

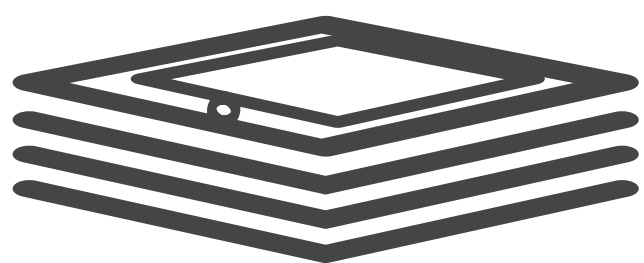
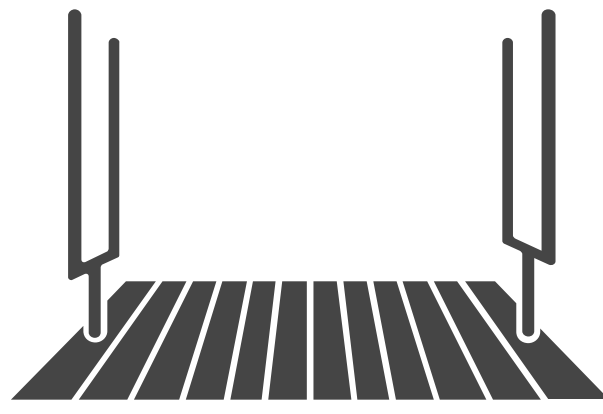
exploring how
**intervention
engine**
uses existing
healthcare data
to revolutionize
population
patient healthcare



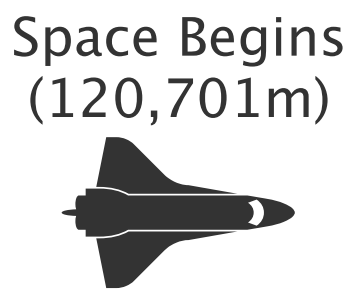
Intervention Engine **provides clinicians with real-time population-driven tools** to improve patient care, interventions, and outcomes.

Intervention Engine **leverages the vastly increasing amount of U.S. healthcare data** collected, improving the quality of patient care.

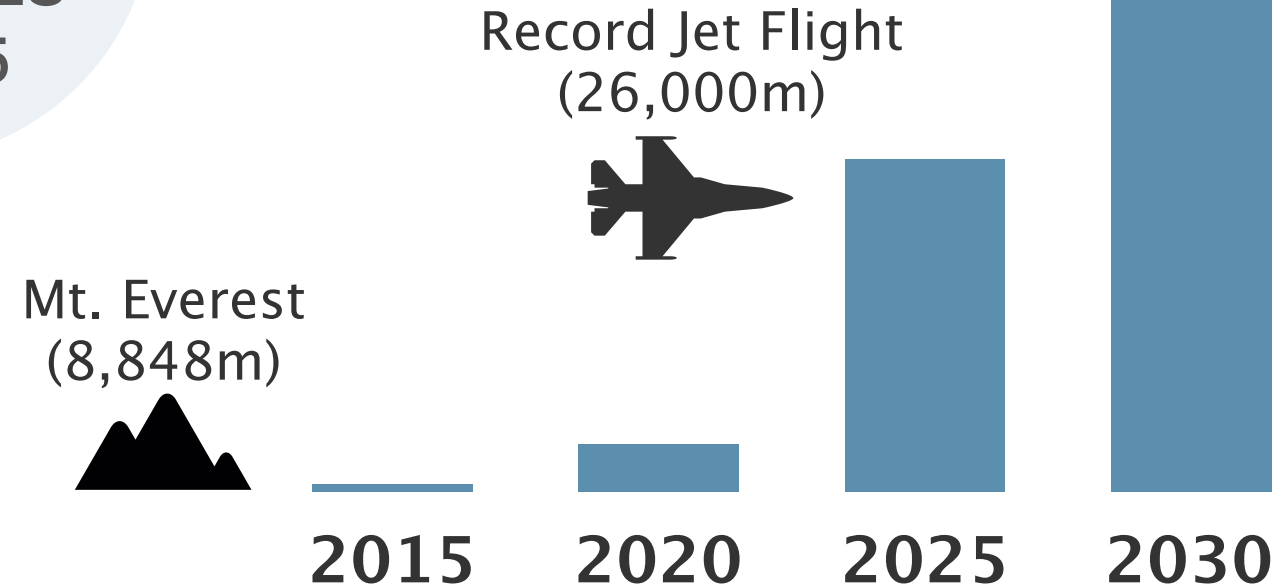
How much healthcare
data is there in the U.S.?



Imagine a stack of iPad Air tablets spread across a football field. If each iPad holds 32 GB of U.S. health data, by 2030, the football field-sized stack of iPads would reach well into space.



335
EXOBYTES
IN 2015



Source: Assumes 48% annual increase, EMC and research firm IDC report.

How can we put
this archive of data to use?



Electronic **Clinical Quality Measures (CQMs)** were introduced as part of meaningful use requirements for the Medicare and Medicaid EHR Incentive Programs to **measure the quality of patient care**.

Eligible hospitals and healthcare professionals are incentivized to report a core set of CQMs to the federal government. These CQMs **focus on high-priority health conditions and best-practices for care delivery**.

Source: Centers for Medicare & Medicaid Services (CMS)



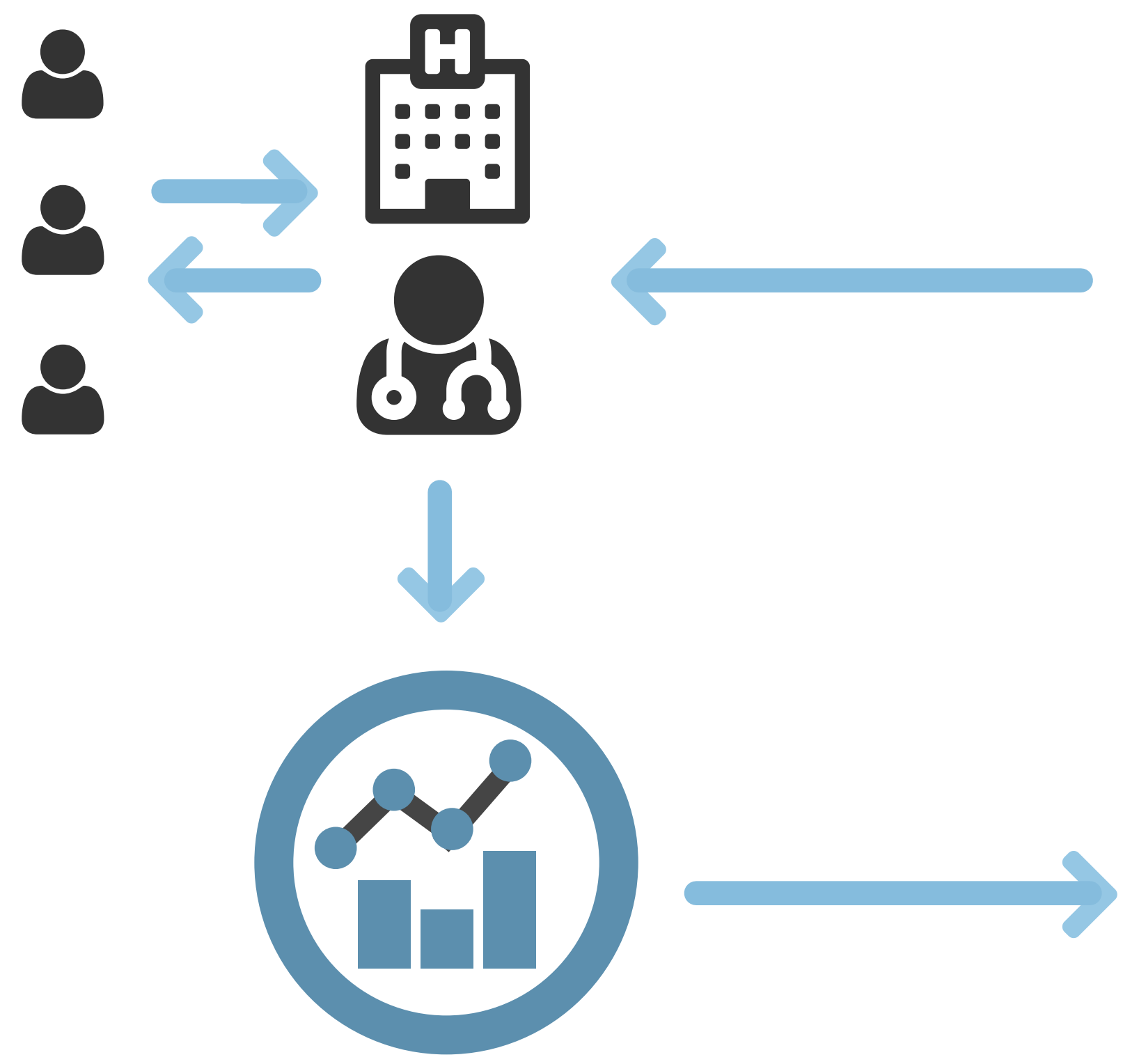
BENEFITS

- ✓ Encourages healthcare providers to focus on **quality over quantity of care**.
- ✓ Helps to ensure that our health care system is delivering **effective, safe, efficient, equitable, and timely care**.

DRAWBACKS

- ✗ Highly **complex** and extremely **selective** measures only apply to specific **limited populations**.
- ✗ Measures are **predetermined** and don't necessarily measure **patient outcomes**.
- ✗ Insights gained from these measures have **no direct feedback loop back to the providers and patients**.

interventionengine

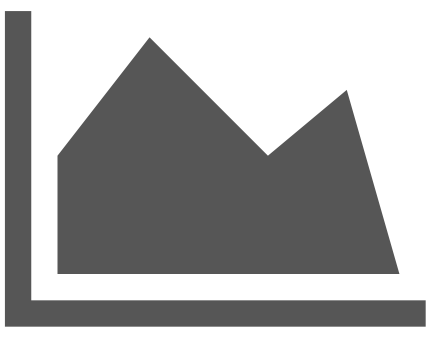


Bridges the gap between patient data and the patient by providing real-time data-supported tools to positively impact population health.

How can
we do better?

Let providers **create their own measurements and risk assessment models** from their own data.

How can
Intervention Engine improve
population patient healthcare?

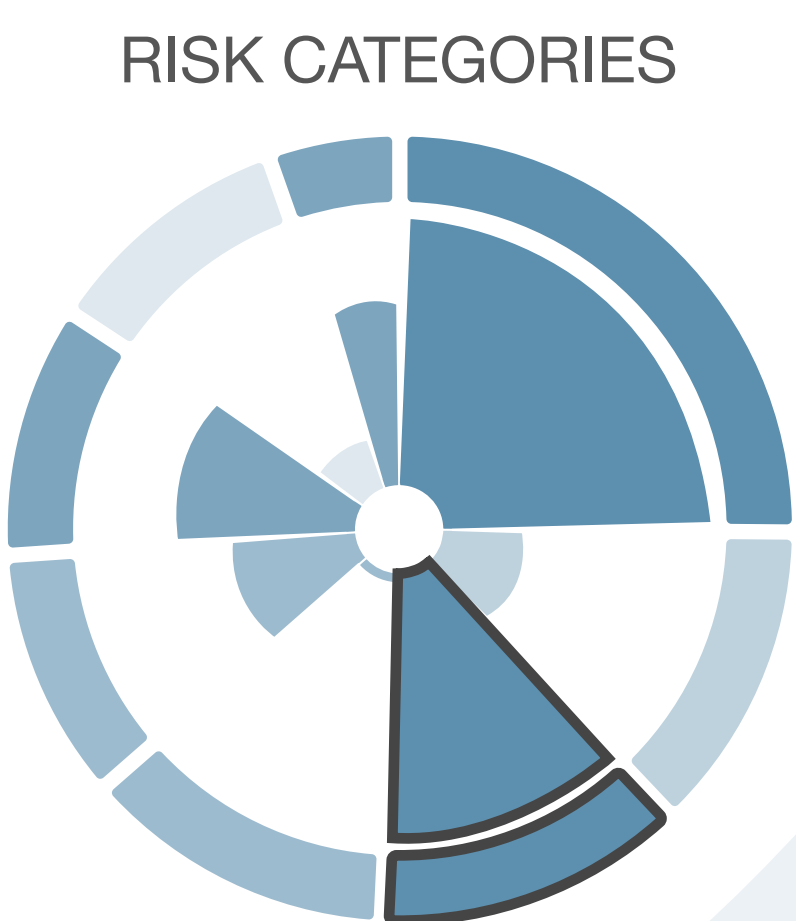
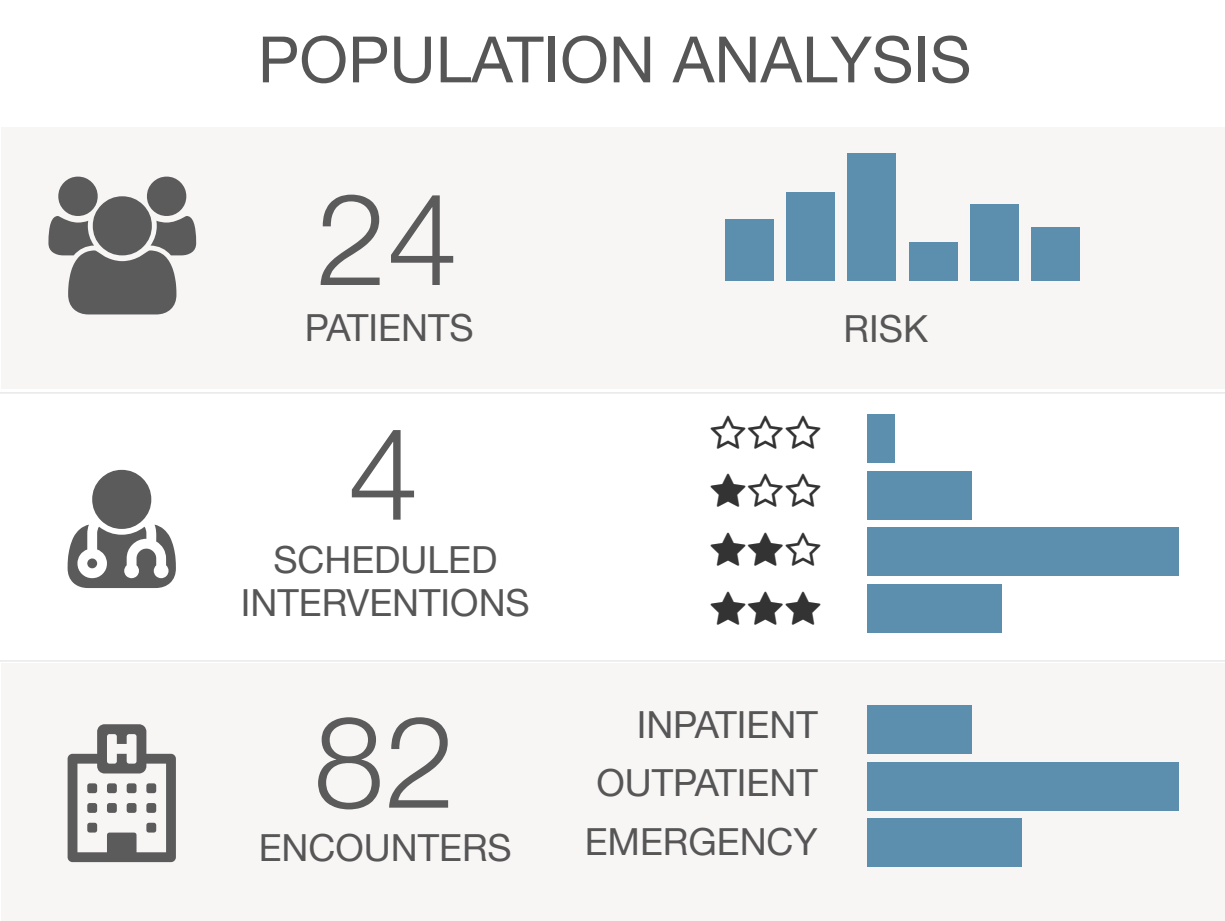


**Provider-Built
Population Measures**

**Data-Supported
Risk Assessment Models**

Analyzing populations of patients specific to a provider allows more informed clinical decisions and interventions which lead to better directed population health.

Providing risk assessment tools supported by patient health data allows providers to better track and treat their populations of patients.



[Intervention Engine] will allow the individual caregiver to efficiently use evidence-based medicine to improve care at reduced cost.

~ Dr. Dana Frank, Chair, Department of Medicine MedStar Good Samaritan Hospital / Union Memorial Hospital



Some might think of Intervention Engine as a tool for “the Health System of Tomorrow.” It is not. It is a game changer. It is a tool that we all needed yesterday. We can’t afford to fall any further behind in caring for our patients on the population level.

~ Dr. Joey Nichols, Director of Scholarship and Discovery - MedStar

Learn more at
www.interventionengine.org
an open source project