

# Building community for semantics

Graham McCann  
IOP Publishing

# In summary

- New initiative
- Publishers to share
  - Experiences
  - Best practice
  - Contacts
- How we use taxonomies

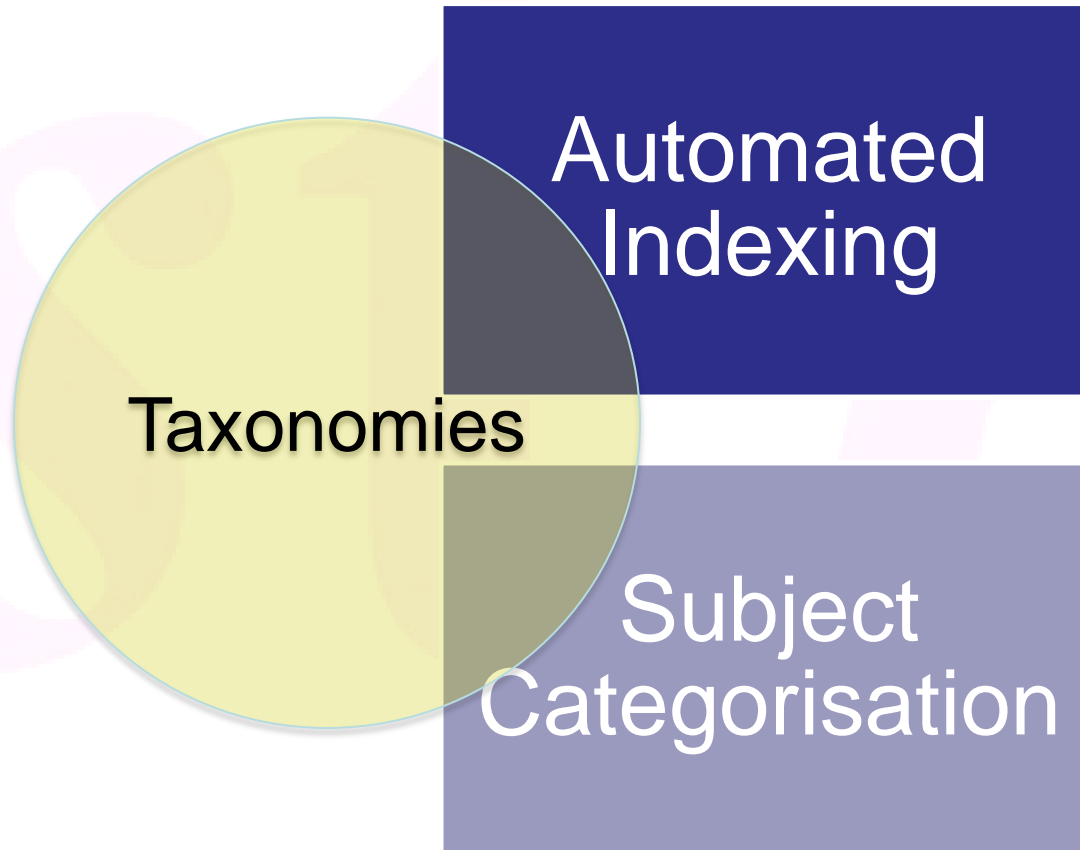


# Semantics for Publishers

Automated  
Indexing

Subject  
Categorisation

# Semantics for Publishers



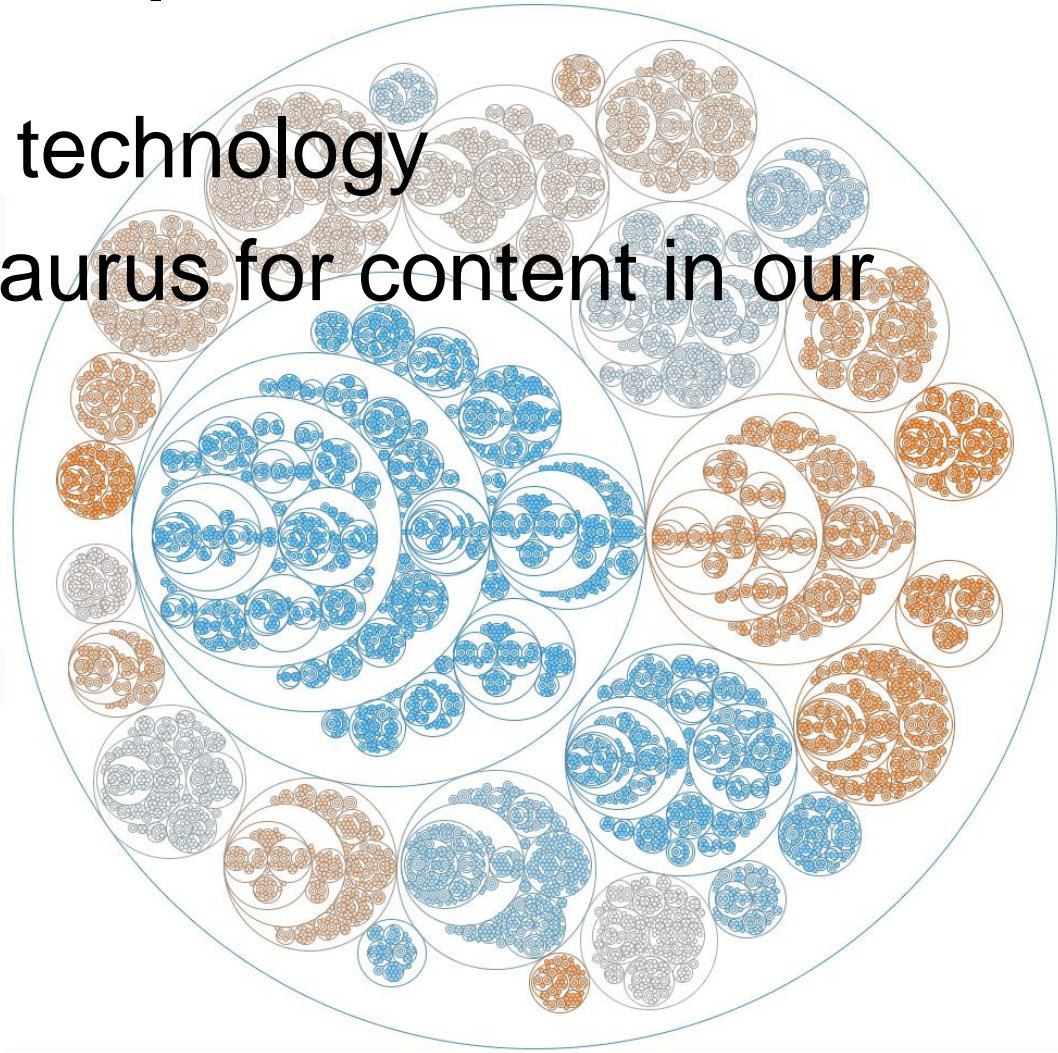
# Taxonomies

- Knowledge Models
  - Thesaurus
  - Taxonomies
  - Entity lists

e.g. MESH, SNoMed, FundRef, Ringgold

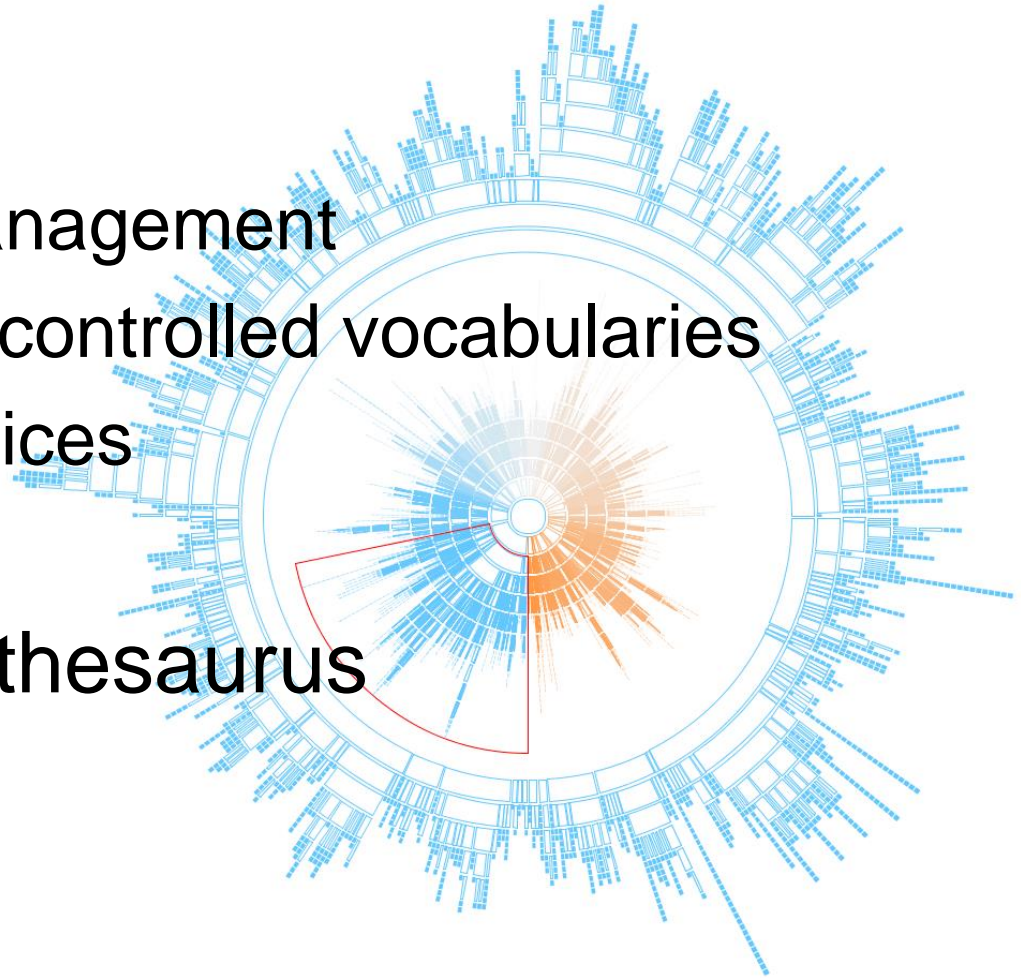
# IOP's experience

- Investment in technology
- Create a thesaurus for content in our platform



# IOPP's experience

- Learned about
  - Thesaurus management
  - Application of controlled vocabularies
  - Semantic services
- Released one thesaurus




# Taxonomies Interest Group

- Supported by CrossRef
- Members from de Gruyter, Wiley, T&F, ACM, APA and IOP
- To share experiences with different knowledge models





# http://taxonomies.labs.crossref.org/

CrossRef Taxonomy Interest Group ABOUT CONTRIBUTE 

Search ...

**PUBLISHERS**

- De Gruyter
- IOP Publishing
- Wiley

**KNOWLEDGE MODELS**

- General Linguistics Taxonomy
- Medical Subject Headings (MeSH®)
- SNOMED CT
- IOP Thesaurus
- PLOS Thesaurus
- Unified Astronomy Thesaurus

**TAGS**

**Astronomy**

- Clinical Linguistics Mathematics
- Medical People **Physics**
- Places Science Policy Social Science STM

**RECENT COMMENTS**

**RECENT POSTS**

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## ABOUT

Semantic enrichment is an active area of development for many publishers. Our enrichment processes are based on the use of different Knowledge Models (e.g., an ontology or thesaurus) which provide the terms required to describe different subject disciplines.

This initiative, sponsored by CrossRef, enables publishers to share which Knowledge Models they are using, creating opportunities for standardisation, collaboration and interoperability.

This website has been launched in November 2014. It is a starting point. We hope that additional publishers and interested parties will contribute information about their uses of Knowledge Models. The aim is to look for commonalities and best practices, to create standardised uses and methods, thus providing better services to content users, and reducing costs for all publishers. Over time, we hope that this site becomes a robust central resource and a forum for the exchange of information, experiences, and thoughts.

Members: IOP, ACM, Taylor & Francis, De Gruyter, and Wiley.

### LEAVE A REPLY

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Name \*

Email \*

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ABOUT CONtribute Q

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Wiley

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**PUBLISHER PROFILES**

## DE GRUYTER

🕒 1ST OCTOBER 2014 👤 CHRISTIAN KOHL 💬 LEAVE A COMMENT

**Name of Publisher:**

De Gruyter

**URL:**

<http://www.degruyter.com>

**Short Description:**

The independent academic publisher De Gruyter can look back at a company history of over 260 years. Today, the De Gruyter group publishes over 1,300 new titles each year in the humanities, STM and law, more than 650 subscription based or Open Access journals, and a variety of digital products.

The company is headquartered in Berlin, with offices in Basel, Beijing, Boston and Munich.

Under its umbrella brand **De Gruyter**, the company runs the imprints of De Gruyter Akademie Forschung, Birkhäuser, De Gruyter Mouton, De Gruyter Open, De Gruyter Oldenbourg, and De Gruyter Saur.

**Knowledge Models Used:**

- [General Linguistics Taxonomy](#)
- [MeSH \(German translation\)](#)
- [ICD-10-GM](#)

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**KNOWLEDGE MODELS**

## UNIFIED ASTRONOMY THESAURUS

11TH NOVEMBER 2014 GRAHAM MCCANN LEAVE A COMMENT

**Short Description:**

The Unified Astronomy Thesaurus (UAT) is an open, interoperable and community-supported thesaurus which unifies the existing divergent and isolated Astronomy & Astrophysics thesauri into a single high-quality, freely-available open thesaurus formalizing astronomical concepts and their inter-relationships.

**URL:**

<http://astrothesaurus.org/>

**Owned/Developed by:**

1. Name of Owner: American Astronomical Society, <http://aas.org/>
2. Name of Developer: Katie Frey, ADS, <https://groups.google.com/d/forum/uat-users>

**Adopted (as opposed to owned) by organizations/publishers:**


[IOP Publishing](#) intend to use this for auto-indexing of images in the [the AAS Astronomy Image Explorer](#) and for indexing content on IOPscience journals and books platform.

**Is the KM being actively developed?**

1. Yes by ADS and the Astronomy

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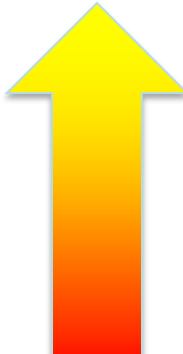
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## CONTRIBUTE

We want to add new Publishers and Knowledge Model information to this site. Please download the template file, which contains full instructions.

[Knowledge Model Templates](#)

The site is currently administered by Christian Kohl and Graham McCann. A self-service site is under consideration.



### LEAVE A REPLY

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Website

Comment

# Want to...

- Strengthen the infrastructure of scholarly communications
- Create standards in adoption of Knowledge Models
- Create a master source of Knowledge Models for use in enrichment processes
- Create a community of publishers

# Want to...

- Help smaller publishers to work with different Knowledge Models
- Encourage service providers to support the industry by adopting standards and developing new Knowledge Models where none exist

# Benefits for authors

- Standard terminology will make it easier to prepare content, using industry-agreed keywords and identifiers.

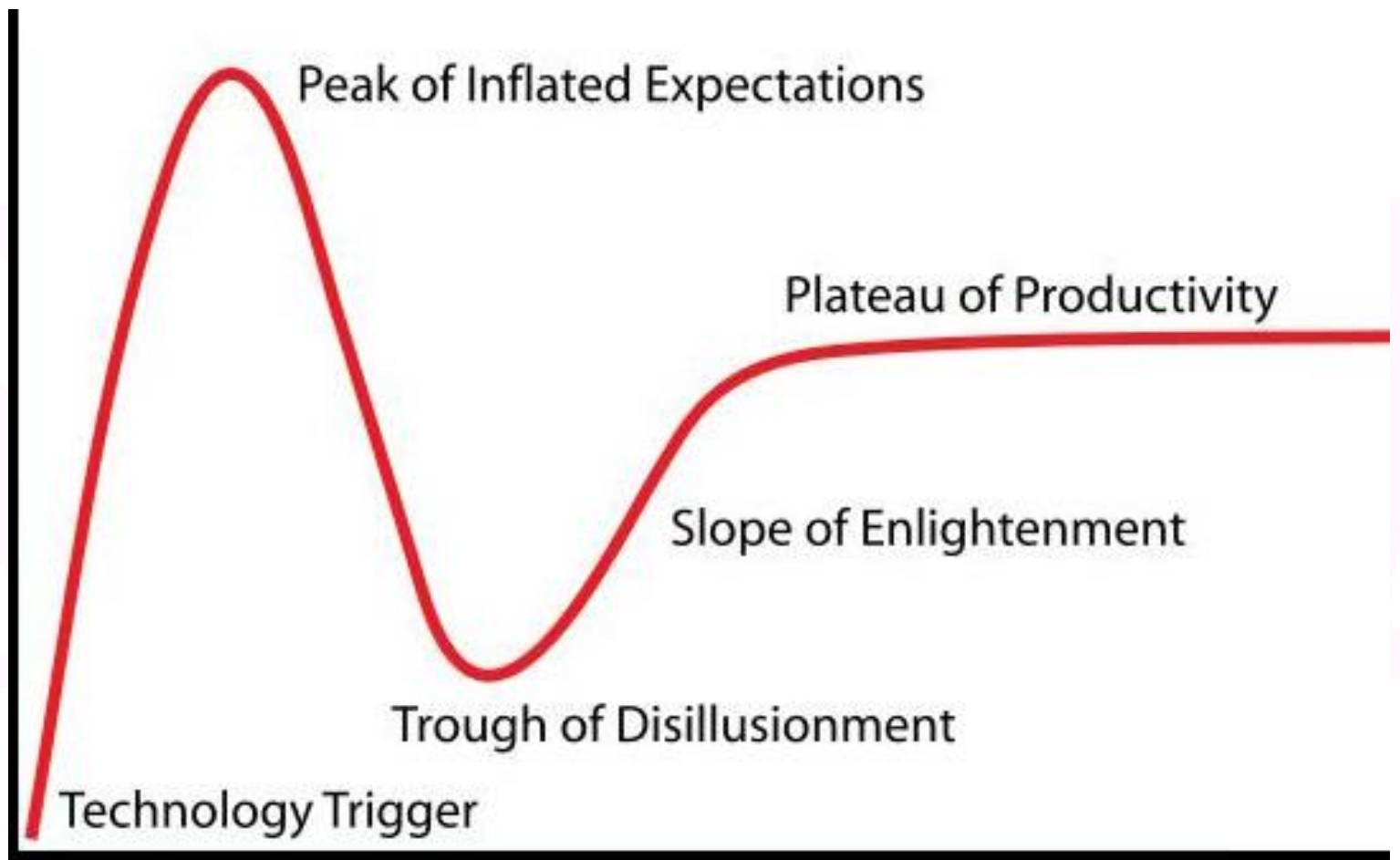
# Benefits for discovery

- A&I services and how they ingest and classify data
- Content vendors and how they tailor services for publishers
- T&DM
- Across publishers





<http://thelearningcurve.ca/>



<http://thelearningcurve.ca/>

Please contribute:

<http://taxonomies.labs.crossref.org/>

# Time's Up!



## About your speaker:

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**Email: [graham.mccann@iop.org](mailto:graham.mccann@iop.org)**

**<http://taxonomies.labs.crossref.org/>**