

Section 5: Awards

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54. Introduction

An award is the funds awarded to an opportunity applicant. When an FB chooses the successful applicant(s), the FB grants the award. One opportunity can result in one or several awards. Do not capture awards that are denied or not awarded.

Although an Opportunity can be captured for more than one FB (for example, if co-funded and published on each FB site), Awards are only captured once. Suppliers must have de-duplication capabilities for Awards that appear in more than one source.

When using automated awards capture, use only what is found in the input. Document any content capture that deviates from these instructions, in the **Supplier Mapping Comments** column of the automation mapping spreadsheet.

As with the other content types, the supplier uses the JSON schema and data provided in the *Hydra Ingestion API*, including the determinization of mandatory and optional properties or values. If the *Hydra Ingestion API* shows an asterisk (*) next to a property, the property is mandatory. If there is no asterisk for the property, but the sub-properties within the property do contain an asterisk, these sub-properties are mandatory when the main property is used.

55. Inactive award URL – technical reasons

The supplier monitors the FB URL used to list awards. This URL is received from Elsevier or found by the supplier. The supplier loads this URL into a monitoring tool(s) in order to find new awards as they are listed.

Note: This URL contains a list of awards for an FB. Do not confuse this URL with separate URLs for each award.

If the FB listed awards URL becomes inactive for technical reasons, such as FB loading updates, website redesign or construction, migration to a new site, or reorganizations; the supplier is expected to search for a replacement URL from the FB to use for monitoring. If no new FB listed awards URL can be found in three months, the supplier sends an email message to Elsevier with CC: fundingoperations@elsevier.com. The subject line must read:

Funding Data: Technical Inactive AW URL for capture DDMonYYYY

Elsevier evaluates whether to continue monitoring the FB on a case-by-case basis. Elsevier informs the supplier regarding this decision and requests an update to the record. If a request to stop capturing is given, the supplier adds ***No valid URL available for Award capture. Capture discontinued on DDMonYYYY*** in the `comment` property in the object **Provenance**, see chapter 85, *Basic record information provenance*.

Note: Data capture is only stopped when requested by Elsevier.

56. Award record ID

object	Award
property	<code>grantAwardId</code>

Property `grantAwardId` is created and assigned by suppliers as the unique Elsevier identifier for the award.

57. Funding body award ID

object	Award
property	<code>fundingBodyAwardId</code>

Property `fundingBodyAwardId` contains the unique identifier given to the award by the FB. If the FB does not publish an ID, a number, code or other identifier for the award, use the value "Not available".

The identifier must be unique for the award. Use an internet search to verify that the identifier can be used to find the award.

58. Standard award record information

object	Award
property	hasProvenance

All standard details for the award records, such as the supplier details, status of the record, and, the creation and update details can be found in chapter 85, *Basic record information provenance*.

59. Award name

object	Award
property	title

Property title contains the object **StringWithLanguage**, see chapter 83, *String with language* for more information. This property contains the title of the award. The information captured is the subject title of the award. For awards that have no title, send an email message to Elsevier and CC:fundingoperations@elsevier.com.

Capture the award title as found in the FB source, the supplier is not required to create or edit the title.

60. Award dates

object	Award
property	noticeDate, startDate, endDate

Properties `startDate` and `endDate` contain the logical start and end dates for the award as found in the source. Property `noticeDate` contains the date on which the decision is made or published.

Property `startDate` is required. Correct data capturing formats for dates are found in chapter 92, *Date fields*.

61. Award type

object	Award
property	grantType

Property `grantType` is used to capture the value most relevant to the award type. The same values and instructions are used as the property `grantType` in the opportunity data substituting object **Award** for object **Opportunity**. See chapter 34, *Opportunity type* and *Table 6* for more information.. The assigned value must clearly define the primary type of content. If the content appears to fall into multiple categories, assign one type that defines the primary category for the content.

62. Award record source

object	Award
property	homePage

Property `homePage` contains the object **Homepage** which is used to capture the record source information using the properties `link`, `publishedDate`, and `modifiedDate`. See chapter 86, *Home page details* for more capturing details.

63. Award synopsis

object	Award
property	synopsis

Property `synopsis` contains the object **StringWithLanguageAndSource**, see chapter 84, *String with language and source* for more information. This property contains the text description of the award as found on the FB website. This may also be called abstract, *description*, *overview*, or *objectives*.

64. Keywords

object	Award
property	keyword

Property `keyword` contains the object **StringWithLanguage**, see chapter 83, *String with language* for more information. This property is used to capture keywords as defined in the award announcement. Keywords normally reflect the main research topics that the funding award covers. FB can also refer to *tags*, *topics*, *categories*, *areas*, and *subjects*. Capture the English keywords first and other language keywords when available, except for during automated awards capture.

65. Funds

object	Award
property	funds

The property `funds` contains the object **AwardFund** with the sub-properties mentioned in *Table 14* and the details of the project the award is funding.

Table 14 - Properties for object AwardFund

Properties of <code>funds</code>	description
<code>fundingProjectId</code>	ID of the project that is funded as defined by the funding organization.
<code>acronym</code>	Acronym of the project this award is funding
<code>hasPart</code>	Used if some of the funding is derived from a subproject as mentioned by the FB.
<code>title</code>	Title of the project this award is funding. Contains object StringWithLanguage , see chapter 83, <i>String with language</i> for more information.
<code>startDate</code>	Project start date
<code>endDate</code>	Project end date
<code>hasPostalAddress</code>	Location where the award or project took place, contains the object PostalAddress . See chapter 88, <i>Contact details postal address</i> for more information
<code>link</code>	URL pointing to a project page or to the funder page with further details about the funded project
<code>status</code>	Status of the project, capture: "OPEN" or "CLOSED"

65.1 Subproject funding

property	<code>hasPart</code>
sub-property	<code>budget</code> , <code>fundingBodyProjectId</code>

If part of the funding is from a subproject as mentioned by the FB, use the property `hasPart`. The property `budget` is used to indicate the total (sub)project cost whether funded or not and contains the object **AmountWithCurrency**, see chapter 89, *Amount with currency* for more information. The property `fundingBodyProjectId` contains the ID of the (sub)project that is funded as defined by the FB.

66. Funding details

object	Award
property	<code>fundingDetail</code>
sub-property	<code>fundingTotal</code> , <code>installment</code>

The property `fundingDetail` contains the funding details of the awards. Property `fundingTotal` contains the digits representing the total funding assigned to a project through this award, if there are installments this number represents the sum of all yearly installments. This property contains the object **AmountWithCurrency**, see chapter 89, *Amount with currency* for more information. Usually the total awarded amount is indicated, sometimes only an estimated amount is given or the awarded amount to date The property `installment` contains the information representing the awarded amount for each installment or fiscal year.

66.1 *Installment amounts*

object	Award
property	<code>installment</code>
sub-property	<code>financialYear</code> , <code>index</code> , <code>fundedAmount</code>

The property `financialYear` contains the year that the installment payment took place. The property `index` indicates the number of installments, with each new installment adding to the index. Default is 1. The property `fundedAmount` contains the amount that was awarded in the installment.

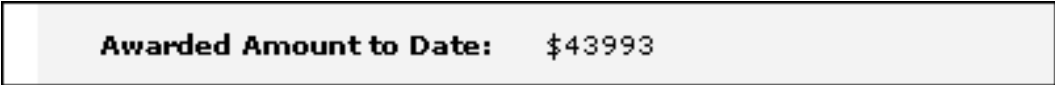


Figure 61 - An NSF award, capture the amount 43993.

Award amount example:

Funding Information	
Fiscal Year	Amount
2006-07	\$66,124
2007-08	\$72,944
2008-09	\$62,726
2009-10	\$40,678
Total: \$242,472	

Figure 62 - CIHR Award, capture 242472 as totalAmount and four different installment amounts per fiscal year respectively.

67. Award classifications

object	Award
property	<code>classification</code>

Property `classification` contains the object **Classification** which contains classification types and codes for the award. See chapter 91, *Classification* for more information.

68. Funder scheme

object	Award
property	<code>funderSchemeType</code>

Property `funderSchemeType` is used to indicate the type of funding provided by the funder for this award as stated in the award announcement. Supplier captures the original funder text or description that is used to determine the specific categories in `grant type`, check the funder scheme type may be the program area, program title,category, or a section heading description that identifies the type of funding provided by the funder for this award.

Examples:

- `"grantType": GRANT` and `"funderSchemeType": Standard Research Grant`

- "grantType": FELLOW and "funderSchemeType": Postdoctoral Fellowship
- "grantType": RESEARCH and "funderSchemeType": AHA Allen Brain Health Initiative
- "grantType": COOP and "funderSchemeType": Cooperative Agreement
- "grantType": COMMUNITY and "funderSchemeType": Global Development

69. Awardees

object	Award
property	awardeeDetail
sub-property	activityType, affiliationOf, departmentName, fundingBodyOrganizationId, fundingTotal, hasPostalAddress, identifier, name, role, link, vatNumber, awardeeAffiliationId

Awardees are recipients of awards. An award can be given to a physical person as well as to an institution or legal entity. Property `awardeeDetail` contains information about these award recipients. If there are multiple awardees, capture each in a new set of sub-properties in `awardeeDetail`.

Example:

```
"awardeeDetail": [{sub-properties institution 1}, {sub-properties institution 2}]
```

69.1 Awardee is an institution

When the awardee is an institution, the name of the institution is captured in the required property name using object **StringWithLanguage**, see chapter 83 *String with language* for more information. Capture the name as it appears on the source. If multiple languages are available, capture the language variations in property name.

Note: If only person awardees are mentioned without an institution affiliation, supplier captures "Not available" in the property name.

69.1.1 Institution type

property	activityType
----------	--------------

The property `activityType` is an open text field used to indicate the type of organization activity as found in the award announcement, that is, research organization or industry.

69.1.2 Funding body organization ID

property	fundingBodyOrganizationId
----------	---------------------------

Any funder-specific affiliation ID is captured in the property `fundingBodyOrganizationId` when found in the source.

69.1.3 Affiliation department

property	departmentName
----------	----------------

Any affiliation department mentioned in the announcement is captured in the property `departmentName` using object **StringWithLanguage**, see chapter 83 *String with language*, for more information.

69.1.4 Awardee amount

property	fundingTotal
----------	--------------

Property `fundingTotal` contains the object **AmountWithCurrency**, which represents the awarded amount for each awardee when award amounts are shared. See chapter 89, *Amount with currency* for more information. If the website does not indicate an award amount, do not capture this property.

Coordinator	
DEIMOS SPACE SOCIEDAD LIMITADA UNIPERSONAL RONDA DE PONIENTE, Edificio Fiteni VI, 2, 2º 19 28760 TRES CANTOS (MADRID) Spain	Spain  EU contribution: EUR 1 420 600
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments) Contact the organisation	
Participants Collapse all 	
DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV Linder Hoehe 51147 KOELN Germany	Germany  EU contribution: EUR 1 450 000
Activity type: Research Organisations Contact the organisation	
TECHNISCHE UNIVERSITAET GRAZ RECHBAUERSTRASSE 12 8010 GRAZ Austria	Austria  EU contribution: EUR 560 000
Activity type: Higher or Secondary Education Establishments Contact the organisation	

Figure 63 - H2020 Awards.

69.1.5 Affiliation address

property hasPostalAddress

The address details of the affiliation are captured in the property `hasPostalAddress`. This property contains the object **PostalAddress**, see chapter 88, *Contact details postal address* for more information.

69.1.6 Affiliation role

property role

values "COORDINATOR", "PARTICIPANT", "COLLABORATOR"

Property `role` is used to indicate the role of the awarded institution in the project if provided by the FB. The default value is "COORDINATOR". This information is normally provided for EU data.

69.1.7 Affiliation webpage

property link

The website of the awarded institution or department is captured in the property `link`.

69.1.8 Affiliation identifier

property identifier

sub-property type, value

The property `identifier` is used to capture specific identifiers from the source. Property `value` contains the identifier and property `type` uses one of these values: "ROR", "WIKIDATA", "DUNS", "UEI".

Note: DUNS or Unique Entity Identifier (UEI) numbers are normally provided for USA funding (Federal awards government-wide).

69.1.9 VAT number

property vatNumber

The funder-specific VAT number is captured in the property `vatNumber` when found in the source.

69.1.10 Affiliation indexer ID

property	<code>awardeeAffiliationId</code>
----------	-----------------------------------

The property `awardeeAffiliationId` is a generated identifier for each institution given an award. The supplier creates the `awardeeAffiliationId` value by capturing the `grantAwardId` value, followed by `_A_`(sequence number), where sequence number begins at "0" as shown in the example.

Example:

```
"awardeeAffiliationId": "100009932169_A_0"
"awardeeAffiliationId": "100009932170_A_1"
```

Note: If only person awardees are mentioned without an institution affiliation, supplier captures `awardeeAffiliationId` once with 0.

69.2 Awardee is a person

property	<code>affiliationOf</code>
----------	----------------------------

sub-property	<code>role, initials, name, givenName, familyName, emailAddress, identifier, fundingBodyPersonId, awardeePersonId</code>
--------------	--

Awardees within the institution who received the award or will work on the funded project are captured in the property `affiliationOf`. If multiple awardees are from the same institution, capture in a new set of sub properties under in `affiliationOf`. Awardees from different institutions must be captured in their respective `affiliationOf` property relating to the correct institution as shown in the example.

Note: When updating granted awards, the designated PI could change for many reasons, best practice is to capture the current PI as the PI and move previous PI to coPI. This method is used for NIH awards.

Note: If the source indicates multiple affiliations without direct link to the awardee person, supplier captures "Not available" in the property `affiliationOf`.

Note: If only person awardees are mentioned without an institution affiliation, supplier captures "Not available" in the property `affiliationOf`.

Example:

```
"awardeeDetail":
  [{sub-properties awardee institution 1:
    [{sub-properties affiliationOf person awardee 1},
     {sub-properties affiliationOf person awardee 2}]],
   {sub-properties awardee institution 2:
     [{sub-properties affiliationOf awardee 3}]}}
```

69.2.1 Person awardee type

property	<code>role</code>
----------	-------------------

The values for property `role` are described in *Table 15*.

Table 15 - Values for property role

Values for type	Description
"PI"	The "PI" is the principal or primary investigator. The principal investigator is the project leader who is (legally) responsible for the research project. The PI may share responsibility with co-principal investigators; each is captured in a separate <code>affiliationOf</code> property.. A project may have more than one PI; each is captured in a separate <code>affiliationOf</code> property.
"coPI"	The "coPI" is the co-principal investigator. Together with the PI, co-principal investigators are (legally) responsible for the research project. A project may have several co-principal investigators; each is captured in a separate <code>affiliationOf</code> property.
"PS"	The "PS" is the primary supervisor. This person is supervising the research project. Use if the source mentions this role.
"ST"	The "ST" is a student. This value is used if specified by the source.
"RE"	The "RE" is a researcher. This value is used if specified by the source.

69.2.2 Awardee person names

property initials, name, givenName, familyName

Capture the name of the awardee as in the source in the properties as described below:

Initials

Capture the initials of the given name of an awardee in the property `initials`. Capture initials in uppercase and with a period. Hyphenated given names must include the hyphen. If more than one initial appears, capture the initials without spaces between them.

Family name

Capture the surname of the awardee, in most cases this is the last name. See chapter 87.3, *Family name*, for more information.

Given name

Capture the first name of the awardee. See chapter 87.1, *Given name*, for more information. If the complete given name cannot be found, capture the name as it appears on the award website.

Name

Capture the full name as it appears in the source in the property `name` using the object **StringWithLanguage**, see chapter 83, *String with language* for more information. If multiple languages are available, also capture the language variations in property `name`.

Table 16 - Capturing sub-properties of the property `affiliationOf`

Name (on FB website)	Capture		
	givenName	familyName	initials
John William Jones	John William	Jones	J.W.
John W. Jones	John W.	Jones	J.W.
J.W. Jones	J.W.	Jones	J.W.
John Jones	John	Jones	J.
J. Jones	J.	Jones	J.

Name (on FB website)	Capture		
	givenName	familyName	initials
Jones		Jones	
J. T.	J.	T.	J.

69.2.3 Awardee person email address

property emailAddress

Capture the email address of the awardee in the property `emailAddress` when available in the source.

69.2.4 ORCID identifier

property identifier

sub-property type, value

All ORCIDs are captured in the property `identifier` when found in the source. Use value "ORCID" for the property `type` and capture the ORCID digits in the property `value`.

69.2.5 Funder specific researcher ID

property fundingBodyPersonId

Any funder-specific researcher ID, except for the ORCIDs, are captured in the property `fundingBodyPersonId` when found in the source.

69.2.6 Awardee person indexer ID

property awardeePersonId

The property `awardeePersonId` is a generated identifier for each instance of an awarded person or researcher. The supplier creates the `awardeePersonId` value by capturing the `grantAwardId` value, followed by `_P_`(sequence number), where sequence number begins at "0" as shown in the example.

Example:

```
"awardeePersonId": "100009932169_P_0"
"awardeePersonId": "100009932170_P_1"
```

70. License information

object **Award**

property licenseInformation

Property `licenseInformation` contains the object **StringWithLanguageAndSource**, see chapter 84, *String with language and source* for more information. Some FBs require that Elsevier cite the FB license when using their data in a commercial product. Use property `licenseInformation` to capture information attributing the data to the FB. Capture all data in the available fields.

License capture example:

```
"licenseInformation": [{
  "abstract": {
    "language": "en",
    "value": "© European Union"
  }
  "source": https://cordis.europa.eu/about/legal/en
}]
```

71. Related funding bodies

object	Award
property	relatedFunder
sub-property	leadFunder, hasFunder

Related FBs in awards are captured as they are for opportunities. Follow the instructions in chapter 1, ; substituting the object **Award** for object **Opportunity** where required. Capture each FB in the group, except for the lead funder, in a separate hasFunder property.

DESCRIPTION	DETAILS	RESULTS	HISTORY	SUBPROJECTS	SIMILAR PROJECTS	NEARBY PROJECTS BETA	LINKS	NEWS AND MORE
Project Number: SR13HD064155-02 Title: GATLINBURG CONFERENCE ON RESEARCH IN ID/DD		Contact PI / Project Leader: ABBEDUTO, LEONARD J. Awardee Organization: UNIVERSITY OF CALIFORNIA AT DAVIS						
Contact PI / Project Leader Information:		Program Official Information:		Other PI Information: Profile Exists No Profile				
Name: ABBEDUTO, LEONARD J. Email: Click to view Contact PI / Project Leader email address Title: PROFESSOR		Name: KAU, ALICE S Email: Click to view PO email address		Not Applicable				
Organization: Name: UNIVERSITY OF CALIFORNIA AT DAVIS City: DAVIS Country: UNITED STATES (US)		Department Type/ Organization Type: PSYCHIATRY SCHOOLS OF MEDICINE		Congressional District: State Code: CA District: 03				
Other Information:								
FOA: PA-13-347 Study Section: Developmental Biology Subcommittee (CHHD-C)		DUNS Number: 047120084 Project Start Date: 15-JAN-2016 Budget Start Date: 1-JAN-2017		CFDA Code: 865 Project End Date: 31-DEC-2020 Budget End Date: 31-DEC-2017				
Fiscal Year: 2017 Award Notice Date: 20-DEC-2016								
Administering Institutes or Centers: EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT								
Project Funding Information for 2017:								
Total Funding: \$20,000			Direct Costs: \$20,000					
Year	Funding IC	FY Total Cost by IC						
2017	EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT	\$10,000						
2017	NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE	\$5,000						
2017	NATIONAL INSTITUTE ON AGING	\$5,000						

Figure 64 – NIH award, with multiple funders. Capture all if available with Eunice Kennedy Shriver National Institute of Child Health & Human Development as lead.

72. Related opportunity

object	Award
property	relatedOpportunity
sub-property	grantOpportunityId, title, description fundingBodyOpportunityId

The property `relatedOpportunity` describes the relationship between an opportunity and any awards made from that opportunity. If described, capture this information. Use the property `fundingBodyOpportunityId` to capture the ID of the related opportunity defined by the FB and the `grantOpportunityId` to capture the Elsevier internal identifier of the related opportunity. The property `description` is used to capture the text of the source describing a related opportunity. The property `title` contains the title of the related opportunity.

Example:

```
"relatedOpportunity" : [{
  "grantOpportunityId": 300119766,
  "fundingBodyOpportunityId": "USDA-USFS-2019-0127",
```

```
"title" : [{"language" : "en", "value" : "Postgraduate research opportunity  
evaluating carbon models for policy development"}],  
"description": "This award is related to USDA-USFS-2019-0127"]}
```

Section 6: Publications

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Suppliers use the content type publication output (formerly called research output) to capture information about publications that result from an award. The publications are usually journal articles, books, or other written materials. The publication output is captured as described in this section. Capture this information when available. Always assess options for automation, direct download of data sets, or APIs from FBs.

If the publication output is the result of more than one award, its information is captured in each award mentioned in the publication output.

If an award results in more than one instance of publication output, each instance is captured in a separate output as described below.

As with the other content types, the supplier uses the JSON schema and data provided in the *Hydra Ingestion API*, including the determinization of mandatory and optional properties or values. If the *Hydra Ingestion API* shows an asterisk (*) next to a property, it is mandatory. If there is no asterisk for the property, but the sub-properties within this property do contain an asterisk, these sub-properties are mandatory when the main property is used.

73. Publication output ID

object	Publication
property	publicationOutputId

Property `publicationOutputId` contains the unique identifier generated by the supplier for the publication output record.

74. Output title

object	Publication
property	title

Property `title` contains the title of the referenced publication. Capture the output title as found in the publication output source, the supplier is not required to edit the title. Depending on the source structure, it may be a separate field or may need to be separated from text. This property contains the object **StringWithLanguage**, see chapter 83, *String with language* for more information.

75. Output author

object	Publication
property	author, hasAuthor
sub-property	name

The property `author` is used to capture the list of publication authors as it appears on the source, no formatting is needed for this property.

The property `hasAuthor` contains the list of author names using the property `name` for each author.

Example:

```
"author": "Englehardt J, James D, Chiu, Weihsueh A",
"hasAuthor": [{"name": "Englehardt J"}, {"name": "James D"}, {"name": "Chiu"},
{"name": "Weihsueh A"}]
```

76. Output source

object	Publication
property	<code>hasJournal</code>
sub-property	<code>title</code> , <code>identifier</code>

The property `hasJournal` contains properties to capture, when provided:

- `title`: Title of the journal, book, or material where output is published
- `identifier`: Identifiers of the referenced publication. Contains the following properties: `type` and `value`. The type used for journals is the value "ISSN".

Property `title` contains the object **StringWithLanguage**, see chapter 83, *String with language* for more information. Capture the publication output source title as found in the FB source, the supplier is not required to edit the title.

Example:

```
"hasJournal" : {
  "title": [{"language": "en", "value": "PLoS One"}],
  "identifier": {"type": "ISSN", "value": "19326203"}
```

77. Standard publication record information

object	Publication
property	<code>hasProvenance</code>

All standard details for the award records, such as the supplier details, status of the record, and the creation and update details are captured in `hasProvenance`, see chapter 85, *Basic record information provenance* for more information.

78. Publication identifier

object	Publication
property	<code>identifier</code>
sub-property	<code>type</code> , <code>value</code>
values	"DOI", "MEDLINE", "PUBMED", "PMC", "SCOPUSEID", "ISBN"

The property `identifier` refers to the research output identifier in a journal, book, or other written material. Capture DOI, PubMed, PubMed Central, Medline, Scopus article identifiers, or any other item identifier using the specified type values described in *Table 17*.

Table 17 – Identifier types to capture for the publication identifiers

Identifier types	Example values
"DOI"	10.1371/journal.pone.0211780
"MEDLINE"	7058555587
"PUBMED"	30768598

Identifier types	Example values
"PMC"	PMC6377108
"SCOPUSEID"	2-s2.0-41049112855
"ISBN"	978-3-16-148410-0

Example:

```
"identifier": [{"type": "PUBMED", "value": "10000000001"}, {"type": "MEDLINE", "value": "7058555587"}, {"type": "DOI", "value": "10000000001"}, {"type": "PMC", "value": "grid.431093.c"}, {"type": "SCOPUSEID", "value": "1234"}]
```

79. Publication URL

object	Publication
property	publicationURL

The property `publicationURL` contains the URL where the actual publication or article can be accessed. This is not always available and should not be confused with the source URL where the reference to the actual publication is stated.

Note: Publication URLs can often be found by clicking or searching for the DOI.

80. Output publication date

object	Publication
property	publishedDate

The property `publishedDate` contains the date the publication output was published. Depending on the source, the date can appear in various formats, such as: full, only month and year, or only year..

Examples:

```
"publishedDate": "2019-02-15T00:00:00"
```

81. Output related awards

object	Publication
property	relatedAward
sub-property	outcomeOf

The property `relatedAward` is used to capture all information about the award or project that resulted in this publication. The property `outcomeOf` contains the properties as described in *Table 18*.

Table 18 – Identified data examples to capture for the related awards

Properties for <code>outcomeOf</code>	Description	Examples
<code>grantAwardId</code>	Internal Elsevier reference of the award. This information can be found in the CMS of the data providers based on the <code>fundingBodyAwardId</code>	439159953

Properties for <code>outcomeOf</code>	Description	Examples
<code>fundingBodyAwardId</code>	Identifier used by a funder to uniquely identify specific awarded grants. Special care should be taken as many funders refer to awards as funded projects.	"1038257"
<code>fundingBodyProjectId</code>	Identifier used by an FB to uniquely identify a specific project	IQ123
<code>title</code>	Title of the award that resulted in this publication with language, contains object StringWithLanguage	"language" : "en", "value" : "EFRI-SEED: Design for Autonomous Net-Zero Water Buildings"
<code>description</code>	Raw text is captured that describes the relationship between a publication and an award, contains object StringWithLanguage	"Partial support for this work was obtained from the National Science Foundation (nsf.gov) grant no. 1038257 (JDE) "

82. Output related funder

object	Publication
property	<code>relatedFunder</code>
sub-property	<code>leadFunder</code> , <code>hasFunder</code>

For `relatedFunder`, capture FBs that have financed the award that resulted in this publication, such as:

- `leadfunder` - main funder of the award. If a funder has a complex hierarchy, take the lowest level of the hierarchy. If multiple funders are mentioned, capture the one which is reporting the award-to-publication link.
- `hasFunder` - contains all funders listed as contributing to the award that funds the publication. The list must also contain the lead funder, and any other listed funders.

Both `leadFunder` and `hasFunder` contain the property `fundingBodyId` to identify the related funders.

Related FBs in publications are captured as they are for opportunities. Follow the instructions in chapter 1, ; substituting the object **Publication** for object **Opportunity** where required.

Section 7: Common objects

The information in this section describes the use of common objects found in the funding schemas.

83. String with language

object **StringWithLanguage**

property language, value

Object **StringWithLanguage** contains the properties `language` and `value`. The property `language` contains the language code for the title and the default value is "en". Use the 2-letter code in *Language Codes (2, 3, and 4 letters)* for languages other than English. The property `value` contains the text to be captured. Capture the English description first and other language descriptions when available.

84. String with language and source

object **StringWithLanguageAndSource**

property abstract, source

Object **StringWithLanguageAndSource** contains the properties `abstract` and `source`. The property `abstract` contains object **StringWithLanguage** as described in chapter 83, *String with language*. The property `source` contains the URL where the captured information was found. Capture the English description first and other language descriptions when available.

85. Basic record information provenance

object **Provenance**

property contactpoint, createdOn, defunct, derivedFrom, hidden, lastUpdateOn, status, version, wasAttributedTo

Object **Provenance** contains all the details pertaining to an FDM record. This object can be used in any type of record: FB, opportunity, award, or publication output.

Table 19 - Properties of Provenance

Property	Description
contactPoint	Contact email address of the supplier that can be used to address any issues regarding the record
createdOn	Date that the record was created (as per supplier CMS)
defunct	Boolean; "true" indicating that the record has been tagged as invalid, such as a duplicate, and is no longer used by Elsevier products Note: This property is not to be used unless explicitly requested by Elsevier
derivedFrom	Source URL of the record
hidden	Boolean; "true" indicating that the record will not be displayed on customer-facing products
lastUpdateOn	Date when the record was updated (as per supplier CMS)
status	Status of the record: "NEW", "UPDATE", or "DELETE" Note: "DELETE" can only be used with Elsevier consent
version	Record version number, increased for each update
wasAttributedTo	Identifier of the data provider for the record: "SUP001", "SUP002", "SUP003", or "NOTSPECIFIED"

86. Home page details

object	Homepage
property	link, publishedDate, modifiedDate

Object **HomePage** is used to capture the source URL from which the opportunity or grant information was obtained. In the property `link`, capture the URL that points to the webpage containing the official overview of the opportunity or grant, not to related PDF documents or attachments.

Property `publishedDate` contains the date the opportunity or grant was released (first made public) by the funder. Variations include: *release date*, *posted date*, *publication date*, and *created date*. Do not capture this property when the opportunity or grant does not contain information about a release date.

Property `modifiedDate` contains the date the opportunity or grant record was modified on the sponsor website. Variations include *date updated*, *date revised*, and *last update*. Do not capture this property when the opportunity or grant does not contain information about a modification date.

Note: For more information on how to capture date fields see chapter 92, *Date fields*.

Example:

```
"homePage" : {
  "link" : "https://www.grants.gov/web/grants/view-opportunity.html?oppId=320798",
  "publishedDate": "2019-09-20T01:00:00",
  "modifiedDate": "2019-09-20T01:00:00" }
```

Topic: H2020-European-i-capital-Prize-2017: European Capital of Innovation prize		Open
Publication date: 22 March 2017		
<hr/>		
Types of action:	RPr Recognition Prize	
DeadlineModel:	single-stage	Deadline: 21 June 2017 17:00:00
Opening date:	22 March 2017	
Time Zone : (Brussels time)		

Figure 65 - Horizon2020 - Publication Date is captured as `publishedDate`.

⚠ Notices	
The content of this funding opportunity has been updated	
Date updated: 2017-01-13	
Section updated: How to Apply (Step 1 - Registration)	

Figure 66 - Horizon2020 - Date updated is captured as `modifiedDate`.

87. Contact details person

object	Person
property	honorific, initials, givenName, middleName, familyName, emailAddress

Object **Person** contains contact details of a person related to the opportunity or award record.

The property `emailAddress` is used to capture the contact person email address details as it appears in the source or website including capitalization. If more than one email address is given for a contact capture only the first address. Include only one @ for each email address.

Capture prefixes in the property `honorific` in their order of appearance. These are the abbreviated titles of the contact person. If the title is not abbreviated, abbreviate as shown in *Table 20*, unless the data capture is automated.

Table 20 - Abbreviations to capture for name prefixes and suffixes

Prefix or Suffix	Abbreviation to capture
Assistant Professor	Asst. Prof.
Associate Professor	Assoc. Prof.
Research Associate	R.A.
Post-doctoral Fellow	Postdoc.
Professor	Prof.
Doctor	Dr.
PhD	PhD
MD	MD

Capture the initials of the name in order of the given name in `initials` separated by a period.

87.1 Given name

Capture the first name or given name in the property `givenName`, capitalizing the first letter. The most common formats are described below:

- If the given name is abbreviated, check elsewhere in the record, article, website, or on related websites (following links) for the complete given name.
- Hyphenated given names must include the hyphen.
- If the complete given name cannot be found, capture the name as it appears in the source.

87.2 Middle name

All other names besides the first name are captured in the property `middleName`, if available.

- For names in the source consisting of multiple names where only the first given name is complete and the others are abbreviated, check elsewhere on the article, record, website, or on related websites (following links) for the complete given name.

Note: Middle name is not applicable in the JSON funding schema. The middle name (initials) if available are being captured under the given name.

87.3 Family name

Capture the surname in the property `familyName`. Use the following guidelines to assess and capture the correct surnames:

- Capture the first letter of each surname in uppercase.
- Prefixes such as: van, von, de, da, la, della, der, du, des, de la, and van der, that are part of the surname are captured together with the family name, as it appears in the original source.
- Capture the hyphen in hyphenated surnames.

- Chinese, Vietnamese, and Korean surnames: One or two-syllable hyphenated names are the given name. If the names are two or three one-syllable names without a hyphen, use the first name as the surname and the others as given names.
- Many websites have Asian names changed to Western formats; check the style of other names on the website or source.
- Latin surnames: In Brazil, Portugal, Spain (and possibly other Latin countries) a surname is comprised of two or more family names. If it is not possible to find the name in the references, assume that the first name listed is the given name and the other names are the surnames.
- Multiple surnames: In other cases, with more than two names, assume that the last name that appears is the surname and the other names are the given names.
- Hungarian or Russian surnames: May have the surname first in the list of names.

Example:

```
"contactPerson": [{"honorific": "Dr.", "initials": "A", "givenName": "Albert",
"middleName": "van", "familyName": "Einstein", "emailAddress": "albet@foundation.com"}]
```

88. Contact details postal address

object **PostalAddress**

property addressCountry, addressRegion, addressLocality,
 addressPostalCode, streetAddress

Object **PostalAddress** contains the address of a person or business to which mail can be delivered or where an FB can be contacted. A description of all properties is given in *Table 21*.

Table 21 – Properties to capture for PostalAddress

Property	Description
addressCountry	Capture the 3-letter codes in lowercase from <i>Country Codes for OPSBANK (2 and 3 letters)</i> . Note: If an affiliation does not have a country, determine the correct country, and add the country code, when possible. To determine the country, check the information in the other organization(s), abstract, or affiliation elements for assistance. In addition, reference sources can be used, such as internet searches or university and organization listings, to determine the missing country. Only capture a verified correct country code.
addressRegion	The administrative region, state or area used, for states or provinces in the USA, Canada, and Australia, use letter codes in uppercase in <i>USA, Canada and Australia Province/State Abbreviations</i> .
addressLocality	The locality such as the settlement name, city, town, or county (a territorial division of some countries).
addressPostalCode	A series of letters, digits, or both that specifies a geographic location included in a postal address. Basic US postal or ZIP codes contain 5 digits. ZIP codes may also be given as the ZIP+4 code in which the basic 5-digit code is extended with 4 extra digits, separated from the basic code with a hyphen, capture as written in the source.
postOfficeBoxNumber	A uniquely addressable lockable box located on the premises of a post office station included in a postal address.
streetAddress	The location of a building, apartment, or other structure on a street, including the house number, if available.

For the property `streetAddress` capture the street name and number without abbreviations. See *Table 22* for more example information, unless the data capture is automated.

Table 22 - Capturing abbreviated street names

Abbreviated street name examples	Capture
Av., Ave.	Avenue
Blvd. Boul., Boulv.	Boulevard
Cres., Crscnt, Crsent	Crescent
Dr., Drv.	Drive
Ln.	Lane
Pl.	Place
St., Str., Strt	Street
Wy.	Way

Example:

```
"hasPostalAddress": {"addressCountry": "USA", "addressRegion": "VA", "addressLocality":
"Alexandria", "addressPostalCode": "22314", "streetAddress": "2415 Eisenhower Avenue"}
```

89. Amount with currency

object **AmountWithCurrency**

property amount, currency

Object **AmountWithCurrency** contains the properties `amount` and `currency`. The property `amount` is captured in positive integers only. If not indicated in the source, do not capture this object. The property `currency` contains a value indicating the award currency. If the currency type is not specified, use the currency for the country of the FB awarding the opportunity or award.

90. Master record source

object **MasterRecordSource**

property `captureEnd`, `captureStart`, `comment`,
 `frequency`, `name`, `status`, `url`

Object **MasterRecordSource** contains the properties related to the datasets attached to an FB record. A description of all properties is given in *Table 23*.

Table 23 - Properties of MasterRecordSource

Property	Description
<code>captureEnd</code>	Date when capture from this source ended
<code>captureStart</code>	Date when capture from this source started
<code>comment</code>	Free text field for capturing comments regarding starting or ending a specific source
<code>frequency</code>	Frequency of content delivery: "SIGNAL-BASED", "DAILY", "WEEKLY", "BI-WEEKLY", "MONTHLY", "BI-ANNUALLY", or "ANNUALLY"
<code>name</code>	name of the source, for example, "NIH website"

Property	Description
status	Status of the usage of the indicated source URL: "ACTIVE", "INACTIVE", or "DISCONTINUED"
url	Homepage URL of the source. Depending on the record, this is the funder homepage, opportunity announcement page, award announcement page, or publication page.

For property `status` there are three values for capture:

- "ACTIVE" – URL used by supplier for data capture.
- "INACTIVE" – URLs that have expired or no longer exist. These remain in the database for reference.
- "DISCONTINUED" – URL that was discarded for a business decision (such as an alternative source found or content became out of scope).

91. Classification

object	Classification
property	<code>type</code>
values	"Classification" or "Annotation"

Object **Classification** contains classification types and codes for an opportunity or award. Classifications refers to the vocabularies that are applied to opportunities or awards in order to classify or categorize these records on their type, research area, funding mechanism, or focus area.

Property `type` indicates the type of classifications captured. There are two main types:

- "Annotation": applicable to ASJC only. Annotations means that the supplier annotates an opportunity or award based on a provided vocabulary of categories, using judgement to decide which category applies.
- "Classification"; applicable to other classifications based on the categories published in the opportunity or award source.

91.1 Classification subject

object	Classification
property	<code>hasSubject</code>
sub-property	<code>identifier</code> , <code>preferredLabel</code> , <code>orgspecificClassification</code>

In sub-property `preferredLabel`, capture the term of the classification code. In the sub-property `identifier`, capture the corresponding value and the type of classification. For the `identifier` and `type` capture one of the following values:

- "ASJC" – All Science Journal Classifications
- "CFDA" – Catalog of Federal Domestic Assistance
- "FOR" – Fields of Research (used in Australia and New-Zealand)
- "NIHSTUDYSECTION" – A group responsible for the review of grant applications in an area of science (NIH only)
- "NIHACTIVITYCODE" – NIH code, applied to various funding mechanisms to identify a specific category of extramural research activity

Note: The NIH uses activity codes to designate general types of grants, cooperative agreements, and contract programs. Activity codes consist of three characters that are used to differentiate the wide variety of research-related programs and opportunities. These codes also give information about the funding type and eligibility criteria. A list of NIH codes is found here: [NIH activity code table](#).

- "SICCODE" – The Standard Industrial Classification (SIC) is a system for classifying industries, it is used by government agencies to classify industry areas.

For sub-property `orgSpecificClassification`, see chapter 91.3, *Organization specific codes* for more information.

Example:

```
"classification" : [
  {"type": "Annotation",
    "hasSubject": {
      "preferredLabel": "Multidisciplinary",
      "identifier": {"value": "1000", "type": "ASJC"}}}
  {"type": "Classification",
    "hasSubject": {
      "preferredLabel": "Mathematical and Physical Sciences",
      "identifier": {"value": "47.049", "type": "CFDA"}}}]
```

91.2 Classification codes

The All Science Journal Classification (ASJC) code is mandatory for every opportunity and award, while the other codes are not.

91.2.1 ASJC codes

ASJC codes describe the areas of interest and the scope of the opportunity or award. Supplier assigns a maximum of eight codes according to the rules described below. See *ASJC Codes List* for the complete list of ASJC codes.

91.2.1.1 Finding correct ASJC codes

1. Read the entire funding announcement.
2. Define the subject matter of the opportunity or award.
 - a. Terms and keywords found in the title and synopsis (or description) typically describe the subject area.
 - b. If you cannot easily find the subject area based on the announcement, refer to other areas of the FB information, such as:
 - i. FB name
 - ii. FB mission statement
 - iii. Eligibility statement
 - iv. For USA FBs – check the CFDA for the organization-specific classifications. Some classifications help identify ASJC areas.
3. Identify the most relevant sub-categories that apply to the opportunity or award. Consider columns found in the *ASJC Codes List* to aid identification; look for exact matches of terms and keywords. It is possible to find sub-categories in one subject area and a general category in another for a single opportunity or award.
4. Assign the most relevant ASJC codes that apply to the opportunity or award.
5. If more than eight codes apply, use the top-level category codes ending in "00" to group together the applicable disciplines to assign coding.
6. Capture the *general* ASJC code only if the opportunity specifically mentions *general* or *all (scientific) research is funded*.

Note: The general code (1000) cannot be combined with any other ASJC codes.
All other top-level ASJC codes (those ending with 00) cannot be combined with sub-category codes from the same section. For example, code 1200 cannot be used in combination with sub-category codes beginning with 12.

91.2.2 CFDA codes

CFDA codes are assigned to U.S. federal funding programs and opportunities and can be found in the program or opportunity announcement. CFDA codes describe the U.S. federal agency and the federal assistance program involved in the opportunity or award. A federal assistance program is identified by a 5-digit code consisting of two digits followed by

a dot and three digits. Some codes may include an additional letter, usually an A or B. More information about CFDA codes is available on <https://beta.sam.gov>.

91.3 Organization specific codes

Some funders assign their own codes to opportunities or awards. The ID is captured in the property `orgSpecificClassification` and the name of the code is captured in the property `preferredLabel`, as shown in the example:

Example:

```
{
  "type": "Classification",
  "hasSubject": {
    "preferredLabel": "Substance Abuse Prevention and Treatment Block Grant",
    "orgSpecificClassification": "B08"
  }
}
```

92. Date fields

Always capture date information as precisely as possible using the format YYYY-MM-DD. See *Table 24* for examples of correct date capture formats.

Some date properties contain the sub-property `description`, which is used to capture the text from the source that is used to determine the date or provide additional information regarding the date. Property `description` contains the object **StringWithLanguageAndSource**, see chapter 84, *String with language and source*, for more information.

Table 24 - Capture formats for date fields and descriptions

Date format on website	Capture format	Description (when applicable)
06/17/2024	2024-06-17	Not applicable -used date format
June 17, 2024	2024-06-17	Not applicable -used date format
Deadline: December 30, 2026	2026-12-30	Not applicable -used date format
January 2010	2010-01-01	January 2010
2008	2008-01-01	2008
Spring 2009	2009-03-01	Spring 2009
Summer 2009	2009-06-01	Summer 2009
Autumn 2009/Fall 2009	2009-09-01	Autumn 2009/Fall 2009
Winter 2026	2026-12-01	Winter 2009
Mid or Half October 2010	2010-10-15	Mid or Half October 2010
Beginning January 2011	2011-01-01	Beginning January 2011
End January 2017	2017-01-31	End January 2017
1 st or First Quarter	2017-01-01	1 st or First Quarter
2 nd or Second Quarter	2017-04-01	2 nd or Second Quarter
Week 13 (2025)	2025-03-29	Week 13

Date format on website	Capture format	Description (when applicable)
We would like to remind you that 22 November 2021 is the deadline for sending applications for the Grant Competition for JINR Young Scientists and Specialists 2022. Applications are received until 6.00 PM.	2021-11-22	We would like to remind you that 22 November 2021 is the deadline for sending applications for the Grant Competition for JINR Young Scientists and Specialists 2022. Applications are received until 6.00 PM.
The review of applications will begin on 01.10.2021 and will continue until the opportunities are filled.	2021-10-01	The review of applications will begin on 01.10.2021 and will continue until the opportunities are filled.

93. Special characters

Table 25 contains the characters that are not allowed in well-formed JSON and must be escaped (using a backslash):

Table 25 - Characters not allowed in JSON

Character	Code	Description	Escape	Notes
"	U+0022	quotation mark	\ "	
\	U+005C	reverse solidus	\\	
/	U+002F	solidus	\/	Slashes in URLs should not be escaped.
BS	U+0008	backspace	\b	
FF	U+000C	form feed	\f	
LF	U+000A	line feed	\n	
CR	U+000D	carriage return	\r	
tab	U+0009	tabulation	\t	

94. Text fields

There are multiple elements in the schema that require the supplier to capture text. Examples of such elements in the schemas are:

- **opportunity/eligibilityDescription**
- **opportunity/synopsis/item/description**
- **award/abstract**

These fields are displayed on the product for user information and must be captured in such a way that formatting can be well presented on the user interface. The underlying HTML code can be used to capture the text, but only a limited number of HTML elements are allowed.

94.1 Title redundancy

Do not capture titles or subtitles that are similar or convey the same idea as the element name.

For example, if the title or subtitle of a page section is called *Eligibility* and you are capturing content in **opportunity/eligibilityDescription**; do not capture the title or subtitle *Eligibility*. Only capture titles or subtitles that organize the text into logical parts.