

Hot Science Cool Talks

UT Environmental Science Institute

104

Never Wait for a Doctor Again? Revolutionizing Health Care

**Dr. Clay Johnston
December, 2016**

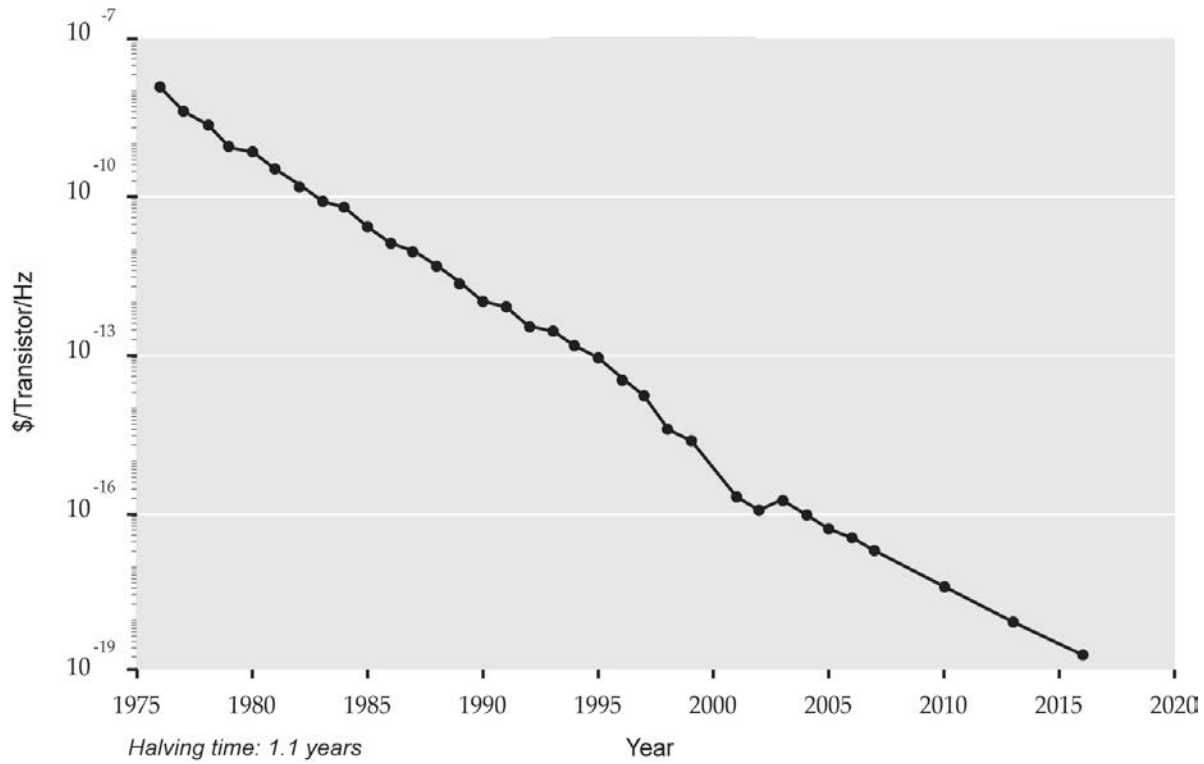
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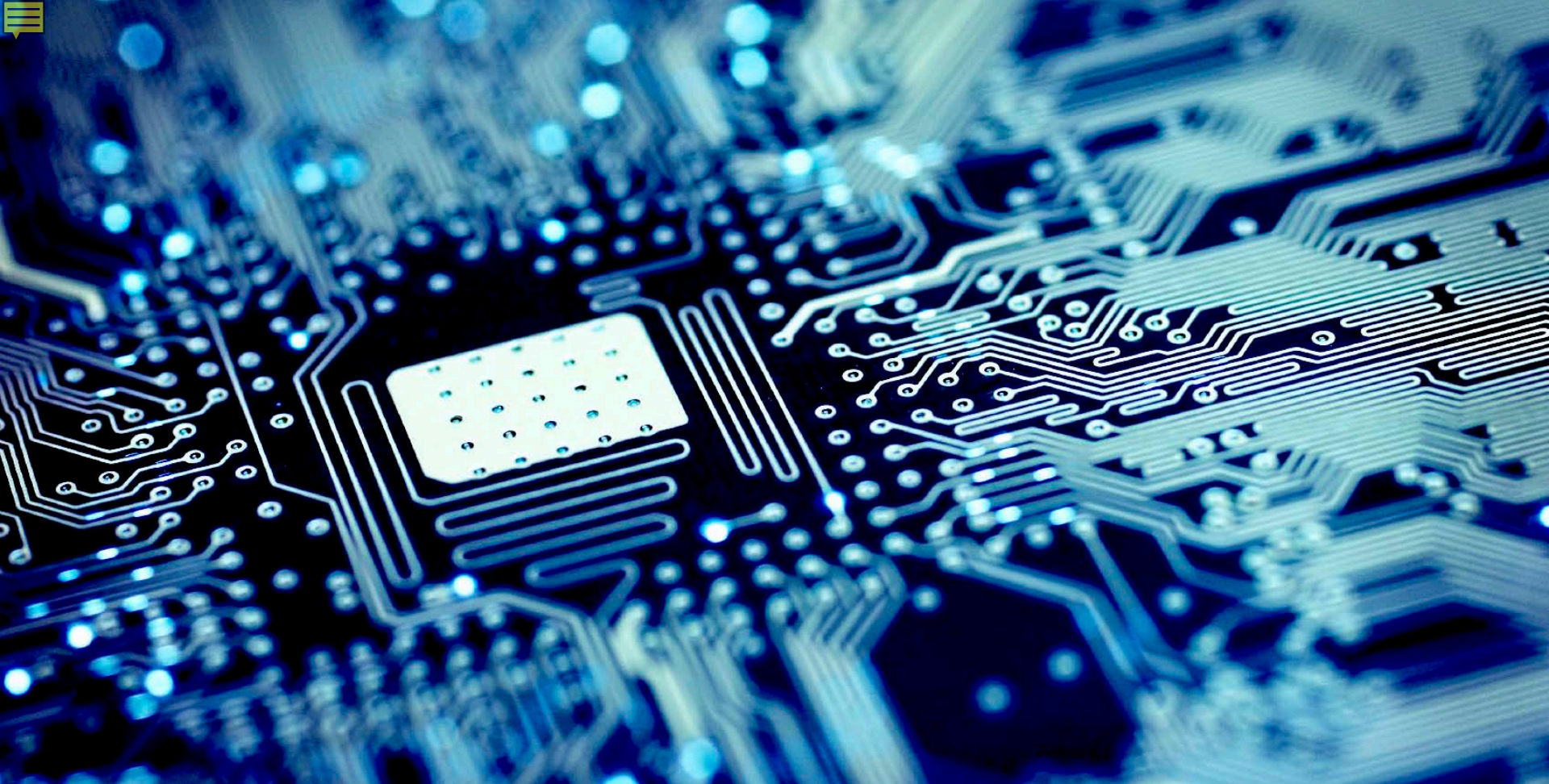


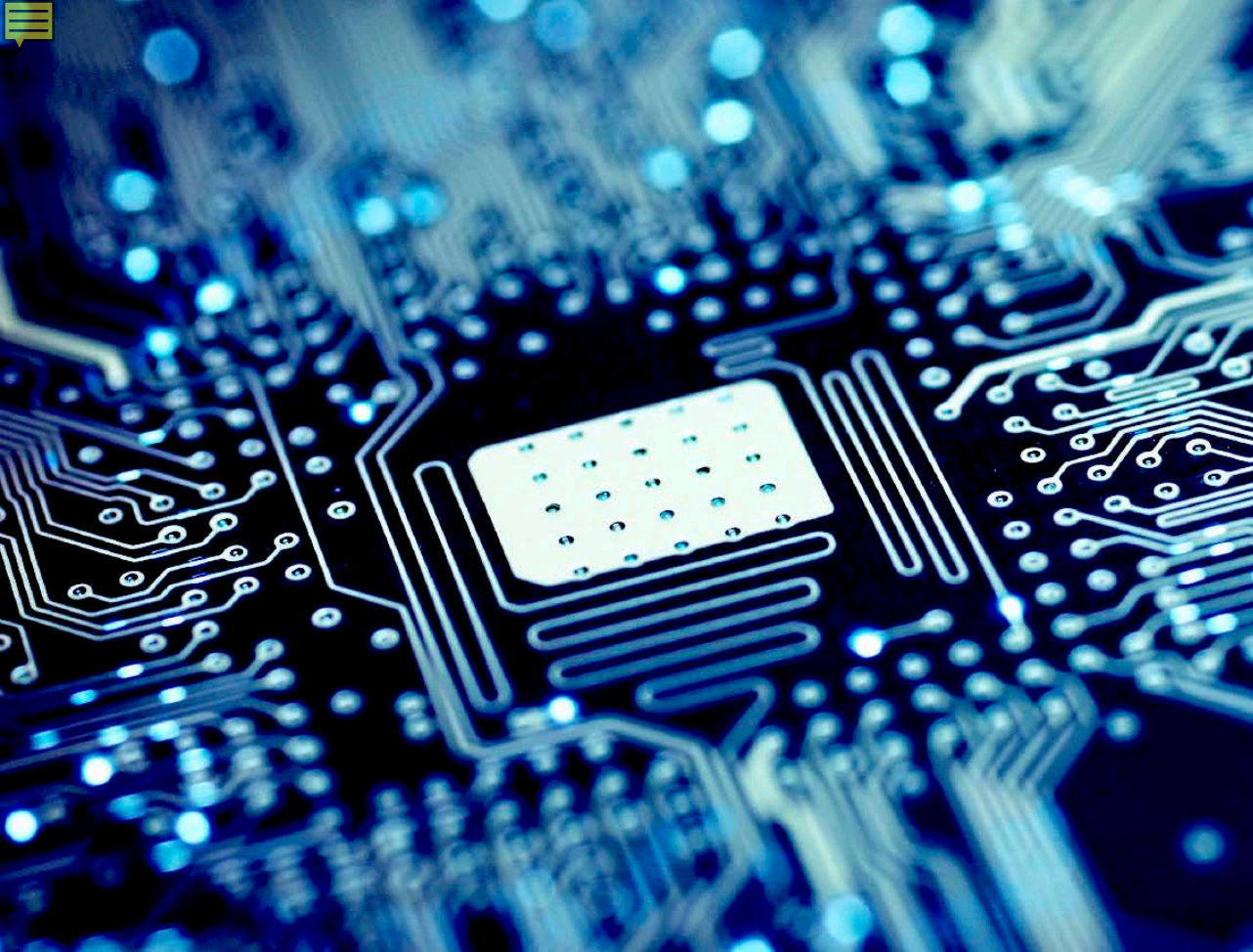
Never Wait for a Doctor Again?

Revolutionizing Healthcare

Clay Johnston, MD, PhD
Dean, Dell Medical School





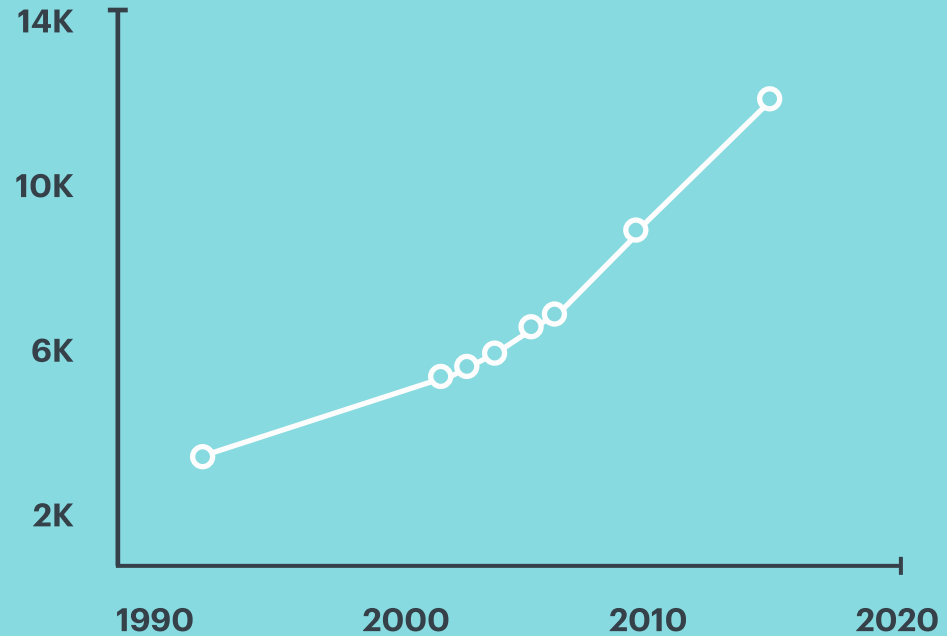


Broken

health system

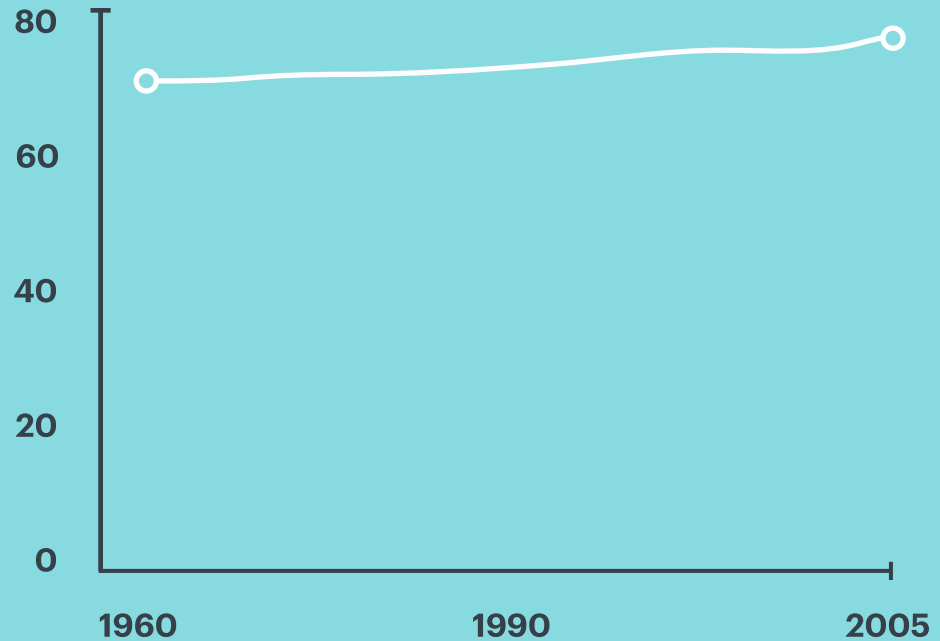
Cost of healthcare

Per person spending



Wells Fargo Insurance Services

US life expectancy





Investment



Return



1

U.S. is the number
one spender on
healthcare
in the world

25
26
27
28
29
30
31
32
33
34
35
36
37
38
39

But only
34th in
health outcomes

10 Glaring Examples



10

Costs of care are
out of control
and only going up

9

No one
pays for
prevention

8

It's nearly
impossible
to find a doctor



7

No one
reminds you to
take your meds



6

Office visits
are way too
short



5

Flu management
requires an
office visit



4

Can't find
an apple in a
vending machine



3

Seeing more of
the back of your
doctor's head



2

Can't
email your
doctor



1 Hospital gowns expose your rear

Broken healthcare delivery system



Invested in the status quo





Doing more, rather than doing better

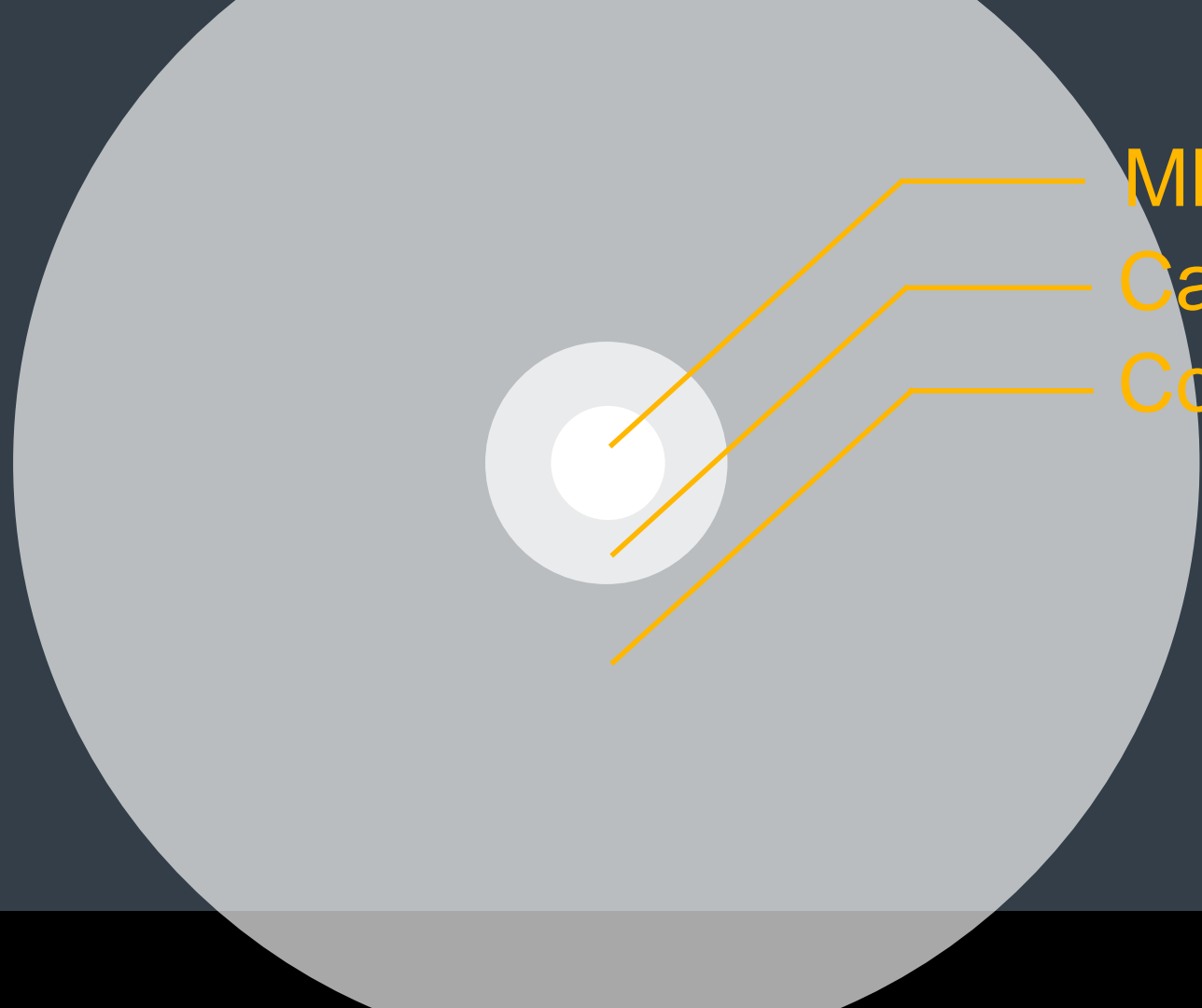
Treating the sickest rather than promoting health

Resistant to technology and other approaches to enhance efficiency



Broken community health system





MDs + tools
Care Settings
Community



Cause of death in San Francisco women (2003–2004)



1. HIV/AIDS
2. Drug overdose, unintentional
3. Self-inflicted injuries, all mechanisms
4. Breast cancer
5. Pancreas cancer

Cause of death in San Francisco men (2003–2004)



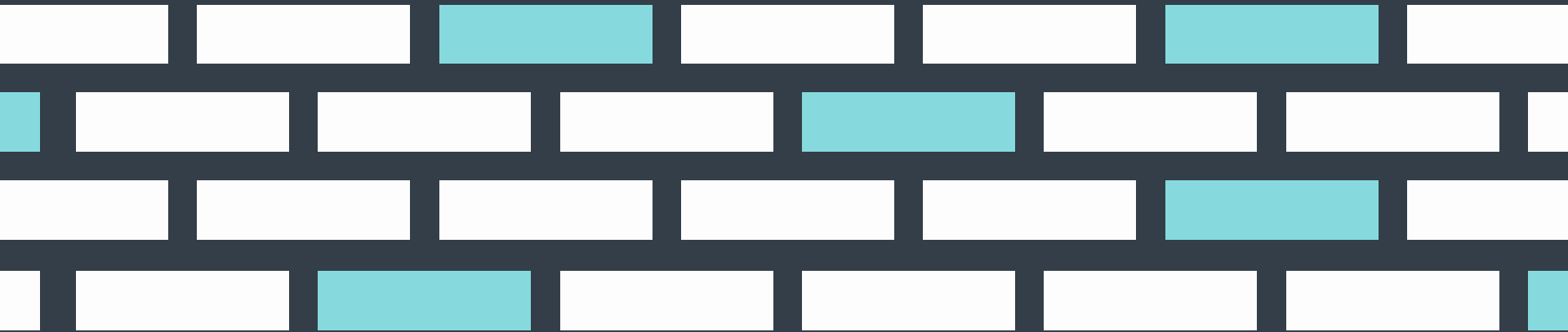
1. Violence/assault, all mechanisms
2. Drug overdose, unintentional
3. HIV/AIDS
4. Self-inflicted injuries, all mechanisms
5. Alcohol use disorders

Broken research system





Research



Care



Dell Medical School: Opportunity to start from scratch

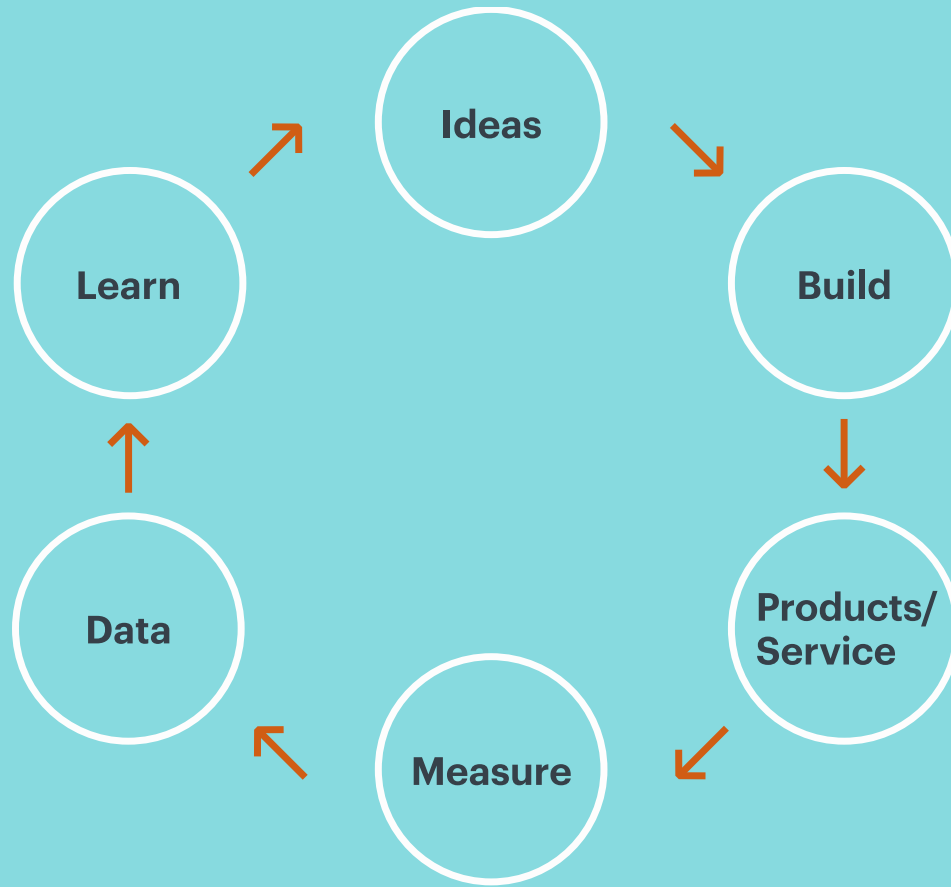


Photo: Christopher Sherman

Can we
create a better
ecosystem
for health
innovation?



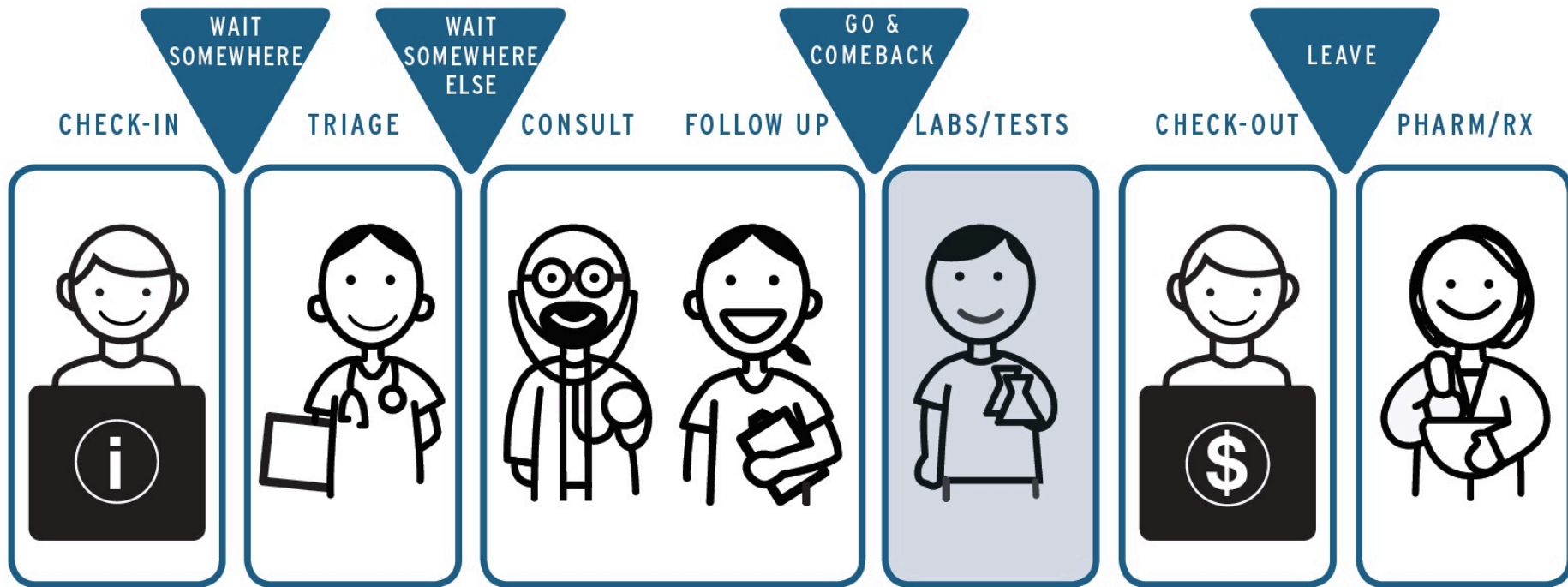
Faster Innovation Cycles: Lean Start-Up Model



Focus on making Austin a model healthy city







ASSIGN
ROOM

CHECK-IN

TEAM-BASED CONSULTATION AND CAREPLAN ASSESSMENT



IPU Patient Journey





Detachable high-resolution scanner



Medical tricorder

The clamshell-shaped medical tricorder is made from micromilled duranium foam.

Touch-sensitive buttons cover the face of the unit. Tricorders also respond to voice commands.

The main body is a standard-model tricorder.

The medical peripheral device works with the tricorder interface to access all the normal functions as well as the added medical ones.



The medical tricorder contains information on many non-human races, making the instrument equally effective for treating other life forms, such as Cardassians.









Liberate entrepreneurs



Video: HealthHIVE

<https://www.youtube.com/watch?v=DF9WtvGrv7U>

 Dell Medical School



Rethink

COMMUNITY



Your Idea.

Your Neighborhood.

Your Health.



Rethink **COMMUNITY**

Please submit your idea by Dec. 5, 2016:

On Paper

- Pick up and drop off a paper form at the following Austin Public Library locations: Carver, Little Walnut Creek, Manchaca, Ruiz, St. John, Southeast, Terrazas, University Hills and Willie Mae Kirk.
- Fax applications to 512-495-5556 (Attention: Population Health), email a copy to populationhealth@utexas.edu, or call 512-495-5155.

Online

- Visit dellmedschool.utexas.edu/center-for-place-based-initiatives to submit a mobile-friendly electronic form.

