

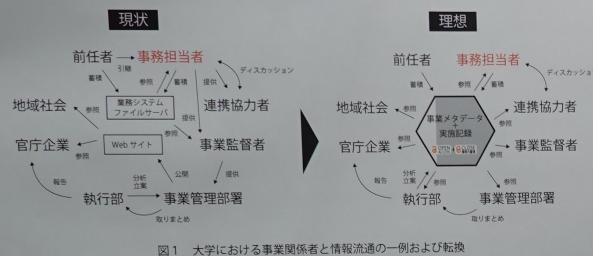
大学における研究強化事業を JPCOAR Schema で表現する： 学内情報の低コスト流通をめざして

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学術支援事業メタデータ

より高度化を推進することを目標に、事業をひとつの情報資源として考えメタデータ管理を行う業務フローを考案した(図1)。北海道大学の「中期目標・中期計画」⁽¹⁾から特に「研究に関する目標」と「中期計画に従って実施される事業」を総称して「研究強化事業」とし、研究力強化事業に付与するメタデータ「学術支援事業メタデータ」の設計を JPCOAR Schema⁽²⁾を基底に行った(表1)。「JPCOAR Schemaにおける項目」に「**」とある項は独自に定義したものである。



サンプルデータ

学術支援事業メタデータのサンプルとして、2012年度から2017年度の期間に北海道大学が実施した研究強化事業のメタデータ3,063件を作成した。情報源はWeb公開情報⁽³⁾からのデータマイニングと学内APIを作成した。実施記録は「事業実施記録」、関連情報は「関連情報」である。



既存のナレッジグラフとの連携可能性

IDを含むメタデータをもち、ナレッジグラフを形成するデータ群は既に多く存在する。例としてresearchmap等の研究者データベースや、DOIを付与された論文群および研究データ等の研究成果に対するエビデンスデータ群があり、それぞれのナレッジグラフはIDを利用したリンクに基づいて構造化されている。これらを順に第1, 2, 3レイヤとし、加えて、メタデータ管理は進んでいないが研究計画や研究データ管理計画等を「研究活動の記録」として第4レイヤとみなし、本研究における学術支援事業メタデータ群を含む「研究支援活動の記録」を第5レイヤに位置付けると、図3のように学術研究機関活動の全体像を構造化することに繋がる。この連携可能性を担保し整備することが、学術支援事業メタデータの利活用に重要と考えられる。

実務フローへの導入をめざして

実務フローへの導入には実用的なツールが求められるため、GakuNin RDM⁽⁴⁾—機関リポジトリ間の連携を活かし、北海道大学附属図書館においてGakuNin RDMのアドオン「ACMMI (Activity Metadata Management Interface : 活動情報メタデータ管理インターフェース)」の開発を検討している。研究データのようにWebインターフェースを通して収集およびメタデータ整備を可能とすることに加え、任意のデータセットとして機関リポジトリで公開できるワンストップな管理手法をめざす(図4)。

※国立情報学研究所が全国の学術機関に向けて提供する恒久的研究データ管理サービス(<https://rdm.nii.ac.jp/>)。

表1 学術支援事業メタデータ項目一覧

項目区分	項目名(日)	JPCOAR Schemaにおける項目	入力形式	備考
1.General	ID タイトル その他のタイトル 主題 目的 対象 登録記述 言語 手段 時間的範囲 位置情報 絶度 精度 権限 著作権 権利者識別子 作成者 作成者所属 所蔵機関識別子 助成機関識別子 研究課題番号 研究題名 投げ出コスト 関連情報 6. Result and Output 本文URL 日付 関連情報 7.Citations	1.1 -pocar-identifier 1. -dc:title 2. -dc:titleAlternative 9. -pocar-subject ** 10. -dc:contribution 13. -dc:language 14. -dc:type 20. -dc:temporal 21. -dc:geoLocation 21.1.1 -dc:spatial_point, -dc:spatial_accuracy 21.1.2 -dc:spatial_point, -dc:attitude 5. -dc:rights 8. -dc:rightsHolder 8.1. -pocar-rightIdentifier 3. -pocar-creator 3.1. -pocar-creatorIdentifier 3.6. -pocar-affiliation 22. -dc:provider 22.1 -dc:funderIdentifier 22.3 -dc:awardIdentifier 22.4 -dc:awardTitle 投げ出コスト 19. -pocar-relation 19.1 -pocar-relationIdentifier 19.2 -pocar-relationType 19.3 -pocar-relationTitle 19.4 -pocar-relationValue 19.5 -pocar-relationIdentifier 19.6 -pocar-relationType 19.7 -pocar-relationTitle 19.8 -pocar-relationValue 19.9 -pocar-relationIdentifier 19.10 -pocar-relationType 19.11 -pocar-relationTitle 19.12 -pocar-relationValue 19.13 -pocar-relationIdentifier 19.14 -pocar-relationType 19.15 -pocar-relationTitle 19.16 -pocar-relationValue 19.17 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