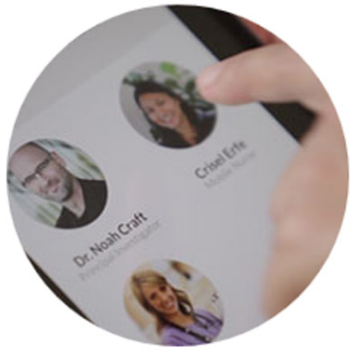
Science 37
Reimagining Clinical Research



SDCRN/SDRAN Joint Meeting

9 May 2016

Kevin Bruhn, PhD
VP, Strategic Development


37

A High-Tech, High-Touch Operating Model for Decentralized Clinical Trials

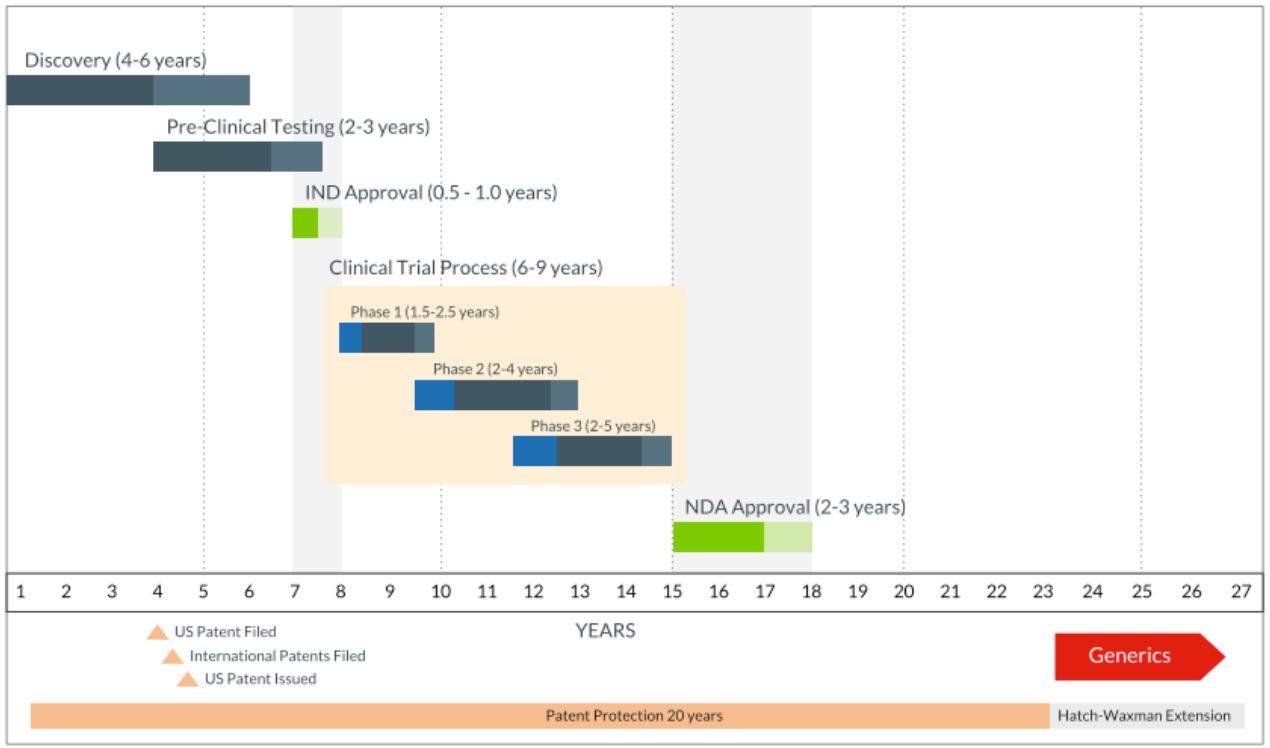
- Science 37 **transforms the clinical trial model by shifting the center for research** from traditional academic investigative sites to the patient's home and local healthcare system.

- The **S37 metasite™** model offers end-to-end clinical trial services, investigators, and bundled partnerships, which streamlines vendor oversight and eliminates multi-site activations. This approach **results in faster startup, accelerated recruitment, broader geographical access for patients, and reduced total study cost**.

- **NORA®** is our patient-centered **telemedicine/EMR/trial database platform. When coupled with S37 recruitment methodologies and screening/ consenting tools, NORA®** simplifies the process of participating in trials and connects patients safely and securely to the world's best scientists no matter where they live.

The Big Problem – 37,000 feet

Clinical trials take too long to plan and execute. This means new drug development is too expensive and prone to risk.

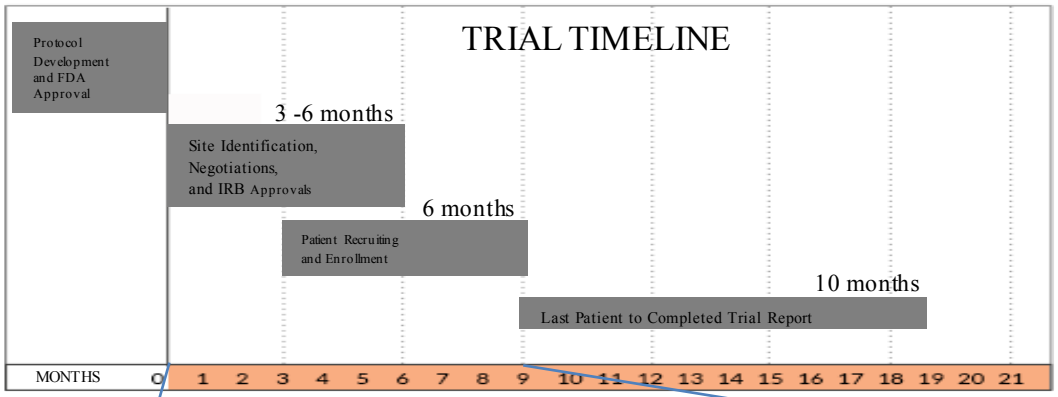


- 15-18 year development cycle.
- Cost often exceeds $1.0 B.
- Clinical Trials
  - 6-9 years to complete
  - 40% of total cost.
- Leaves sponsors with only 5-8 years to market under patent protection.

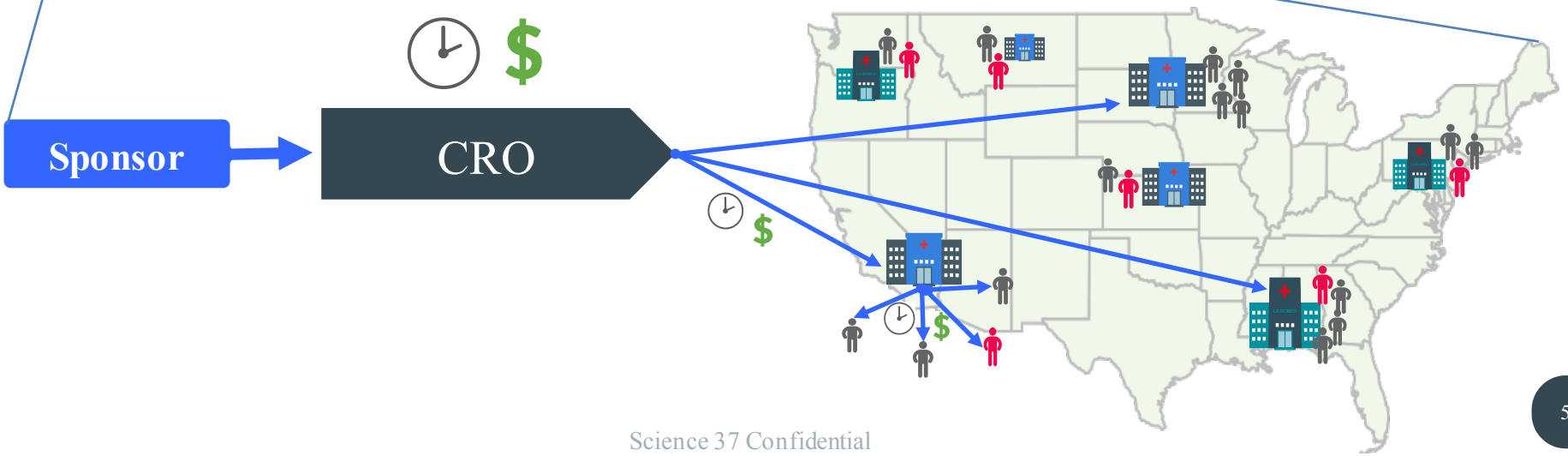
To sponsors, the value of bringing a drug to market one year earlier can exceed $250M.

The Problem – The Multi-site Bottleneck

The biggest bottle neck is the trial start-up – CRO engagement, multi-site contracting, and patient recruitment from limited geographic areas.

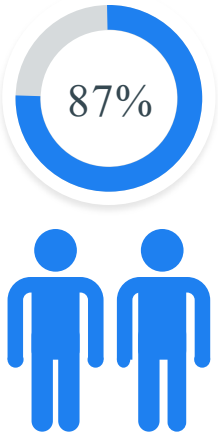


- Complete multi-site ramp up can take up to 12 months
- 48% of sites fail to meet recruitment goals
- Less than 30% of patients live near a site



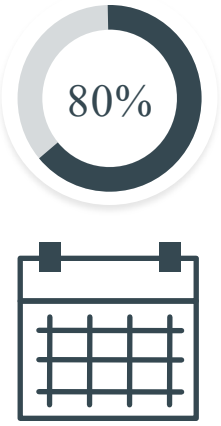
The Problem – Patient Access & Burden

Recruiting patients to sites is a major challenge and is the lengthiest step in the process. Travel time and repeated study visits severely inhibit the ability to enroll AND retain patients.



Patients Somewhat Willing or Willing to Participate*

Yet



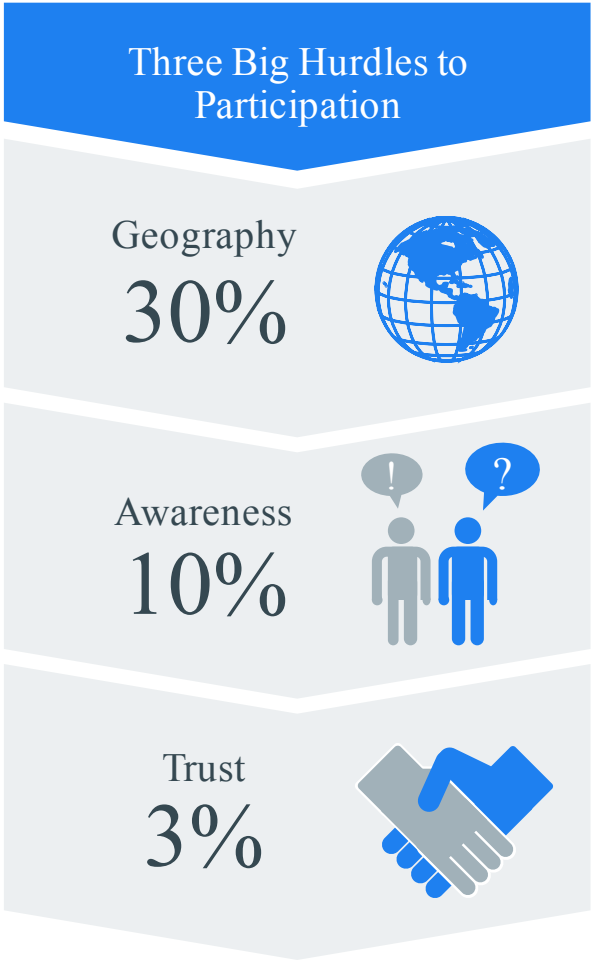
Clinical Trials Delayed Due to Enrollment**

Data Indicate that the real problem revolves around patient access to trials, not a lack of patient interest.

70% live beyond 2 hours travel time

2/3 of those are unaware

2/3 of those lack trust



* Tufts CISCRP 2013 International Survey on Public and Patient Attitudes About, and Experiences with, Clinical Research Studies ** Lamberti "State of Clinical Trials Industry", 292

Source: Roche Internal Review of Clinical Trials

The Metasite

Science 37 has created and launched a new approach to conducting clinical trials that disrupts the site-based model into a faster moving, patient-centric solution. We've created the metasite™.

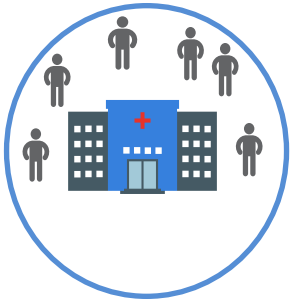
Metasites™

Our Solution – Bringing the Trial to the Patient

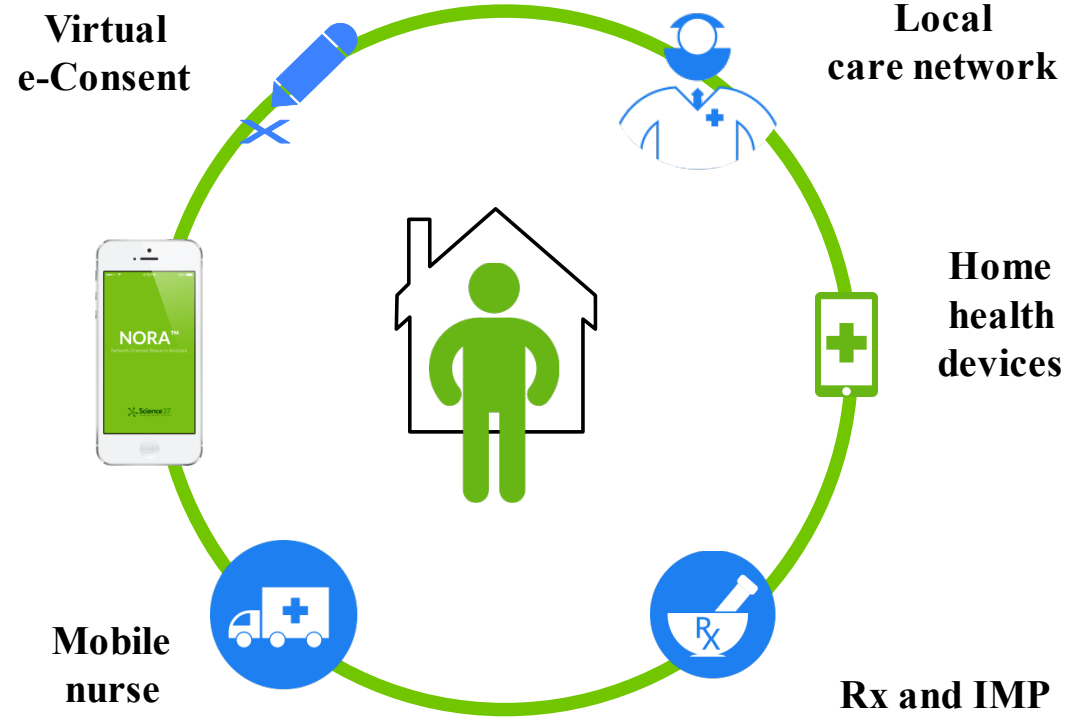
Science 37 has created and launched a new approach to conducting clinical trials that disrupts the site-based model into a faster moving, patient-centric solution. We bring the trials to the patients.

Science 37 Patient-Centric Metasite™ Model

Traditional Site Based Approach



VS



S37 Team and Experience

Telemedicine

Technology

Clinical Research

Digital Strategy

NORA®: Network Oriented Research Assistant

- **Trial-Oriented EMR**
- **Telemedicine Platform**
- **Mobile Data Collection Tool**
- **Virtual E-Consent**
- **Patient Engagement**
- **Structured Database**
- **IxRS and Trial Logistics**
- **Recruitment Platform**
- **Sponsor and Site Real-Time Dashboards**

How We Do It – NORA can transform trial logistics

Science 37 built NORA (Network Oriented Research Assistant), a first-in-class technology to connect the patient with the Physician-Investigator and S37 study team and collect all trial data from home.

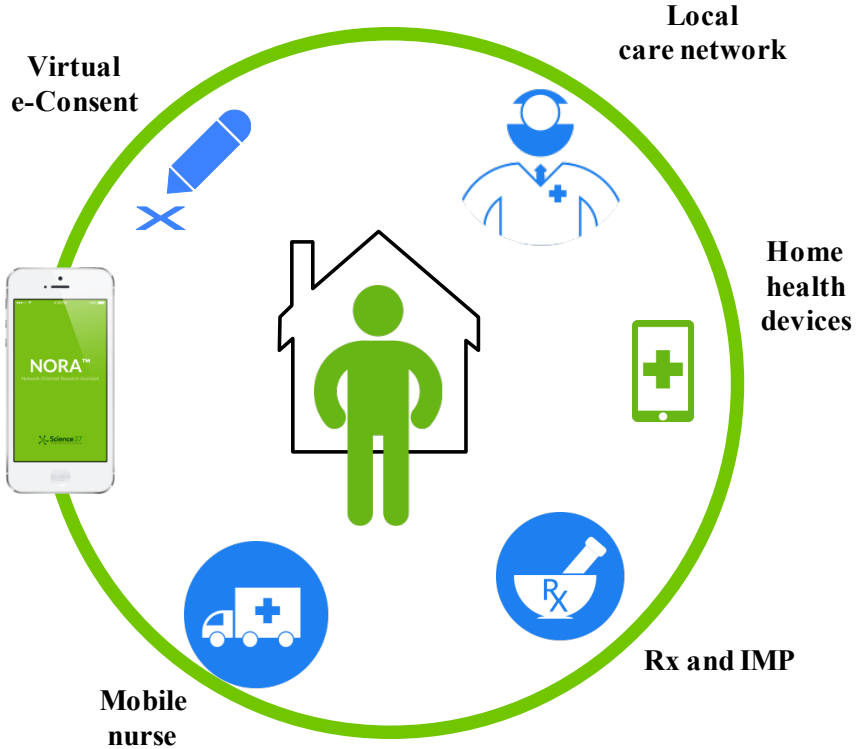
Physician-Investigator

Telemedicine-based trial visits at home

Coordination & Support

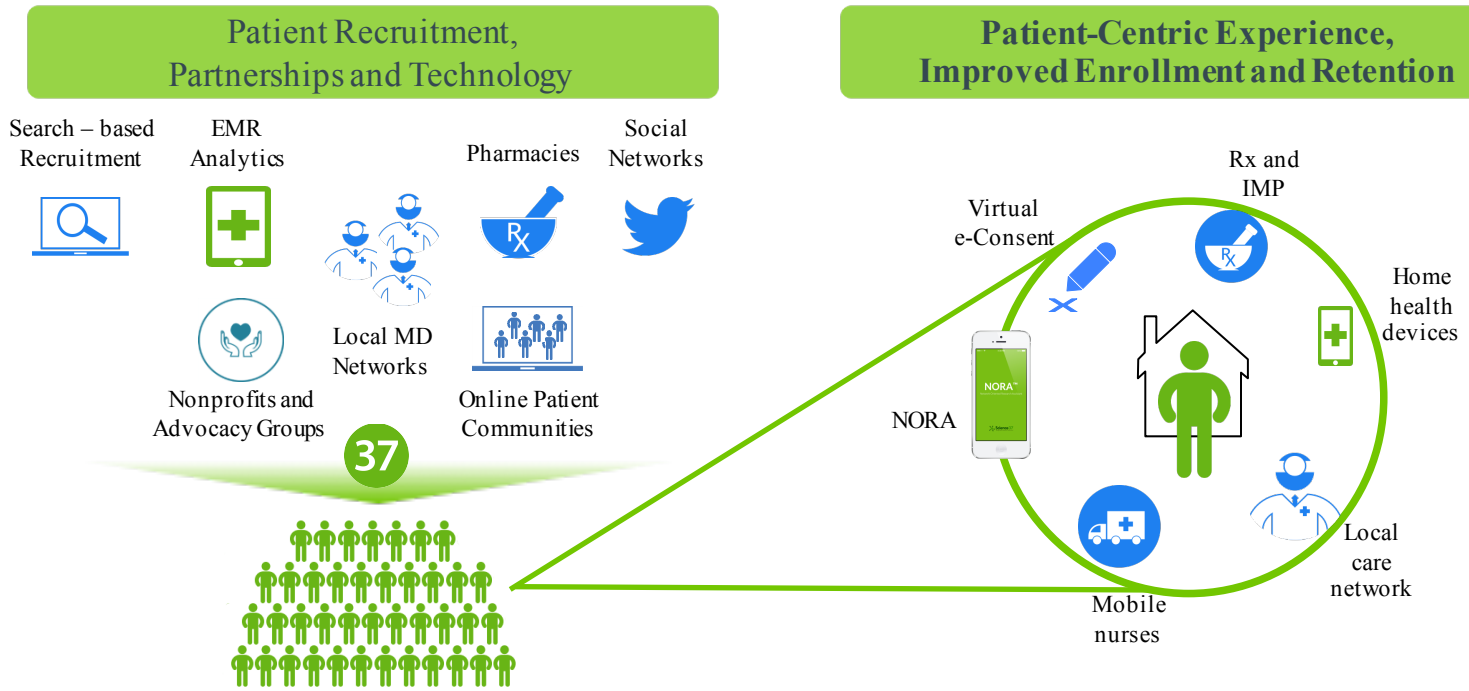
Science 37 Study Team

Patient recruiting
Electronic consent
Patient set-up and training
Local medical ecosystem
Patient calendar & coordination
Home Infusions and IMP Delivery
Mobile Nursing and trial logistics
Patient and local provider data collection



How we do it – Why now?

Recruiting and engaging patients at home and then building a clinical trial around a patient has only recently become possible through new technologies and emerging market capabilities.



- Drug retailer patient databases
- EMR and analytics partners
- Pathology and Lab networks
- Institutional Partnerships and KOLs
- Foundations & Patient Support Groups
- e-Enrollment, virtual consent from home
- Mobile Nursing and lab draws from home
- Local ecosystem of medical providers and care circles
- Family and support group involvement

What Makes Science 37 Different?

Metasite Operating Model – Supported by our proprietary Network Oriented Research Assistant (NORA) technology platform, the metasite model overcomes the normal restrictions of geography and awareness.

Design thinking – A core methodology that we leverage to develop our platform, services, and trial designs resulting in User-Centered Solutions

Adaptive recruitment – Built into our fabric to facilitate continuous learning and rapid iteration within trials. Our process is agile and collaborative with the IRB and study teams.

Radical Collaboration – A mindset and platform approach that simplifies collaboration between many vendors across the ecosystem and creates a single contract/partner to provide an end-end to solution for clinical trials.

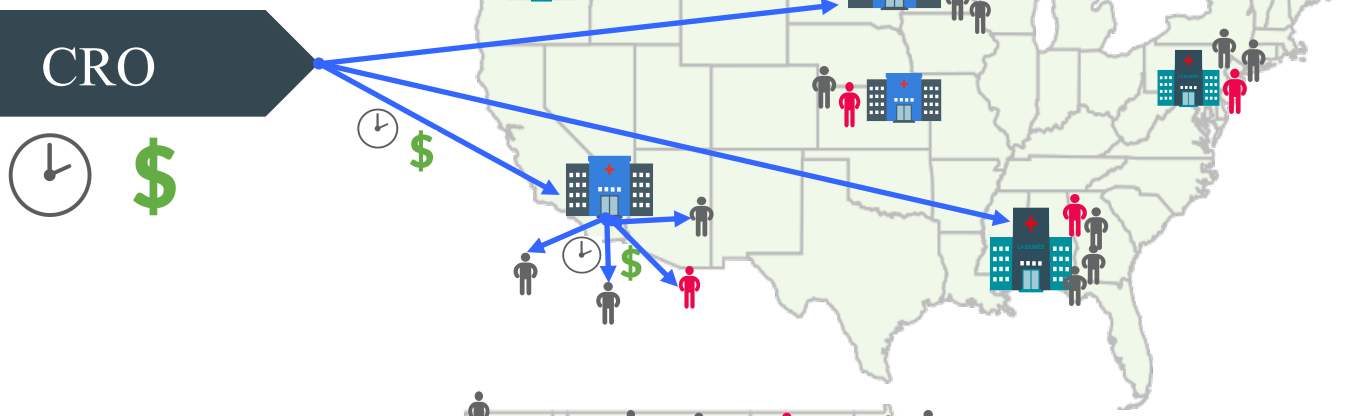
Impact of the S37 Approach

The Science 37 highly-networked approach allows engagement, recruitment, screening, and enrollment of large numbers of patients.

Current Model:
Investigator-Centric

<5% minorities

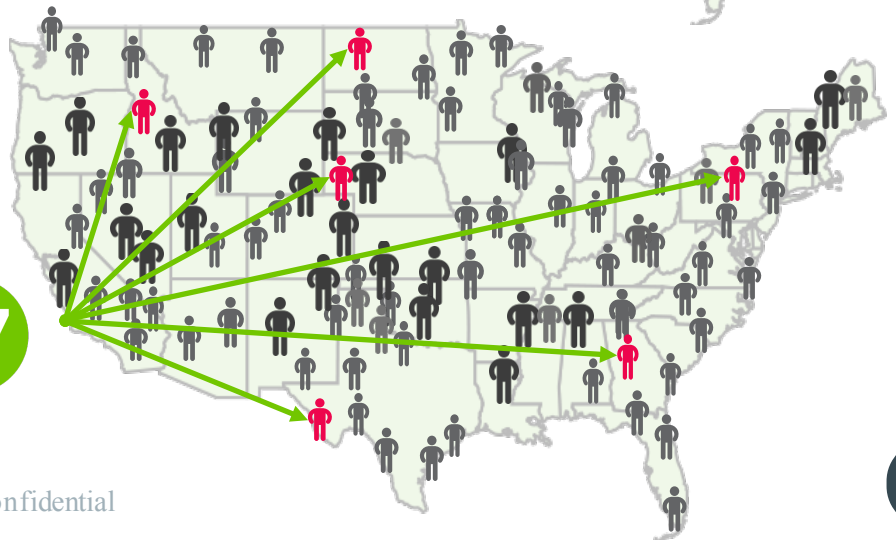
Sponsor → CRO



S37 Model:
Patient-Centric

30-40% minorities

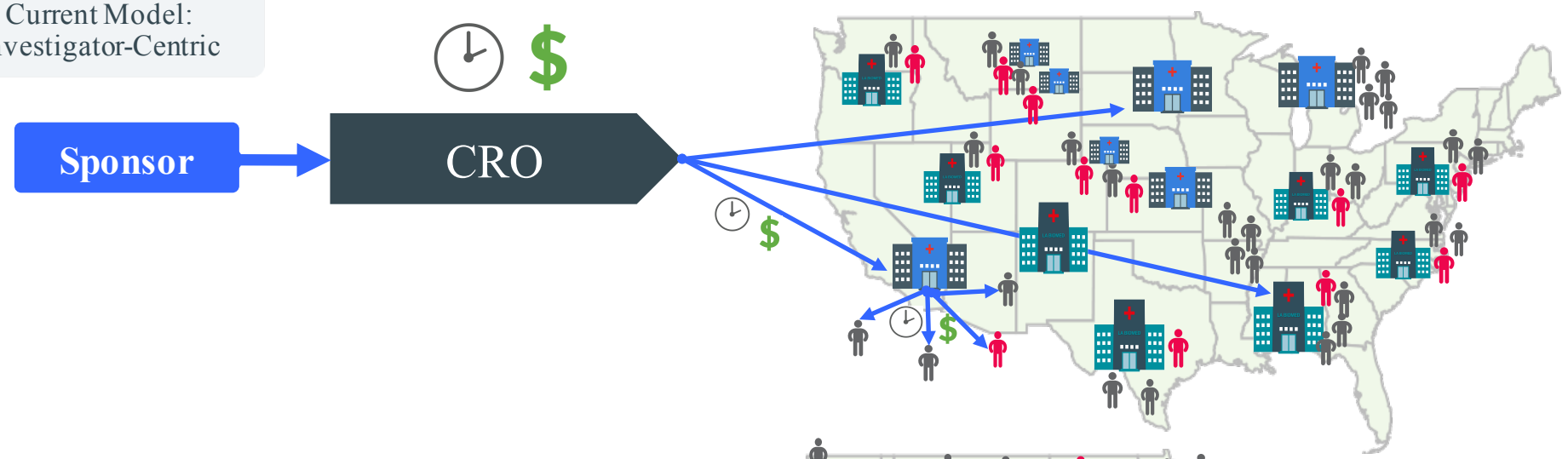
Sponsor → Science 37



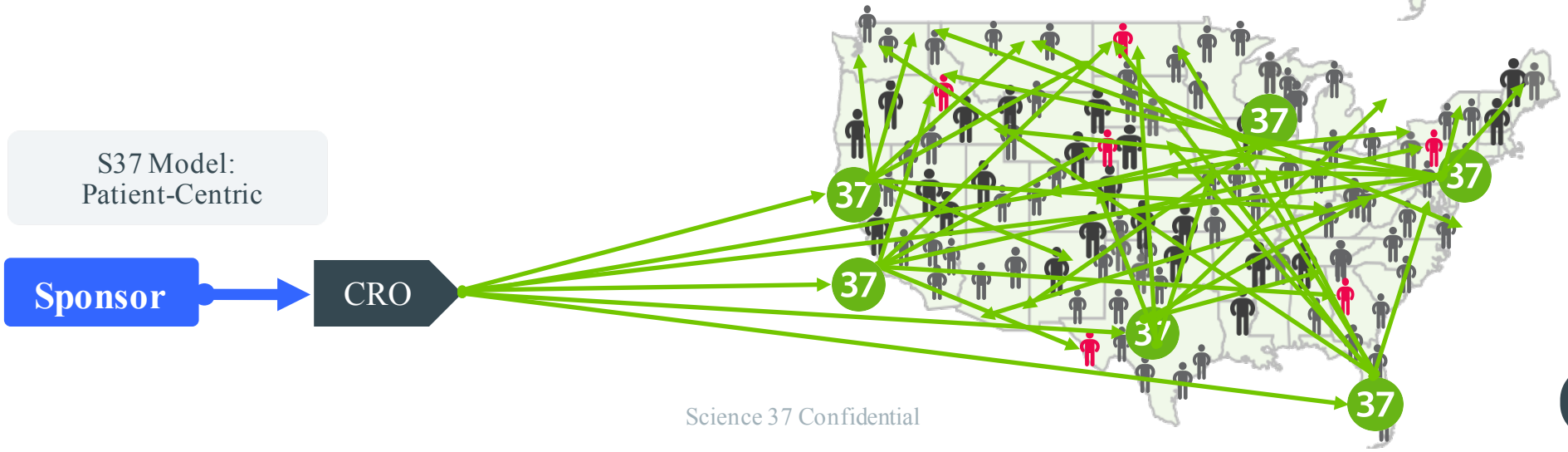
Impact of the S37 Approach

The Science 37 highly-networked approach can be partnered with existing CROs to enable multiple metasites to function for global trials.

Current Model:
Investigator-Centric

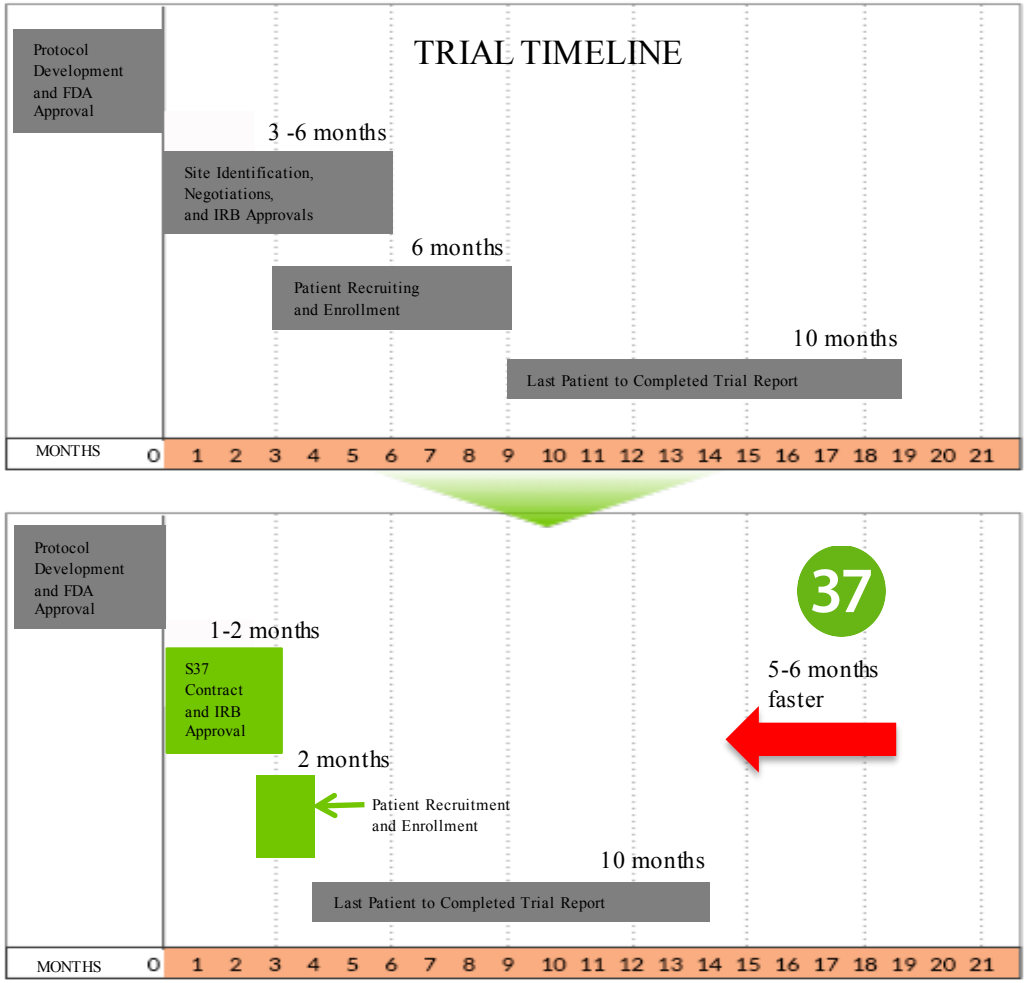


S37 Model:
Patient-Centric



Our Value Proposition

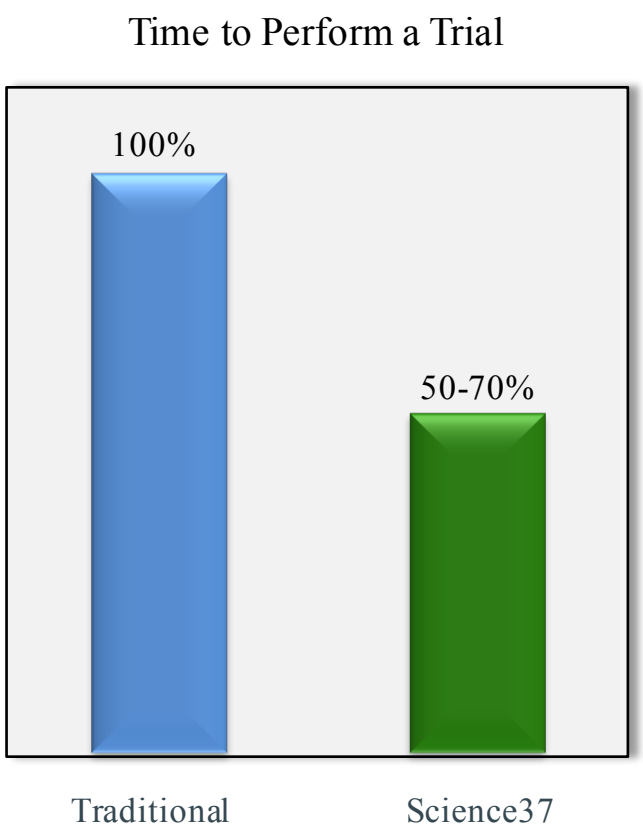
The Science 37 patient-centric trial eliminates the time to set-up multiple sites, engages a faster patient enrollment process and can reduce the time required for a typical trial by at least 30%.



- Phase II Studies: 25-30% faster
- Phase III Studies: 40-50% faster
- Overall time saved in drug life-cycle: 1-2 years
- Value of 1 year in the market can exceed $250M

Our Value Proposition

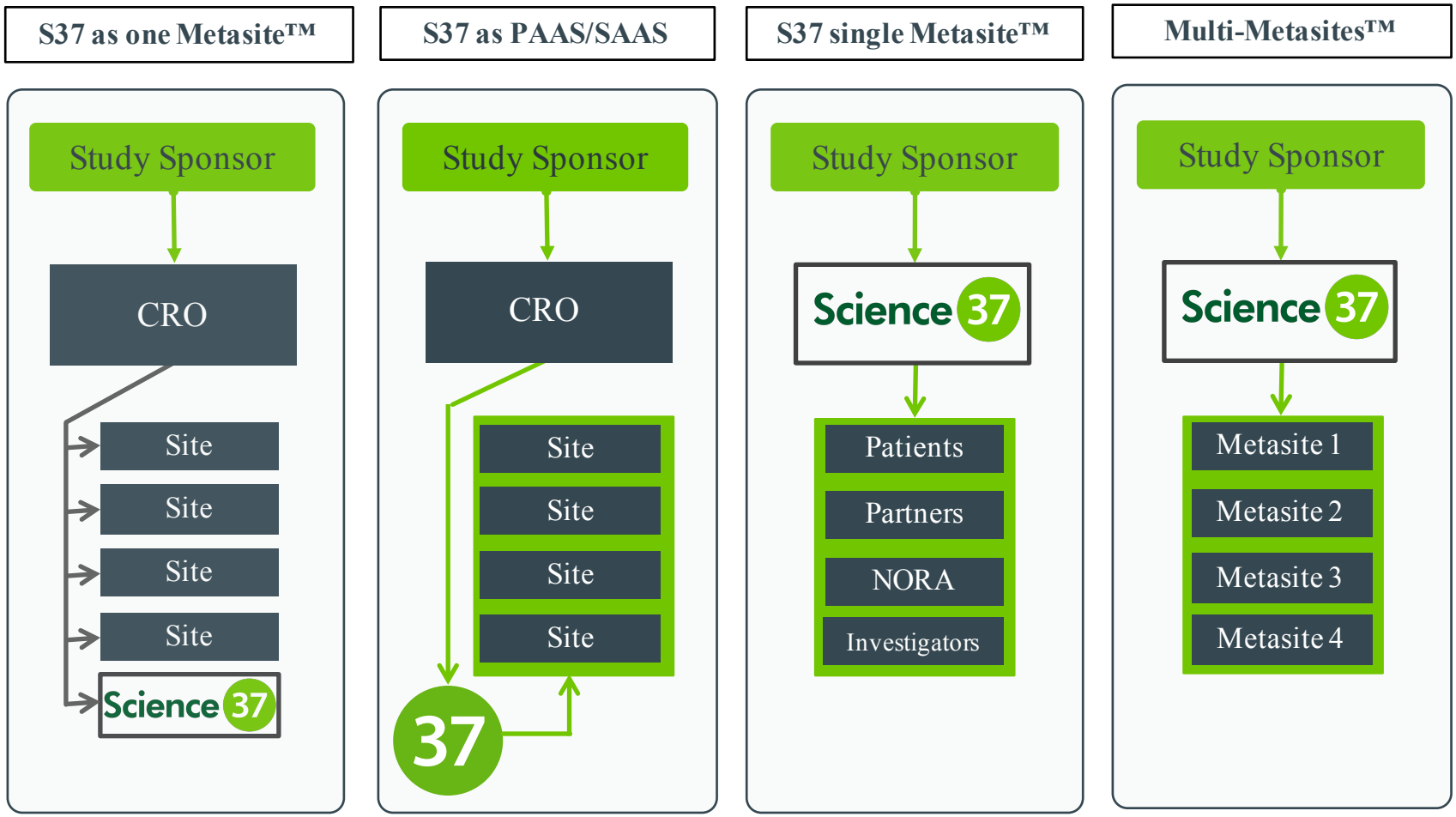
Science 37 contracts faster, recruits patients no matter where they live, retains patients, reduces set-up time, and leverages network efficiencies to conduct faster, cheaper, and higher quality clinical trials.



- Single site set-up, contracting, and IRB process
- Faster patient recruitment and screening
- Faster time to execute eliminates study overhead
- Single site to monitor eliminates inconsistency in study procedures and improves data
- Ability to remotely engage best talent (PIs and KOLs) to conduct study
- Availability of more frequent and consistent patient-centric outcomes technology
- Enables risk-based and remote monitoring

Sponsor/Partner Engagement Options

Science 37 has a flexible engagement model and can easily fit into current and new studies. Science 37 can operationalize the DCT model under four general schemes: 1) as one metasite™ in a larger multi-site trial; 2) as a PaaS/SaaS offering to sponsors, institutions, or CROs to create multiple metasites™ for larger trials; 3) as a single metasite™ contract for the entire trial; or 4) supporting multiple metasites™ directly in large trials.



Our Mission

The mission of Science 37 is to transform the clinical research process – to accelerate biomedical discovery and reduce clinical trial costs by shifting the center for research from traditional academic investigative sites to the patient's home and local healthcare system.

We use patient-centered technology to simplify the process of participating in trials and connect patients safely and securely to the world's best scientists no matter where they live.

Empowered patients lead to better, faster, less expensive people-powered science.

Science 37

Contact:

Noah Craft, MD, PhD
Co-founder and CEO
noah@science37.com

Kevin Bruhn, PhD
VP, Strategic Development
kevin@science37.com