**Domain:** Healthcare

The opioid and heroin epidemic touches nearly every American. Some are prescribed opioids for pain relief, some are battling opioid dependency and addiction, while others have lost a loved one to an overdose. Two decades ago, when opioids were mainly prescribed as end-of-life cancer drugs, most Americans felt little connection to the problem of opioid abuse. Despite having less than 5 percent of the world’s population, the US consumes about 80 percent of the global opioid supply. The number of prescriptions for opioids has gone from 76 million in 1991 to nearly 207 million in 2013. In 2014, there were approximately one-and-a-half times more drug overdose deaths than deaths from motor vehicle crashes. We are creating ecosystem application that would give us insights into the root cause of the problem and help us find innovative ways to fight this evil crisis.

**Scope (Key Stakeholders):**

* Hospital
  1. Doctors can diagnose the patient and prescribe opioids if needed
  2. Identify a pattern of opioid abuse and can recommend a patient to community rehab provider
* Pharmacy
  1. Order opioids from pharma companies
  2. Sell opioids based on demand
  3. Keep a track of purchase history
* Insurers
  1. Usage and treatment patterns of opioids
* Pharma companies
  1. Supply opioids
  2. Keep a track of opioids supplied across various organizations
* Community Rehabilitation providers
  1. Accept patients addicted to opioids
  2. Collaborate with hospitals to fight crisis
* Criminal Justice Department
  1. Find pharmacies who are selling the opioids illegally
  2. Find doctors who prescribe opioids despite medical history of abuse
* Public Health Organization (Ecosystem)
  1. Collaborate with other organizations to find patients who are abusing opioids
  2. Conduct awareness programs

**Conclusion:**

An ecosystem approach could be the best hope in the battle against opioid addiction. From engaging new partners and aligning action across the ecosystem, to using a portfolio of interventions, driving innovation, and using markets to support sustainable solutions, the ecosystem is likely to generate a powerful response. This collaborative approach inspires all stakeholders to act as a single, integrated community and point the way toward powerful new solutions.