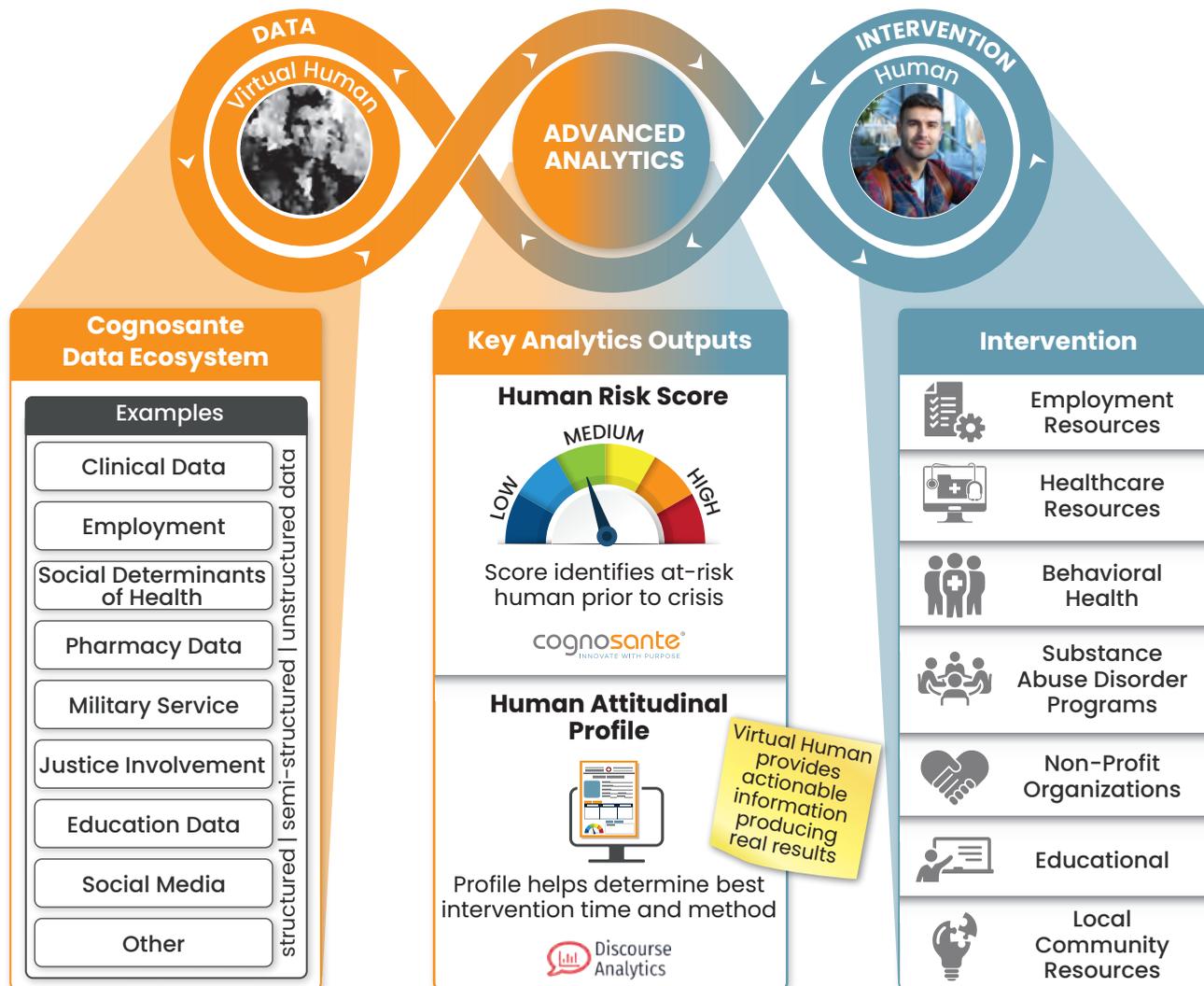


# Data Driven Approach to Suicide Prevention

Suicide is one of the leading causes of death in the United States. According to the Centers for Disease Control and Prevention, suicide rates were 30% higher in 2020 than in 2000. To respond, public health organizations need a comprehensive, data-driven approach that harnesses Federal, State, Local or Tribal resources to identify individuals at risk of suicide before they are in crisis and apply appropriate prevention strategies.

## The Solution

Cognosante's scalable and interoperable analytics approach uses digital life data and early warning systems to enhance real-time prevention and responsive interventions. We leverage data and analytics techniques including Artificial Intelligence (AI), Machine Learning (ML), and natural language processing to identify patterns, unknown signals, and unexpected relationships among variables that increase an individual's risk for suicidal behavior. First developed for Veterans, this approach can be tailored to any population at risk of suicide, including college students, young adults, individuals with substance abuse disorders, or those experiencing financial hardship.



# Our Solution Enables Suicide Prevention by Achieving Two Key Objectives

1

## Creates a Risk Score that Identifies At-Risk Individuals Prior to Crisis

Our proven Data Ecosystem Framework allows us to integrate data from numerous sources to create a digital representation of an individual or group based on medical, economic, and social determinants of health data. Using advanced analytics, we derive a personal risk score for the representative individual. The risk score is available through secure data interface to approved local intervention programs such as case managers or public health/university resources, so that trained professionals can engage with at-risk individuals before they are in crisis.

2

## Identifies Best Intervention Times and Methods for Each Individual

Our Teammate, Discourse Analytics, creates an Attitudinal Profile to determine an optimal approach and engagement methodology for each representative person. The Attitudinal Profile provides guidance to front line intervention personnel to help increase the likelihood of successfully engaging and communicating with each at-risk person.

## Example Profile for Intervention

We map behavior to attitudes to prescribe the nudge that drives a person to take action, without using personally identifiable information. The figure is a visual representation of an individual's profile. The position and width of the red band across each dimension shows how closely the person aligns to a particular profile characteristic. For this profile, local resource teams know to focus on the person's willingness to relate and engage with others (Social Intelligence) and their desire to improve oneself (Growth Mindset). The result is a personalized and more effective engagement and support process.



[Learn more](#) about how we're empowering organizations make sense of data to make informed decisions.



## About Cognosante

Cognosante is a mission-driven technology company delivering innovative and transformative solutions that improve the health and safety of Americans. With more than a decade of experience working with state and Federal government agencies, we aim to expand access to care, improve care delivery, deliver solutions addressing social determinants of health and ensure safety and security through multi-faceted technology and customer experience (CX) solutions. Our broad range of capabilities includes enterprise IT and cloud, data science, telehealth, interoperability, public health surveillance, clinical performance, eligibility and enrollment and consumer engagement.