Nightingale

A mash-up of

health care data

- + Wikipedia principles
- + turn by turn direction like Google Maps
- = a patient navigator called nightingale

health care data sources



Partnership

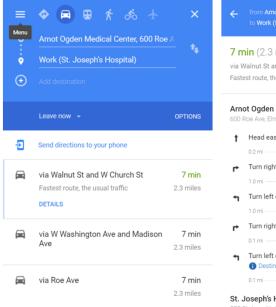
Wikipedia principles*

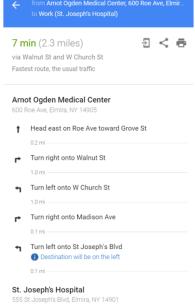
Imagine a world in which every single human being can freely share in the sum of all knowledge.

That's our commitment.

Could we strive to create a Patient Literature library?

Google Maps turn by turn navigation





Could we support healthcare consumers with decision support system with this level of simplicity?

Other key ingredients





Open Source Ecosystem



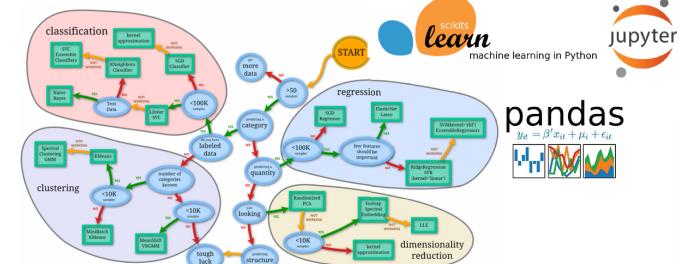








्रिनीतनावीज्ञायाः







Challenges

"Innovation is saying 'no' to 1,000 things."

Steve Jobs

The first thing we say no to is **Profit**, we will have to just figure how we will pay for this service.

Low resolution poor quality data. Medicare claims data only has principal diagnosis. High quality data that we can only get via partnerships, could have all diagnosis and procedure code(ICD10) for each encounter in their network.

Patient navigators and volunteers contributing to this platform may not have limited professional medical, legal, financial, or administrative experience.

We are in a Social trap*

"The ballooning costs of healthcare act as a hungry tapeworm on the American economy."

- Warren Buffet

"Our people want transparency, knowledge and control when it comes to managing their healthcare"

- Jamie Dimon, JPMorgan Chase

"The healthcare system is complex, and we enter into this challenge open-eyed about the degree of difficulty"

- Jeff Bezos, Amazon

Good News

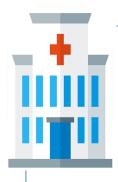
Technology is here in our open source ecosystem. We need data now.

Benefits - non-zero-sum game



Patients

- Value based care
- Quality of life



Healthcare facilities and Providers

- reduce no-show and cancellations
- \$300 \$1500 per appointment

Insurance Providers

- Early detection and treatment of health care conditions
- People with diagnosed diabetes incur average medical expenditures of about \$13,700 per year, of which about \$7,900 is attributed to diabetes.
- Economic Costs of Diabetes in the U.S. in 2012 | Diabetes Care*
- \$1 In \$7 Health care dollars is spent treating diabetes
- The Cost of Diabetes*



Next steps

POC within our community regional integrated healthcare delivery system

recommendation engine for our patients with providers

identify profiling questions

identify dimension of compatibility

Maturity Matrix

Ensure

mission

in each

domain,

external

audits

reviews

and

via

to

Operating model Hub & spoke Open innovation Blockchain **Privacy** End-to-end **HIPAA** distributed encryption By all means protect platform consumer privacy Quality & Recommend Recommend Recommend Safety providers and reading Clinical adherence pathways validate materials Zero harm **Employee** Leverage Service statement correcting consumer engagement feedback loop Always act in best metrics comments interest of consumer Reputable Rewarded **Finance** Compensate compensation crowdparticipates Deliver services at cost model sourcing & maintain stability Integrate data Integrate Integrate FHIR Growth HL7 medical from wellness patient Surface information & satisfaction records devices make it accessible Community **HL7 FHIR API** Validate **Applications** Access clinical to exchange to manage health record diet, exercise pathways Assist open innovation

Thank You

Robin Varghese

Manager, Business Analytics rvarhjese@arnothealth.org

ArnotHealth, St. Joseph's Hospital 555 St. Joseph's Boulevard Elmira, NY 14901 Phone: (607)795-8062

