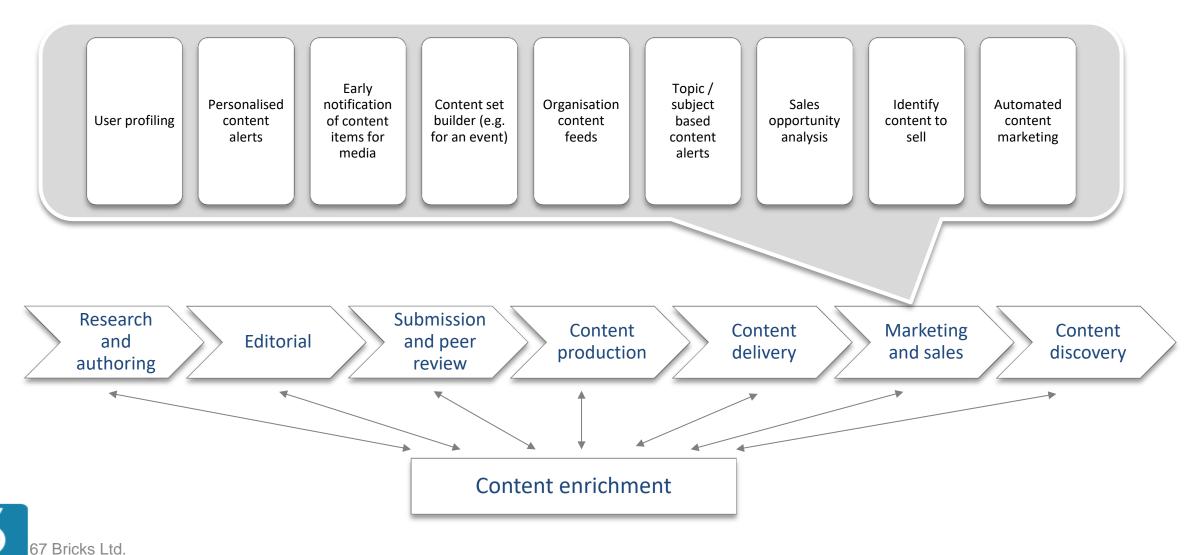
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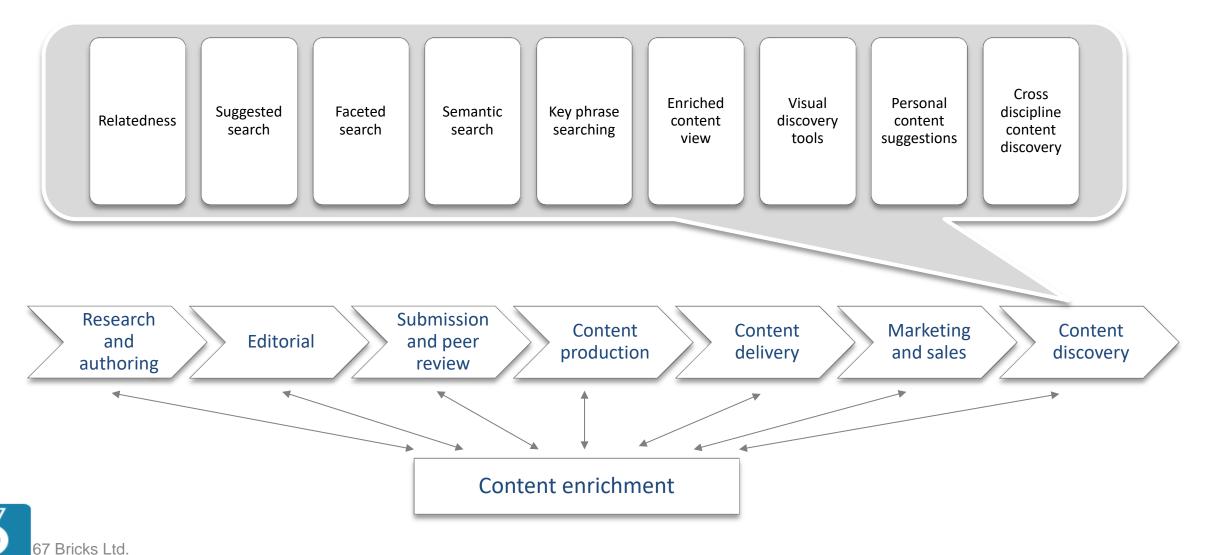
Collections and themed issues

Automated content delivery to vendors

Reuse of legacy content







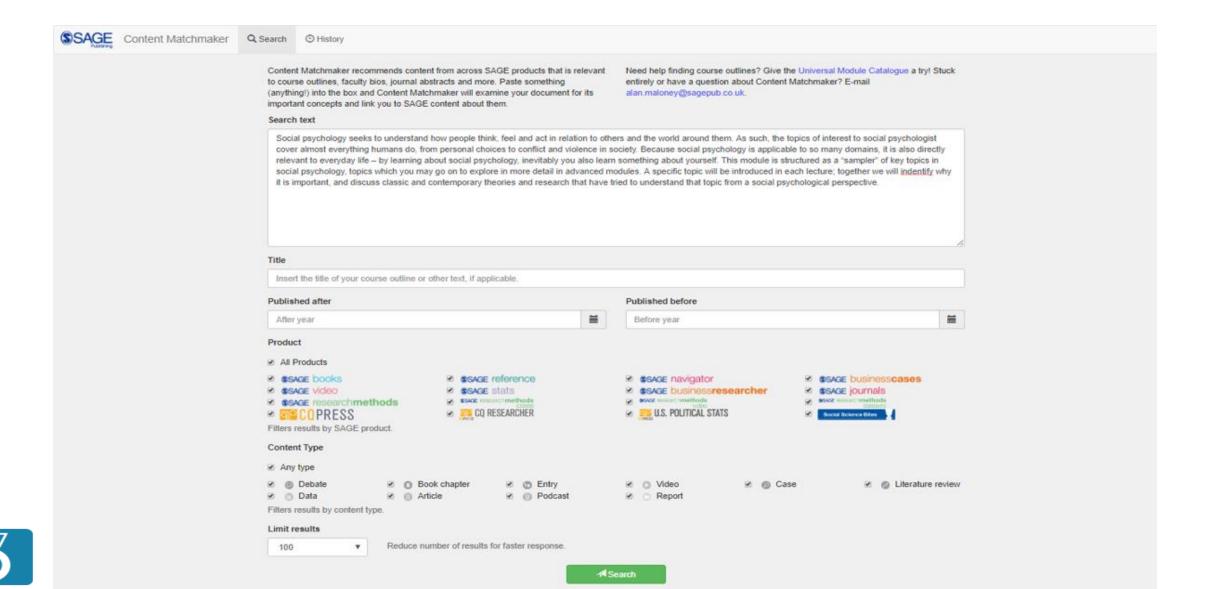
SAGE Content Matchmaker

Using content enrichment to improve sales performance

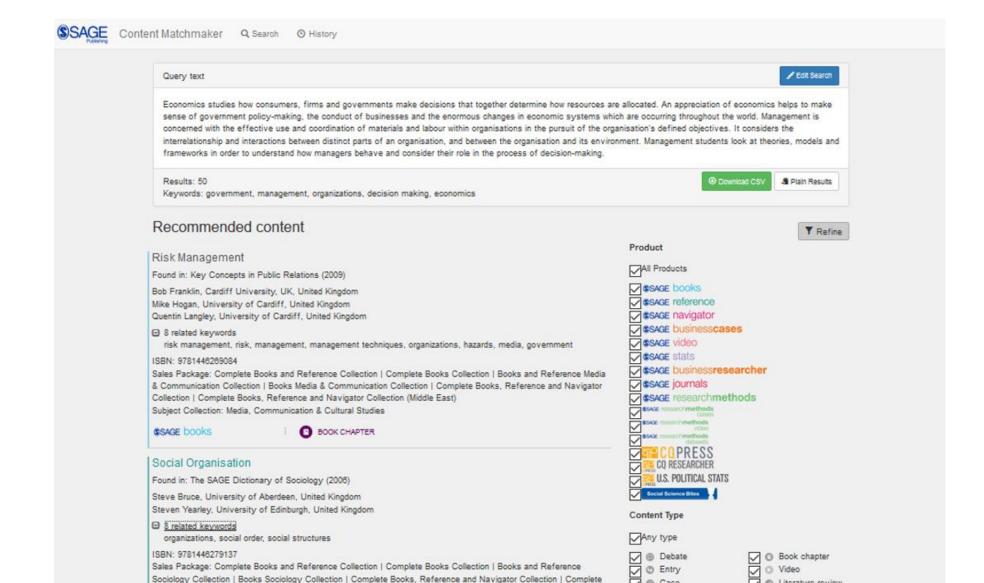




SAGE Content Matchmaker



SAGE Content Matchmaker





Content enrichment delivers value across the publishing life cycle and should be considered a core capability for all publishers.





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