Working Together on Data Science

Data-Driven Discovery Initiative @ Moore Foundation
Chris Mentzel, Program Director
Who We Are

Science

Patient Care  Environment  Bay Area

Data-Driven Discovery

Marine Microbes  EPiQS  TMT  ...

Practices  People  Institutions

in the natural sciences
Let's first talk about Data Science
In 2014, Data Science headed towards peak hype

- **Tech Trigger**
- **Peak of inflated expectations**
- **Trough of disillusionment**
- **Slope of Enlightenment**
- **Plateau of productivity**

2014
Emerging Technologies
In 2015, suddenly it has its own curve

2015
Advanced Analytics and Data Science

Tech Trigger | Peak of inflated expectations | Trough of disillusionment | Slope of Enlightenment | Plateau of productivity

#MooreData
What is data science

An emerging discipline?
A set of tools?
A new community of practice?
Data Science / Data-Driven Research is Interdisciplinary

- Domain expertise
- Computational expertise
- Math & Stats expertise
Here is how Moore/DDD got started on this:

- Exploration: 2008-2009
- Development: 2010
- Launch: 2011
- Projects Funded: 2012
- 2013
- 2014
- 2015
- 2016
- 2017+

Projects Funded:
- Datanet
- NSF
- O'Reilly
- Whitehouse
- Big Data
- Strata

Machine Learning – Big Data – Data Science Technologies
What we do / Where we spend money

- $60M
- 50%
- 35%
- 15%

2012 → 2018
We focus on these thematic areas

- Methods
- Space
- Tooling
- Open Science
- Careers
- Training
- Data Science Studies

Themes

www.msdse.org
Suggestions

• Expose your work, make it open source

• Get involved, in a problem space that interests you

• Connect with others, who are actively doing this
Thank you

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