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From enthusiasm to hesitation, and beyond

Some German remarks on BIBFRAME

European BIBFRAME Workshop, September 26 and 27, 2017
German National Library in Frankfurt
BIBFRAME - BIBLIOGRAPHIC FRAMEWORK INITIATIVE

Objective

The established formats used by libraries for exchanging data, such as MARC 21 and MODS, are no longer deemed fit for purpose as a result of the increasing level of digital interconnection in the information world. Consequently the Library of Congress launched the "Bibliographic Framework Initiative" (BIBFRAME) in 2011, aimed at replacing the existing formats. The possibilities opened up by Linked Data and Semantic Web technologies were to be taken into account. Modelling and vocabulary issues were explored in collaboration with Zepheira, OCLC and other partners. The decisions were then documented and various tools made available for testing.

As one of the members of the "Early Implementers Group", the German National Library actively supported the initiative as part of its efforts to internationalise the German standards. The main objective of the first phase of the BIBFRAME project was to contribute to the BIBFRAME point papers and to glean experience from carrying out a prototypical conversion of the German National Library data from Pica++ into the BIBFRAME format. This conversion has been available since February 2014 via a link in the bibliographic information of the DNB catalogue.

The German National Library continues to act as disseminator and contact partner for the initiative within the German-speaking countries and makes use of existing structures and bodies to provide information and incorporate this experience into the initiative. Collaboration in the PCC Task Group on URIs in MARC is advancing the preparation for new solutions.

The second phase of the BIBFRAME project of the German National Library is currently at the planning stage. The objective of this is to update and extend the prototypical representation of DNB data in BIBFRAME.

http://www.dnb.de/EN/bibframe
Our views ...
Some clarity ...

- A wide discussion is important.
- International cooperation is important.
- Standards and standardization are important.
- A good balance of top-down and bottom-up is important.
- A rich and consistent description is important.
- Linking is important.
- Authority control is important.
- Re-use of existing metadata is important.
- (Semi-)Automatic cataloging is becoming important.
- Provenance information is becoming important.
... and some open questions

- BIBFRAME in parallel with MARC?
- BIBFRAME as regular part of the DNB's Linked Data Service?
- What do we need BIBFRAME for? Is BIBFRAME usable already? Are there BIBFRAME users already?
- What maintenance and governance structure will BIBFRAME get?
- How will implementation and vendor participation work?
- What about schema.org?
Internal formats and communication formats

- MARC 21
- MODS
- BIBFRAME
- Linked Data
- Dublin Core
- ONIX
- JATS
- XMetaDissPlus
- Pica3
- Pica+
- Cataloger
- Process
- MAB
- Unimarc
- UKMARC
Where are we today?
And where will we be tomorrow?

### Expectations
- On the Rise
  - Supplier proliferation
  - Mass media hype begins
  - Early adopters investigate
  - First-generation products, high price, lots of customization needed
  - Startup companies first round of venture capital funding
  - R&D

### At the Peak
- Activity beyond early adopters
- Negative press begins

### Sliding Into the Trough
- Supplier consolidation and failures
- Second/third rounds of venture capital funding

### Climbing the Slope
- Less than 5 percent of the potential audience has adopted fully

### Entering the Plateau
- Methodologies and best practices developing
- Third-generation products, out of the box, product suites
- High-growth adoption phase starts: 20% to 30% of the potential audience has adopted the innovation

### Time
- **Technology Trigger**
- **Peak of Inflated Expectations**
- **Trough of Disillusionment**
- **Slope of Enlightenment**
- **Plateau of Productivity**

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Thank you.

Questions?
## Extra slides: an example

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<td>Person(en)</td>
<td>Hooland, Seth van (Verfasser) Verborgh, Ruben (Verfasser)</td>
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<td>London : Facet Publishing</td>
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<td>2014</td>
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<td>Umfang/Format</td>
<td>XVII, 254 Seiten : Illustrationen, Diagramme ; 24 cm</td>
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**Frankfurt**
Handbibliothek Dienstbereich : 06.74.10/Hoo  
Signatur: HB 2017 A 19  
Information zur Bestellung und Benutzung  

[http://d-nb.info/1129818381](http://d-nb.info/1129818381)
a) in Pica+

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001U $0utf8
001X $0
002 $0Aa
002C $aText$btxt
002D $aOhne Hilfsmittel zu benutzen$bn
002E $aBand$bn
002N $a2$bi
003@ $01129818381
004A $0978-1-85604-964-1$fBroschur
006U $095,P02
007G $aDNB$01129818381
010$ aeng
010E $erda
011@ $a2014
017A $asf
019@ $aXA-GB
021A $aLinked data for libraries, archives and museums$dhow to clean, link and publish your metadata$hSeth van Hooland, Ruben Verborgh ; Cilip, Chartered Institute of Library and Information Professionals
028A $91058828320$7Tp1$Vpiz$Agnd$01058828320$dSeth$aHooland$cvan$BVerfasser$4aut
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033A $pLondon$nFacet Publishing
034D $aXVII, 254 Seiten
034I $a24 cm
034M $aIllustrationen, Diagramme
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041A/01 $904006439$7Ts1$Vsaz$Agnd$04006439-6$aBibliothek
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041A/03 $904004795$0$7Ts1$Vsaz$Agnd$04040795-0$aMuseum
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045E $e020$f060
045F $eDDC22ger$a025.0427
045F/01 $a025.0427
045Q/01 $9150003889
047A $SERW$abe$crerstellt für r HB
047A $SFE-F$aKer$cbde Verf. Belgier, bevorzugte Namensform nach rda F 11.3

From enthusiasm to hesitation, and beyond | European BIBFRAME Workshop | September 26 and 27, 2017
245 00 $aLinked data for libraries, archives and museums$tbhow to clean, link and publish your metadata$cSeth van Hooland, Ruben Verborgh ; Cilip, Chartered Institute of Library and Information Professionals

650 #7 $5DE-101$5DE-101

850 ## $aDE-101b

b) in MARC 21
c) in the Linked Data Service version (Turtle), part 1

@prefix schema: <http://schema.org/> .
@prefix gndo: <http://d-nb.info/standards/elementset/gnd#> .
@prefix lib: <http://purl.org/library/> .
@prefix marcRole: <http://id.loc.gov/vocabulary/relators/> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
@prefix dcmitype: <http://purl.org/dc/dcmitype/> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix geo: <http://www.opengis.net/ont/geosparql#> .
@prefix umbel: <http://umbel.org/umbel#> .
@prefix dbp: <http://dbpedia.org/property/> .
@prefix dnb: <http://d-nb.info/standards/elementset/dnb#> .
@prefix rdau: <http://rdaregistry.info/Elements/u/> .
@prefix sf: <http://www.opengis.net/ont/sf#> .
@prefix dnb_intern: <http://dnb.de/> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix v: <http://www.w3.org/2006/vcard/ns#> .
@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix ebu: <http://www.ebu.ch/metadata/ontologies/ebucore/ebucore#> .
@prefix bibo: <http://purl.org/ontology/bibo/> .
@prefix gbv: <http://purl.org/ontology/gbv/> .
@prefix isbd: <http://iflastandards.info/ns/isbd/elements/> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
@prefix dc: <http://purl.org/dc/elements/1.1/> .

...
... in the Linked Data Service version (Turtle), part 2

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  rdau:P60049 <http://rdaregistry.info/termList/RDAContentType/1020>;
  rdau:P60050 <http://rdaregistry.info/termList/RDAMediaType/1007>;
  rdau:P60048 <http://rdaregistry.info/termList/RDACarrierType/1049>;
  owl:sameAs <http://hub.culturegraph.org/resource/DNB-1129818381>;
  dc:identifier "(DE-101)1129818381";
  bibo:isbn13 "9781856049641";
  rdau:P60521 "Broschur";
  rdau:P60327 "Seth van Hooland, Ruben Verborgh; Cilip, Chartered Institute of Library
  and Information Professionals";
  dc:title "Linked data for libraries, archives and museums";
  dc:publisher "Facet Publishing";
  rdau:P60163 "London";
  rdau:P60333 "London: Facet Publishing";
  isbd:P1053 "XVII, 254 Seiten";
  rdau:P60539 "24 cm";
  dc:subject "020"^^dnbt:ddc-subject-category, "060"^^dnbt:ddc-subject-category;
  dcterms:subject <http://dewey.info/class/025.0427/e22/>;
  dcterms:issued "2014";
  rdau:P60493 "how to clean, link and publish your metadata".

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d) in the BIBFRAME prototype version (RDF XML), part 1

<?xml version="1.0" encoding="UTF-8"?>

<rdf:RDF xmlns:bf="http://bibframe.org/vocab/
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#
xmlns:skos="http://www.w3.org/2004/02/skos/core#"
xmlns:dcterms="http://purl.org/dc/terms/
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
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xmlns:dc="http://purl.org/dc/elements/1.1/">
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    <bf:modeOfIssuance>Einbändiges Werk</bf:modeOfIssuance>
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...
d) in the BIBFRAME prototype version (RDF XML), part 2

...
e) in the new BIBFRAME version
(to be done - please stay tuned)