



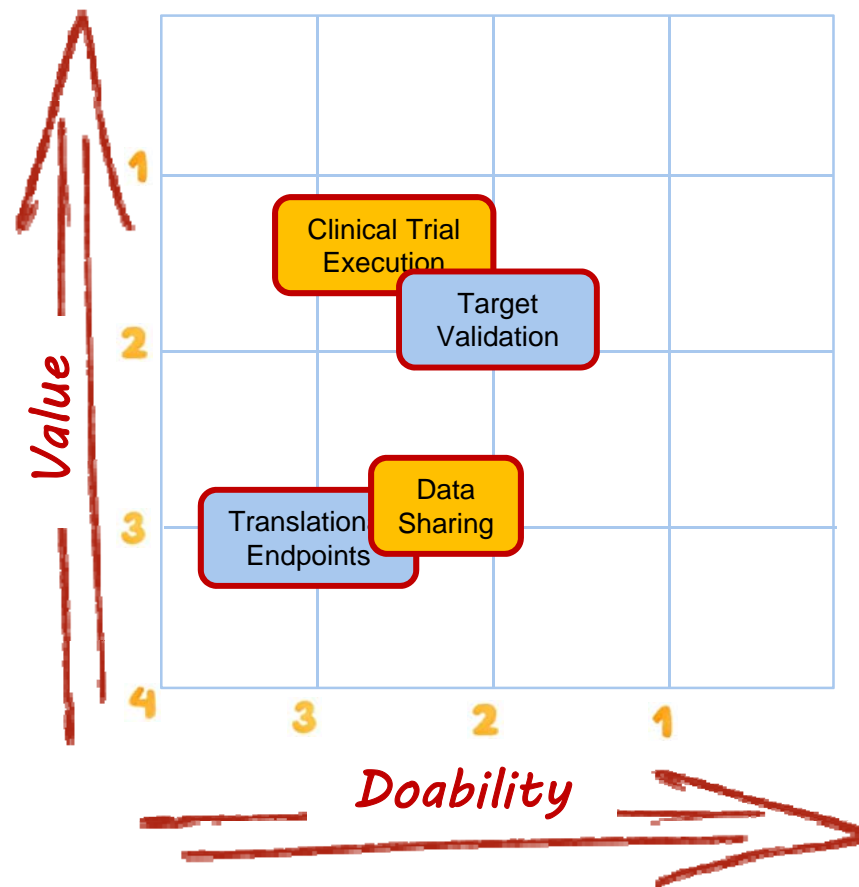
TransCelerate
BIOPHARMA INC.

ACCELERATING THE DEVELOPMENT OF NEW MEDICINES

***Efficiency Enhancing Collaboration in
Clinical Trials***

Pharmaceutical R&D leaders identified collaboration as a key opportunity for generating industry-wide efficiencies

Conducted an industry survey on areas amenable to collaboration



The Charter Members of TransCelerate include Major Pharmaceutical Companies



TBA (Board Member)

David Jordan (Operations Committee)
Divisional VP, Stats & Data Mgmt



Paul Stoffels (Interim Chairman of the Board)

Worldwide Chairman of J&J Pharmaceuticals
Martin Fitchet (Treasurer to the Board, Operations Committee)
Chief Operating Officer



Briggs Morrison (Board Member)

EVP, Global Medicines Development

Sue McHale (Operations Committee)

Executive Director, Global Project Delivery



Jan Lundberg (Board Member)

EVP of Science & Technology

Jeff Kasher (Operations Committee)

VP and COO Global Medical R&D



Klaus Dugi (Board Member)

Corporate SVP, Medicines

Thor Voigt (Operations Committee)

Head of Global Clinical Ops, Biometrics & Data Management



John Hubbard (Board Member)

SVP Development Operations

Craig Lipset (Operations Committee)

Head of Clinical Innovation



Brian Daniels (Board Member)

SVP Global Development & Medical Affairs

Jonathan Zung (Chairman, Operations Committee)

VP, Global Development Operations



Corsee Sanders (Board Member)

Global Head of Development Innov. & Clin Ops

Carol Harris (Operations Committee)

Global Head Project & Functional Excellence



Patrick Vallance (Board Member)

President, Pharmaceuticals R&D

Lynn Marks (Corporate Secretary)

SVP, Clinical Platforms & Sciences

Pete Milligan (Operations Committee)

Director, Lead for SCD



Elias Zerhouni (Board Member)

President of Global R&D

Andy Lee (Operations Committee)

SVP, Head Global Clinical Operations



Nine new member companies joined TransCelerate in 2013

Board Members



Peter Carberry (Board Member)
SVP & Head of Global Development Operations
Nancy Sacco (Operations Committee)
Executive Director, Development Sciences/Strategic



Alfred Sandrock (Board Member)
SVP, Head of Development Sciences & CMO
Murray Abramson (Operations Committee)
VP, Global Clinical Operations



Steve Gilman (Board Member)
EVP, R&D and CSO
Ed Campanaro (Operations Committee)
VP, Clinical Development



Annalisa Jenkins (Board Member)
Global Head of R&D
Kathleen Ford (Operations Committee)
Senior VP, Head of Global Clinical Operations



Marco Taglietti (Board Member)
President, Forest Research Institute & CMO
Ulo Palm (Operations Committee)
SVP, Clinical Operations & Biometrics



Garry Neil (Board Member)
Global Head, R&D

Non-Board Members



Steve Johnson (Operations Committee)
SVP, R&D Business Services



Gareth Morgan (Operations Committee)
SVP, Portfolio Management, Global Development Office



Brigitte Koch (Operations Committee)
VP, Head Global Clinical Project Management

Not for profit entity created to drive collaboration as means to developing solutions for overcoming inefficiencies

Our vision

To improve the health of people around the world by accelerating and simplifying the research and development of innovative new therapies.

Our mission

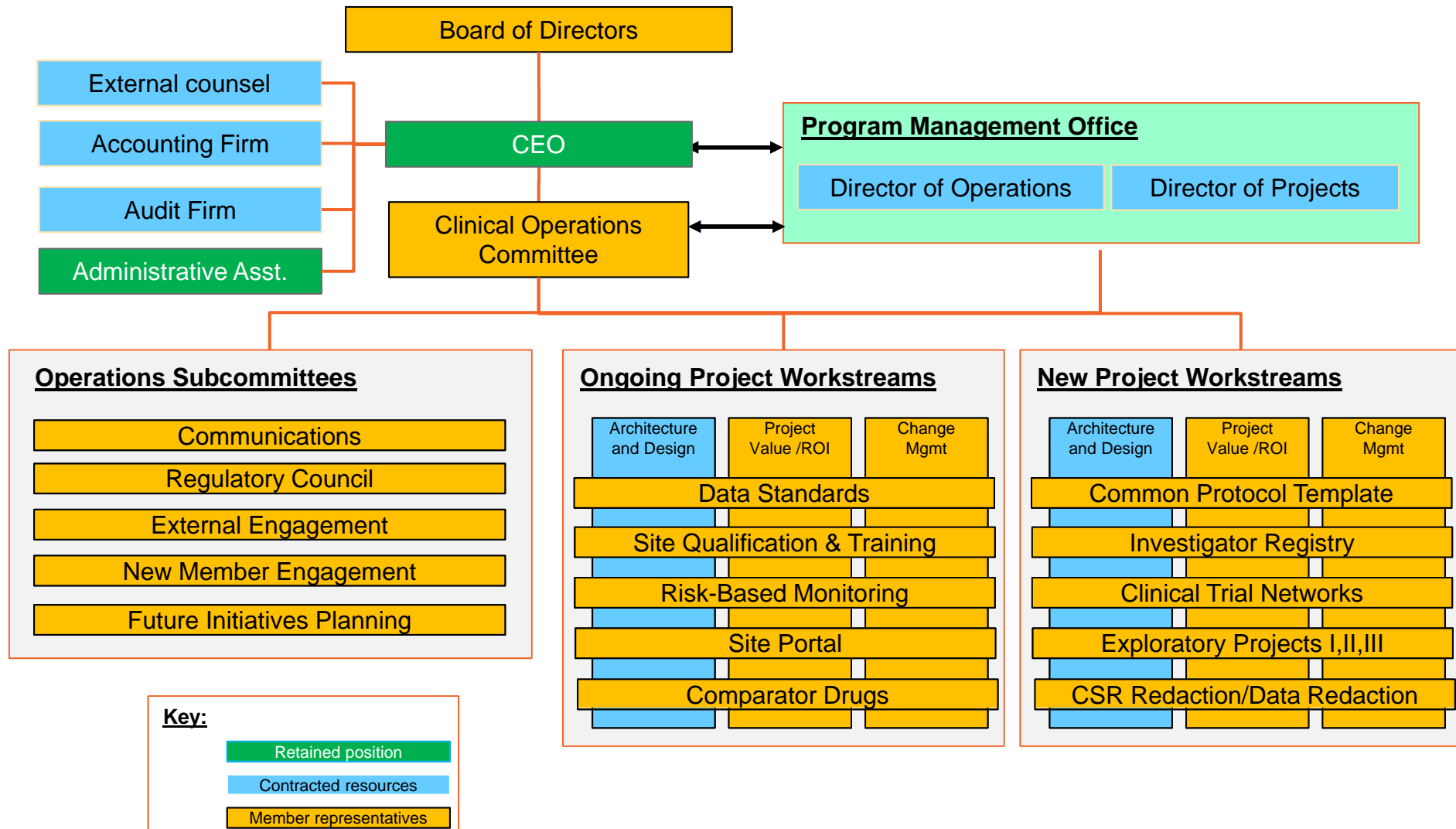
To collaborate across the global research and development community to identify, prioritize, design and implement solutions that drive the efficient, effective and high quality delivery of innovative new therapies.

Our core values

- Quality
- Transparency & Openness
- Trust & Integrity
- Collaboration
- Courage

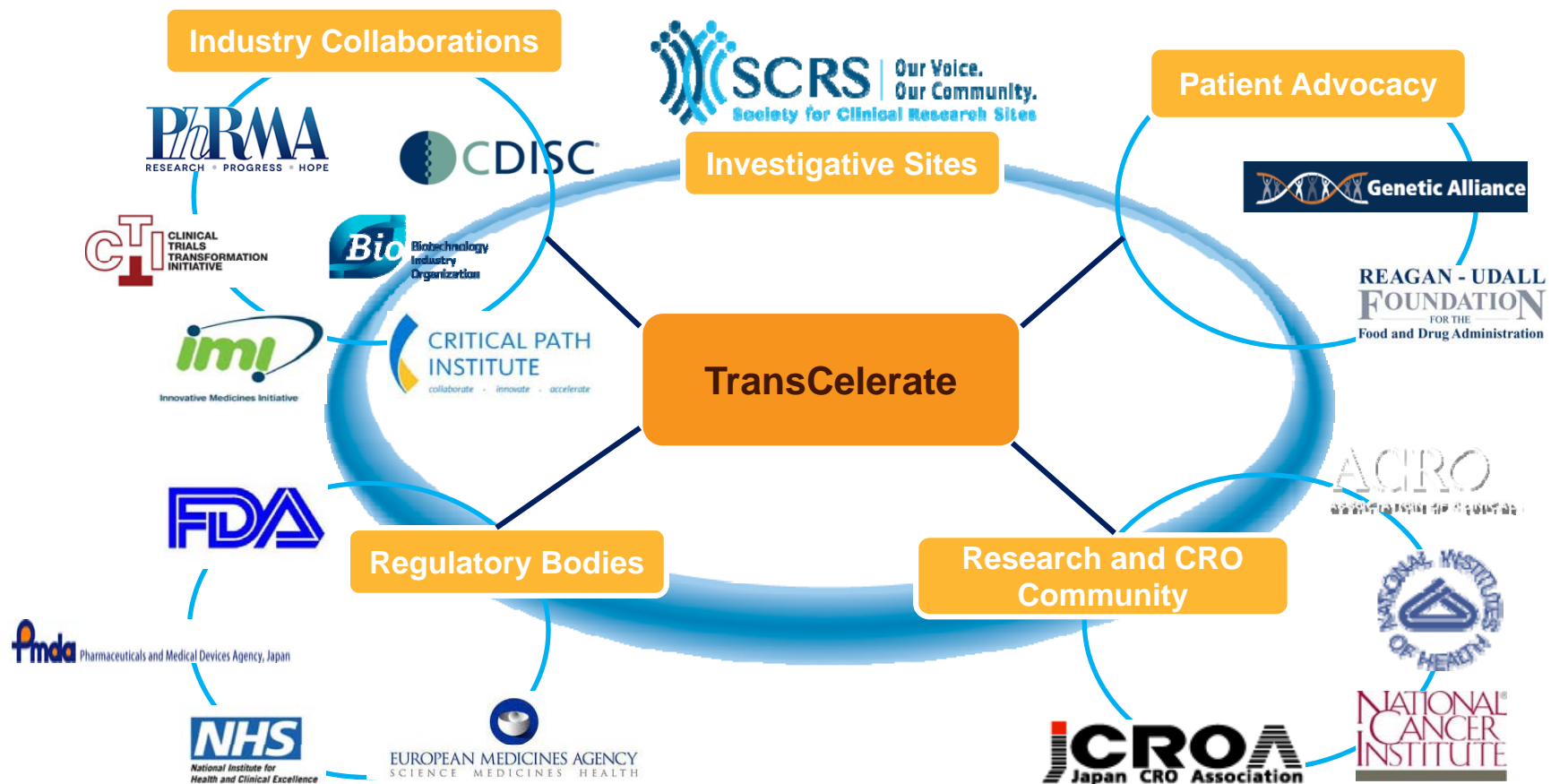
A flat organization structure has been developed to manage projects and operational activities

TransCelerate BioPharma, Inc.



An entity that engages with the wider Clinical Ecosystem

The intent is not to recreate, but partner whenever feasible

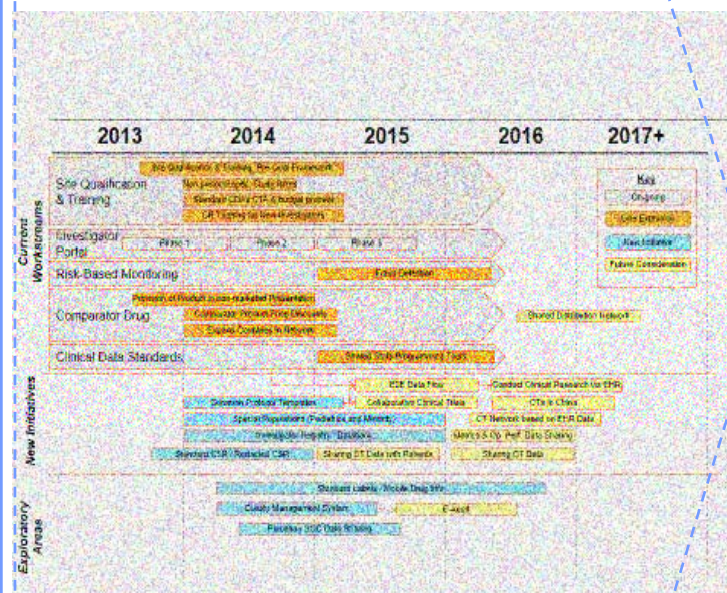


The future - a roadmap was created with the future state in mind

Current State

- Disconnected interfaces
- Manual processes and interventions
- Limited standardized solutions
- Lot of customization
- Rework
- Variable quality
- Wait time
- Missing information
- High costs
- Long cycle times
- Duplication of efforts

Roadmap



Future State

- Patient-centric clinical trial design
- End-to-end electronic data flow
- Seamless interfaces
- Automated
- Transparent
- Increased standardized solutions
- Less rework
- Quality by design
- Shorter cycle times
- Cost efficient
- Integration of Regulatory, Safety, and Medical Sciences
- Elimination of redundancies
- Conducting clinical trials together
- "Colossal Data Analytics"

Five opportunities were chosen for action based on industry readiness and ability to execute in 2013

Prioritized Near Term Opportunities

1

Standardized Approach for High-Quality, Risk-Based Monitoring

Objective: Develop Guidelines for targeted, risk based clinical trial monitoring

Benefits: Improvement in data quality and patient safety for clinical trials; reduction in effort expended on low-value activities

2

Shared Site Qualification and Training

Objective: Program established for mutual recognition of GCP training and site qualification credentials

Benefits: Realization of improved quality of clinical sites and accelerated study start-up times

3

Common Investigator Site Portal

Objective: Establish a single, intuitive interface for investigators use across the industry

Benefits: Ease of use and harmonized delivery of content and services for investigators

4

Clinical Data Standards – Efficacy (*in partnership with CDISC*)

Objective: Accelerate current efforts underway through CDISC to establish efficacy data standards

Benefits: Increased quality of clinical data and enablement of industry end-to-end data flow

5

Comparator Drugs for Clinical Trials

Objective: Establish a supply network to source comparator drugs between companies for use in clinical trials

Benefits: Enhanced patient safety due to known product source and acceleration of study timelines

Projects have the shared goals of increased quality, patient safety & accelerated development timelines

Key Accomplishments to Date

Top Accomplishments in first year

- 1 Mobilized 10 companies to create TransCelerate, 10 new members joined in 2013
- 2 Created a lean and functional infrastructure of a not for profit entity
- 3 Initiated pilots, published SHARE environment and asthma standard released
- 4 Published the criteria for mutual recognition of GCP training
- 5 Published the framework and approach for risk based monitoring
- 6 Launched pilot studies for RBM across multiple member companies and TAs
- 7 Engaged multiple organizations – CTTI, SCRS, BIO, IOM, NIH, ACRO, IMI etc
- 8 First transaction of comparator drugs among member companies initiated

Key Upcoming Milestones

- 1 Initiate clinical data standards development for additional therapeutic areas
- 2 Expand framework for streamlining site qualification beyond GCP training
- 3 Provide continued updates from learning's from RBM pilots to wider community
- 4 Launch the first release of the Shared Collaborative Technology Platform
- 5 Initiate new projects and expand scope on some existing projects

New Initiatives (1 of 2)

Three New Initiatives Will Further Support the Goals of Increased Quality, Patient Safety and Accelerated Development Timelines

Initiative	Unmet Need	Description	Benefit
Common Protocol Template	<ul style="list-style-type: none">• Format of study protocols vary from company to company making interpretation difficult for study sites, IRBs, and regulators.• Study protocols have become increasingly complex as no agreed upon standards exists driving up cost and time.• Manual set-up of clinical systems based on non-standard “manual” protocols are time consuming, costly, and prone to error	Standardize the format of clinical protocols to ease interpretation & enable downstream automation of many clinical processes. Develop industry-wide & regulator accepted standards for required protocol endpoints	<ul style="list-style-type: none">• Higher productivity of sponsors, sites, IRBs, and regulators• Less costly and time consuming clinical trials• Enabler for downstream automated setup of clinical and operational systems & disclosure activities

New Initiatives (2 of 2)

Three New Initiatives Will Further Support the Goals of Increased Quality, Patient Safety and Accelerated Development Timelines

Initiative	Unmet Need	Description	Benefit
Investigator Registry	Sponsors invest significant time and money in identifying qualified investigators and setting up study sites	To create a shared repository of investigators to support targeted patient selection	Reduced cost and time of setting-up and running clinical trials
Special Populations Clinical Trial Networks (minority & pediatrics)	<ul style="list-style-type: none">• Qualified investigators with adequate study patients are difficult to find for special populations – e.g. pediatric and minority• Studies in minorities and pediatrics are costly and lengthy• Efforts are put into repeatedly establishing a network for a single study only to disperse the network after study completion	Lead the development of global investigator networks for pediatric and minority populations including governance, investigator and patient registries, and technical infrastructure	<ul style="list-style-type: none">• Faster development of new drugs in both pediatric and minority populations• Reduced costs of pediatric and minority trials



TransCelerate
BIOPHARMA INC.

ACCELERATING THE DEVELOPMENT OF NEW MEDICINES

Muchas gracias