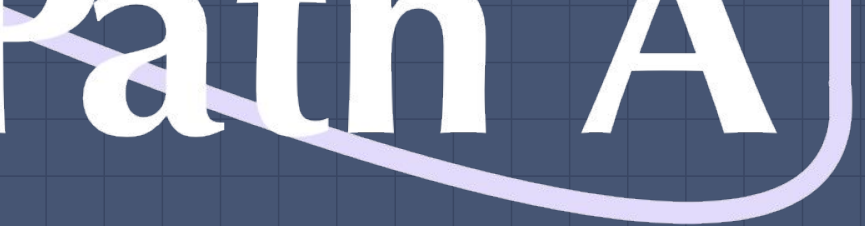


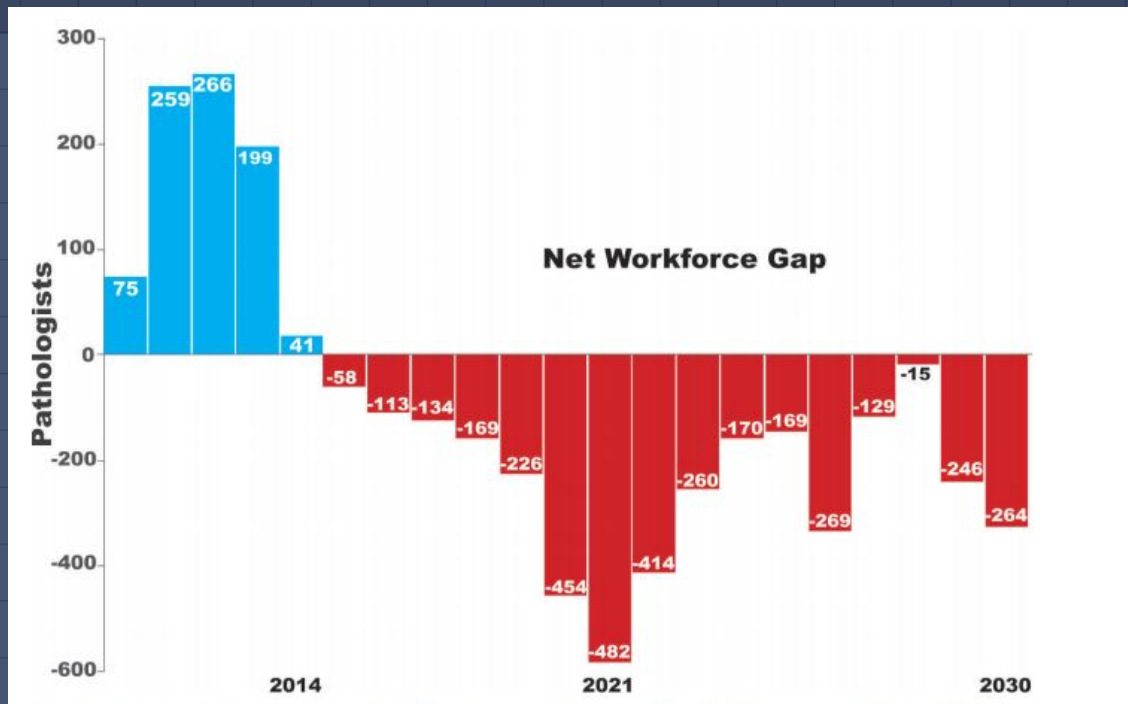
Path A



# Problem Statement

Currently pathologists do not fully leverage AI based decision support software to provide **timely** and **accurate** diagnosis of leukemia **across the globe.**

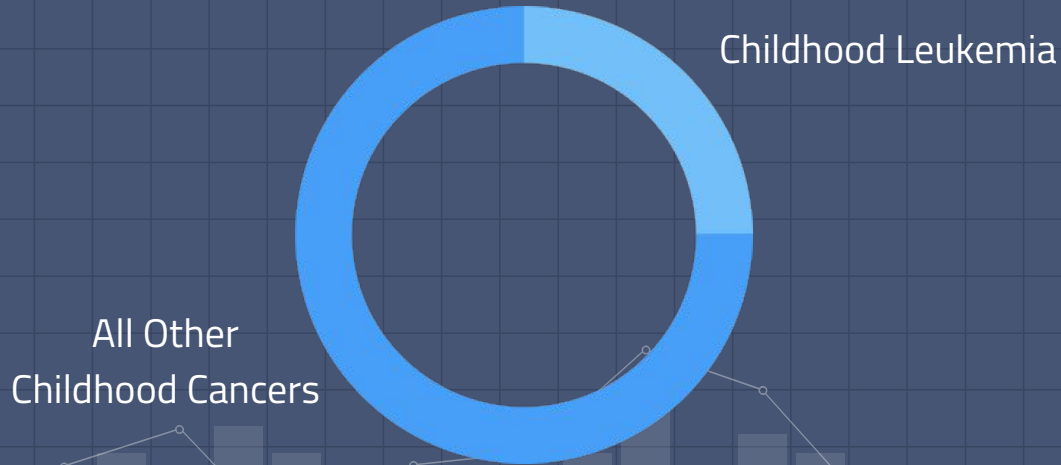
# Lack of Pathologists



*Archives of Pathology & Laboratory Medicine, 2013*

# First Market

Childhood leukemia, the most prevalent form of childhood cancer, represents 24.9 % of all new childhood cancer cases



*SEER Cancer Statistics, 2019*

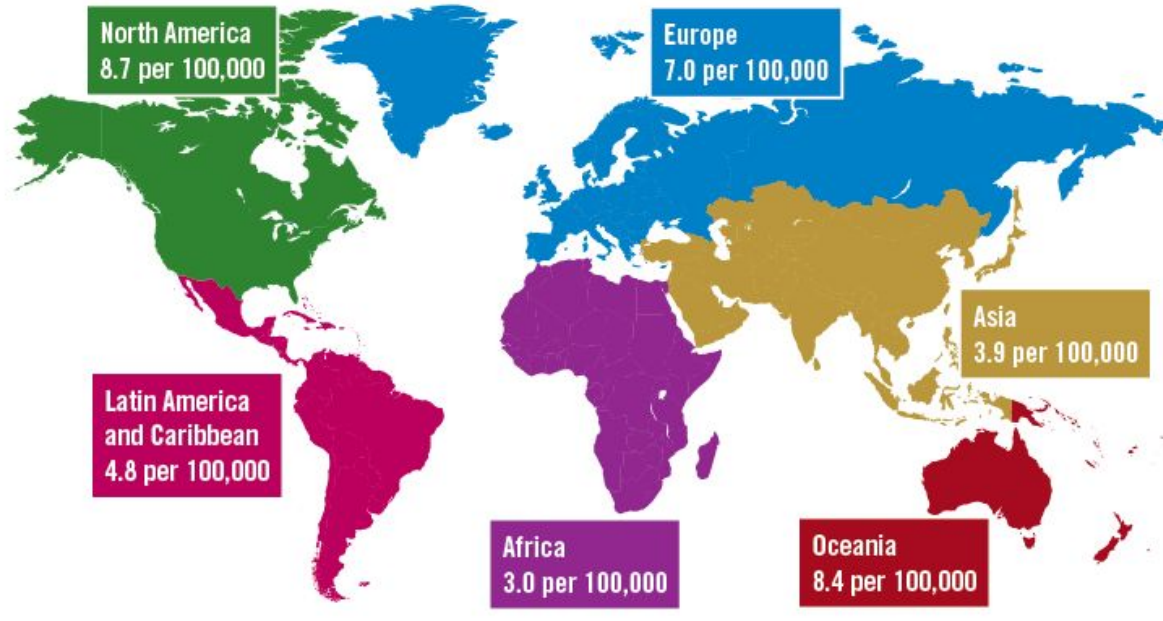
# Current Process



*American Cancer Society, 2019*

# Underdiagnosis

Estimated age-standardized incidence of leukemia, 2012



World Health Organization, 2012

# Why have current solutions failed?

**Clinical pathologists don't want to use the current DSS systems.**

“Pathologists do not currently support the idea of using automated diagnosis to make evaluations.”

- Josh Wong MD, Pathology Resident

# Why have current solutions failed?

**Current technology is very expensive.**


“Now, our technology is not advanced enough to provide easy diagnosis with low cost options”

- Roman Karp MD, Pathserve Tissue Bank



Solution

Path A





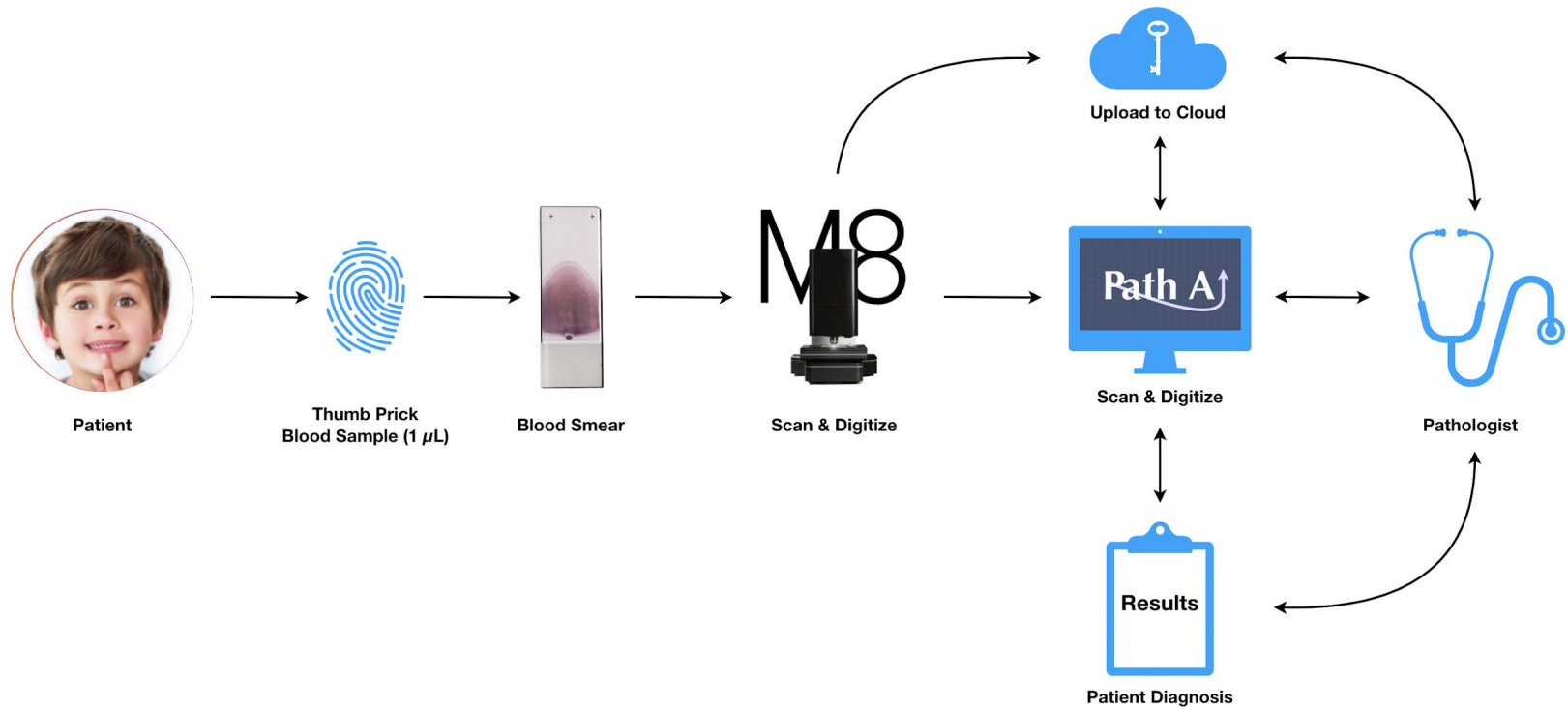
Meet Jose

HOSPITAL

Jose

Patient ID

# Our Model



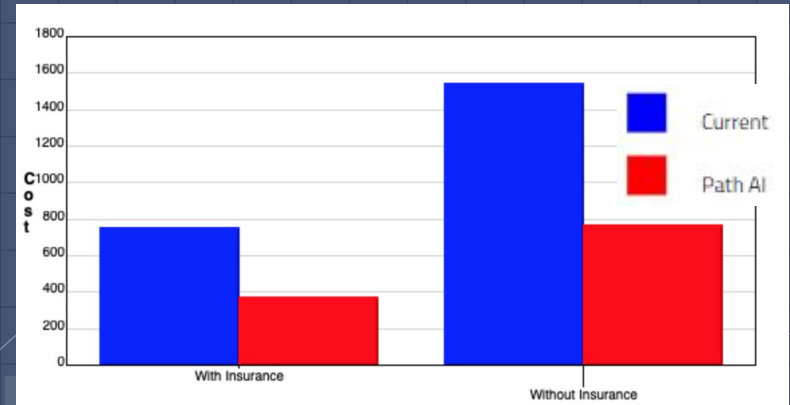
# Current Application



- Image Diagnosis
- Confidence level
- Regions of interest

# Business Model and Projected Growth

- Insurance providers and patient will pay for the services on a test-by test methodology
- Costs=\$35
- Margin=\$250
- Profit=\$215/scan
- 500,000 clinical lab tests in leukemia in USA
- 107.5 M in potential profits



Vision for the future

# PATIENTS

## Details



Last Report on 11/23  
LOCATION



Results: Negative  
CONFIDENCE LEVEL



Pathologist: Dr. Xavier  
LOCATION

FIND OUT MORE



HOSPITAL  
Jose  
Patient ID

## Details



Last Report on 11/23  
LOCATION



Results: Negative  
CONFIDENCE LEVEL



Pathologist: Dr. Xavier  
LOCATION

FIND OUT MORE



HOSPITAL  
Patient Name  
Patient ID

## Details



Last Report on 11/23

# PATIENT REPORT

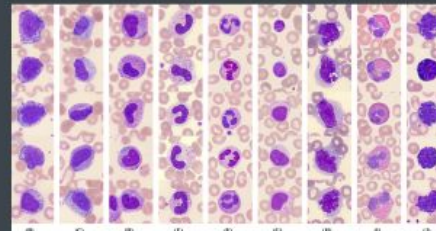
Cell Count



## Cell Distribution

Abnormal Myeloid cells	0.0%
Bad Blood cells	25.0%
Platelets	21
Normal Granulocytes	87
Normal Monocytes	66
Neutrophils	21

## Most Recent Blood Smear

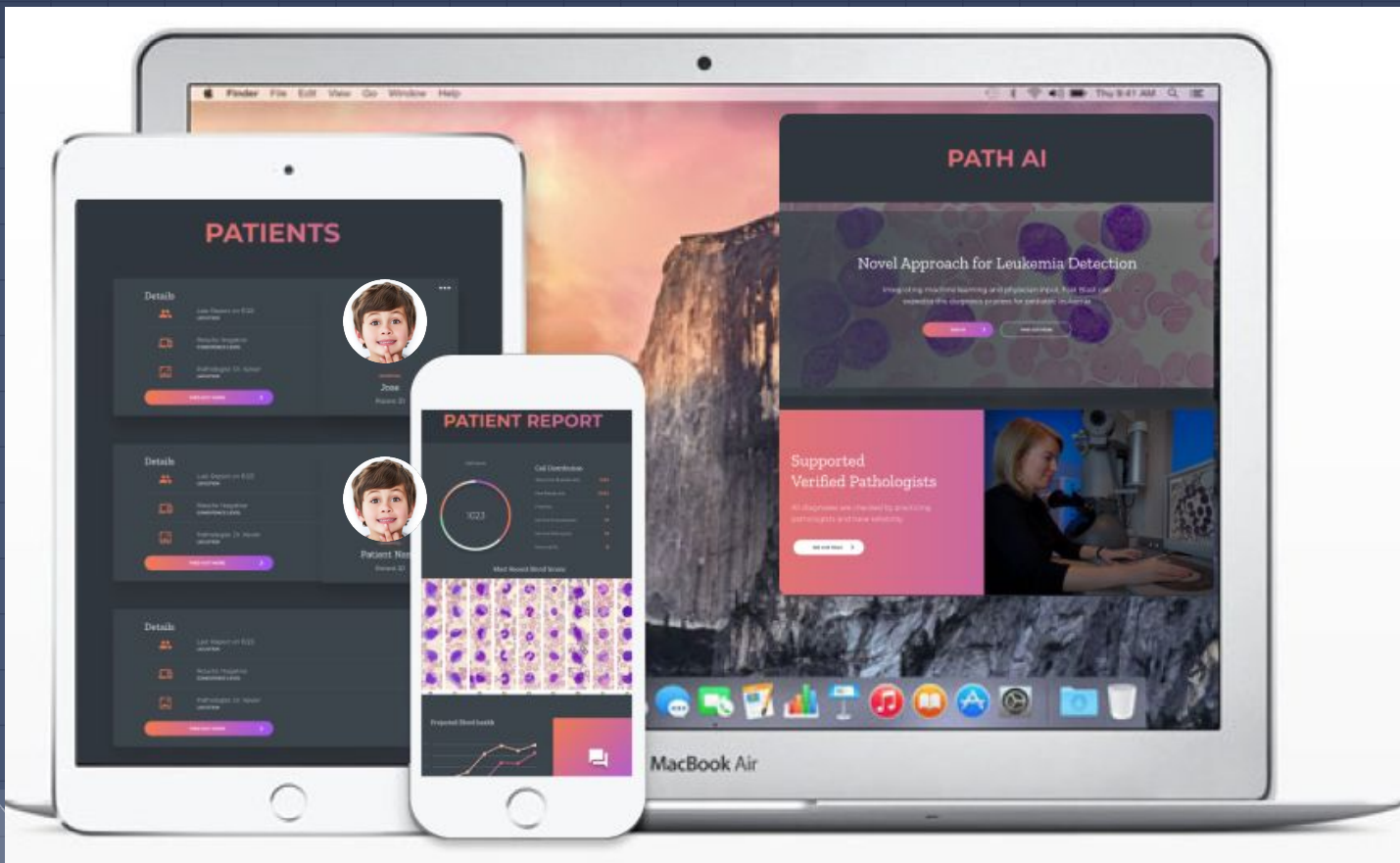


## Projected Blood health



Generate Report  
Report to EHR system

# Cross Platform Integration





# International Reach



# About the Team



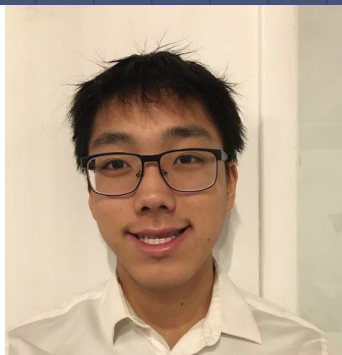
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Computer Vision  
DePaul University



Andrew Hudak  
Research Associate  
Broad Institute of MIT  
and Harvard



Joseph Chen  
Computer Vision  
Specialist



Basia Jackson  
Public Health Scholar