

The background of the slide features a dark blue field with a faint, intricate pattern of white lines and dots, resembling a complex electronic circuit or data network. The lines vary in thickness and direction, creating a sense of depth and connectivity.

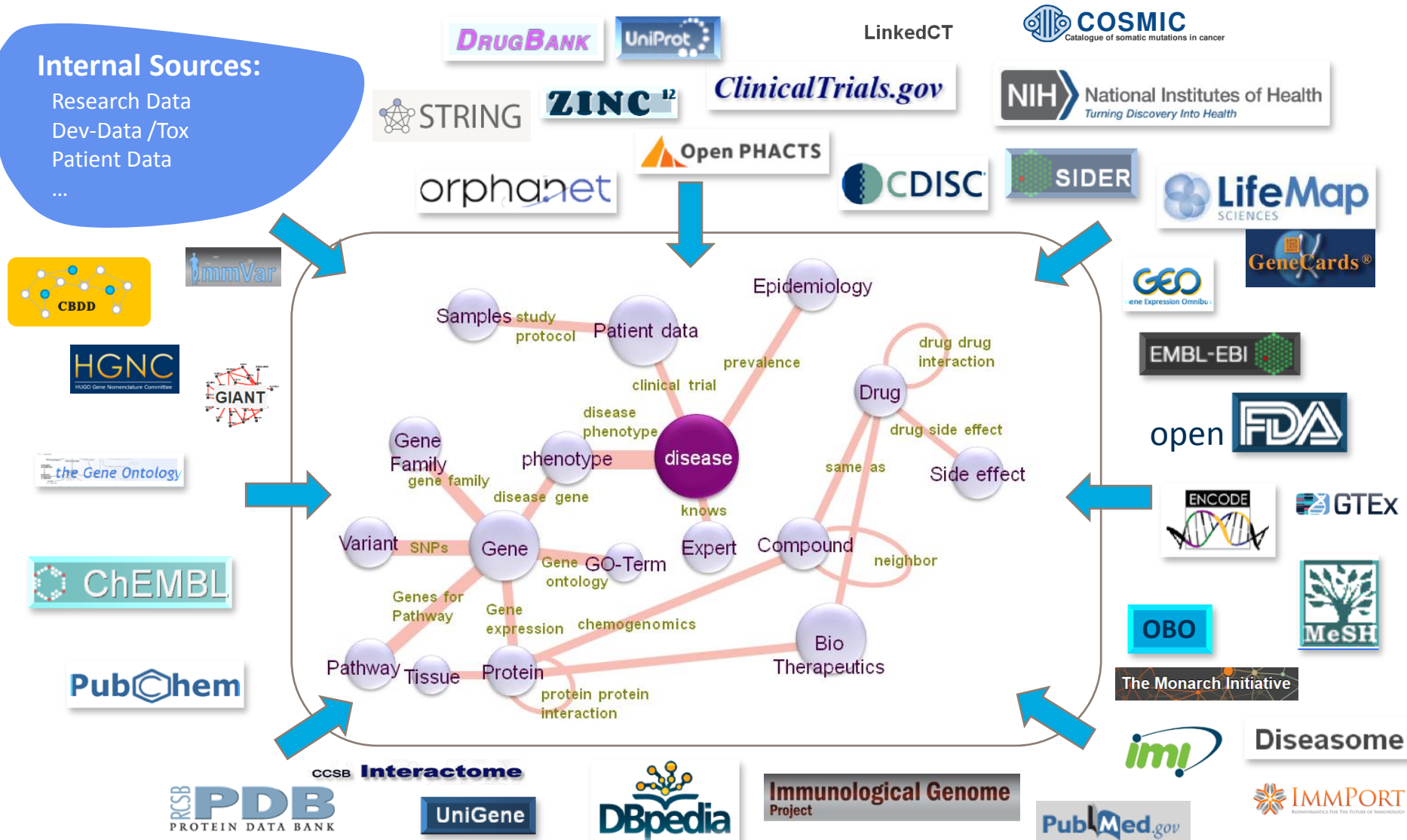
“If data is the currency of R&D, how  
do we recognise its value?”

Spring 2017 PRISME Forum TECHNICAL MEETING  
Panel Discussion

# Translational Science – A Data Challenge

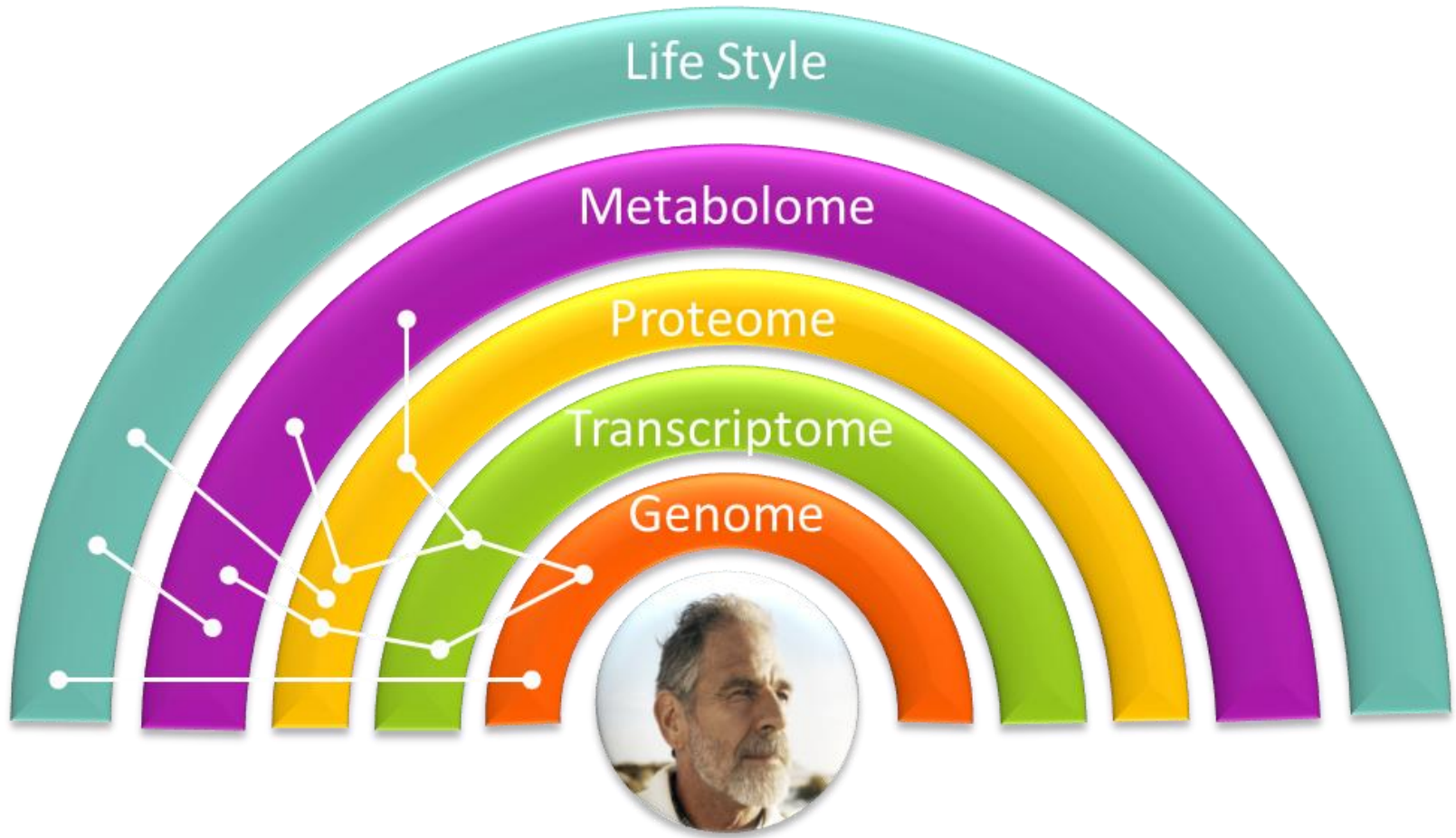
## Internal Sources:

Research Data  
Dev-Data /Tox  
Patient Data  
...



SEARCH

# Knowledge Discovery in the Context of Disease

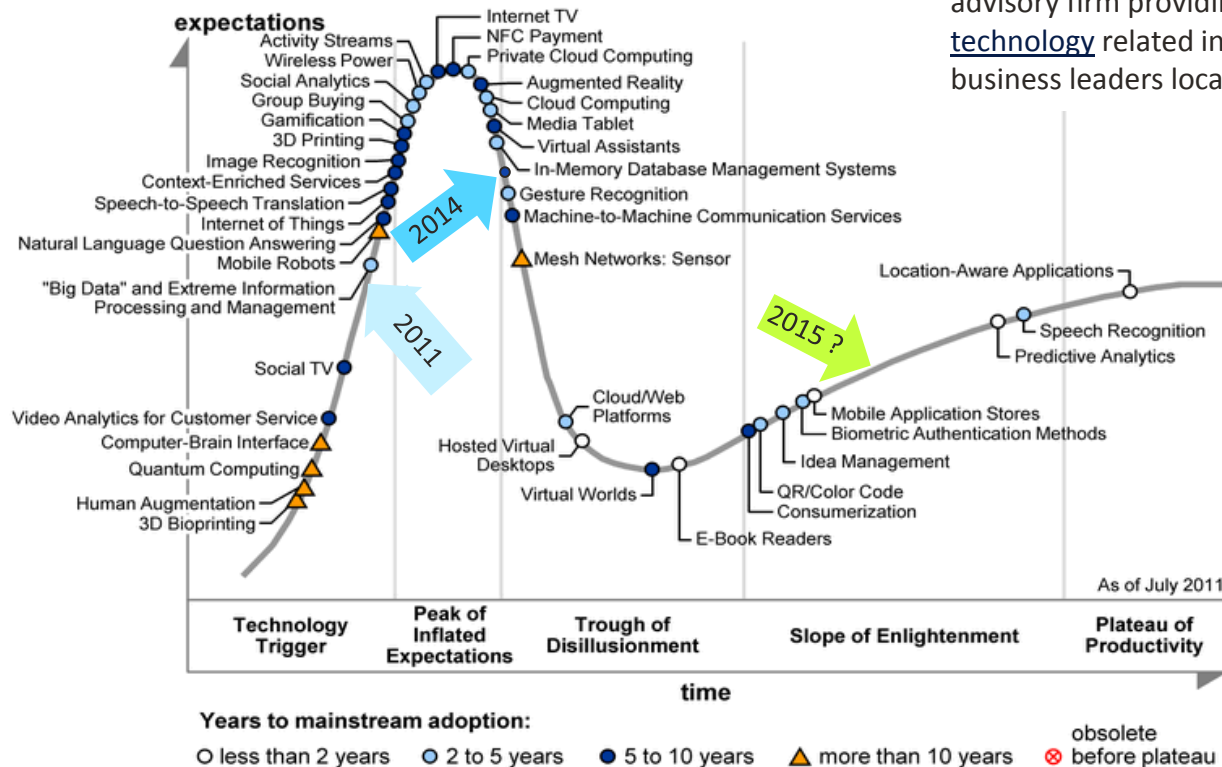


How can we fully leverage data to transform Pharma R&D **towards a quality centric and data driven Knowledge Discovery?**

# Big Data in Gartner's Hype Cycle started 2011

## Emerging Technologies

Gartner, Inc. is an American research and advisory firm providing [information technology](#) related insight for IT and other business leaders located across the world.



Gartner took Big-Data from their Hype Cycle curve in 2015 – because **Big Data .. has become prevalent** in our lives

# Where Big Data Works today



Digital  
marketplaces

amazon

Google

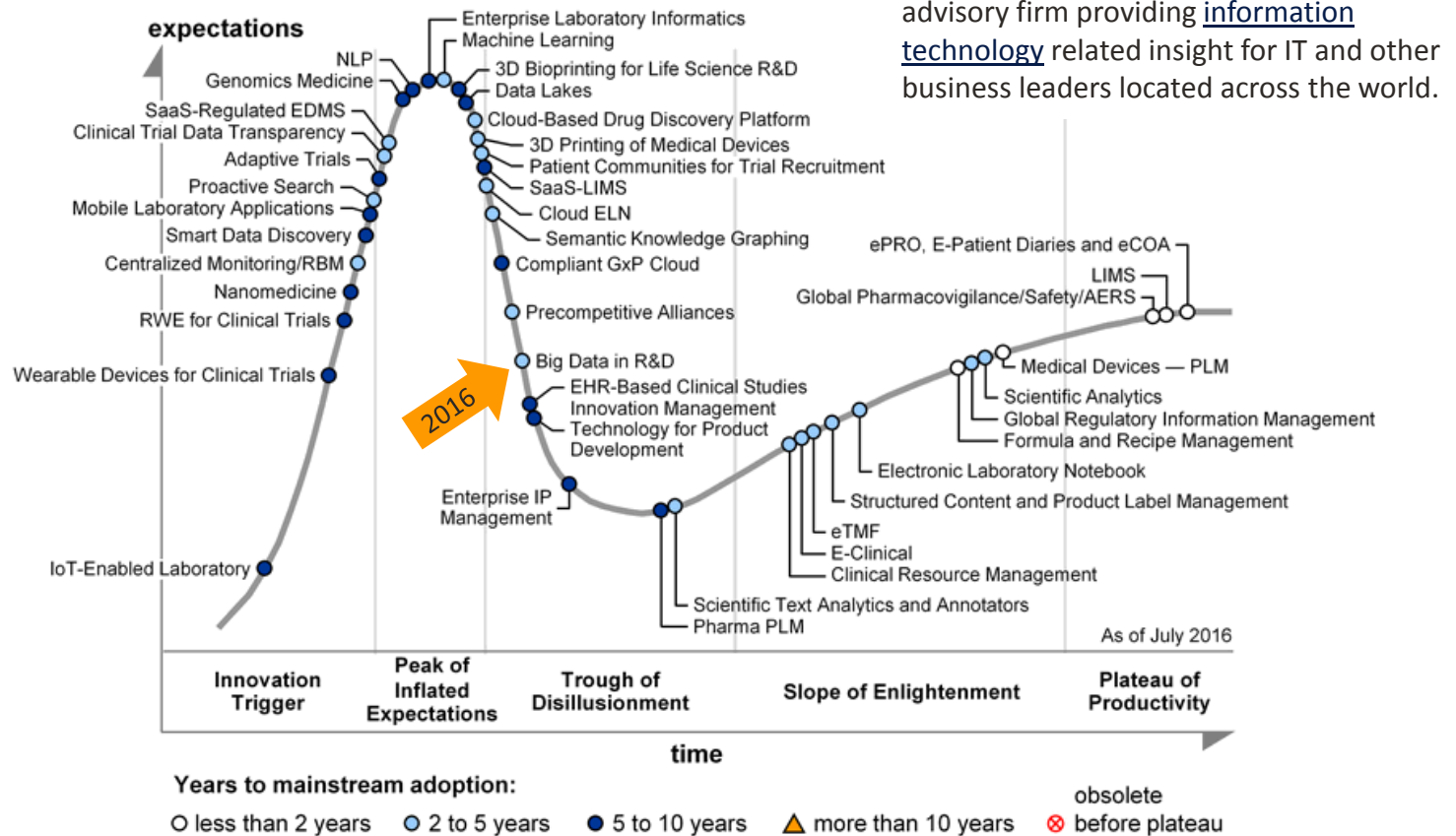
Social  
Media



Electronic trading  
systems

# Big Data in Gartner's Hype Cycle started 2011

## Hype Cycle for Life Science R&D

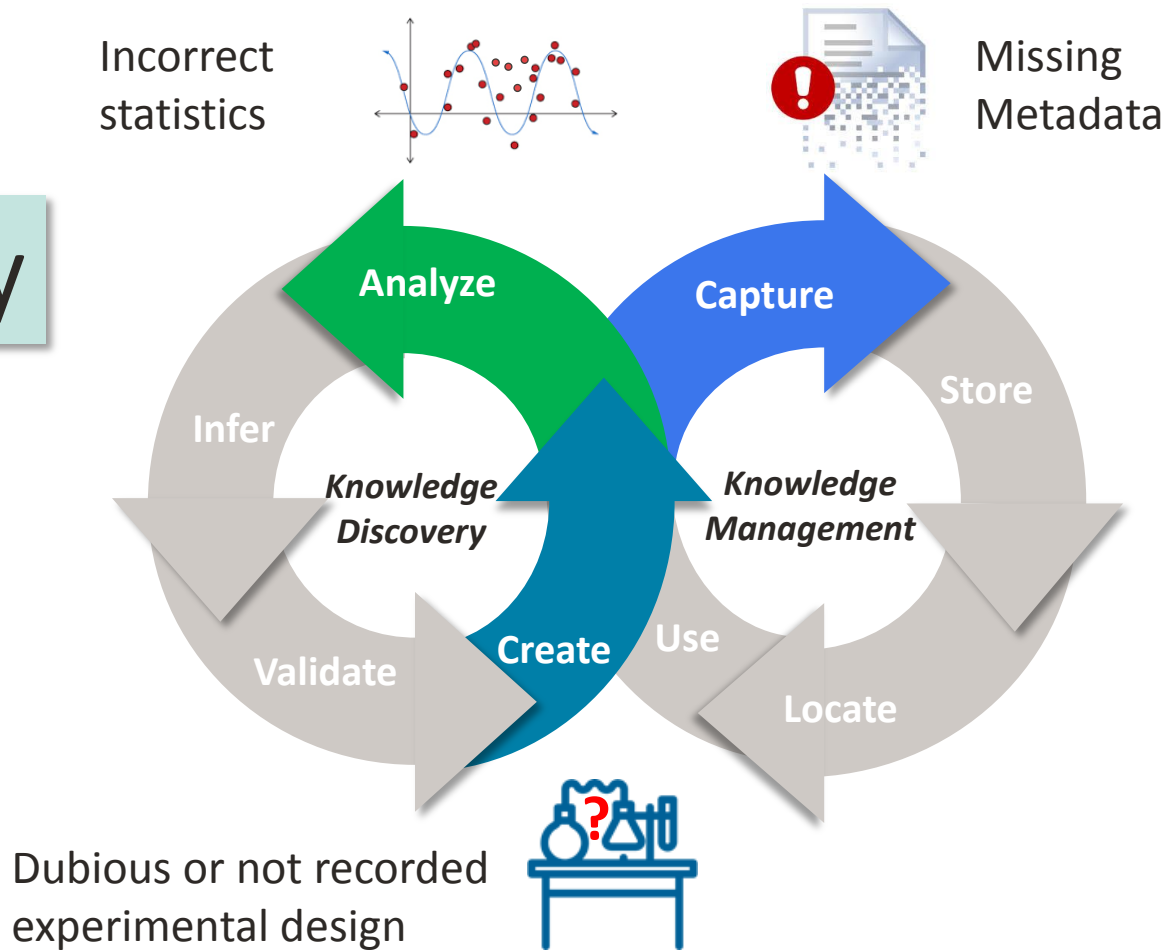


Why is it so difficult to fully leverage Big Data in R&D?



# Data Quality & Context Obstacles

Quality



Context

# Obstacles - Signal 2 Noise Issue

**Confounding Context may eliminate the signal**

#Comorbidities

#Disease state

#Polymorphism / Epigenetic variance



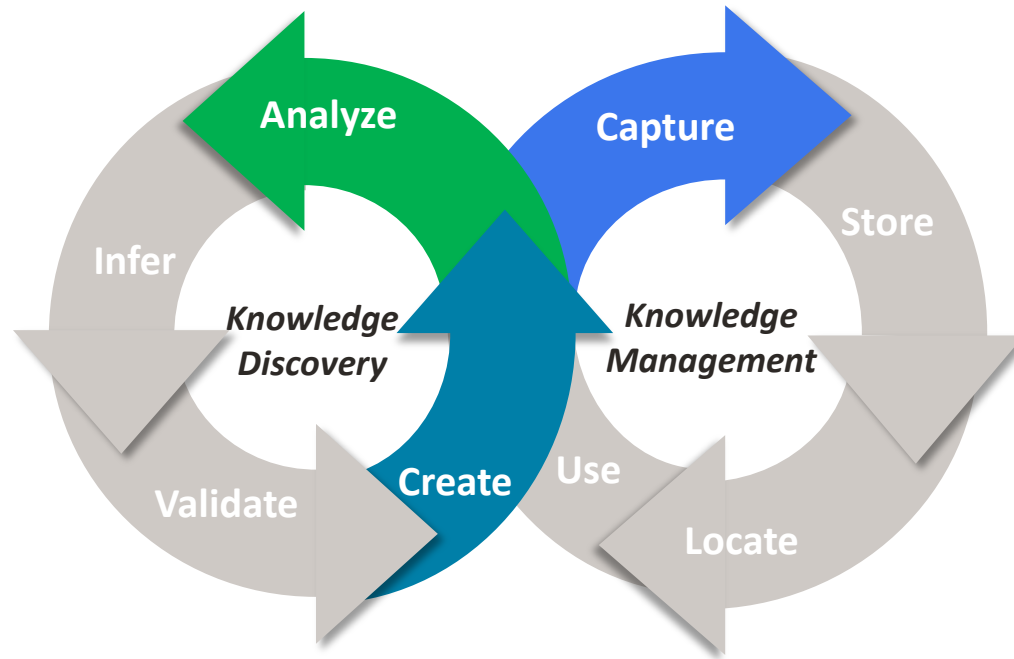


# How to address?

Method Standards?

Meta Data Standards?

Quality



Context

Lab Automation?



**Chair: Lars Greiffenberg**  
Director, R&D IT and Translational Informatics  
*AbbVie*



**Eduardo  
Gonzalez-Couto**

BioInformatics  
Products  
Strategist & Manager  
*PerkinElmer*

Acquiring the Data -  
Instrumentation  
Perspective



**DJ Kleinbaum**

Co-Founder  
*Emerald Cloud Lab*

Acquiring the Data -  
Instrumentation  
Perspective



**Edith Scheringer**

Head, IT RDM-E  
Chemistry  
Infrastructure &  
Structural Analytics  
*Boehringer-  
Ingelheim*

Organization - Standards & Ontologies:  
The Allotrope Foundation Perspective



**Karsten Wicke**

Associate Director  
*AbbVie*

IMI 2 Call 9 (EQIPD)  
Data Quality in  
Preclinical R&D

# Discussion

# Directions to improve Data Quality & Context

Quality

**Innovative Medicines Initiatives: IMI-2, Call-9: Data Quality in Preclinical Research:**  
EQIPD / [www.imi.europa.eu](http://www.imi.europa.eu)



**Allotrope Foundation:** [www.allotrope.org](http://www.allotrope.org)



Context