

School of AI Global Health Hackathon

GROUP IMAGO

CARLA FURONI:	BUSINESS
FABRICIO DITZZ:	HEALTH
GUILHERME FOLEGO:	AI
ISABELA LAULETTA:	DESIGN
VICTORIA DEORIO:	DEV



- Approximately 400 million diagnostic medical examinations and 150 million dental X-ray examinations are performed annually in the United States. [1]
- It is estimated that some 3.6 billion diagnostic X-ray examinations are performed every year in the world. [2]



¹ https://www.paho.org/hq/index.php?option=com_content&view=article&id=7410:2012-dia-radiografia-dos-tercios-poblacion-mundial-no-tiene-acceso-diagnostico-imagen&Itemid=1926&lang=en

² <https://www.omicsonline.org/open-access/radiation-exposure-of-patients-undergoing-common-diagnostic-x-ray-examinations-in-some-major-hospitals-in-visakhapatnam,-india-2168-9784.1000101.php?aid=6363>

What can be done to help
prioritize X-ray analysis?

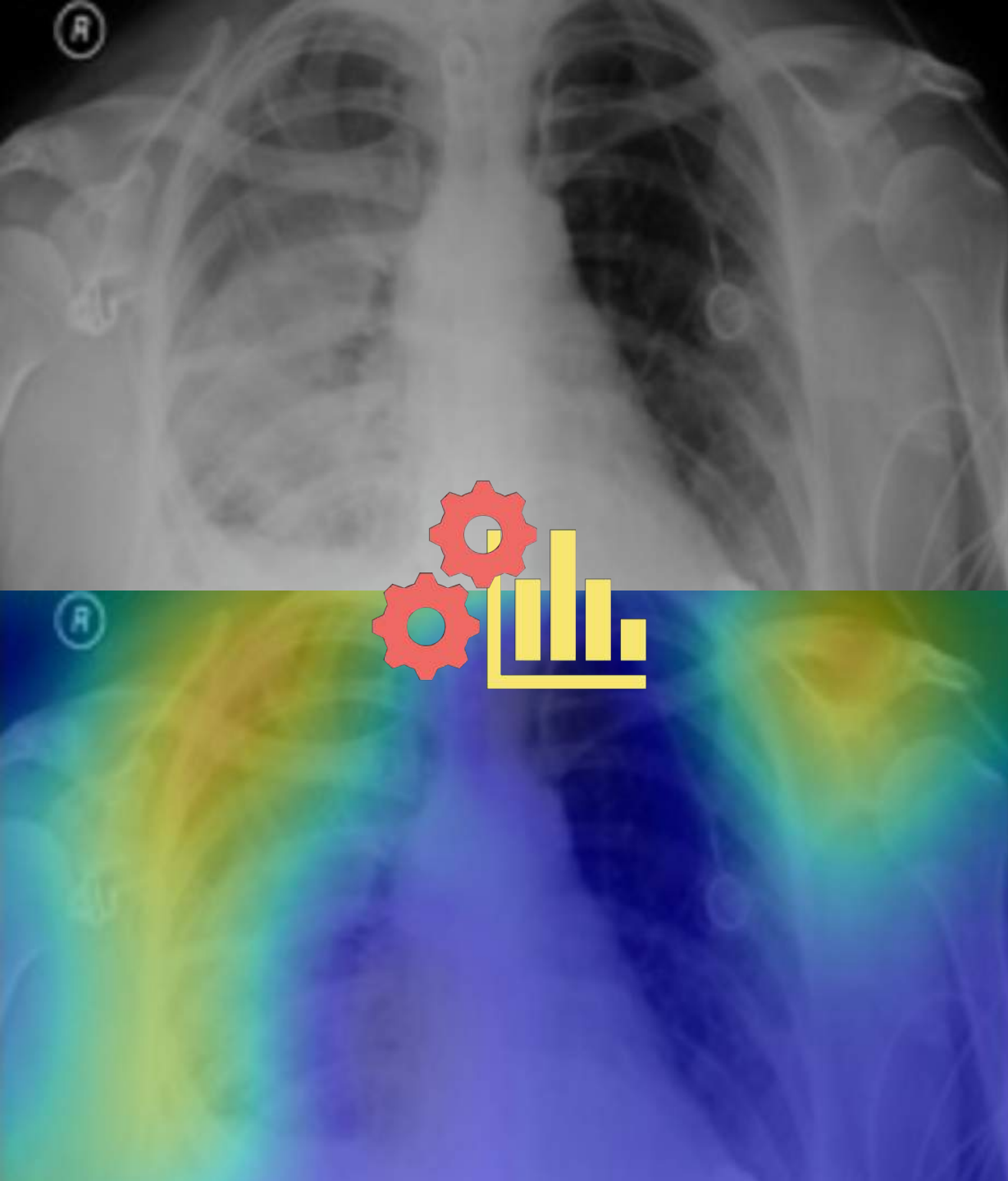
What can be done to identify which x-rays
that present some pathology, optimizing
the use of specialists?

Do all x-rays require the analysis of a
specialist or can they be analyzed by
a general physicist?

And how can we use artificial intelligence to help?



Medical image analysis platform



What ?

Computer aided diagnosis
for general physician

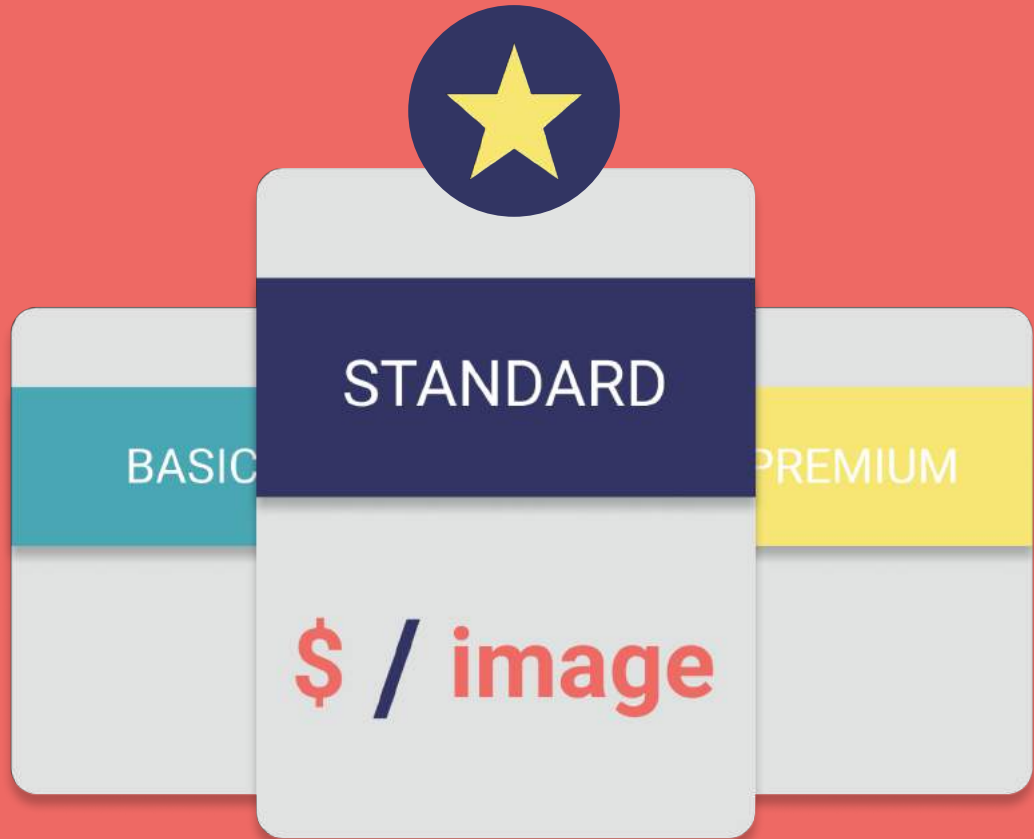
How ?



Monetization



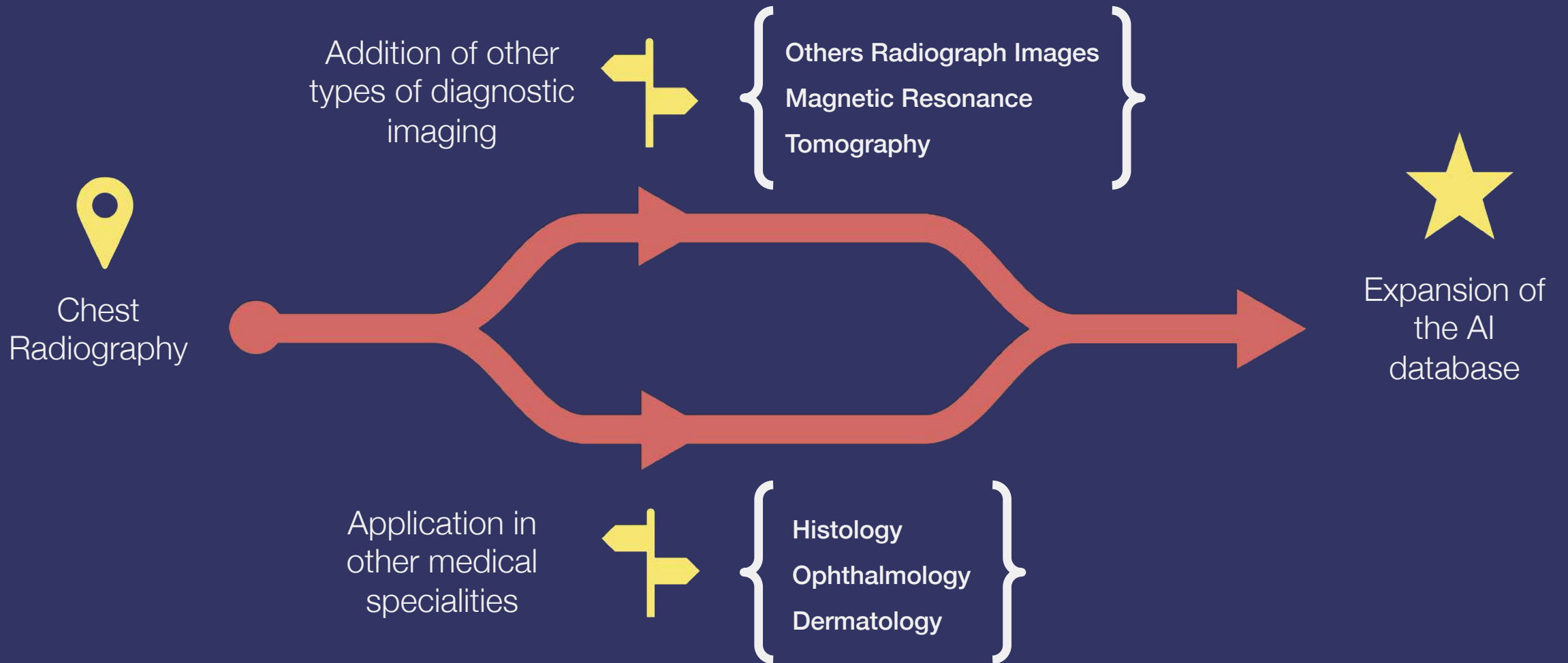
CLIENTS



Market Competitors



Roadmap



Input



Send

Technology

AI

- Deep learning for classification of 14 potential pathologies
- Adaptation of MobileNet V2 convolutional neural network with Grad-CAM technique for visualization

Input



Result: 99.26 %



Thanks