VIRA KAVIR

October 2024

https://virakavir.com/en

Azam Karami

❖ Associate Professor, Head of Image Processing and Robotics Lab, Shahid Bahonar University, Iran (2014-Present)

❖ Founder, CEO, ViraKavir Company, Kerman, Iran (2018-Present)

❖ Postdoctoral Researcher, Department of Electrical Engineering, Purdue University, USA,2018-2021

❖ Postdoctoral Researcher, Vision Lab, University of Antwerp, Belgium,2014-2017

❖ Ph.D., Electrical Engineering-Telecommunications-Systems, Shiraz University, 2012

❖ Published more than 30 journal & 60 conference papers & 20 outstanding industrial projects

❖ Received the best project award Iran organization from Management of Electric Power Generation and Transmission (Tavanir), December 2019

❖ Selected as the top researcher, Ministry of Science, Research and Technology (Iran), March 2020

❖ Selected as the distinguished faculty member and industrial researcher, Shahid Bahonar University of Kerman, 2020 & 2021

❖ Patent A.Karami, "Laser Image Measuring Object Dimensions", G01B 00/11, 2019

Vira Kavir Team

Azam Karami
CEO
Associate Professor
PhD. Electrical Engineering
15 Years Experience
(Machine Learning,
Remote Sensing)

Mitra Peiro Hosseini
CTO
MS.c. Photonics
8 Years Experience
(Machine Learning,
Dataset Management)

Sharzad Faladat
Head of Image Processing
Team
Ph.D. student Optics and
Laser
10 Years Experience
(Design Optical Equipment,
Machine Learning)

Zahra Attari
Head of Aerospace
MS.c. of AI
7 Years Experience
(UAV Firmware
developer,
Machine Learning)

Zahra Sargolzadeh
Business Developer
MS.c. Accounting &
Finance
8 Years Experience
(Accounting,
Dataset Expert)

Vira Kavir Team

Ali Mohmmad Hossein Zadeh
CBO
Ph.D. Computer Science
20 Years Experience
(Web Developer)

Saleh Sarafraz
Head of Aerospace

MS.c. Aerospace
12 Years Experience
(UAS Design)

Ashkan Adibi
Head of Optic & Laser
Ph.D. Optics and Laser
15 Years Experience
(Design Optical Equipment,
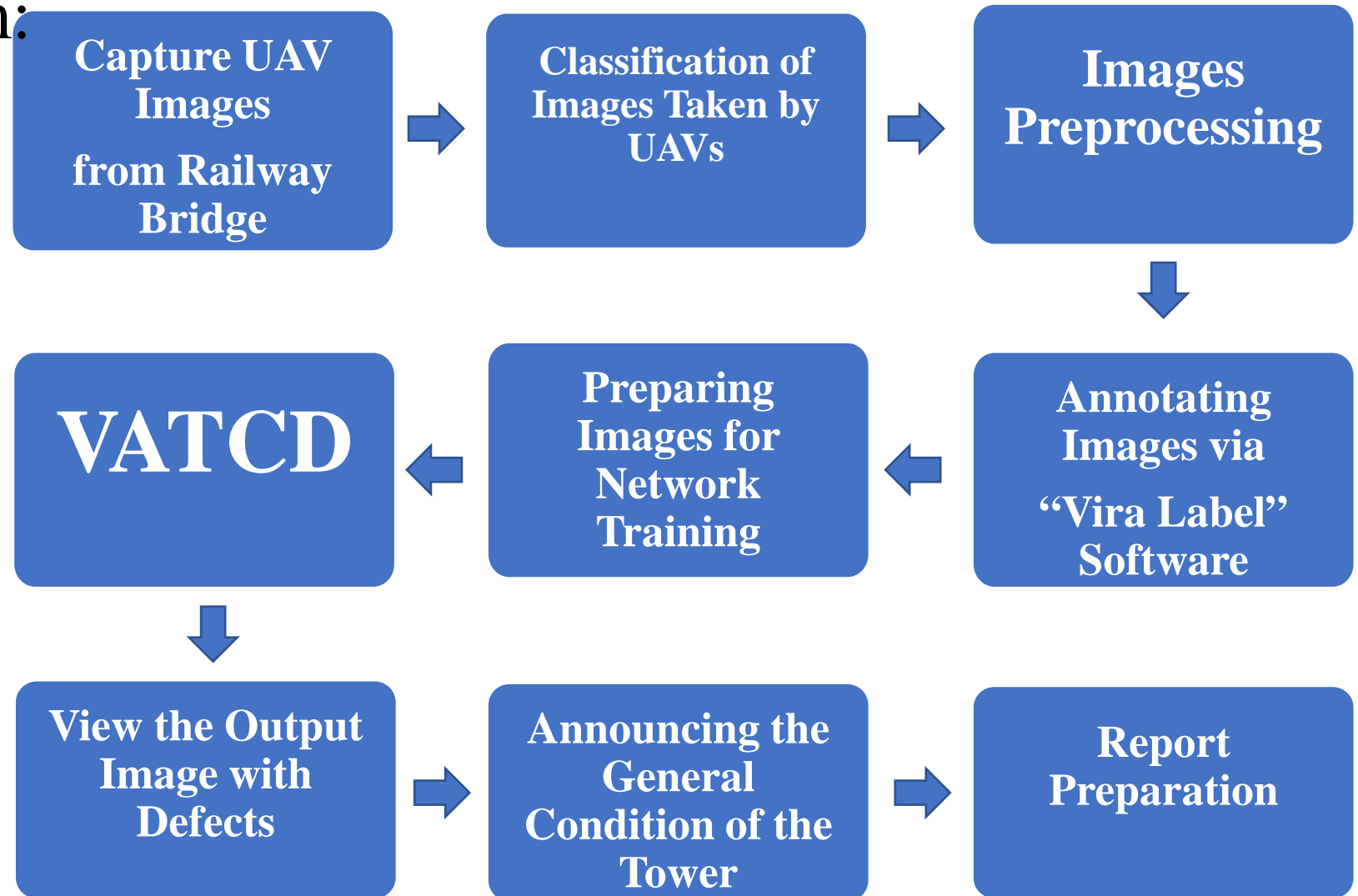Machine Learning)

Amin Backtash
Drone Pilot
MS.c. Aerospace
6 Years Experience
(UAV Pilot)

Amin Dehghan
Drone Pilot
MS.c. Aerospace
3 Years Experience
(UAV Pilot)

https://virakavir.com/en

Solution

VATCD a web platform:

- More than 3 years research and coding
- More than 4 years Capturing photos
- More than 200000 images

```
Capture UAV Images from Railway Bridge  →  Classification of Images Taken by UAVs  →  Images Preprocessing
                                                                                              ↓
VATCD  ←  Preparing Images for Network Training  ←  Annotating Images via "Vira Label" Software
  ↓
View the Output Image with Defects  →  Announcing the General Condition of the Tower  →  Report Preparation
```

https://virakavir.com/en

Gohar Zamin Open Pint Mining

VATCD

- **A**utomatically detects tension cracks in an open-pit mine located in "Gohar Zamin-Sirjan, Kerman, Iran".
- The size, locations, and developments of these tension cracks are typically used to predict slope failures and ensure safe mining operations.
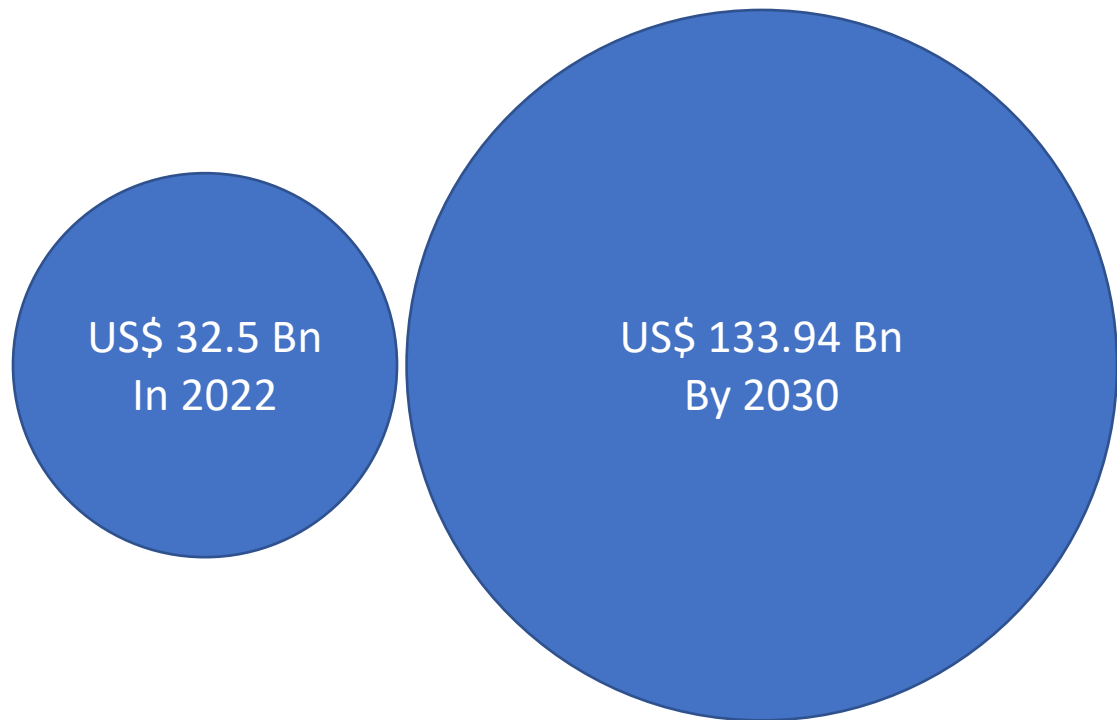
Industrial Project Funding

PI: A.Karami, "Tension Cracks Detection in Mine Walls Using UAV Images, and Artificial Intelligence Algorithms", Goharzamin Iron Ore Mine $180K, 2024-2025
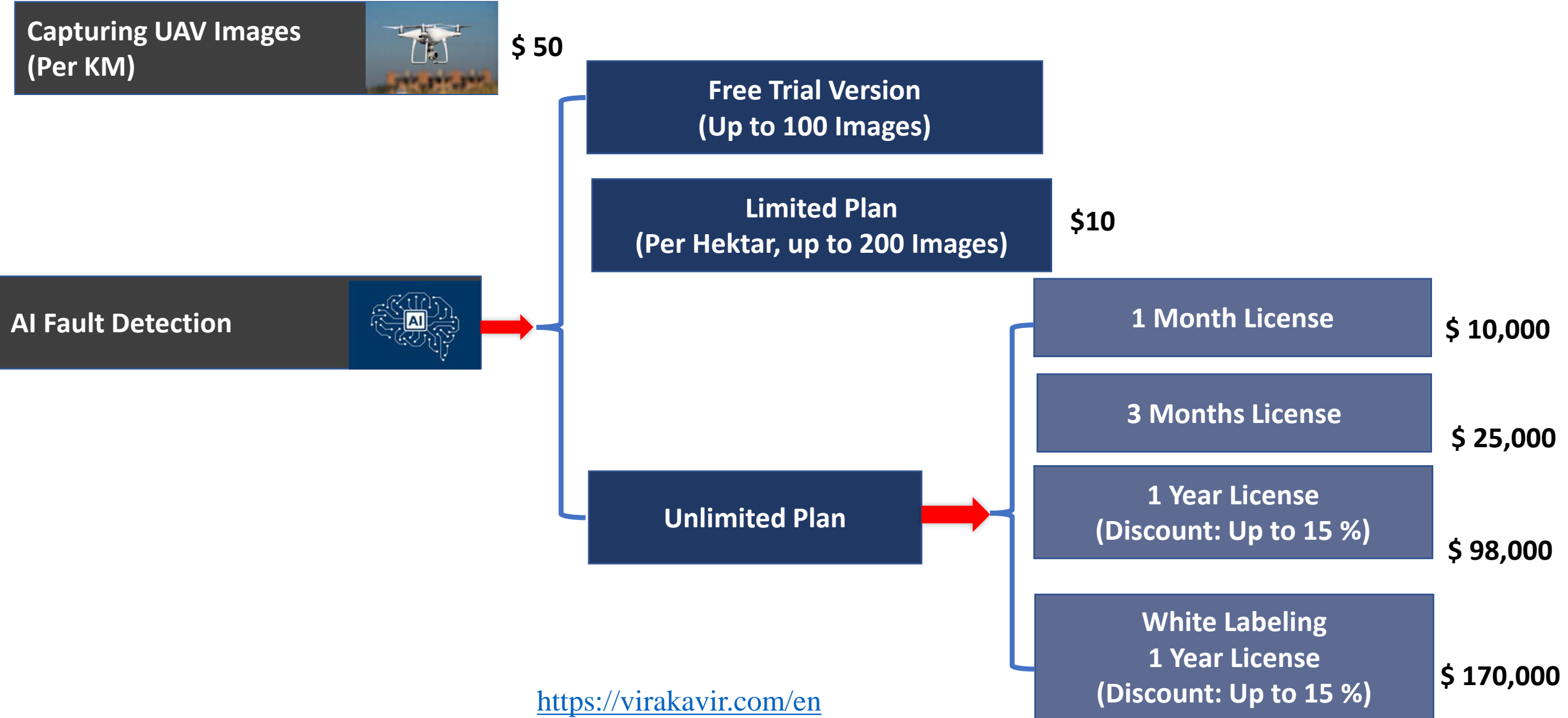
$

Market Size

US$ 32.5 Bn
In 2022

US$ 133.94 Bn
By 2030

The Railway Inspection Markets

The Middle East and Africa is a smart mining leading market.

https://virakavir.com/en

Business Model

Capturing UAV Images (Per KM) — $ 50

AI Fault Detection

Free Trial Version (Up to 100 Images)

Limited Plan (Per Hektar, up to 200 Images) — $10

Unlimited Plan

1 Month License — $ 10,000

3 Months License — $ 25,000

1 Year License (Discount: Up to 15 %) — $ 98,000

White Labeling 1 Year License (Discount: Up to 15 %) — $ 170,000

https://virakavir.com/en

Competitive Advantages

200000 Images Dataset

4 Types of Cracks

High Compatibility Software

Free Trial

Low Cost

Thank You

Please contact us for more information

a.karami@virakavir.com , azam.karami@gmail.com

+98 913 398 7567

https://virakavir.com/en