Computational and cultural aspects of improved attribution

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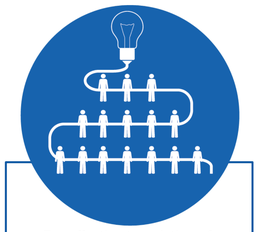
NATIONAL CENTER FOR DATA TO HEALTH

What *IS* impact?

Meaningful impact is more than papers and grants – we are driving toward improved health and wellbeing

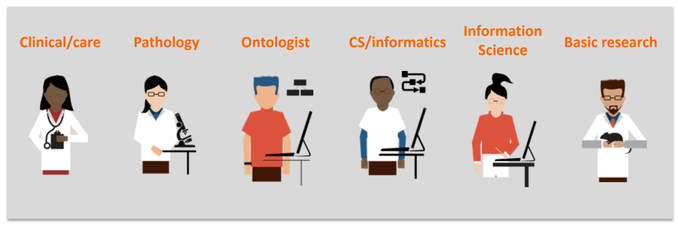
- IMPROVEMENTS IN HEALTH THROUGH TREATMENT AND PREVENTION
- CONTRIBUTIONS TO SOCIETY THROUGH ECONOMIC GROWTH AND PRODUCTIVITY
- EXPANSION OF THE BIOMEDICAL KNOWLEDGE BASE THROUGH CUTTING-EDGE RESEARCH
- CULTIVATION OF THE BIOMEDICAL WORKFORCE OF TODAY AND TOMORROW

https://www.nih.gov/about-nih/what-we-do/impact-nih-research



For effective translation of knowledge and discoveries into the improved health of our communities, it is essential to incorporate evaluation strategies that enable investigators and teams to measure, monitor, and communicate the impact of their work

Translational science is team science



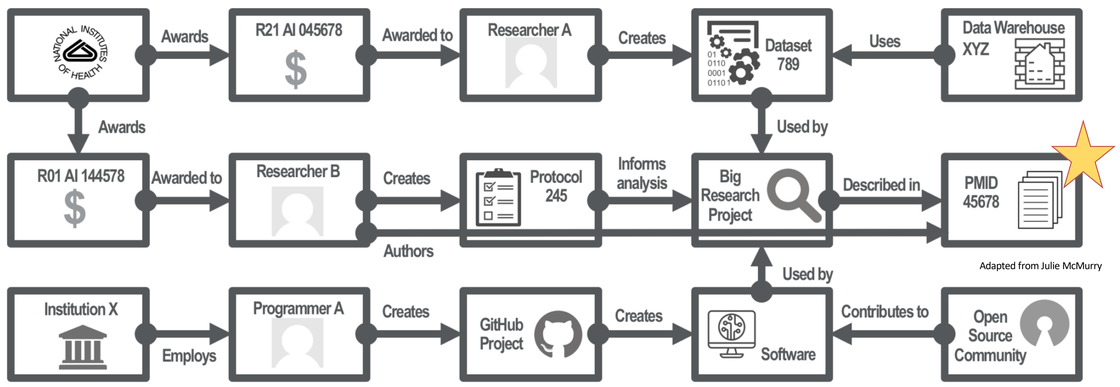
How can we credit all of these contributors?

Moreover, how can we find the resources and people to form the scientific teams, collaborations, reviewers, we need?

A community-based approach is required

By using contributor roles & research object types to develop infrastructure to understand the scholarly ecosystem, we can better understand, leverage, and credit a diverse translational workforce

What needs to be considered? Let's look at a common workflow:



How do we accomplish this?

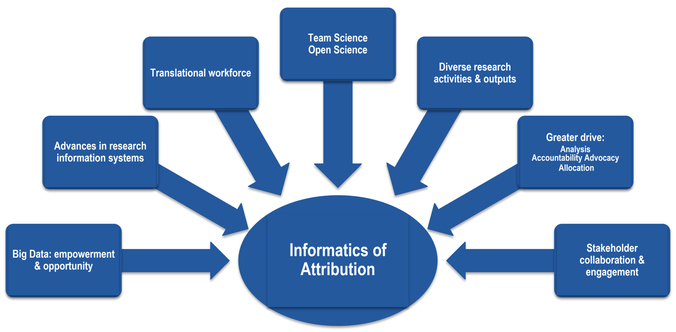
1. Understand deeply the requirements for a computable attribution system from a large diversity of stakeholders;
2. Build model(s) to meet these requirements; and
3. Evaluate the models in real pilot systems with real data.

Development of data models to address these needs demands a rigorous requirements-driven approach

Key modeling challenges for development of integrative community standards

1. Accommodation of diverse and complex data types
2. Support needs of different applications and systems
3. Interoperability with broader data landscape

Why now and how do we get there?

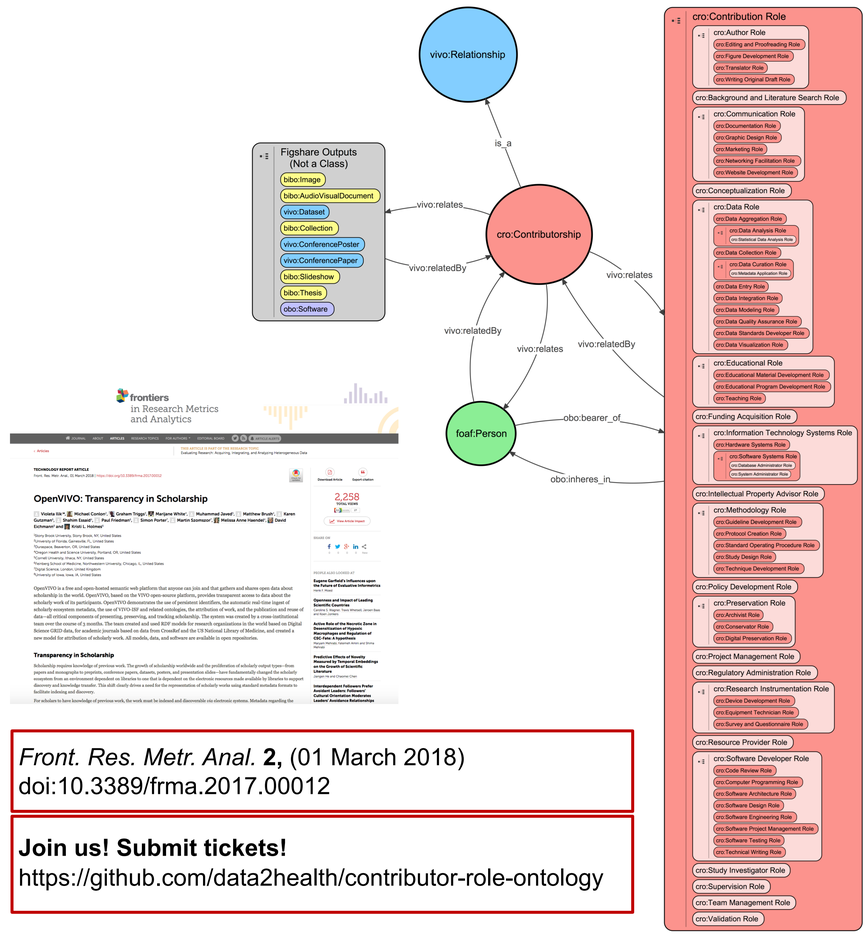


Join us!

http://bit.ly/AttributionSignUp

@kristiholmes & @ontowonka

V1 Contributor Role Ontology



Front. Res. Metr. Anal. **2,** (01 March 2018)
doi:10.3389/frma.2017.00012

Join us! Submit tickets!
https://github.com/data2health/contributor-role-ontology

What do YOU want better credit for? We want to know!

Teams: CD2H, Northwestern University Clinical and Translational Sciences Institute, OpenVIVO collaborators, Force11 Attribution WG, NISO, Galter Library, Becker Library, ChicagoCHEC, FIRST DailyLife, Health for All
NIH Support: U24TR002306 (NCATS); UL1TR001422 (NCATS); U54CA202995, U54CA202997, U54CA203000 (NCI); P30AR072579 (NIAMS)