

Data Science for the National Big Data R&D Initiative

Submission by Dr. Brand L. Niemann, Director and Senior Data Scientists/Data Journalist, Semantic Community, and Founder and Co-organizer of the Federal Big Data Working Group Meetup, October 10, 2014

- Who you are—name, credentials, organization: **Dr. Brand Niemann, Director and Senior Data Scientist/Data Journalist, Semantic Community and Founder and Co-organizer of the Federal Big Data Working Group Meetup**
- Your contact information: bniemann@cox.net
- Your experience working with big data and your role in the big data innovation ecosystem: **Former Senior Enterprise Architect & Data Scientist with the US EPA, works as a data scientist, produces data science products, and publishes data stories for Semantic Community, AOL Government, & Data Science & Data Visualization DC Founded and co-organizes the Federal Big Data Working Group Meetup.**
- Comments and suggestions based on reading the initial framework, The National Big Data R&D Initiative: Vision and Priority Actions, and guided by the following questions:
 - What are the gaps that are not addressed in the Visions and Priority Actions document? **A community of practice with a Mission Statement like the Federal Big Data Working Group has and that implements our version of the [NSF Strategic Plan](#): Data Scientists, Data Infrastructure, and Data Publications using Semantic Web - Linked Open Data like the NITRD espouses.**
 - From an interagency perspective, what do you think are the most high impact ideas at the frontiers of big data research and development? **The Data FAIRPort, NIH Data Commons, and Semantic Community Sandbox for Data Science Publications in Data Browsers.**
 - What new research, education, and/or infrastructure investments do you think will be game-changing for the big data innovation ecosystem? **Data Mining all the research, education, and infrastructure investments for what has already been/is being paid for, especially for the agencies that have \$100M or more in R&D funding per the so-called OSTP [Holdren Memo](#), like the Federal Big Data Working Group Meetup is doing.**
 - How can the federal government most effectively enable new partnerships, particularly those that cross sectors or domains? **By participating in Communities of Practice on Data Science, Data Visualizations, Big Data, etc.**
- A short explanation of why you feel your contribution/ideas should be included in the strategic plan: **The Federal Big Data Working Group is what the Vision and Actions to be Taken say - a new partnership, a new gateway, and a long term sustainable activity.**
- Examples, where appropriate: [Federal Big Data Working Group Meetup](#), [Story](#), and IEEE 2014 Big Data Conference Published Paper: [Sharing Best Practices for the Implementation of Big Data Applications in Government and Science Communities](#).