RDA 8th Plenary Joint meeting: IG ELIXIR Bridging Force and WG BioSharing Registry

Agenda

• Welcome - Susanna Sansone (ELIXIR-UK) and Rob Hooft (ELIXIR-NL)
• FAIR principles and their adoption in ELIXIR - Susanna (15min)
• FAIR adoption in NIH BD2K - Ian Fore, NIH NCI (15min)
• FAIRifying the common reference data resources using linked data technology (in BYOD workshops) - Rob (15min)
• Using community-defined metadata standards in the FAIR principles: how BioSharing helps - Peter McQuilton (15min)
• Open Q/A
A diverse set of stakeholders - representing academia, industry, funding agencies, and scholarly publishers - have come together to design and jointly endorse a concise and measureable set of principles, for those wishing to enhance the reusability of their data holdings.

Including, but not limited to:

European Open Science Cloud – High Level Expert Group

NIH Big Data to Knowledge (BD2K)
These put emphasis on enhancing the ability of *machines* to automatically find and use the data, in addition to supporting its reuse by *individual* NOTE: The Principles are high-level; do not suggest any specific technology, standard, or implementation-solution

**Box 2 | The FAIR Guiding Principles**

**To be Findable:**
F1. (meta)data are assigned a globally unique and persistent identifier
F2. data are described with rich metadata (defined by R1 below)
F3. metadata clearly and explicitly include the identifier of the data it describes
F4. (meta)data are registered or indexed in a searchable resource

**To be Accessible:**
A1. (meta)data are retrievable by their identifier using a standardized communications protocol
A1.1 the protocol is open, free, and universally implementable
A1.2 the protocol allows for an authentication and authorization procedure, where necessary
A2. metadata are accessible, even when the data are no longer available

**To be Interoperable:**
I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
I2. (meta)data use vocabularies that follow FAIR principles
I3. (meta)data include qualified references to other (meta)data

**To be Reusable:**
R1. meta(data) are richly described with a plurality of accurate and relevant attributes
R1.1. (meta)data are released with a clear and accessible data usage license
R1.2. (meta)data are associated with detailed provenance
R1.3. (meta)data meet domain-relevant community standards
Exemplar implementations, their (level of) FAIRness and resulting value-added