

# DRAFT Thoughts about Success Factors for Federation 2.0

(7/10/2019 - David Walker)

The following table lists success factors from a researcher's point of view, how those factors translate into version 2.0 federations, and some preliminary thoughts about implications for federations. The focus is on aspects of research that potentially could be enhanced by federation activities.

Success Factor for Research	Success Factors for Federation 2.0	Implications
Potential collaborators are readily discoverable	Search tools are available to search people, papers, articles, <i>etc.</i> for potential collaborators.	Information from academic and professional societies, ORCID, DOI System, grant agencies, <i>etc.</i> is federated to enable these search tools.
Launching and managing a (funded) project involves minimal effort, other than the research itself	Infrastructure is available to facilitate management of virtual organizations for: <ul style="list-style-type: none"> <li>• Membership</li> <li>• General-purpose tools for authoring, data management, <i>etc.</i></li> <li>• Discipline-specific tools and resources, both internal and external</li> </ul>	The infrastructure requires effort for development, operation, and governance. Interoperability and openness within the infrastructure (and, likely, multiple such infrastructures) will be very important.
Research products, raw data, <i>etc.</i> remain available (and usable) into the future	Repositories are readily available for preserving research materials that ensure materials remain open and usable "forever."	Policies and business models are required for each repository. Also: <ul style="list-style-type: none"> <li>• The community needs mechanisms to recover from failed repositories (<i>e.g.</i>, like the DOI System).</li> <li>• Tools in the VO infrastructure should produce products that</li> </ul>

		are amenable to preservation.
There are well-known elements that should be included in successful grant proposals.	Granting agencies promote use of federation services by funded projects.	Granting agencies are important partners in the development of Federation 2.0.