European BIBFRAME Workshop
September 19th 2018

Three Linked Data Choices for Libraries

Beyond MARC

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Data Liberate

Independent Consultant, Evangelist & Founder

40+ Years – Computing
28+ Years – Cultural Heritage technology
13+ Years – Semantic Web & Linked Data

W3C Community Groups:

- **Schema Bib Extend (Chair) - Bibliographic data**
- Schema Architypes (Chair) - Archives
- Financial Industry Business Ontology – fibo.schema.org
- Tourism Structured Web Data (Co-Chair)
- Schema Course Extension
- Schema IoT Community
- Educational & Occupational Credentials in Schema.org

Works With:

- **Google – Schema.org vocabulary, site, extensions, documentation and community**
- **OCLC – Global library cooperative**
- **FIBO – Financial Industry Business Ontology Group**
- **Various Clients – Implementing/understanding Schema.org**
  British Library — Stanford University — Europeana — NLB Singapore

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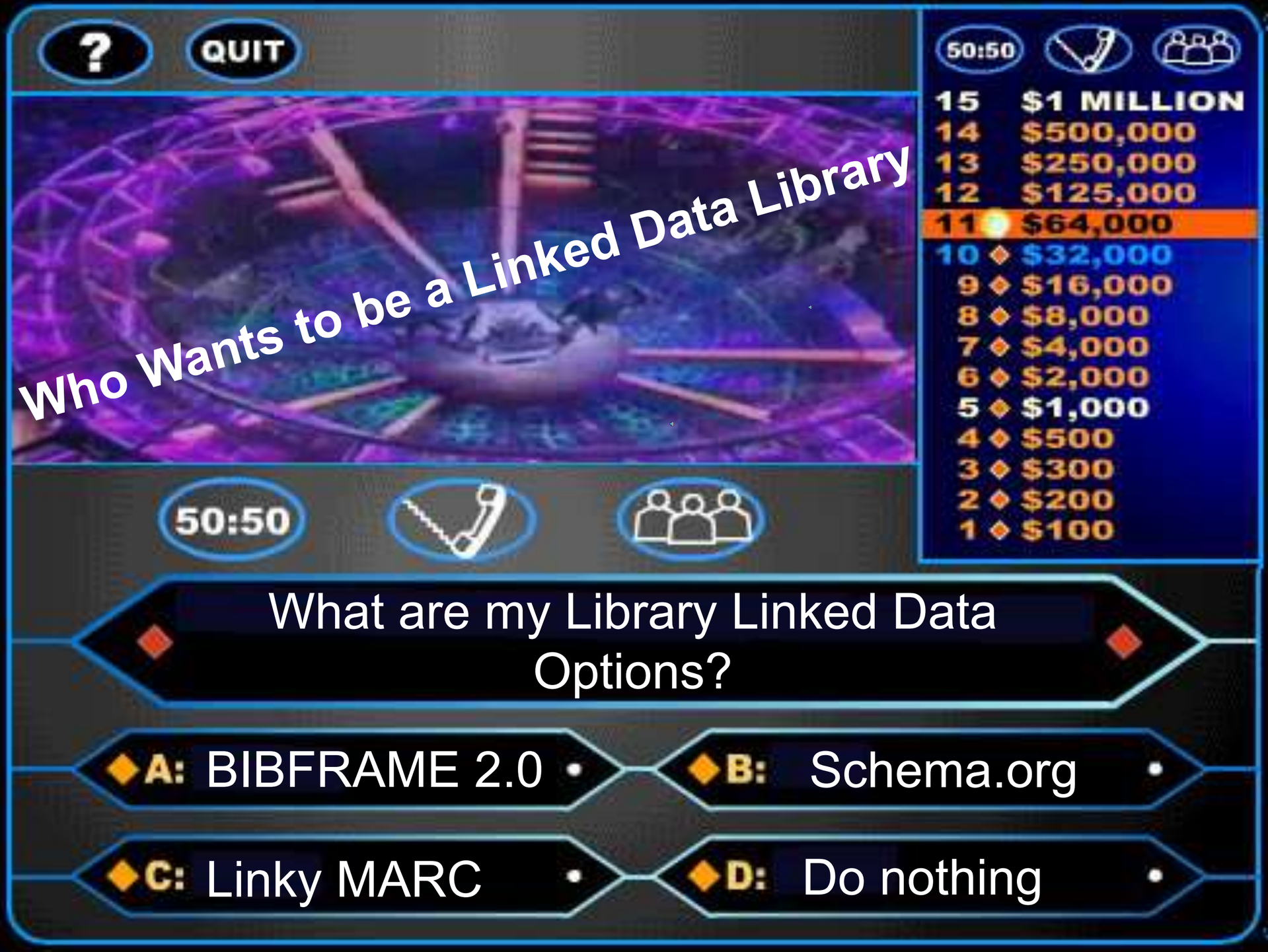
Library Linked Data … where are we now?

- Lots of great individual linked data initiatives
  (interoperability between them a question)
- **Bibframe 2.0** – ready for wider standardized adoption
- **Schema.org** – the de facto structured data standard for the web
  (30% domains using it)
- Potential for adding web links to MARC
  (**Linky MARC**)

Library Linked Data … what is the way forward?

What do I need to implement?

What do I ask my vendor for?


?
QUIT
Who Wants to be a Linked Data Library
50:50
50:50
15 $1 MILLION
14 $500,000
13 $250,000
12 $125,000
11 $64,000
10 $32,000
9 $16,000
8 $8,000
7 $4,000
6 $2,000
5 $1,000
4 $500
3 $300
2 $200
1 $100
What are my Library Linked Data Options?
A: BIBFRAME 2.0
B: Schema.org
C: Linky MARC
D: Do nothing

BIBFRAME 2.0

- Matured from 1.0 (and variations)
- Not perfect but ‘good enough’ – continuing to develop
- MARC Conversion specifications
- Open source MARC Conversion software.
- Good basis for standardized Linked Data (RDF) interchange
- Backed by Library of Congress - Supported by others
- Introduces potential for entity-based cataloguing

BIBFRAME 2.0

- A Library vocabulary/ontology/standard
- Not recognized outside of library and associated organisations
- No real use for increasing visibility & discoverability on the general web

Schema.org

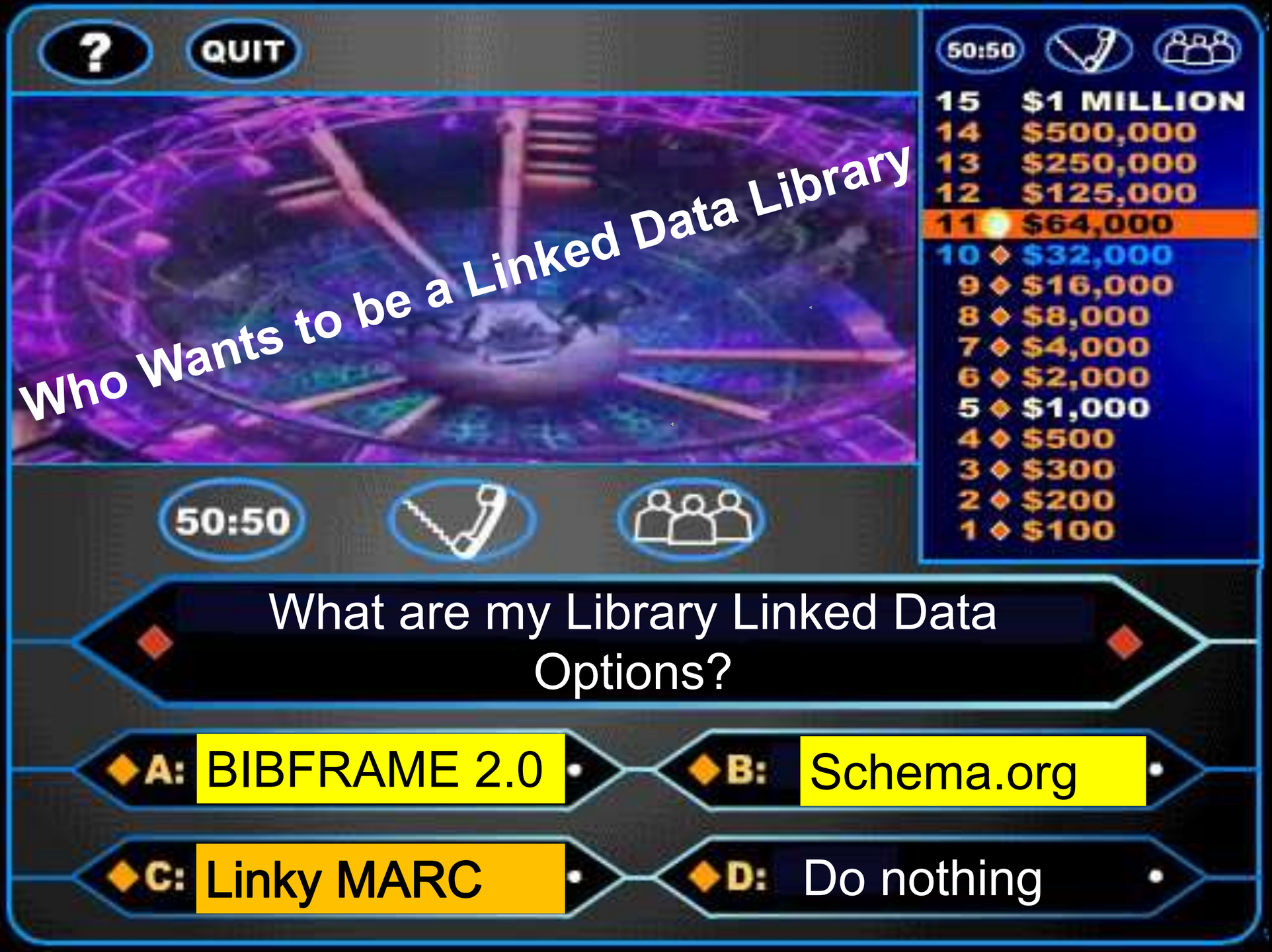
- De facto structured web data standard vocabulary
- Has bibliographic extension
- Shared by embedding in normal page HTML
  (No special data endpoint required)
- Already found in 30% of web
- Requested by Google and others
- Acknowledged by Google to influence indexing
- Used to populate Search Engine Knowledge Graphs
- Driving Semantic Search, Voice Search, Local Search, etc.
- Not detailed/specific enough for library cataloguing, etc.

Linky MARC

- Adding http URIs to $0 & $1 MARC subfields
- Recommendation of the *PCC Task Group on URIs in MARC*
- Consistent approach to include links to entities such as people, organisations, etc. (authorities)
- **Not** Linked Data – but a way to preserve identified entity URIs for the future

Do nothing

- Wait for system suppliers to catch up
- Need to keep aware of developments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What are the Challenges?

(for the technical community)

BIBFRAME

- Consistent approach
- Solve the entity duplication problem in a widely adoptable way
- Concentrate on adoption and interchange
- Get vendor buy-in
- Acknowledge limitations for web discovery & discoverability

Schema.org

- Reference mapping from Bibframe
- Library implementation examples – sitemaps etc.

Linky MARC

- Encourage as an interim solution

bibframe2schema.org

- Open project / community
- Launching *now*
- To agree and promote:
  - Reference mapping from BIBFRAME 2.0 to Schema.org
  - Reference enrichment / conversion scripts
- Interested ?

  Email / tweet me:

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#bibframe2schema

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