



# Portfolio, Projects and Communities Overview

# Our Strategic Priorities



## Delivering Data-Driven Value at Scale

Data is the foundation for AI and digital strategies, but we struggle to manage, maintain and consume data

## Harnessing AI to Expedite R&D

83% of Life Sciences Execs say they will not achieve growth goals without AI

## Accelerate Use of RWD/RWE

RWE delivers significant cost and time savings and benefits patients

## Sustainability Driven R&D

ESG is a priority for companies from a growth and public health perspective. We must ensure that the benefits of our therapies are not offset by our operations

# Our Strategic Advisors



## Delivering Data-Driven Value at Scale

Andrea Splendiani  
Chris Butler  
Holly Lynch  
Jean Sposaro  
Kate Llewellyn  
Katia Vella  
Martin Romacher  
Pat Pijanowski  
Saritha Kuriakose  
Sheila Elz  
Steve Penn  
Tim Miller  
Yojna Tank

IQVIA  
Abbvie  
Charles River Labs  
BMS  
GSK  
Novartis  
Roche  
Former Accenture  
Novo Nordisk  
Bayer  
Pfizer  
Elsevier  
Merck

## Harnessing AI to Expedite R&D

Angeli Moeller  
Brian Martin  
Enrico Ferrero  
Etzard Stolte  
Gary Shorter  
Joe Mullen  
Sridevi Nagarajan  
Thibault Geoui  
Thierry Breyette  
Vinny Antonucci

Roche  
Abbvie  
Novartis  
Roche  
IQVIA  
SciBite  
AZ  
Charles River Labs  
Abbvie  
Merck

## Accelerate Use of RWD/RWE

Alex Liede  
Gregory Klebanov  
John Navy  
Justyna Amelio  
Michele Arnoe  
Tje Lin Chung

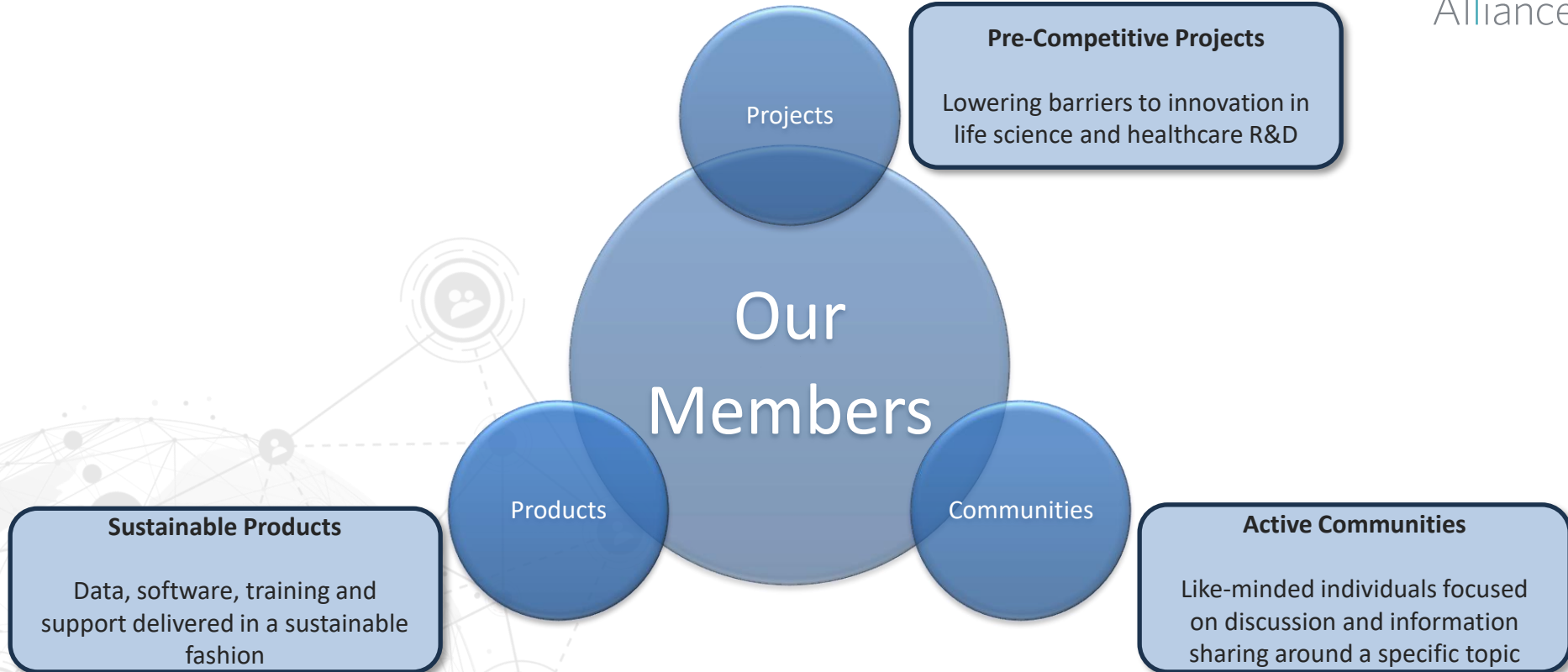
Abbvie  
Odysseus  
BMS  
Abbvie  
IQVIA  
Bayer

## Sustainability Driven R&D

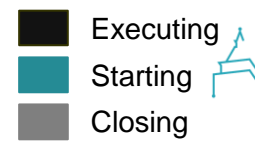
Adriana Zupa-Fernandez  
Alina Codrescu  
Carly Santer  
Farida Kopti  
Jason LaRoche  
Luise Wolf  
Will Clark

BMS  
BMS  
Bayer  
Merck  
Janssen  
Roche  
GSK

# A Sustainable Portfolio



# Activities Aligned with Strategic Priorities



## Delivering Data-Driven Value at Scale

### Ontologies

- IDMP-O
- Clinical Trials Operations
- ISA-88 Process Chemistry
- Pharma General Ontology

### Data Enrichment

- DataFairy Bioassay Annotation
- FAIR Implementation
- [FAIR Community](#)

### Integration and Management of Data, Ontologies and Standards

- Methods HUB
- In-vitro Pharmacology
- Data Governance Community
- [GSRS Consortium](#)

## Harnessing AI to Accelerate R&D

### Algorithms

- [Large Language Models in Life Sciences](#)

### Best Practices

- NLP Use Case Database
- AI/ML Community

## Sustainability Driven R&D

- Carbon Footprint for Decentralized clinical trials
- Diversity & Inclusion in STEM Training / Community

## Accelerate Use of RWD/RWE

- Social Media for RWD

## Other Projects And Communities

- Microbiome-Mediated Drug Metabolism Database
- Controlled Substance Compliance & Shipping Community
- User Experience Life Sciences Community
- [Labs of the Future Community](#)
- Quantum Computing Community

# Ideas Aligned with Strategic Priorities



## Delivering Data-Driven Value at Scale

### Data Enrichment

- Complex Bioassay Data Exchange
- **Quality Management Framework**
- Regulatoria (IVP for Analytical)
- CDSIC for early/preclinical R&D

### Integration and Management of Data, Ontologies and Standards

- Clinical Data Analytics Platform
- Chemical Exchange File Format Community
- Standardized bioinformatics (NGS) computational pipelines
- **Standard API for Semantic Data**

## Harnessing AI to Accelerate R&D

### Algorithms

- [In-silico testing](#)
- Multi-modal LLMs for Webinars
- FDA2.0/Digital Twins for Animal Reduction
- AI for Drug Repurposing

### Best Practices

- [Model description vocabulary](#)
- Utilization of AI/ML results in regulatory filings

## Sustainability Driven R&D

- In Vitro NAMs Data Standards
- [In Vivo metadata vocabulary](#)
- Digital Transformation & Change Management Community

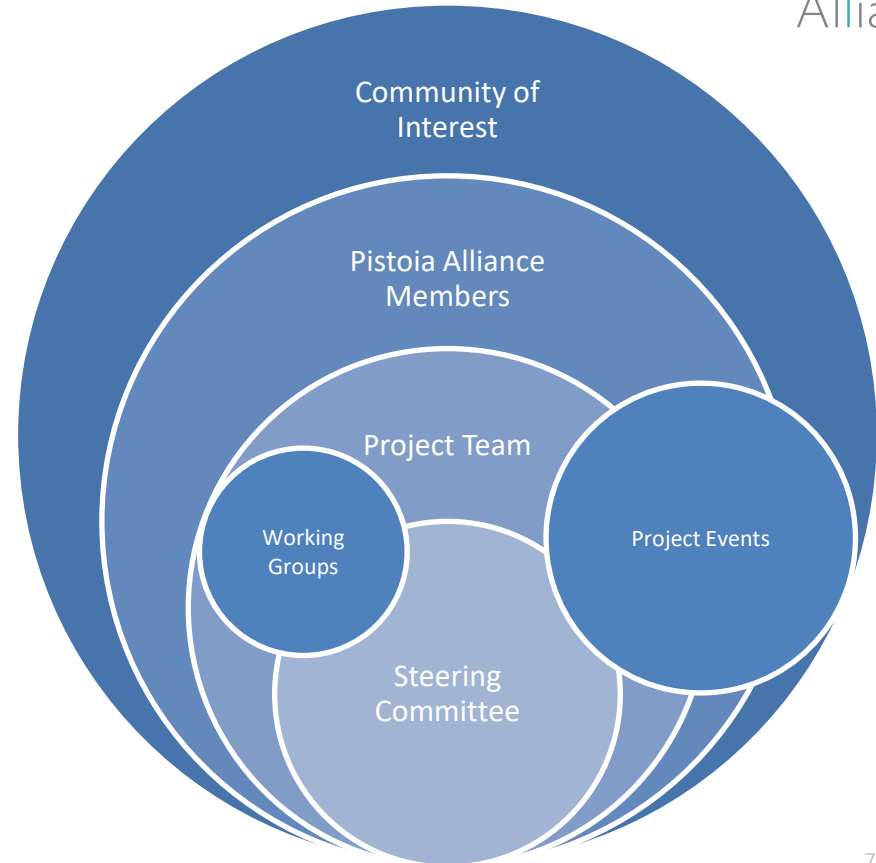
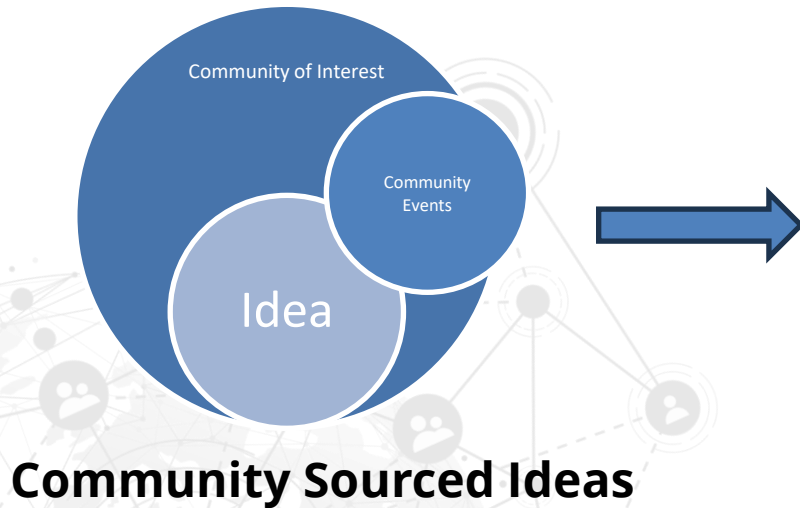
## Accelerate Use of RWD/RWE

- **RWD Ontology**
- RWD and the impact of AI

## Other Projects And Communities

- [Regional Restrictions on Shipping & Data Exchange](#)
- [Blockchain technology for quality assurance](#)
- **Digital transformation and change management**

# Projects at the Core of the Alliance



# Increasing Project & Community Benefits



Cross-company  
networking &  
perspectives



Introductions within  
the same company



More brains  
on the same  
problem



Experience of our  
project managers and  
other Alliance members



Upskilling of  
project members



Contribution to  
scientific journals &  
meetings



Friendships and  
professional  
development

## What to expect?

- Project & paid community members need to be a member of the Pistoia Alliance
- A dedicated domain-aware project manager and other resources as needed
- Members contribute based on their interests & expertise and while learning from others
- Steering committee determines the scope, objectives & priorities
- Funders sit on the steering committee and have enhanced access to deliverables & other benefits



# Brief Project Updates



- **Regulatory Agency Partnerships** – [Larry Callahan \(FDA\)](#)
  - In Vitro Pharmacology
  - GSRS Consortium
- **A Focus on Ontologies**
  - Clinical Operations Ontology – [Aditya Tyagi \(PA\)](#), [Cameron Gibbs \(Crownpoint\)](#)
  - CMC (ISA88) Process Ontology – [Birthe Nielsen \(PA\)](#) , [Cameron Gibbs \(Crownpoint\)](#)
  - Pharma General Ontology – [Giovnni Nisato \(PA\)](#)

**Other Projects and Communities Throughout the Day**

