



CAST Commentary QTA2019-1

***Enabling Open-source Data Networks in Public  
Agricultural Research***

Released March 11, 2019

Chair: Sylvie Brouder, Purdue University; 10-member task force

### **Release/Rollout**

On March 11, Dr. Sylvie Brouder, the task force chair, conducted two NCFAR (National Coalition for Food and Agricultural Research) Hill Seminars for both House and Senate staffers—the House presentation taking place during a noon Lunch 'n Learn and the Senate presentation occurring during the afternoon. Later in the day, a panel presentation and reception were held at the Association of Public and Land-grant Universities board room. The panelists included: Cynthia Parr, Technical Information Specialist, USDA-ARS; Robin Schoen, Director of the Board Agriculture and Natural Resources, The National Academies of Sciences, Engineering, and Medicine; and Elizabeth Stulberg, Science Policy Manager at The Alliance of Crop, Soil, and Environmental Science Societies. Approximately 56 people attended these three presentations.

**In-kind Contributions:** 260 volunteer hours; \$19,240 monetary value

### **Press Release (results two weeks after release)**

- Press release went to 8,070 e-contacts (1,518 media) resulting in 3,492 opens/interactions
- The [press release through PRWeb](#) resulted in 2,000 views and reached 960 targeted influencers (journalists).
- A sampling of sites where the release was picked up: AgriTech Tomorrow, Benzinga, Boston Herald, Markets Insider, NCFAR, News Locker, One News Page Global Edition, PortalTaxi.net, Reddit, RFD-TV, San Diego Union Tribune, Star Tribune, many radio station, and ABC, CBS, NBC, FOX, and CW affiliates.

### **Follow-On Activities**

- Video of Dr. Brouder's presentation and slides posted on CAST website and YouTube. [Click here to view.](#) (162 views as of March 10, 2021)
- **Dr. Brouder presented at the Institute for Bioscience and Biotechnology Research Interagency Working Group on Biological Data Sharing Workshop**, University of Maryland, June 12, 2019. <https://www.ibbr.umd.edu/event/iwgbds/agenda>
- **Dr. Brouder presented at the USDA's 96<sup>th</sup> Annual Agricultural Outlook Forum, *The Innovation Imperative: Shaping the Future of Agriculture***, Crystal Gateway Marriott Hotel, Arlington, VA, February 20-21, 2020 <https://www.usda.gov/oce/forum/2020/Program.htm>

### **Paper Distribution**

- Paper Downloads Accessed from CAST Website—2 years after release: 3,800

*This report last updated 3/10/2021.*

## Indirect Paper Distribution

### ACSESS Digital Library

<https://dl.sciencesocieties.org/issue-papers>

### EBSCO

### ORCID

<https://orcid.org/0000-0002-8870-7099>

## Articles and Web Mentions

**Agri-Pulse**, Washington Week Ahead, March 10, 2019

<https://www.agri-pulse.com/articles/11983-washington-week-ahead-trump-proposing-more-cuts-as-trade-tax-credits-get-hill-focus>

**Bovine Veterinarian**, *Leverage Resources in Ag Research*, John Maday, March 11, 2019

<https://www.bovinevetonline.com/article/leverage-resources-ag-research>

**CSA News, Science Policy News**, *Ask Congress to #RaiseTheCaps!*, May 2019

<https://dl.sciencesocieties.org/publications/csa/abstracts/64/5/26?access=0&view=article>

**Feedstuffs**, *Open data needed to address ag problems*, Jacqui Fatka, March 14, 2019

<https://www.feedstuffs.com/news/open-data-needed-address-ag-problems>

**KPCNews.com**, *Purdue seeks ways to feed the world and preserve the environment*, April 27, 2019

[https://www.kpcnews.com/article\\_83b04296-4c3a-5c46-8f31-b072d1783c4c.html](https://www.kpcnews.com/article_83b04296-4c3a-5c46-8f31-b072d1783c4c.html)

**National Coalition for Food and Agricultural Research**, press release, March 8, 2019

[https://www.ncfar.org/HSS\\_20190311\\_Media\\_Release.pdf](https://www.ncfar.org/HSS_20190311_Media_Release.pdf)

**National NAMA eNews**, March 11, 2019

<http://www.namablog.org/?p=14096>

**Ohio's Country Journal/Ohio Ag Net**, *Data Synthesis Important for Ag Research*, March 15, 2019

<https://www.ocj.com/2019/03/data-synthesis-important-for-ag-research/>

**Purdue University Agriculture News**, *How to feed the world and preserve the environment*, April 9, 2019

<https://www.purdue.edu/newsroom/releases/2019/Q2/how-to-feed-the-world-and-preserve-the-environment.html>

Picked up by Phys.org, <https://phys.org/news/2019-04-world-environment.html>

**Purdue University Agriculture News**, *Ag researchers make case: Big changes require access to big data*, March 11, 2019

<https://www.purdue.edu/newsroom/releases/2019/Q1/ag-researchers-make-case-big-changes-require-access-to-big-data.html>

picked up by Farmers Advance, part of the USA Today network, April 30, 2019

<https://www.farmersadvance.com/story/news/2019/04/30/big-changes-require-access-big-data/39423169/>

*This report last updated 3/10/2021.*

**The Scientist**, *Opinion: Agriculture Must Replace Small Science with Big Science; Agronomic sciences should follow the lead of genetics and other disciplines in sharing data.* Jun 17, 2019, Sylvie Brouder  
<https://www.the-scientist.com/news-opinion/opinion--agriculture-must-replace-small-science-with-big-science-66014>

**Southern Crop Production Association**, March 20, 2019  
<https://southcrop.org/agricultural/enabling-open-source-data-networks-in-public-agricultural-research/>

**USDA-ARS**, March 11, 2019  
<https://www.ars.usda.gov/research/publications/publication/?seqNo115=361255>

**Western Society of Weed Science**, WSWs Officer and Committee Report, March 2019  
<http://www.wsweedscience.org/wp-content/uploads/CAST-Report-WSWS-March-2019.pdf>

## Citations

**Association of Research Libraries**, Research Library Issues, no. 298 (2019): *The Data Science Revolution* Page 37  
<https://publications.arl.org/rli298/37>

**The Crawford Fund**, *Agricultural Science*, Combined Volumes 30 and 31, 2019  
<https://www.crawfordfund.org/wp-content/uploads/2020/02/J-Ag-Sc-Farming-Systems-issue2.pdf>

**Geoderma Regional**, *Spatial prediction of soil properties for the Busia area, Kenya using legacy soil data*, Volume 25, June 2021  
<https://www.sciencedirect.com/science/article/abs/pii/S2352009421000110>

**Plant Direct**, *Plant science decadal vision 2020–2030: Reimagining the potential of plants for a healthy and sustainable future*, September 1, 2020  
<https://doi.org/10.1002/pld3.252>

**Springer**, *Improving Potassium Recommendations for Agricultural Crops*, 2020  
<https://www.springer.com/gp/book/9783030591960>

**Springer**, *The Potassium Cycle and Its Relationship to Recommendation Development*, December 15, 2020  
[https://link.springer.com/chapter/10.1007/978-3-030-59197-7\\_1](https://link.springer.com/chapter/10.1007/978-3-030-59197-7_1)

## Social Media

**Twitter—**  
**@CASTagScience**, March 4, 2019  
<https://twitter.com/CASTagScience/status/1102690934284828673>

**@CASTagScience**, March 6, 2019  
<https://twitter.com/CASTagScience/status/1103403085005758465>

**@CASTagScience**, March 10, 2019  
<https://twitter.com/CASTagScience/status/1104849910728400898>

**@WaterWired**, March 11, 2019  
<https://twitter.com/WaterWired/status/1105123530490826752>

**@CASTagScience**, March 11, 2019  
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<https://twitter.com/CASTagScience/status/1105094773931565056>

@**plantae\_org**, March 11, 2019

[https://twitter.com/plantae\\_org/status/1105098555814019072](https://twitter.com/plantae_org/status/1105098555814019072)

@**cydparr**, March 12, 2019

<https://twitter.com/cydparr/status/1105460857511833601>

@**WaterJPI**, March 12, 2019

<https://twitter.com/WaterJPI/status/1105389970863214592>

@**DrSethMurray**, March 13, 2019

<https://twitter.com/DrSethMurray/status/1105890933806112768>

@**AGreeAgpolicy**, March 13, 2019

<https://twitter.com/AGreeAgPolicy/status/1105830876523356160>

@**AGreeAgPolicy**, June 19, 2019

<https://twitter.com/AGreeAgPolicy/status/1141337336157855745>

@**PurdueAg**, June 21, 2019

<https://twitter.com/PurdueAg/status/1142047591661821953>

@**CASTagScience**, September 8, 2019

<https://twitter.com/CASTagScience/status/1170775089962455040>

@**CASTagScience**, October 3, 2019

<https://twitter.com/CASTagScience/status/1179773371220926464>

**Facebook—**

**CASTagScience**, *March 11, 2019*

[https://www.facebook.com/CASTagScience/posts/2159488487479269?notif\\_id=1552310103509242&notif\\_t=scheduled\\_post\\_published](https://www.facebook.com/CASTagScience/posts/2159488487479269?notif_id=1552310103509242&notif_t=scheduled_post_published)

**CASTagScience**, *March 4, 2019*

<https://www.facebook.com/CASTagScience/posts/2154213908006727>

**CASTagScience**, *March 6, 2019*

<https://www.facebook.com/CASTagScience/posts/2159463064148478>

**Plantae**, *March 11, 2019*

<https://www.facebook.com/plantae.org/posts/2059951977434777>

**Mid America CropLife Association**, *March 22, 2019*

<https://www.facebook.com/MACroplifeA/posts/2516245748450078>

**Mid American CropLife Association**, *April 1, 2019*

<https://www.facebook.com/MACroplifeA/posts/2537401686334484>

**Mid America CropLife Association**, *June 21, 2019*

<https://www.facebook.com/MACroplifeA/posts/2729422873799030>

**CASTagScience**, *June 22, 2019*

<https://www.facebook.com/CASTagScience/posts/2326951497399633>

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**CASTagScience**, *October 3, 2019*

<https://www.facebook.com/CASTagScience/photos/a.477568575671277/2515998185161629/?type=3>

**Mid America CropLife Association**, *August 7, 2020*

<https://www.facebook.com/MACroplifeA/posts/4097846566956647>

**LinkedIn—**

**CAST**, March 4, 2019

<https://www.linkedin.com/feed/update/urn:li:activity:6508396798753722368>

**CAST**, March 7, 2019

<https://www.linkedin.com/feed/update/urn:li:activity:6509457529834135552>

**CAST**, March 11, 2019

<https://www.linkedin.com/feed/update/urn:li:activity:6510860560303738881>

Juan Tricarico, March 2019

<https://www.linkedin.com/feed/update/urn:li:activity:6511953002675470336>

**CAST**, June, 19, 2019

<https://www.linkedin.com/feed/update/urn:li:activity:6547153920312045568>

**CAST**, October 3, 2019

<https://www.linkedin.com/feed/update/urn:li:activity:6585569161336942592>

**Blogger—**

**CAST**, March 14, 2019

<https://cast-science.blogspot.com/2019/03/data-sharing-to-facilitate-ag-research.html>

**CAST**, April 1, 2019

<http://cast-science.blogspot.com/2019/04/ag-science-publications-with-impact.html>

**CAST**, June 19, 2019

<http://cast-science.blogspot.com/2019/06/agriculture-must-replace-small-science.html>

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