

The Role of Research Management in *Open Science*



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Open Science advocacy influences research in three interdependent areas: research policies and practices, the role of society in research, and the management of research output. To fully embrace and adopt *Open Science* principles, research institutions need dedicated professionals at the interface of research and society to empower the actors involved. In this poster we present the "Documentalists Working Group" in Catalonia as a use case of a bottom-up community of practice helping their centres to successfully ride the wave of *Open Science*. The "Documentalists Working Group" brings together professionals from ten Catalan research centres (BSC, CRG, IBEC, ICFO, ICIQ, ICN2, IDIBABS, IFAE, IRB Barcelona, IRTA) and is a community of practice on management of research output. The objective of this group is to define synergies in workflows in scientific publication and research data management, to tackle challenges through peer-to-peer learning, and consult experts jointly. We will also explore how *Open Science* devises new career paths for researchers and research related professionals following the demand for *Open Science* facilitators that (i) engage and train researchers to participate in *Open Science* practices, (ii) provide opportunities to collaborate with the society, (iii) support the development and implementation of new evaluation schemes, and (iv) provide access to needed infrastructure.

THE MANAGERS
FOSTER INNOVATIVE TRANSPARENT AND OPEN COLLABORATION, FOSTER TRANS DISCIPLINARY AND GLOBAL COLLABORATION, ADVISE ON DATA MANAGEMENT PLANS AND INTEGRATION OF SEX AND GENDER DIMENSION, COLLABORATE WITH INDUSTRY AND DEVELOP OPEN INNOVATION BUSINESS MODELS, DEVELOP NEW FUNDING SCHEMES, INFLUENCE NATIONAL AND INTERNATIONAL POLICY, ENSURE ETHICAL SCIENTIFIC PRACTICES...

THE ARCHITECTS
DESIGN AND MANAGE DIGITAL INFRASTRUCTURE, TECHNICAL SUPPORT FOR USERS, ENSURE INSTITUTIONAL COMPLIANCE WITH THE LEGAL STANDARDS AND FRAMEWORKS FOR: BUILDING INFRASTRUCTURE, ACCESSING, MANAGING AND SHARING RESEARCH OUTPUT WITHIN AN OPEN SCIENCE SYSTEM...

THE CURATORS
ASSIGN DIGITAL IDENTIFIERS AND METADATA, MANAGE AND TRACK ALL SCIENTIFIC OUTPUT FOR MAXIMUM TRANSPARENCY (E.G. PUBLICATIONS, DATA, SOFTWARE), ADVISE ON LICENSING, IMPLEMENT POLICIES FOR OPEN KNOWLEDGE, ASSIST KNOWLEDGE DISCOVERY ...

THE COMMUNICATORS
MANAGE CITIZEN SCIENCE PROJECTS, DESIGN AND IMPLEMENT PUBLIC ENGAGEMENT STRATEGIES, DEVELOP INNOVATIVE AND OPEN EDUCATION MATERIALS AND ACTIVITIES, DISSEMINATE SCIENCE IN SOCIAL MEDIA, SUPPORT SCIENTISTS IN DEVELOPING THEIR OWN OPEN COMMUNICATION PRACTICES, ENDORSE OPEN SCIENCE, COMMUNICATE ACROSS DIVERSE DISCIPLINES AND SECTORS...

THE EVALUATORS
DESIGN A HOLISTIC RESEARCH EVALUATION FRAMEWORK, INNOVATE INDICATORS, DRIVE A CULTURAL CHANGE, ALIGN EVALUATION METRICS WITH RESEARCH STRATEGIES AND MISSIONS, DELIVER EXPERT RECOMMENDATIONS TO FUNDERS AND POLICY MAKERS...



DOCUMENTALISTS Working Group in BCN

MISSION	TASKS
To be a community of practice of professionals with Documentalist's responsibilities at research centres in and around Barcelona.	
<ul style="list-style-type: none"> 5 Documentalists 1 Head of Projects Office 2 Project Manager 4 Communications Officer 1 Communication & Public Relations Manager 	<ul style="list-style-type: none"> 1 Head of Projects Office 1 Head of Marketing 1 Research Development Officer
15	Open Access to Publications
COLLABORATORS	Training OA, Licensing
Associated Univ. libraries	
UB CRAI	CSUC
CHALLENGES	Increase awareness in research community
3.100 Publications per anno	2.600 Researcher
Research Data Management (RDM) Policies from Funders	

RDM Policy workshop in BCN

Organised by Documentalists Working Group and instructed by Paolo Budroni, Univ. Vienna

MISSION	FOLLOW-UP
Collaborative development of a workable Research Data Management Policy for practical research support.	
<ul style="list-style-type: none"> 11 Documentalists 5 Project Manager 4 Managing Director 2 Research Develop. Officer 2 Communication Specialist 1 Software Engineer 	<ul style="list-style-type: none"> 5 Researcher 3 Lawyer 38 4 IT specialists 3 Systems and Data Infrastructure specialists 2 Bioinformatics Production 1 Data Manager
	Cross sectional expert and multi-institutional working Group meetings
	Cross sectional expert board meetings at each participating institute
	Goal: 7 RDM Policies for 7 Research Centres

LEGEND:

- ELEMENTS OF RESEARCH LIFE CYCLE (Blue arrow)
- KEY OPEN SCIENCE PRACTICES (Blue circle)
- (multi color) OPEN SCIENCE FACILITATORS (Multi-colored box)
- Case study of an Open Science community of practice (Black box)

References
 • FosterOpenScience, Open Research Lifecycle modified version of "Open Science by Default" Workflow doi: 10.5281/zenodo.49960
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 • OpenUp Project D 4.2 [2018] Role description: Dissemination to businesses and the public,
 • Mary Auckland, RLUK, [2012] Re-skilling for Research, An investigation into the role and skills of subject and liaison librarians required to effectively support the evolving information needs of researchers

