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# **Developing a Personalized Institutional Repository Framework to Address Local Priorities and Goals**

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# Project overview

- The Mines Institutional Repository (IR) Steering Committee adapted official repository certification criteria and existing IR frameworks to develop a personalized framework for Mines
- The Framework for the IR at Mines (FIRM) is a tool to help with:
  - self-assessment
  - strategic decision making
  - characterization of ongoing needs



# Purpose

- The institutional repository currently does not currently meet all of Mines' research community's needs
- The IR Steering Committee found it necessary to collectively outline the fundamental components of a successful IR for Mines

**The purpose of this exercise was to characterize IR needs and to develop a framework that can be used for self-evaluations and strategic decision making.**



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# Literature on IR success factors

- Literature emphasizes content recruitment and user participation
- Lagzian, Abrizah, and Wee (2015b) stress self-archiving practices as one of the most important “critical success factors”
- Case studies emphasize the importance of assessing the research community’s needs in order to best align IR policies, procedures, and strategies (Cassella, 2010)

There are also digital repositories certificates, such as:

- The Trusted Repositories Audit and Certification: Criteria and Checklist (TRAC)
- The CoreTrustSeal



# Method

1. IR Steering Committee formed a working group to lead the development of the FIRM
2. The working group collaboratively worked to develop the FIRM by reviewing:
  - The Audit and Certification of Trustworthy Digital Repositories
  - The 16 requirements for the CoreTrustSeal
  - Existing literature on IR development and success factors
  - A selection of Mines' pertinent funding agencies' sharing mandates

# Findings

**core components** - what is necessary to have for a proper, manageable, functioning digital repository

## **The *core components*:**

- Mission statement which reflects commitment to preservation and access
- Collection policy
- Continuity plans
- Strategic preservation plan
- Operating workflow
- Digital infrastructure
- Rich metadata
- Security protection and backup up processes

**aspirational features** - what will enable the IR to be a unique and advantageous resource for the Mines community

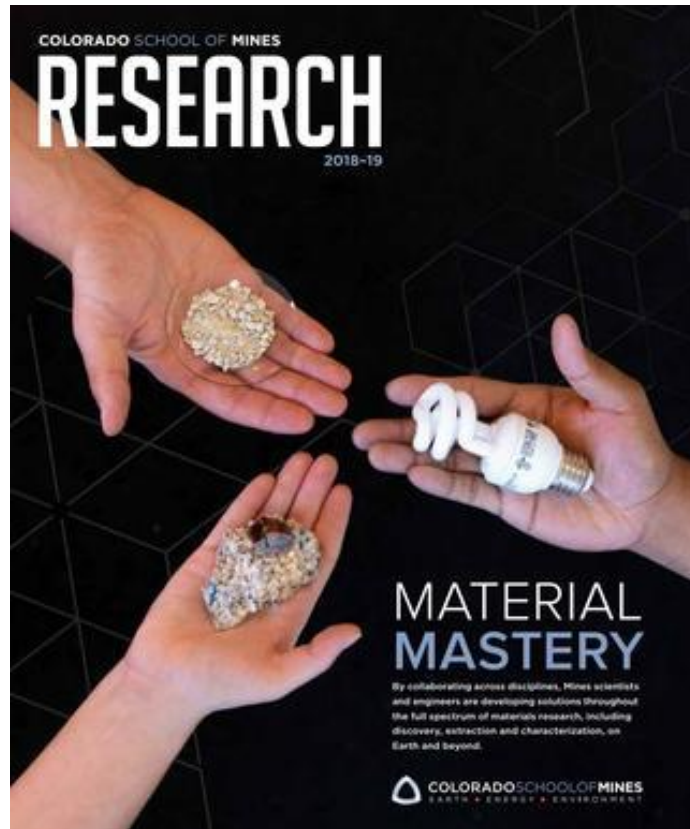
## **The *aspirational features*:**

- Self-submission capabilities (self-archiving)
- Features to enhance scholarly footprint
- Processes that promote best practices in sharing research data
- Discovery and identification features
- Restricted access controls
- Outreach and marketing support

# Lessons learned

- The working group members' different lenses provided differences in perspective of the framework
- It was challenging to place items in the two categories
- Most of the requirements from the CoreTrustSeal and the Audit and Certification of Trustworthy Digital Repositories are included in the FIRM in adapted or identical forms
- Community feedback is needed to build a successful FIRM





# Next steps

- Take a comprehensive look at more funder mandates to share research output
- Review best practices for sharing research among the community's disciplines
- Obtain user feedback from the IR's audience and clients through surveys and focus groups



Questions or comments?

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# References

- Cassella, M. (2010). Institutional repositories: an internal and external perspective on the value of IRs for researchers' communities. *Liber Quarterly*, 20(2), 210–225.
- Center for Research Libraries. (n.d.). TRAC Metrics. Retrieved April 29, 2019, from <https://www.crl.edu/archiving-preservation/digital-archives/metrics-assessing-and-certifying/trac>
- The Consultative Committee for Space Data Systems. (2011). *Audit and Certification of Trustworthy Digital Repositories*. 77.
- CoreTrustSeal. (2017a, June 27). About. Retrieved April 29, 2019, from CoreTrustSeal website: <https://www.coretrustseal.org/about/>
- CoreTrustSeal. (2017b, June 28). Core Certified Repositories. Retrieved April 29, 2019, from CoreTrustSeal website: <https://www.coretrustseal.org/why-certification/certified-repositories/>
- Duraspace. (n.d.). About DSpace - DSpace. Retrieved April 29, 2019, from Duraspace.org website: <https://duraspace.org/dspace/about/>
- Gibbons, S. (2004). Defining an institutional repository. *Library Technology Reports*, 40(4), 6–10.
- Jean, B. S., Rieh, S. Y., Yakel, E., & Markey, K. (2011). Unheard voices: institutional repository end-users. *College & Research Libraries*, 72(1), 21–42.
- Johnson, R. (2002). Institutional Repositories: Partnering with Faculty to Enhance Scholarly Communication. *D-Lib Magazine*, 8(11).
- Lagzian, F., Abrizah, A., & Wee, M. C. (2015a). Critical success factors for institutional repositories implementation. *The Electronic Library*, 33(2), 196–209.
- Lagzian, F., Abrizah, A., & Wee, M.-C. (2015b). Measuring the gap between perceived importance and actual performance of institutional repositories. *Library & Information Science Research*, 37(2), 147–155.
- Lynch, C. A. (2003). Institutional repositories: essential infrastructure for scholarship in the digital age. *Portal: Libraries and the Academy*, 3(2), 327–336.
- National Science Foundation. (2018). *CNH2: Dynamics of Integrated Socio-Environmental Systems (CNH2)*. National Science Foundation.
- Swan, Alma (2008). The business of digital repositories. In, Weenink, Kasja, Waaijers, Leoand van Godtsenhoven, Karen (eds.) *A DRIVER's Guide to European Repositories (Amsterdam, 2007)*. Amsterdam University Press.
- Thibodeau, K. (2007). If you build it, will it fly? Criteria for success in a digital repository. *Journal of Digital Information*, 8(2).
- Westell, M. (2006). Institutional repositories: proposed indicators of success. *Library Hi Tech*, 24(2), 211–226.