

# Data Science @ NIH

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Director, NLM

Twitter: NLMDirector

Twitter: #AMIA2017



# Disclosure

- I have no relevant relationships with commercial interests to disclose.



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The diagram illustrates the umbrella role of the NIH Director, with various NIH institutes and centers represented as blue circles under a large green umbrella. The institutes listed are:

- NCI
- CIT
- NCCIH
- NIGMS
- NIMHD
- NHLBI
- NEI
- NHGRI
- NIA
- NIAA
- NLM
- NICHHD
- NIDCD
- NIDCR
- NIDDK
- NIMH
- NIAMS
- NIDA
- NIEHS
- NIIR
- CSR
- OD
- CC
- NCATS





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# NLM's Role in Data-powered Health

- Platform for discovery
- Pathway for engagement



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# NLM Strategic Plan



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# Transforming Information into Discovery



# NLM as a platform for biomedical discovery & data-powered health

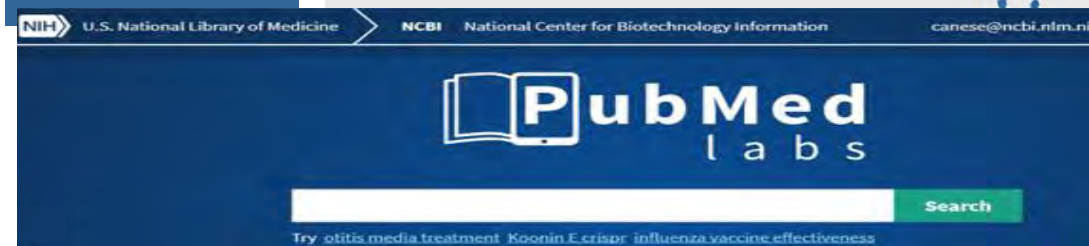
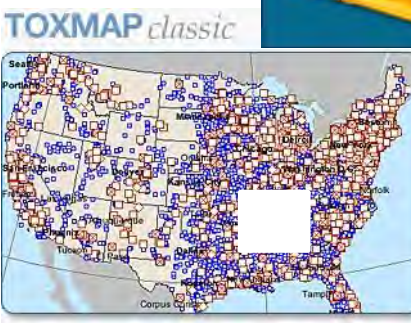
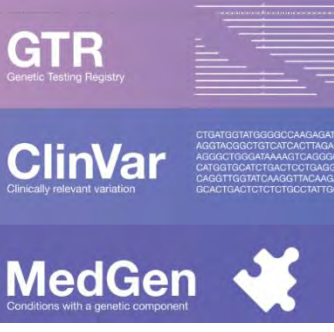
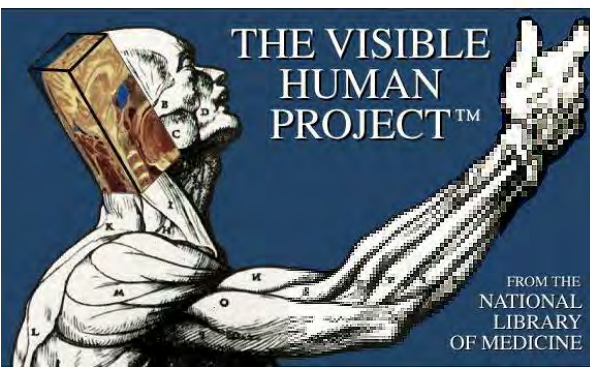


New ways  
to reach users with  
new information and  
new tools



A workforce prepared  
to advance  
data-driven discovery  
& data-powered health







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# DATA



DISCOVERY



BEST PRACTICES



LINKS TO LIT



COLLECTION



PROMOTION



IMPACT

**Do for data what we've  
done for the literature.**



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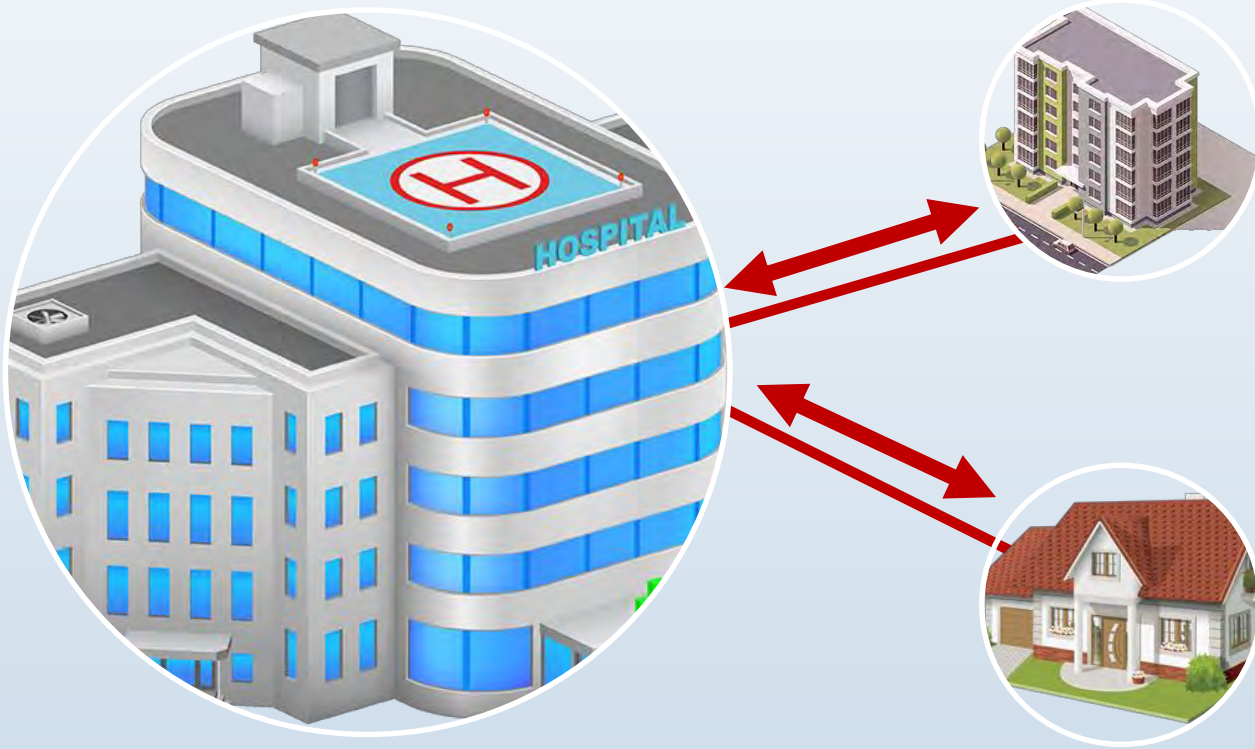


Health Care  
Seamless linking of clinical  
and research data



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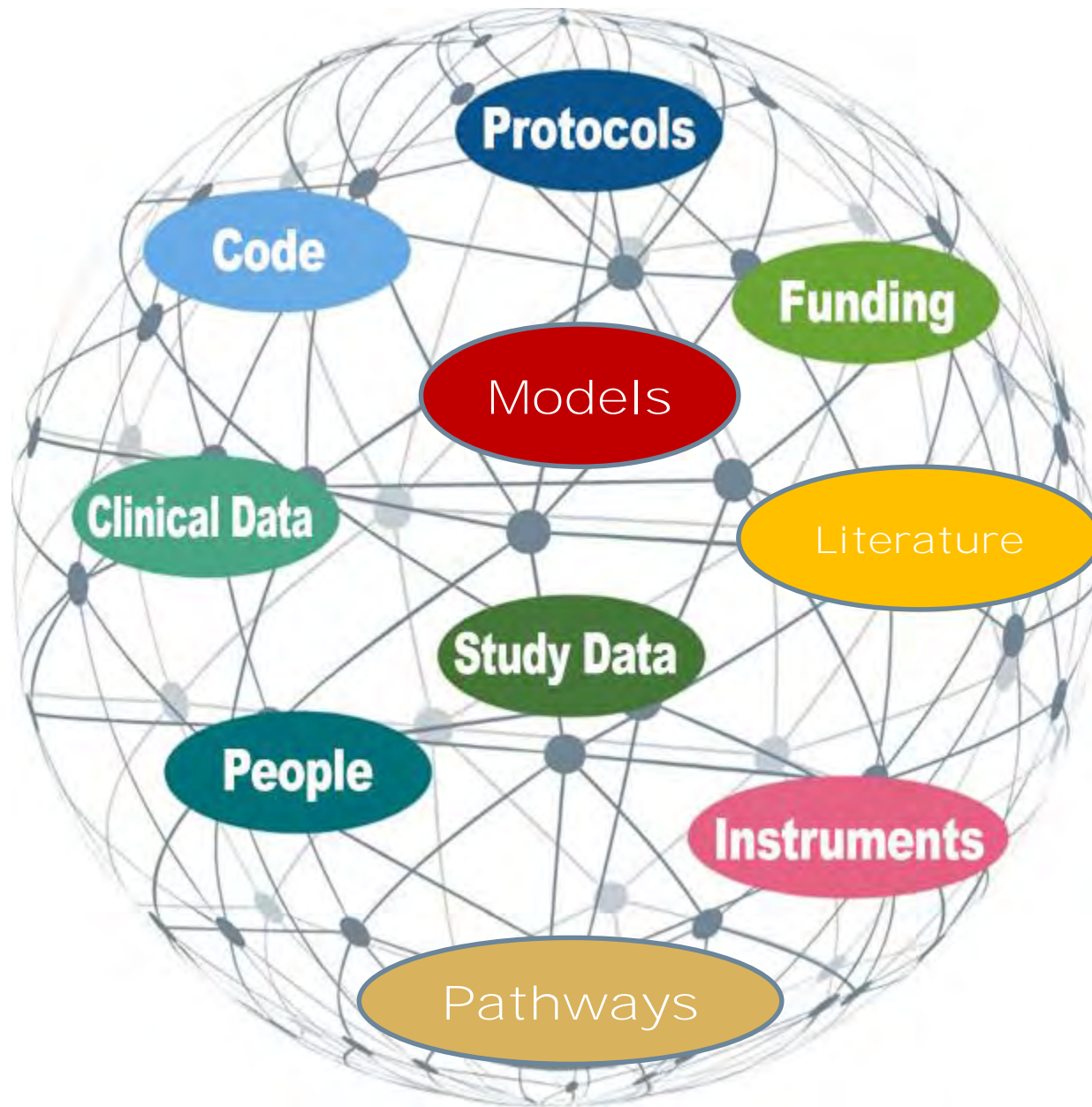
Drive EHRs,  
data flows, and  
literature to the  
community



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Fostering a  
sphere of  
discovery:  
digital research  
objects



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# Stewardship

governance  
NIH SDC, SDPC

cloud  
NIH/CIT, External

local  
NCBI dbGaP



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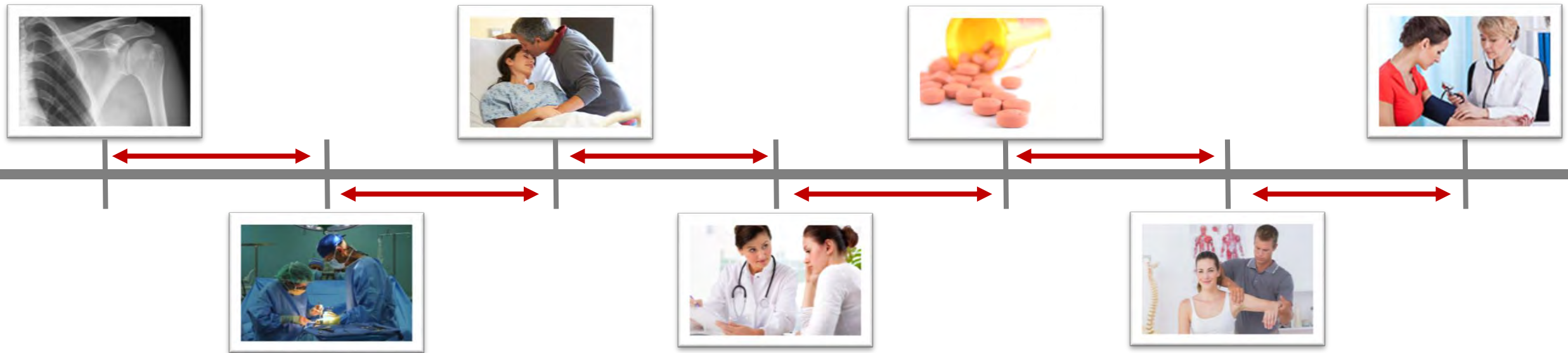
# Serving the 21<sup>st</sup> century user



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# The Care Between the Care



Be where the care happens.



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Data-powered health will require new approaches to NLM-delivered information



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# Workforce Excellence



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# Training:

- \* Re-imagine university-based data science training
- \* Increase intramural data science capacity
- \* Foster data-savvy clinicians and librarians



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# Advanced Data Management in FY2018

NLM with NIH...for everyone



PMC Data Discoverability



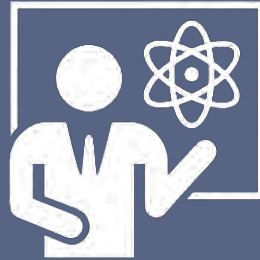
dbGaP Enhancements



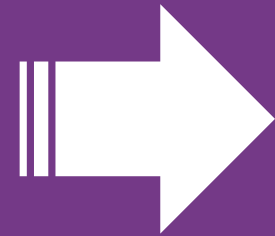
Clinical Research Data



Data Commons



Data Science Workforce



Strategic Plan



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# Questions & Discussion





# Reaching me



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#WhyInformatics



- Thank you!

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