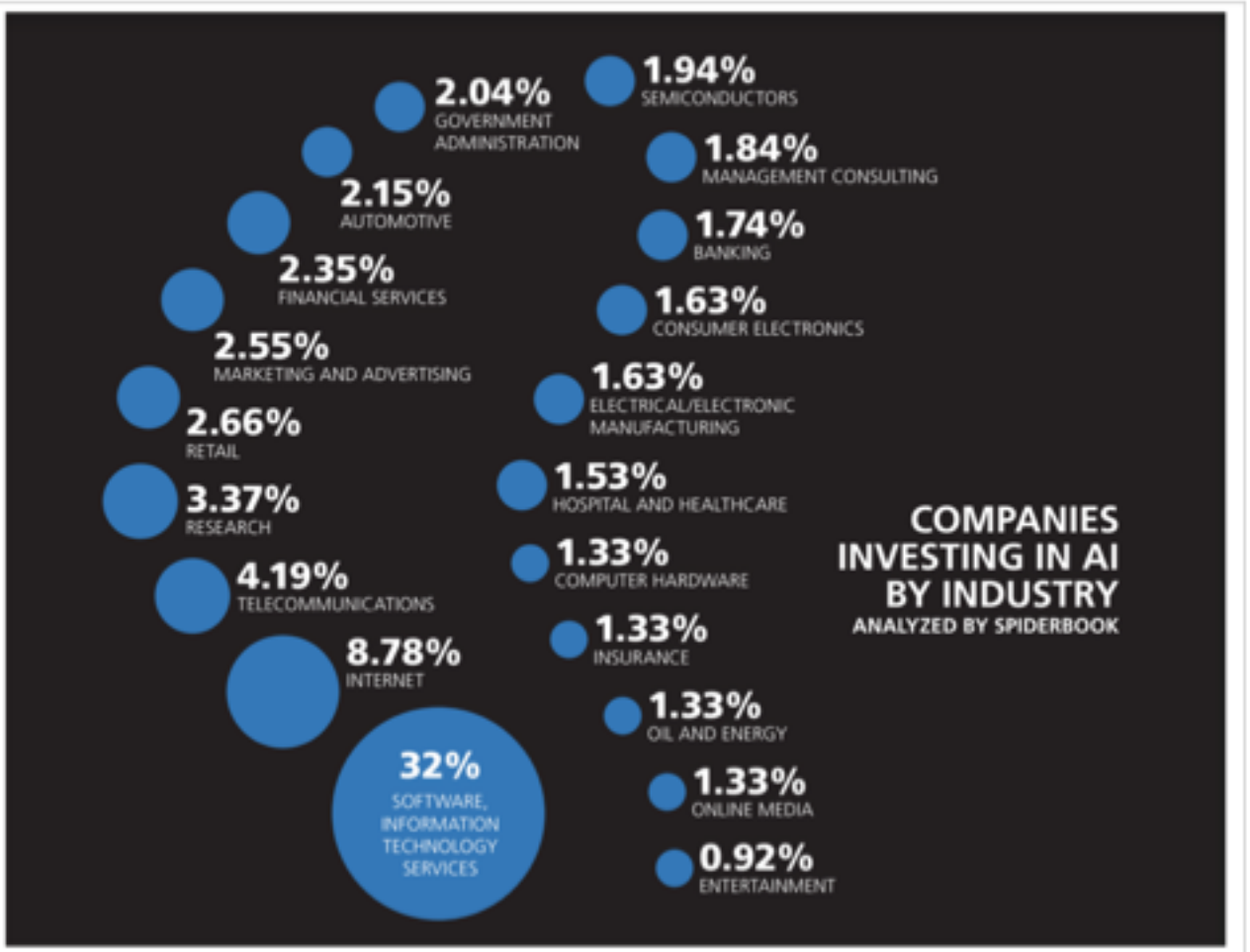
Scaling artificial intelligence in libraries via a national project registry

CNI – Fall 2018. Carl Grant, Dean (Interim) & Twila Camp, Senior Director of Digital Innovation and Development

Agenda

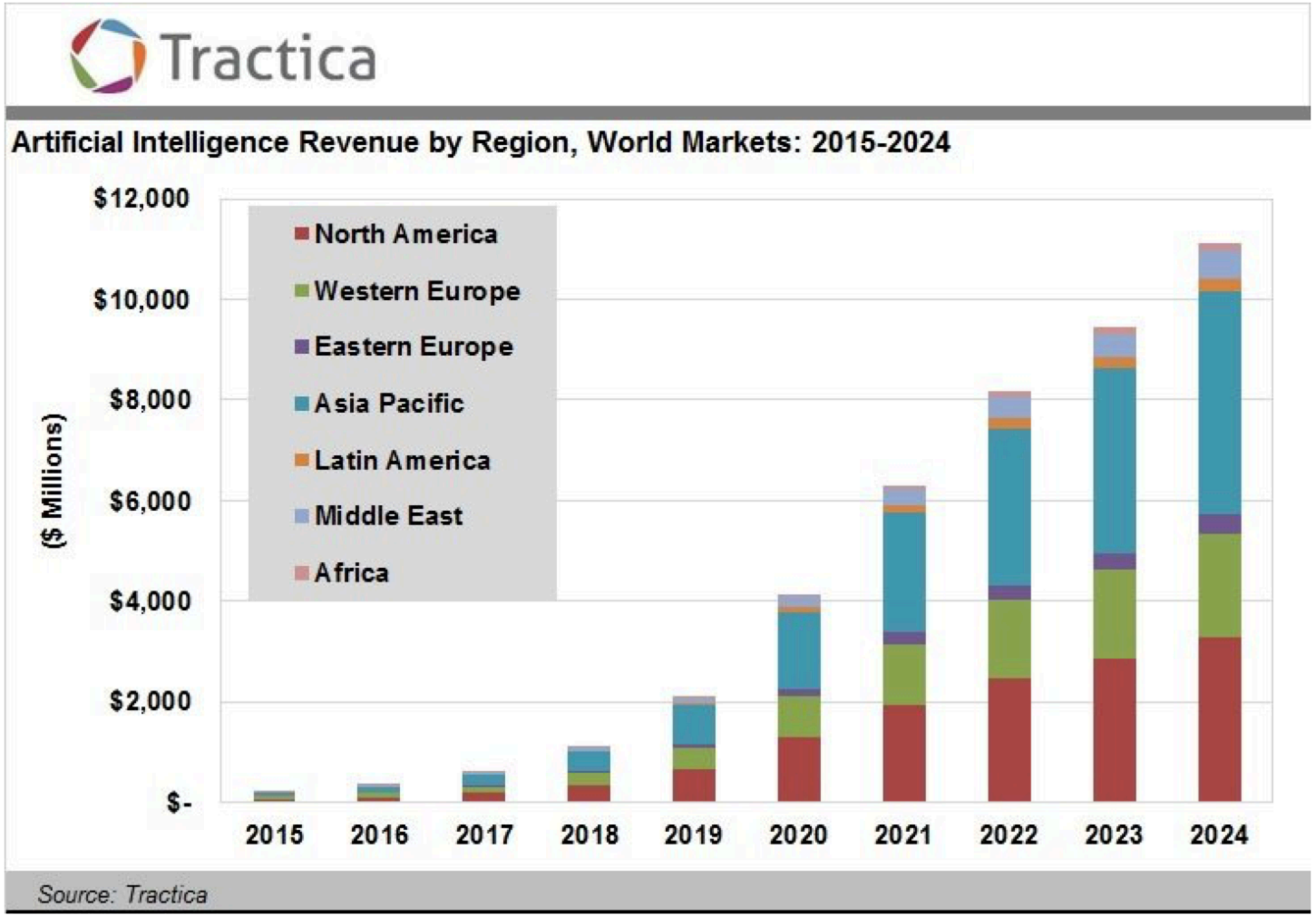
- AI in General
- AI @ OU
- AI @ OU Libraries
- Lessons Learned
- P.A.I.R. (Projects in Artificial Intelligence Registry) Demo

AI in General



https://emerj.com/ai-sector-overviews/valuing-the-artificial-intelligence-market-graphs-and-predictions/

AI in General



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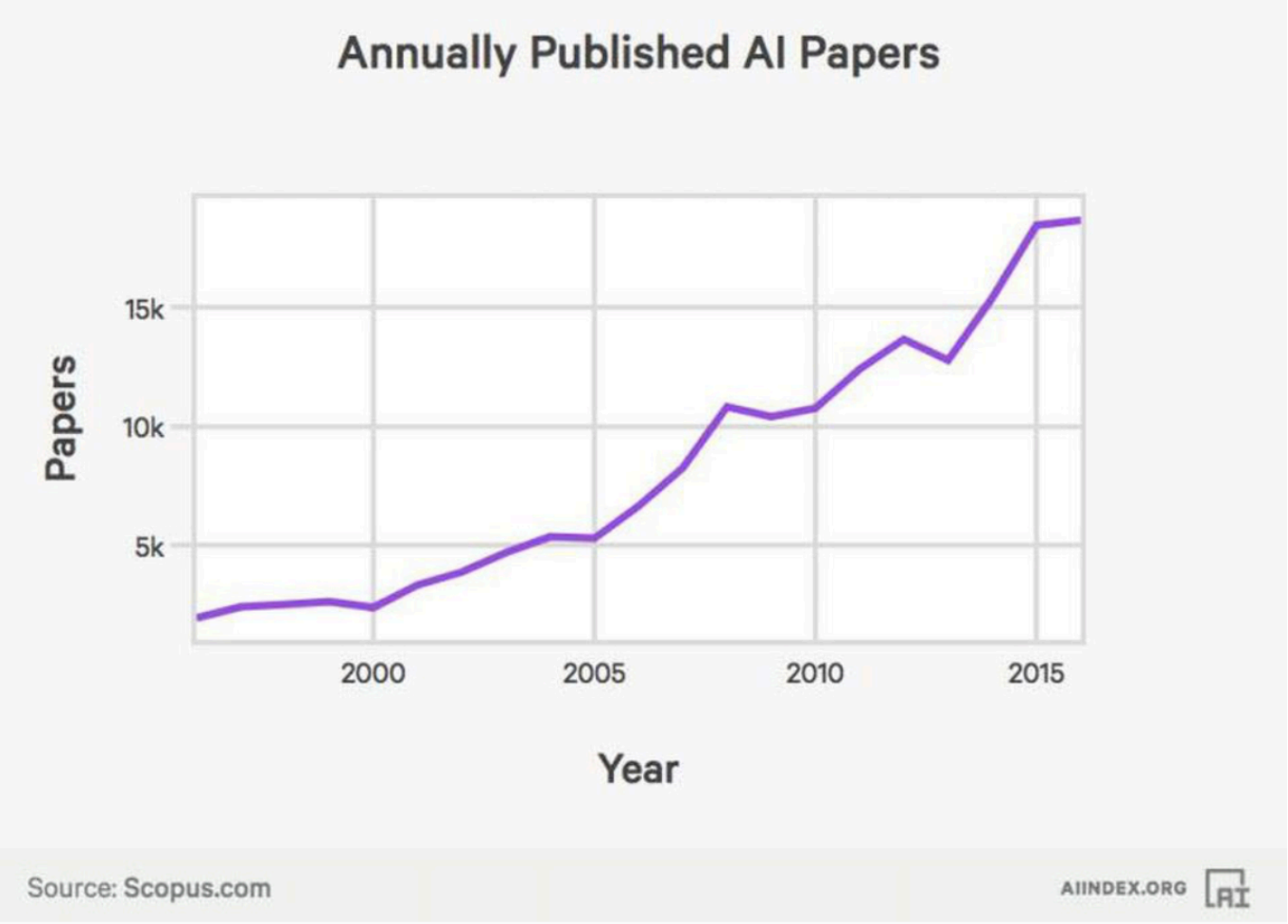
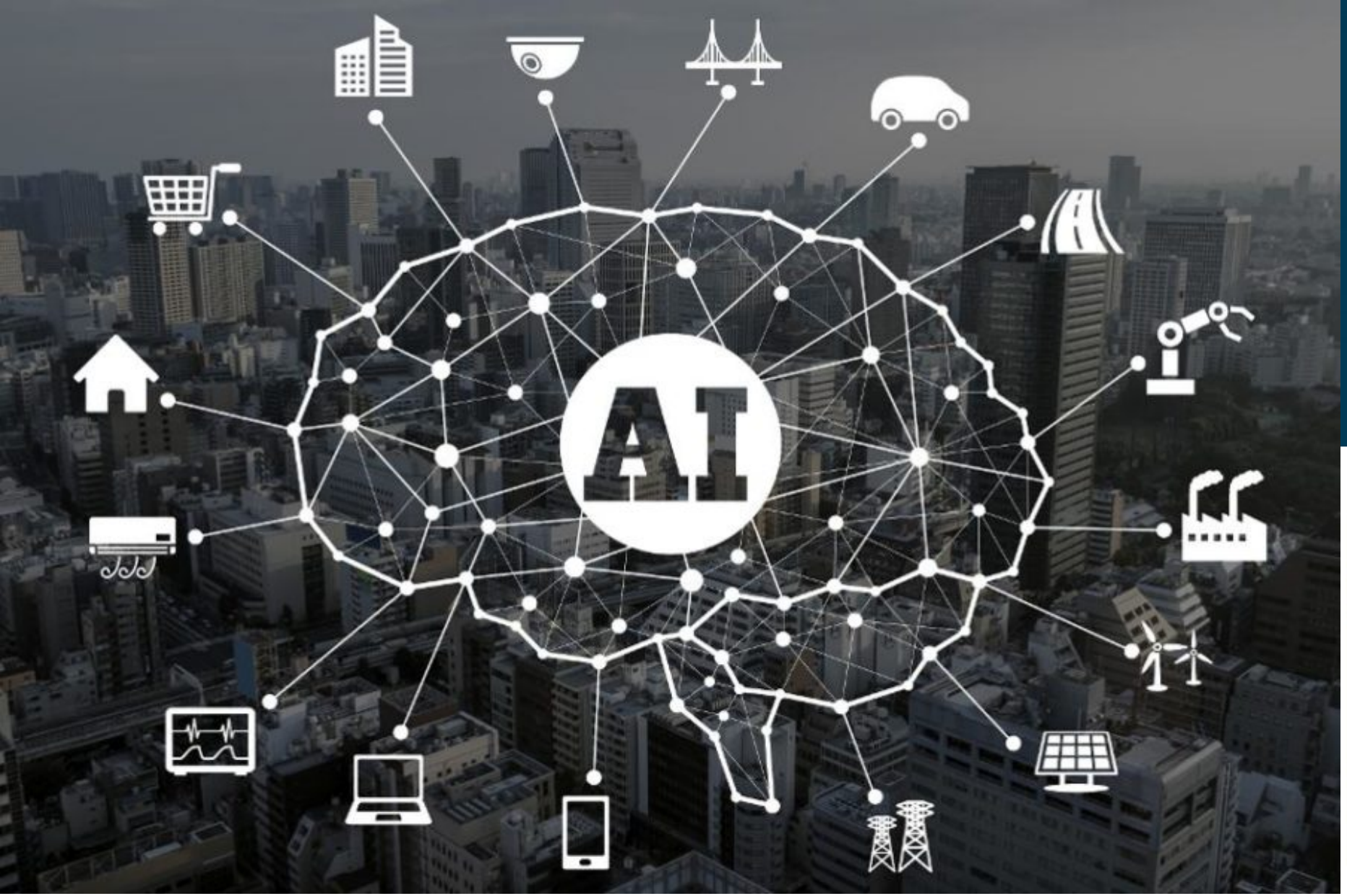
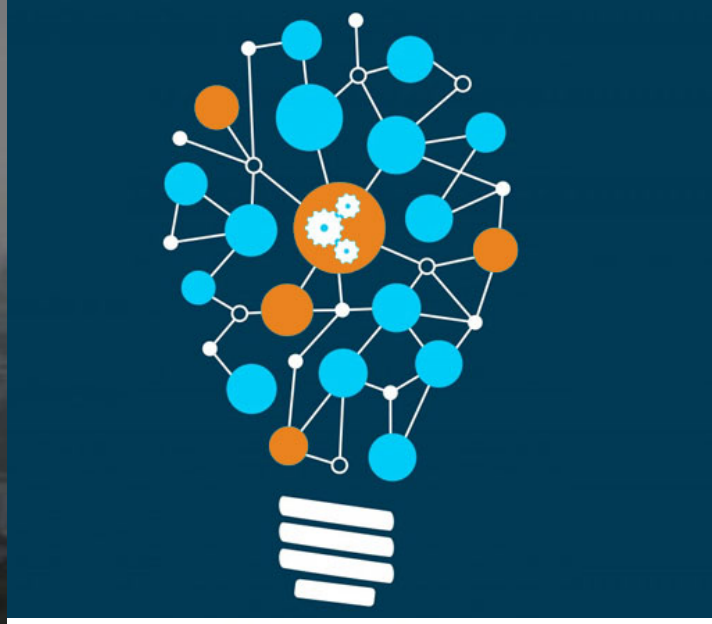
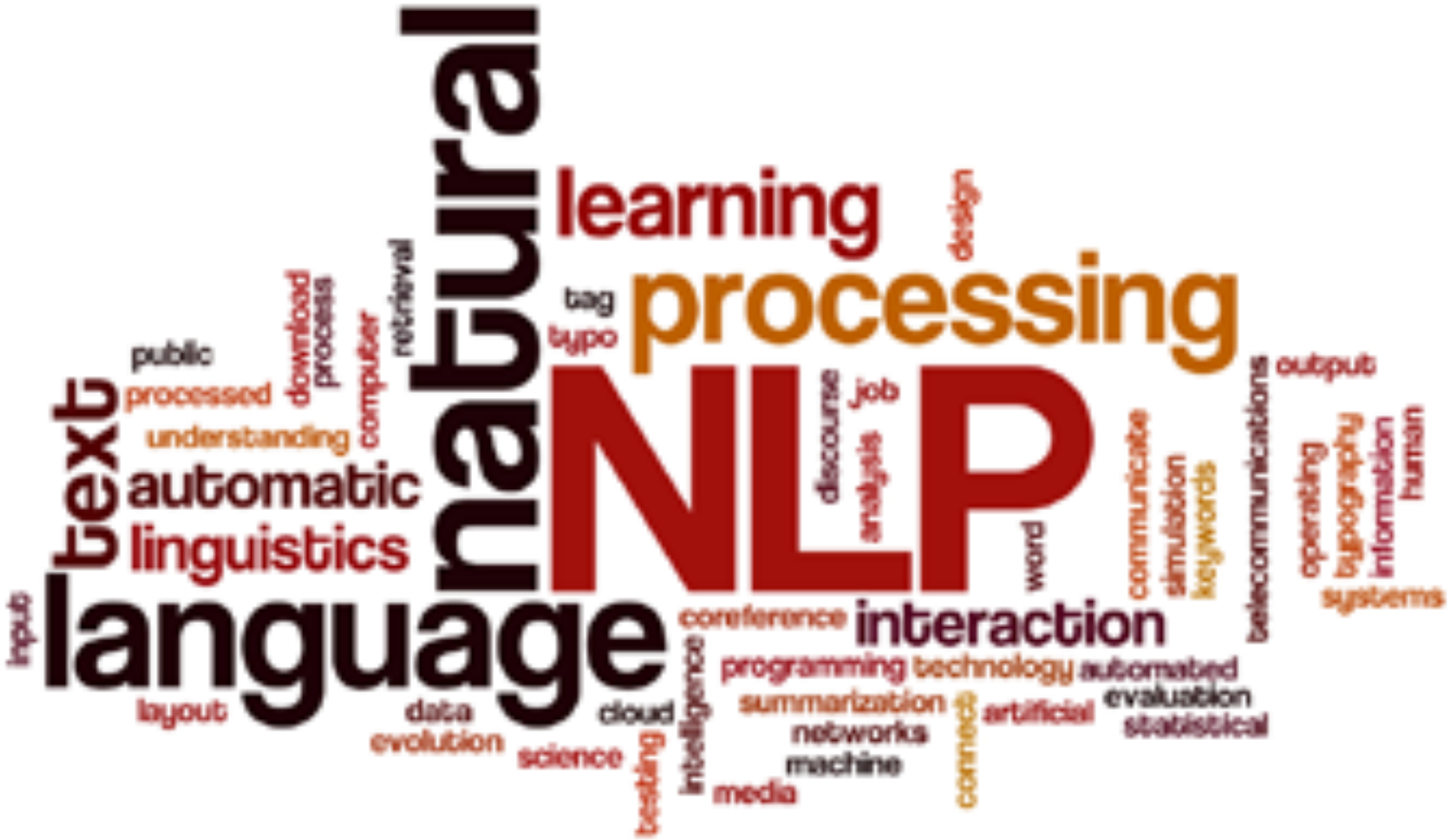
AI in General



2017 AI INDEX REPORT, HTTP://AIINDEX.ORG/


AI

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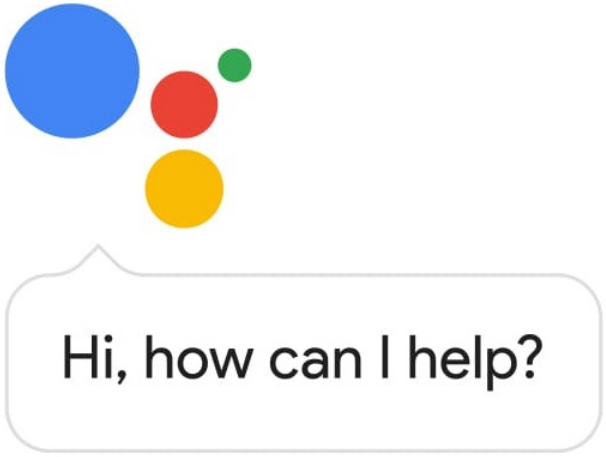
AI in General



AI in General

AI in General

The New York Times

M.I.T. Plans College for Artificial Intelligence, Backed by $1 Billion

The Massachusetts Institute of Technology is taking a particularly ambitious step in preparing students to develop, and consider the implications of, artificial intelligence. It is creating a new college, backed by a planned investment of $1 billion. Cody O'Loughlin for The New York Times

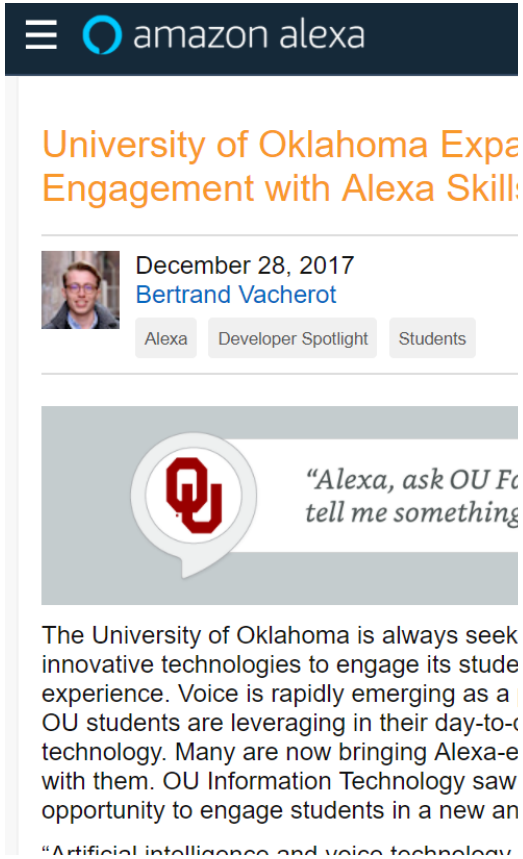
By Steve Lohr

Oct. 15, 2018

AI @ OU

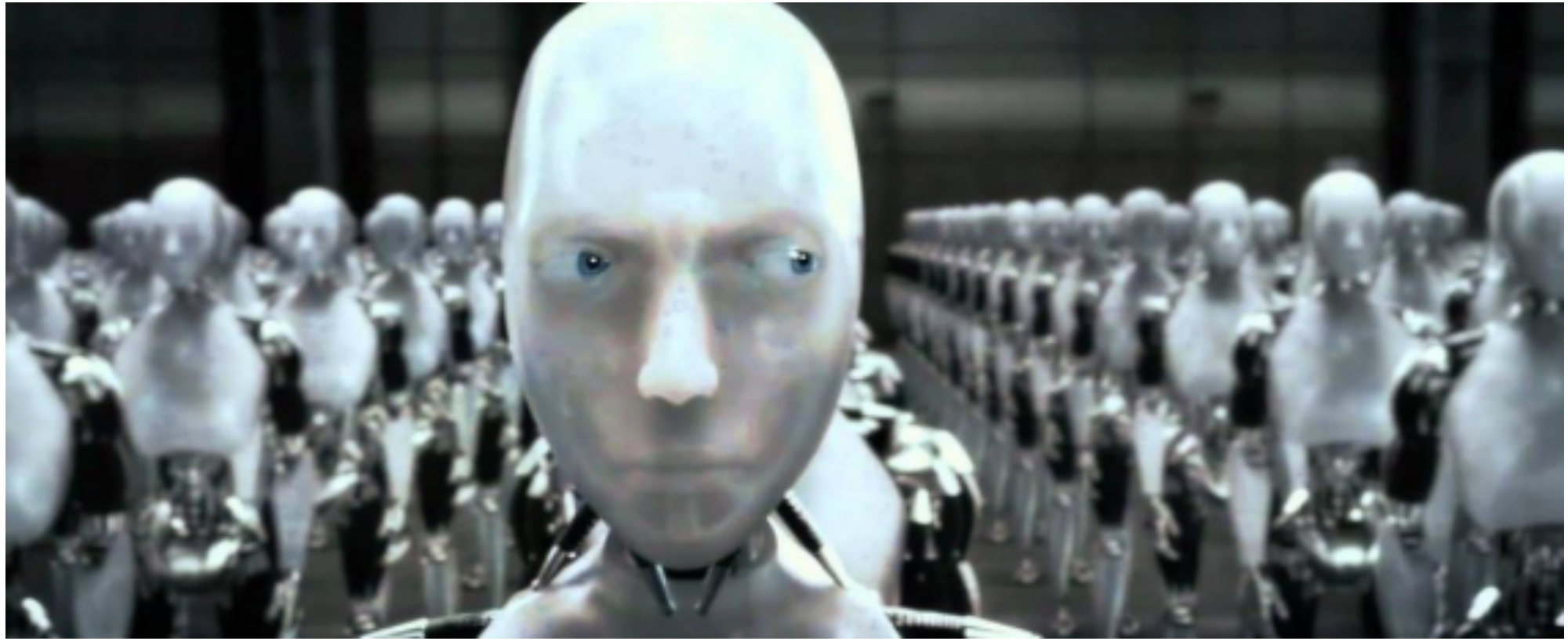
- AI & machine learning activities at University of Oklahoma
  - Alexa Dots in new dorm rooms (machine learning)
  - Ivy.ai across the campus (machine learning)
    - Chatbots
      - Campus IT
      - Admissions
      - Bursar (planned)
      - OU Libraries
- OU Libraries – Exaptive
- OU Libraries (partnering) in creation of a Digital Skills Hub

AI @ OU Libraries



"To drive student engagement with these skills, OU provided nearly 600 Echo Dot devices to residential students."

AI @ OU Libraries



https://religion.ua.edu/blog/tag/artificial-intelligence/

AI @ OU Libraries

"How best do we bring the skills and knowledge of library staff, scholars, and students together to design an intelligent information system that respects the sources, engages critical inquiry, fosters imagination, and supports *human* learning and knowledge creation?"

Catherine Nicole Coleman, Digital Research Architect, Stanford University
http://library.stanford.edu/blogs/digital-library-blog/2017/11/artificial-intelligence-and-library-future-revisited

AI @ OU Libraries – Student Feedback

Positive and encouraging, and asked for additional features:

- Reserve a study room
- Check out a book
- Login through the system
- Check on the hours
- Email results search
- Drill down into results (using number selection)
- Be referred to a librarian and library services when questions are unanswered

AI @ OU Libraries – Professional Feedback

Follow

I am embarrassed for UOklahoma librarians.

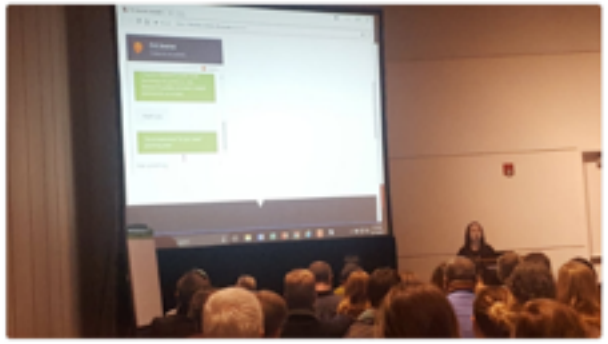
I am embarrassed for all of us.

This. Is. Not. Okay.

Tawnie Mizer, MLIS

Follow

Introducing Oklahoma University's library chatbot a Alexa like AI that integrates with the libraries ILS and searches things like the libraries libguides and the libraries websites for answers to students questions #alamw18 #AI

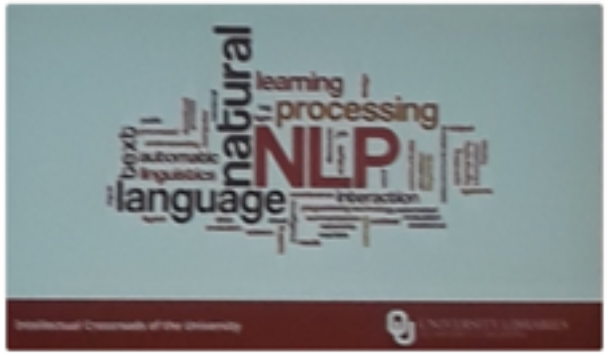


2:23 PM - 11 Feb 2018

Wendy T. Jasper

Follow

Once...in grad school... I wrote a paper on A.I. Interested in hearing what University of Oklahoma is working on regarding A.I. in libraries. "Alexa, What Does Library AI Look Like in the Future?" #alamw18 #chatbots #naturallanguageprocessor



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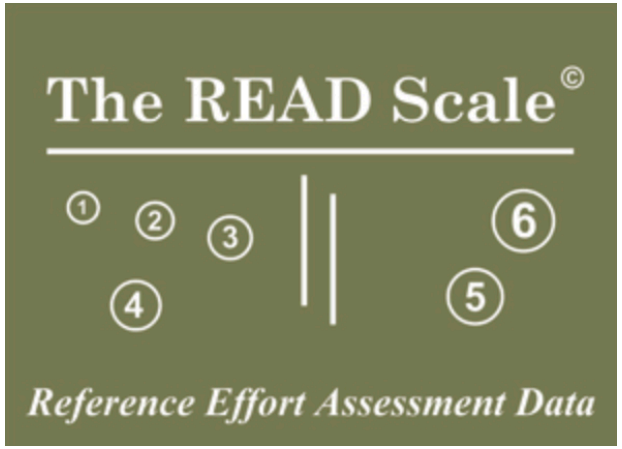
AI @ OU Libraries



“The READ Scale (Reference Effort Assessment Data) is a six-point scale tool to record the effort, skills, knowledge, teaching moment, techniques and tools utilized by the librarian during a reference transaction.”

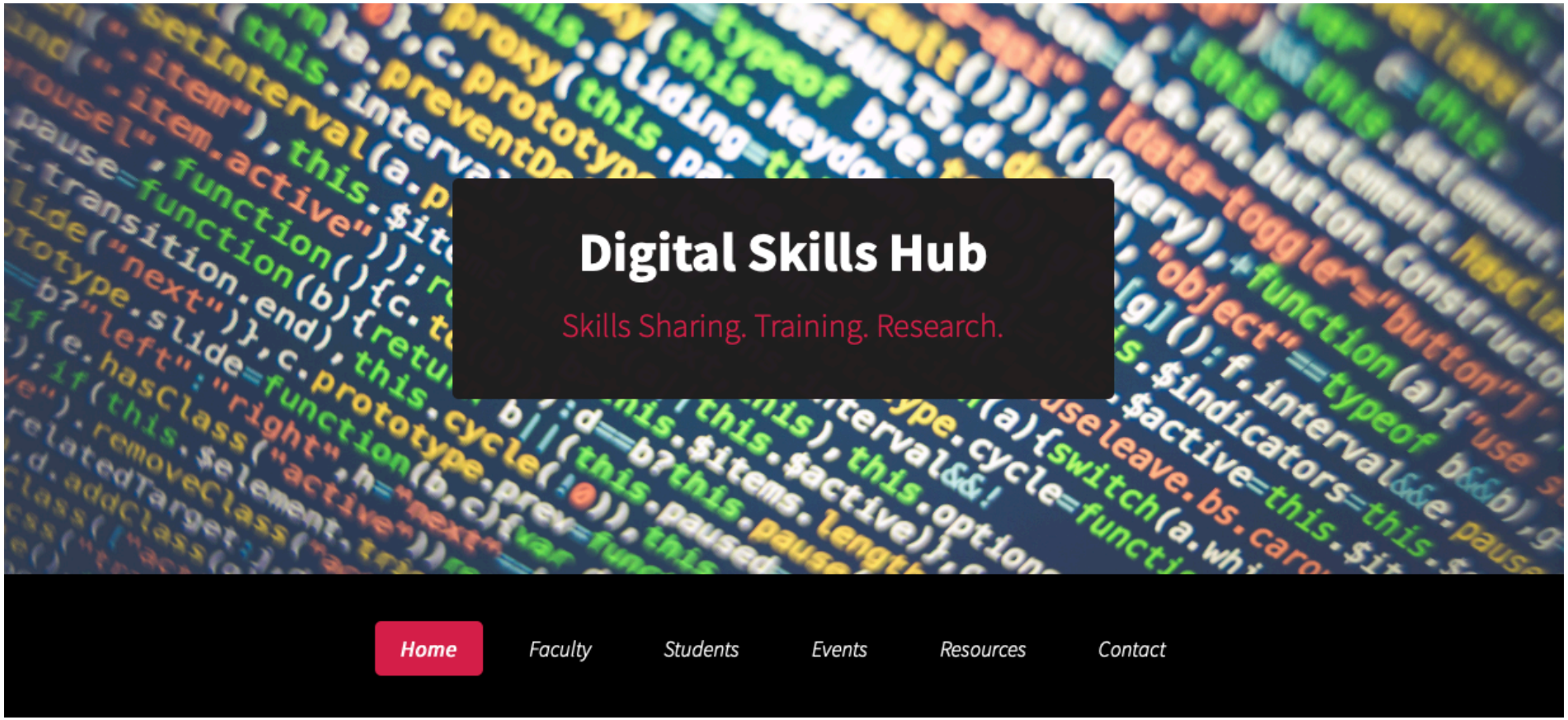
http://readscale.org/read-scale.html

AI @ OU Libraries

"..No cause for concern that AI is an imminent threat to humankind. No machines with self-sustaining long-term goals and intent have been developed, nor are they likely to be developed in the near future."

"One Hundred Year Study on Artificial Intelligence," Stanford University, https://ai100.stanford.edu

AI @ OU Libraries



AI @ OU Libraries

https://openai.com/

Artificial general intelligence (AGI) will be the most significant technology ever created by humans.

About OpenAI

OpenAI is a non-profit AI research company, discovering and enacting the path to safe artificial general intelligence.

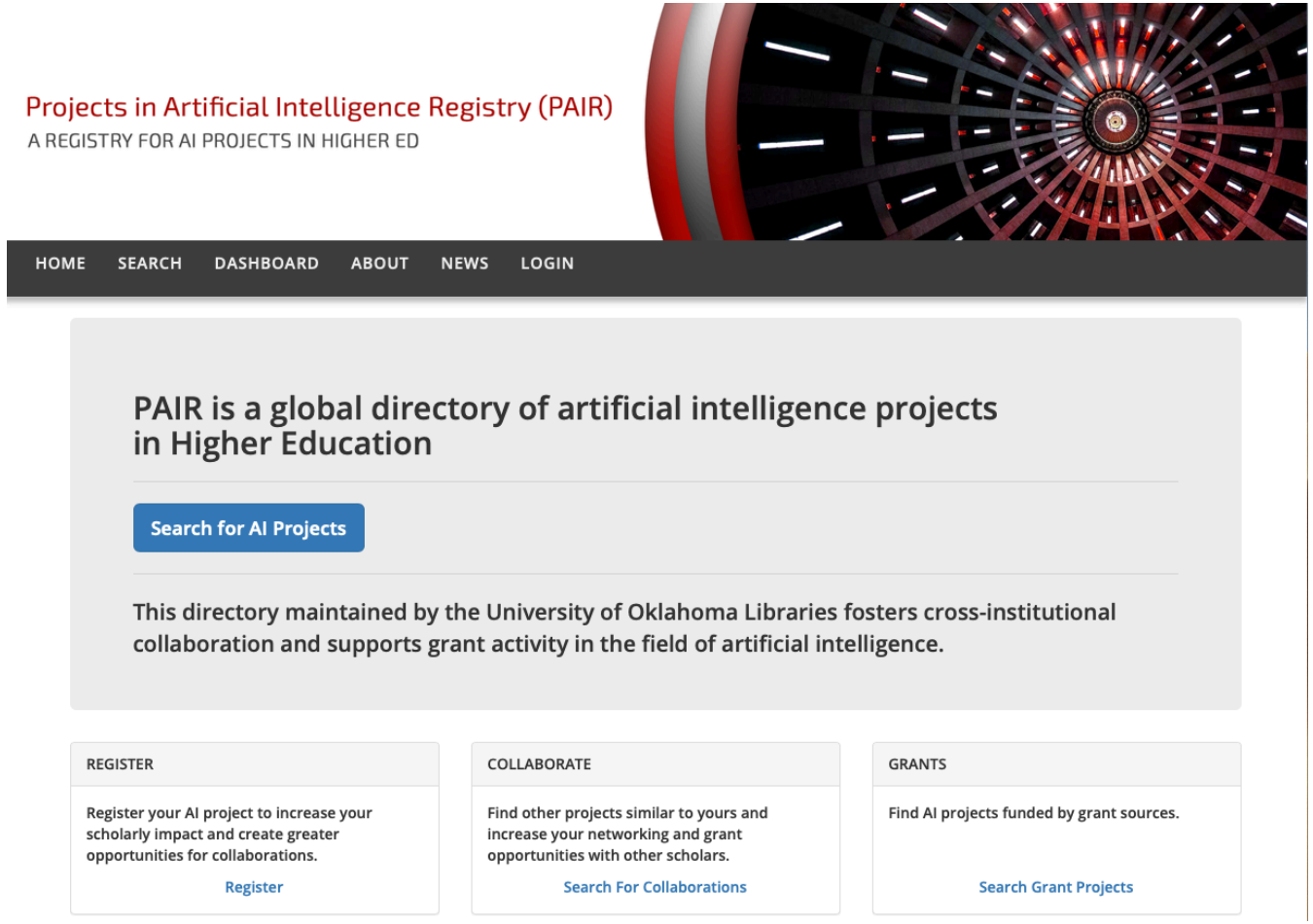
Lessons learned

What would make implementation easier, scalable and address concerns? Ways to:

- See who is doing with within our professional segment
- Work collaboratively across the profession
- Quickly see if someone else has dealt with a concern and how. A way to contact them with questions.
- Build and leverage off of each others efforts.

P.A.I.R. – Projects in Artificial Intelligence Registry

PAIR Demo



http://pair.libraries.ou.edu

Conclusion

Thank you!

Q & A