Data Publishing
STM Adoption and Implementation
How can Publishers help to make this work

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What is STM?

• Worldwide representative of scholarly communication community

• Diverse membership
  – not-for-profit, societies, university presses and commercial
  – Approx 125 publishing houses are members

• Members responsible for nearly two-thirds of all annual article output and over half of active peer-reviewed titles
Publishing Data as 1st class objects

Source: 2015 STM Tech Trends

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Three interrelated core trends:

- Data as 1st class research object
- The Article in a Hub and Spoke model
- Reputation management of researchers

Publishing data to enhance reproducibility (funder mandates), needs citation in and links to Record of Science

Articles become part of a Hub and Spoke model, with many other elements (non text, multimedia, on the web) connected

New metrics to articles and new elements refine the reputation of the researcher
Publications with data

Processed Data and Data Representations

Data Collections and Structured Databases

Raw Data and Data Sets

(1) Data contained and explained within the article

(2) Further data explanations in any kind of supplementary files to articles

(3) Data referenced from the article and held in data centers and repositories

(3a) Big Data, (un)processed, shared in early stages

(4) Data publications, describing available datasets

(5) Data in drawers and on disks at the institute

The Data Publication Pyramid

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What does Adoption mean for our members

Guidance:
• What is involved
• Who are the players
• What is required

Infrastructure
• Across Stakeholders (Data Centers, Funders, Research Institutes)
• Central Hub for linking
• Formats and PI’s to use: DOI please

Best Practice Examples:
• Workflows
• Data Citation
• Linking
• Cost recovery

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Adoption and Implementation: how to get there

- **Show and tell:** Conferences and webinars
  - Innovations Seminars and Future Lab meetings
- **Provide Guidance:**
  - Recommendations by the STM Standards and Technology Executive Committee
  - Joint RDA/ WDS/ Codata/ STM statement for signatories
  - Implementation Register: who does what
Questions?

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