# CyberServe® Population Health

High Impact Analytics for next Generation Value Based Healthcare

The Healthcare industry is making continuous efforts towards achieving the goals of improving population health, enhancing patient experience and reducing health care cost. There is a continual demand for Healthcare services to be delivered smarter and more efficiently.

The ability to model, predict and manage patient outcomes will be the #1 priority of providers and payers as the industry migrates to fully *value based* models of care. CyberServe offers the right platform and tools to accelerate the provider's adoption of the new value care models by providing accurate, real time visibility of the operating metrics on a highly intuitive interface.

A data driven framework helps to address critical areas such as rising health care costs, clinical effectiveness, availability of right services and access to healthcare facilities. This requires aggregating and analyzing massive amounts of un-utilized health record systems available within and outside hospitals and health systems. CyberServe makes it easy to model multiple descriptive as well as predictive scenarios on the integrated health data making the interpretation quick & effective.
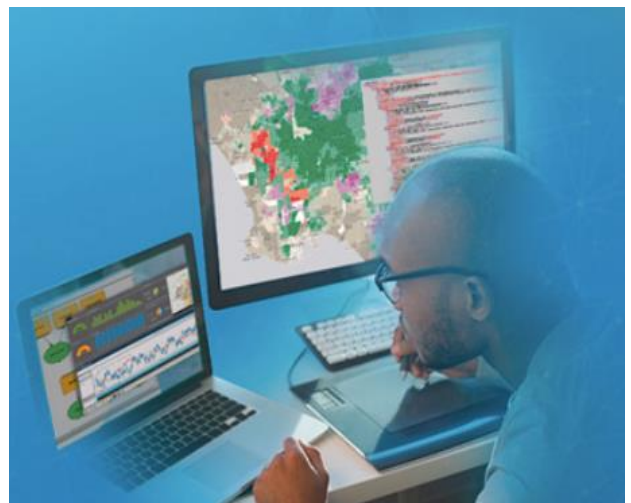
# Why CyberServe® Population Health?

CyberServe® is the only platform that spatially enables highly disparate Healthcare data and provides specialized, location based intelligence for executive decision making targeted towards Population Health.

Built on an ultra high performance SAP HANA platform, CyberServe delivers high compute intensive spatial analysis on fingertips within seconds, as opposed to days. CyberServe enables healthcare provider organization to perform real time predictive modeling and outcome analysis of millions of records that helps to make critical decisions such as defining the network capacity and distribution of provider entities to deliver to the commitments made to the community.

An average person spends less than 2 hrs. with a Physician a year. Time outside the hospital and a ton of data just waiting to be exploited even before he makes his hospital visit. With HANA and CyberServe, providers can analyze millions of person records within the context of the larger population and demographics in seconds – driving real time decisions considering factors such as where he is coming from? What facilities does he have access to? Are there any disease outbreaks in his locality?

CyberServe offers following capabilities to Healthcare customers:

- Result focused analytics to facilitate better management and patient outcomes
- Adopt Value based Healthcare models with better visibility of capacity and risks
- Rapidly find gaps in healthcare delivery and target 100% efficiency on a continuous basis
- Evaluation of critical performance parameters on a single dashboard
- Scalability to process huge volume, variety and velocity of health data
- HIPAA compliant platform that addresses all regulatory requirements

**CyberServe**
**POPULATION HEALTH**

Population Health Management is the aggregation of patient data across multiple health information technology resources, the analysis of that data into a single, actionable patient record, and the actions through which care providers can improve both clinical and financial outcomes.

CyberServe supports evaluation of critical performance parameters from an outside-in view; and gain insights by comparing with market data, which is one of the indicators of effective healthcare service delivery.

**CyberServe analytics is unique in the way it it delivers immediate value at each stage of their journey towards value based leadership.**
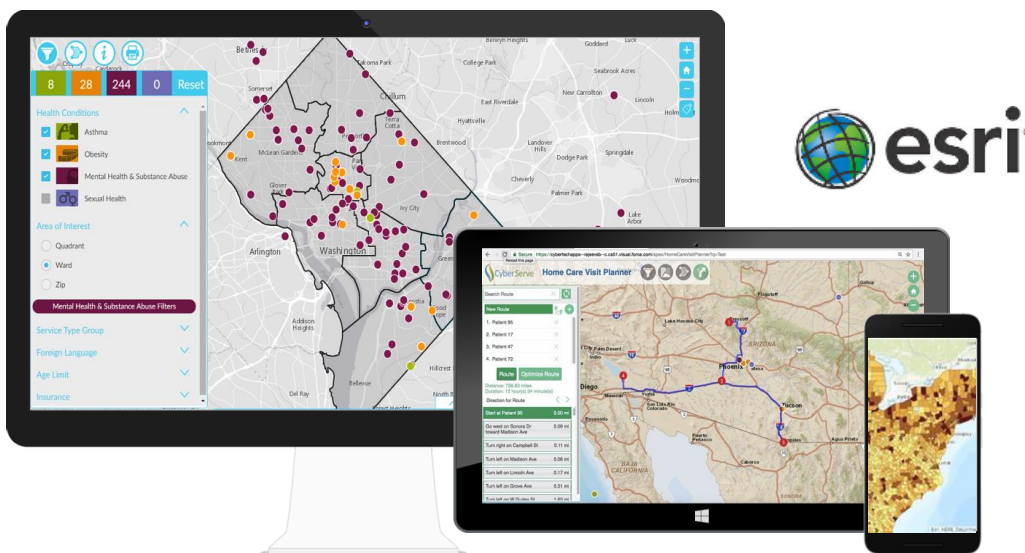- **Performing due diligence and risk profiling of value based contract**
- **Once accepted, aiding in effective execution of the contract commitments**

CyberServe allows healthcare providers and decision makers understand the risks better, realize significant cost savings and improve population health.

# Powerful Spatial Visualization with Esri

Esri is the world's leading supplier of geographic information system (GIS) software. It provides geospatial solutions for creating and organizing geographic information, so that you can explore data and share location-based insights.

It allows users to access unified spatial and business data to create informative and intuitive spatial visualizations. CyberServe leverage Esri technologies to visualize where things are happening and how information is connected.

# Accelerated Data Processing with SAP HANA

SAP HANA is an in-memory data platform that lets you accelerate business processes, deliver more business intelligence and simplify your IT environment.

CyberServe delivers real-time analytics by combining data across all the systems through a smart data aggregation mechanism, bring them into high performance in-memory HANA environment and performing advanced analytics for driving targeted business outcomes.

With CyberServe and SAP HANA, business data is processed for instant access and accelerates spatial processing. SAP HANA's in-memory processing empowers better location sensitive decisions with accuracy and speed.



SAP HANA In-memory Performance Changes :Analysis that took weeks can be done in minutes
* Based on estimated figures for a benchmark provider serving 1M+ Population, with a group of 5+ partners in ACO network

## FIND OUT MORE
The confluence of new care models and technology are enabling data scientists to propose new methods & processes to improve outcomes at the patient and population level.

CyberServe, leveraging the potential of SAP HANA helps Healthcare providers perform complex analytics on space and time to uncover new insights, optimize service delivery and derive productive results - eventually leading to a much higher level of healthcare experience for the patients.

Find out how you can understand your data better, what's happening now and where, and much more by contacting a CyberTech representative or visiting us online at cybertech.com

## RESOURCES
Learn more about:

CyberServe® Population Health
http://www.cyberserve.us

# CyberServe Scenarios
## Indicative set for rapid deployment

### Disease Control and Planning
- Proactive disease control measures by spatial analysis of patient distribution, re-admission rates, and admission patterns

### Community Engagement Management
- Geospatially plan and manage Community Engagement initiatives
- Monitor program progress in real time and provide health services

### Provider adequacy analysis
- Real time analytics of coverage commitments and network capacity any time
- Calculate, display and share provider coverage statistics for decision making

### Claims processing effectiveness through Geospatial Planning
- Improve claims addressing & planning process by analyzing demographic information for a specific market boundary

### Optimal Route Planning for On-field Healthcare practitioners
- Enable healthcare professionals to plan the visits to the patient locations optimizing time and distance covered

### HealthCare Executive Dashboard / Digital Boardroom
- Enable Healthcare executives to spatially analyze various performance parameters and KPIs for quick and effective decision making

### Market and Competition benchmarking
- Helps healthcare providers to perform geospatial assessment of critical parameters of health services for the coverage area and benchmark with market standards and competition for effective decision making

### Healthcare Asset Management
- Spatial visualization of status and management of critical assets for a Healthcare system across the network, do real time response and plan for predictive maintenance

### Partner Management and Planning
- Enables healthcare providers to plan for partner locations and coverage areas to optimize the level of health services delivery