



# Demo



Try it yourself!

- User: Text your zip code to 618-643-9906
- Provider: Triage user(s) at <http://159.89.236.70/>

<https://www.youtube.com/watch?v=1f80zagRxHs&feature=youtu.be>

COVID 19

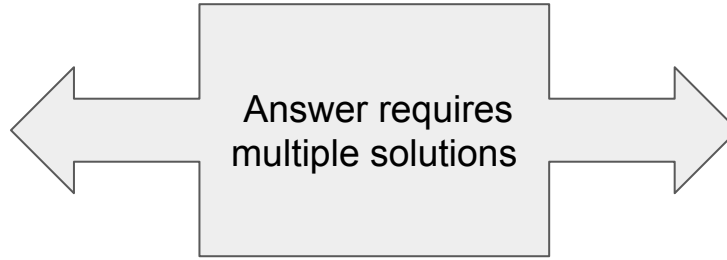


Problem: Healthcare resources overwhelmed by an exponential patient influx

Answer: Make Sure Right Patients Enter Right Facilities at Right Times



Solutions already being developed address **complexity** of isolated resource problems



Our solution solves a problem of **resource connection**: patients to the care facilities

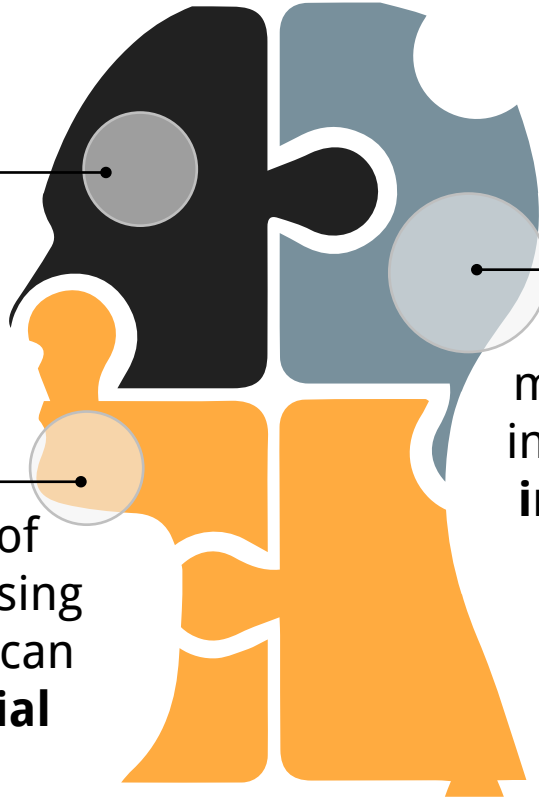
Sequoia **Uses Remote Provider Input** to achieve this.  
Such a tactic depends on **simplicity and flexibility.**

## Why Remote Provider Input is Needed vs Pure Machine

**53%**

Greater Care Adherence  
when provided by human in  
comparison to pure AI

Pure AI tools err on the side of  
more care than is necessary. Using  
provider input avoids this and can  
**better control an exponential  
patient influx.**



Meta analysis of pure  
machine “symptom checkers”  
indicate **greatest failure rate**  
**in the context of triage** and  
diagnosis

# The Sequoia Solution: Simplicity



## USER SIDE

All done via phone screen from user home. Free

- Users text hotline number
- Users respond to automated questions
- Users receive next steps including list of best nearby care facilities

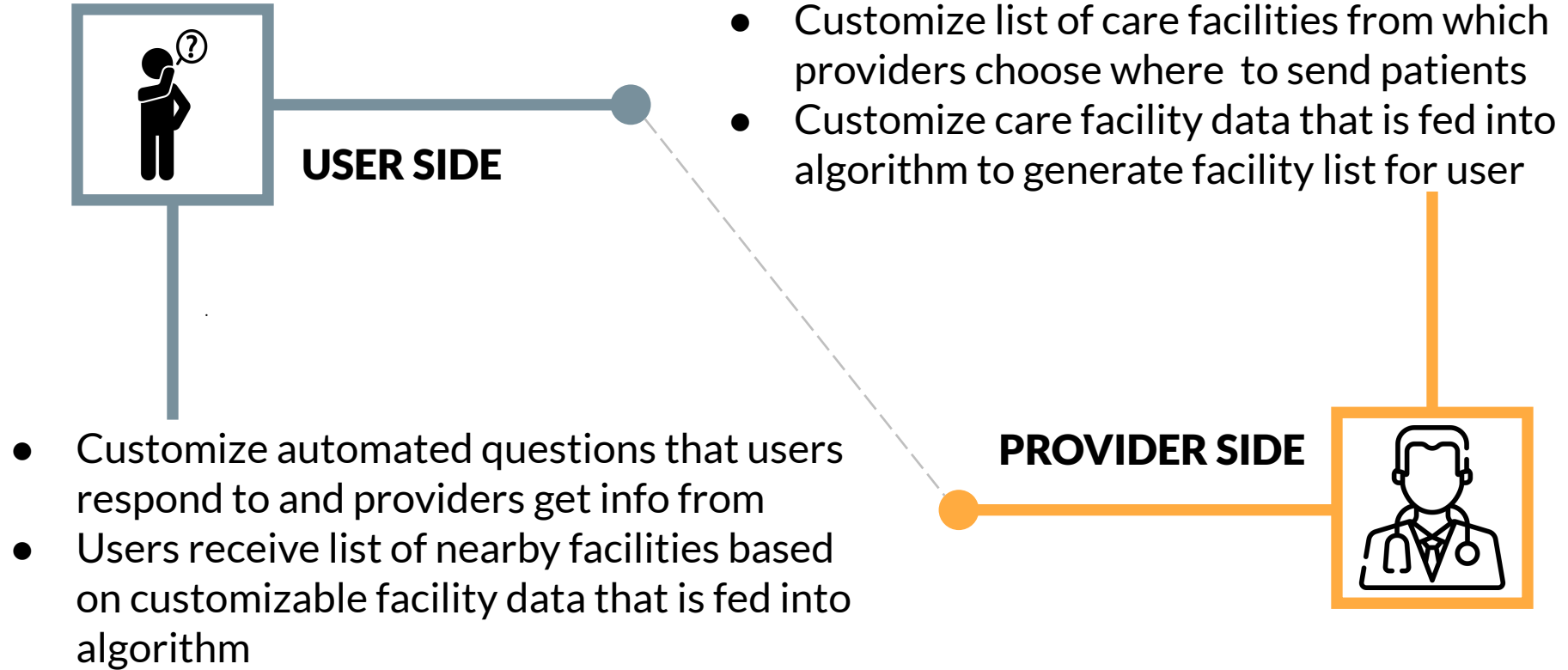
- Providers log-in to web interface
- Providers select and view request
- Providers select where to send patient from automated list of care facilities

All done on web in less than 5 minutes per patient. Free

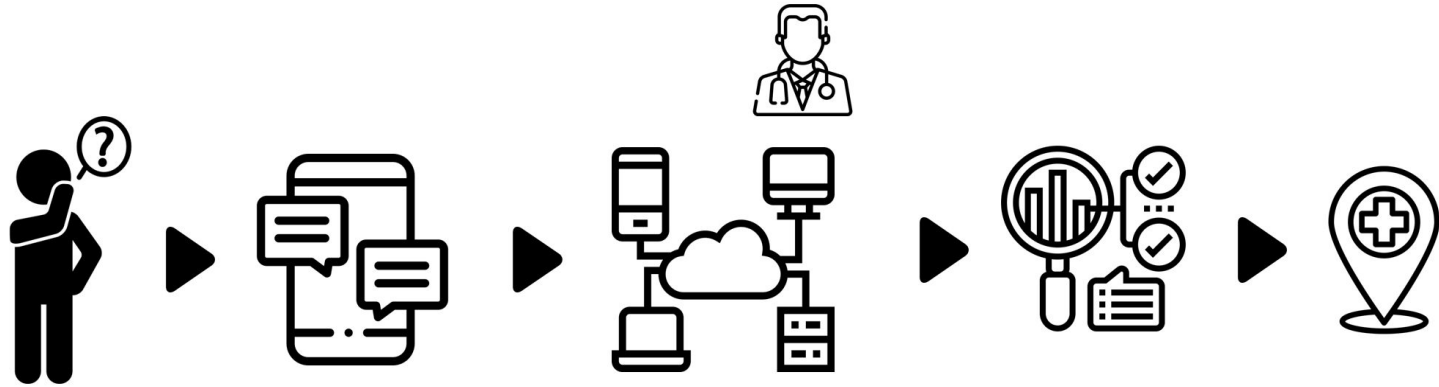
## PROVIDER SIDE



# The Sequoia Solution: Flexibility



## User Flow



## Provider Flow



## Two potential use cases

### **Intra System: Toolkit to rapidly develop tele-triaging**

- Maximize efficient distribution across one health system's facilities
- Program inputs available care facility data (number of providers, beds, ventilators) into algorithm
- Implement tool within existing health system framework and maximize use of provider pool

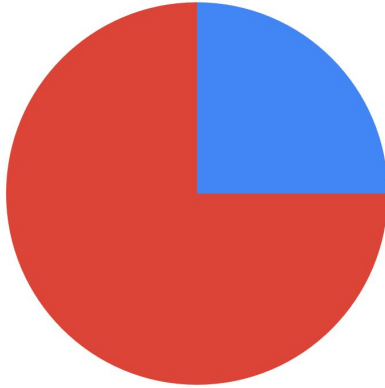
### **Inter System: Optimal load distribution and burden reduction**

- Alternate option if individual health systems can no longer handle influx
- Neighboring health systems have same basic Sequoia platform
- Use Sequoia platform to combine care facility options, care facility data, and provider pool across systems



## Ease of use maximizes Available Provider Pool

Within each health system (pool expands when health systems are combined):



25% now-cancelled elective procedures and surgeries from which provider pool can be expanded to assist with triage and use Sequoia

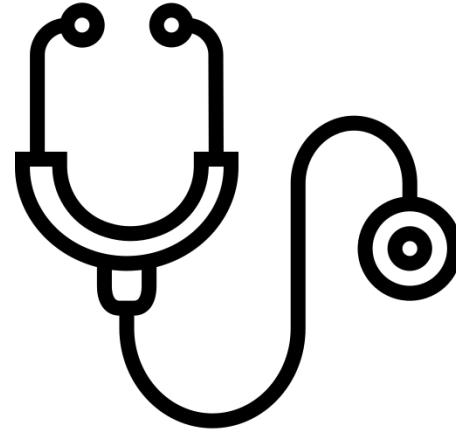
Integrating providers from **outside** a care system can potentially expand pool to:

- Rural providers
- Retired medical professionals
- Out-of-state providers (Inter-state triage rules may be relaxed for COVID-19)

# Areas Needing Further Derisking and Support



- HIPAA-secure protocol
- Need public health and/or governmental support to aid rapid deployment



- Validating triage questions
- Determining best static and dynamic factors for patient distribution algorithm

# Implementation Plan & Partners

**Complete  
Technological  
Implementation**



**Ensure legal  
compliance**



**Deployment in  
most-at-risk  
areas**



**Validate clinical  
triaging and  
sorting factors  
with medical  
professional**



**Single-site/local  
testing**



**Spread adoption  
as outbreak  
spreads**

