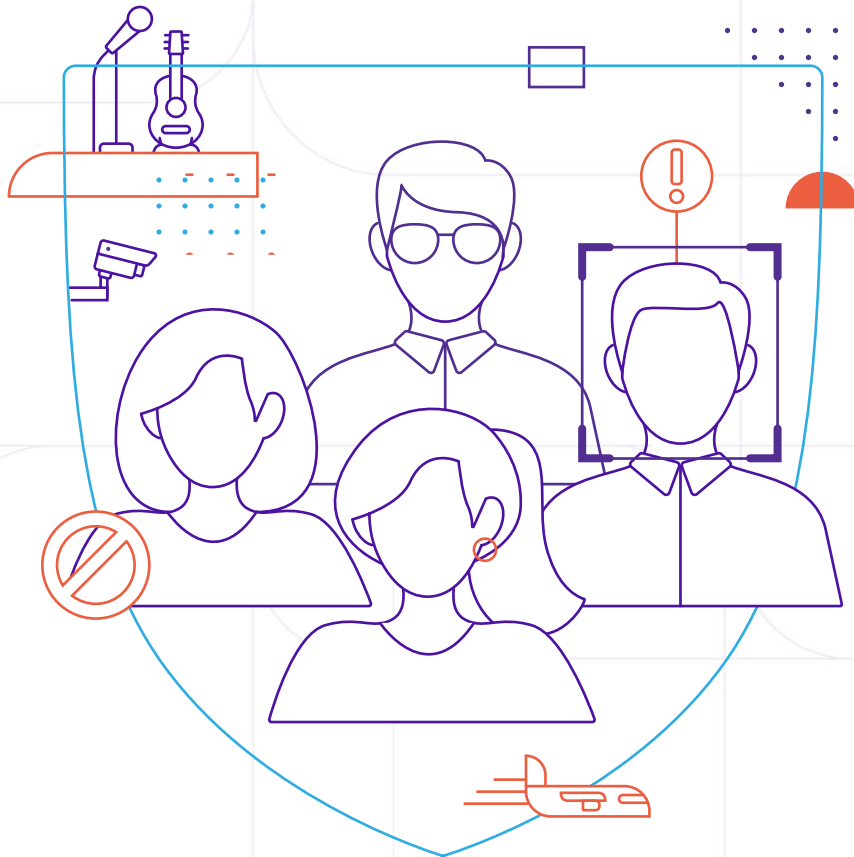




Nodeflux **Company Profile**

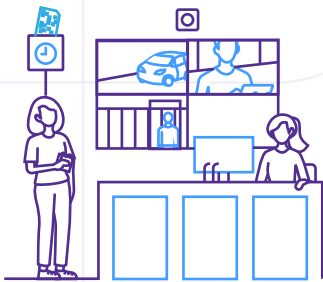


**nodeflux**  
Extending Vision Beyond Imagination

# Contents

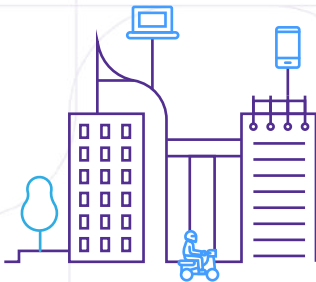
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## We Have **Bold Missions**



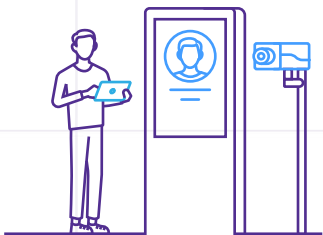
### **Business Performance**

Commitment for excellence is the foundation that strives our business performance to go above and beyond in order to be a catalyst for technology advancement in Indonesia



### **Nation Contribution**

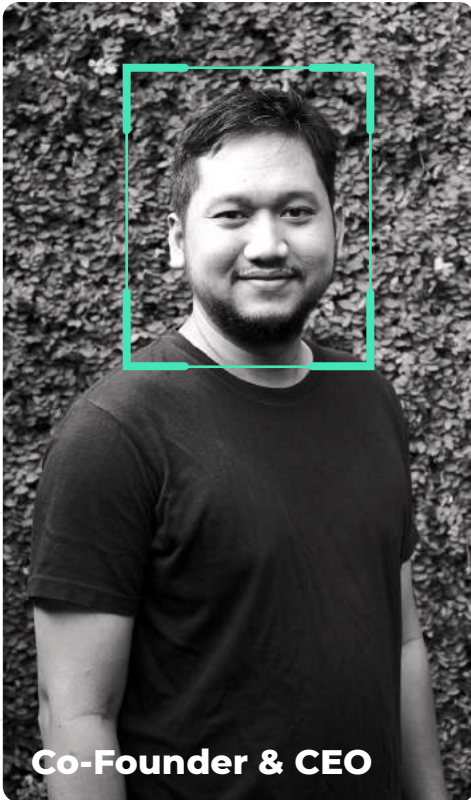
Nation Independency, as clearly stated in The 1945 Constitution's Preamble, has been an ultimate purpose and a shared responsibility that our nation endeavoured to achieve.



### **Technology Mastery**

Our passion in technology is boundless. Exploration through research and development approach is how we accelerate and translate our ambition into creation

## It All Started with **Our Founders**

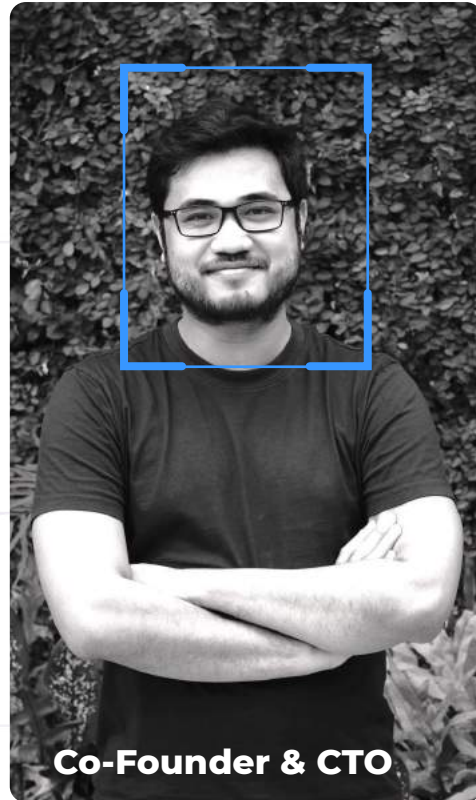


**Co-Founder & CEO**

### **Meidy Fitranto**

Meidy is a serial entrepreneur with a keen eye for business opportunities. Intelligent, resilient, and driven, sustainable growth is a must for Meidy.

Nodeflux is very agile thanks to his ability to lead the company in the right direction, making necessary changes as it grows rapidly.



**Co-Founder & CTO**

### **Faris Rahman**

The leading edge of technology is a comfort zone for Faris. He strives in difficult situations and always push for innovation.

Faris is not afraid to push the envelope and go beyond what everyone thought was possible. His optimistic nature and persistence are invaluable.

## Our Board of Directors



### **Ivan Tigana**

**Chief Business Officer**

Universitas Katolik Parahyangan



### **Adhiguna Mahendra, Ph.D**

**Chief Research & Product Innovation Officer**

Ph.D Universite de Bourgogne  
Master Heriot-Watt University  
Bachelor Universitas Indonesia



### **Adhi Nugroho Murbini**

**Chief Operating Officer**

Bandung Institute of Technology

**Our brightest minds are coming from all walks of academic origin**



## Our Commitment to Research & Development



### 2018

**Best Presenter Awards** on *The 3rd International Conference on Computer Science and Computational Intelligence (ICCSCI) 2018* Tangerang, West Java, Indonesia for The 1st Nodeflux Paper :

***"An Improved Version of Texture-based Foreground Segmentation: Block-based Adaptive Segmenter"*** by Kahill Muchtar, Faris Rahman, Tjeng Wawan Cenggoro, Arif Budiarto, & Bens Pardamean.



### 2018

**Outstanding Paper Awards** on *The 25rd International Computer Symposium (ICS) 2018 Yunlin, Taiwan*. ***"An efficient event detection through background subtraction and deep convolutional nets"***

by Kahlil Muchtar, Faris Rahman, Muhammad Rizky Munggaran, Alvin Prayuda Juniarta Dwiyanoro, Richard Dharmadi, Indra Nugraha, & Chuan-Yu Chang



### 2019

IEEE (Institute of Electrical and Electronics Engineers) Transactions on Intelligent Transportation Systems (Q1 Journal, Impact Factor: 4.051).

***"Moving Object Detection through Image Bit-Planes Representation without Thresholding."***

by Chih Yang Lin, Kahlil Muchtar, Wei-Yang Lin, & Zhi-Yao Jian.



### 2019

ICAIIIC (International Conference on AI in information and communication) 2019, Okinawa, Japan. ***"A unified smart surveillance system incorporating adaptive foreground extraction and deep learning-based classification."***

by Kahlil Muchtar, Faris Rahman, Muhammad Rizky Munggaran, Alvin Prayuda Juniarta Dwiyanoro, Richard Dharmadi, & Indra Nugraha.

## Our Milestones Number

**1** 

We are one of the **FIRST** and **LARGEST** Vision AI startup in Indonesia

**75** 

Numbers of team members

**7** 

Number of research papers we have published on International Journals

**>5** 

Awards & Recognitions

**3/5**

Key Law Enforcement Agencies with Nodeflux Solution

**\$20M**

Market Valuation

**26/34**

POLDA with Nodeflux Solution

**6K+** 

Number of AI-equipped CCTVs across Indonesia

**26** 

Number of Regional Police (POLDA) collaborated with us

**3** 

Provinces we are closely collaborating on smart mobility initiatives

**6** 

Smart City implementation across Indonesia

**11K** 

Number of secured athletes and officials at Asian Games 2018

**15K** 

Number of secured participants at IMF-WBG Summit 2018



# Our Proud Moments

## 2018



- Start collaboration with Polda.
- Dukcapil Database integration with Mabes Polri



ASIAN GAMES 2018 & IMF - World Bank Group Summit 2018 Bali



Received SATU Indonesia Awards in Technology Category

## 2019



Wider collaboration with Jakarta Smart City



Cooperation Agreement with Dukcapil on Platform Bersama



● 2020

**New Smart City Implementations**

More smart provinces and smart cities implementation: **Jakarta, West Java, East Java, Kab Bogor, Semarang, Indramayu, Timika, Manado, and Bandung**



Nodeflux developed **Covid-19 solutions** implemented in Jakarta and East Java



Nodeflux participated at **National AI Strategy Framework 2020-2045** by BPPT



The launch of Nodeflux Catalyst as a partnership platform aimed to accelerate AI adoption in Indonesia



Policy Prototyping on AI-Explainability with Facebook



Develop Retailmatix as business unit

## Recognitions

Through a strong commitment to the development of AI-based technology, Nodeflux has received awards and recognition from various institutions and institutions both at national scale and international.

### International Award Recognition



**1st** in NTT Startup Challenge

### National Award Recognition



**1st** in BPPT Innovator Awards



**1st** in Startup World Cup  
Regional



Nodeflux is the **first company** from Indonesia among

**24**

Nvidia MSP Official  
Global Partner

Nodeflux also listed at the US NIST's Leaderboard  
**Submitted on 26-8-2019**

**1st**

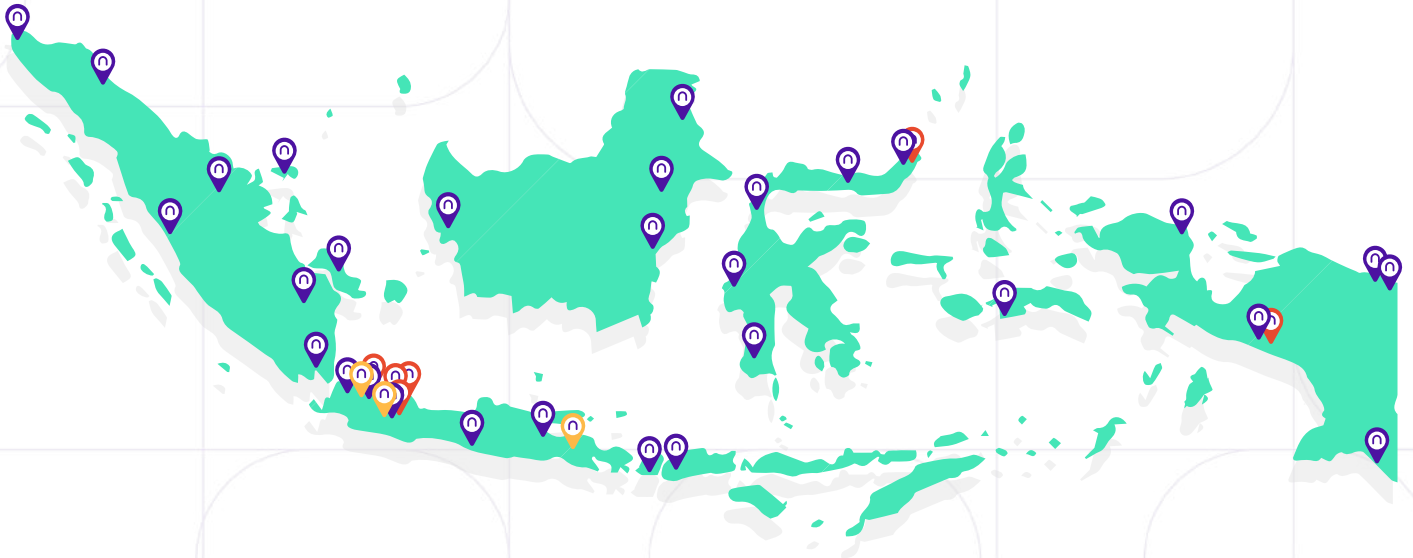
Indonesian AI company  
Listed at the Leaderboard

**25**

World's best from 90 Vision  
AI company around the world

The National Institute of Standards and Technology is a physical sciences laboratory and a non-regulatory agency of the United States Department of Commerce. Its mission is to promote innovation and industrial competitiveness

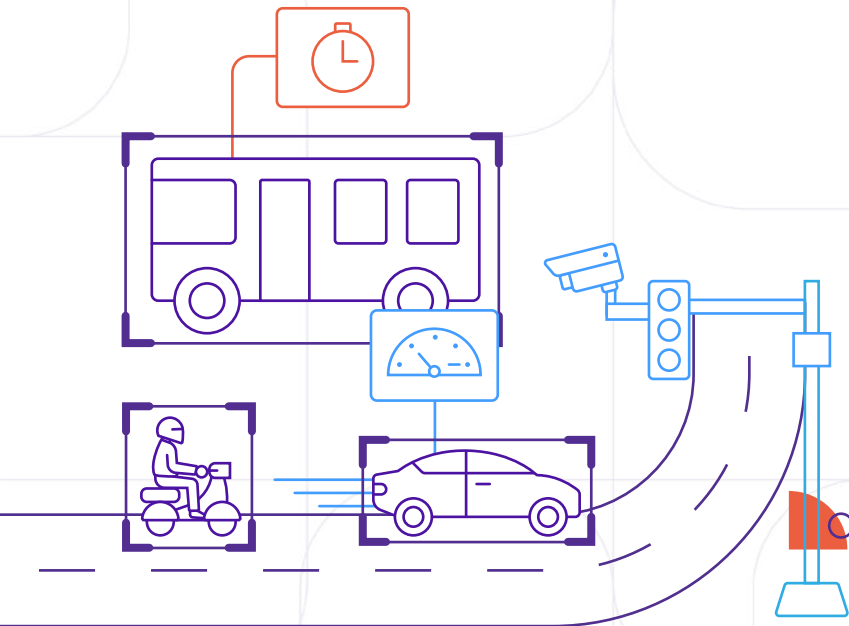
# Nodeflux Implementation



📍 29 — Polda      📍 3 — Smart Province      📍 6 — Smart City



## Our Core Products



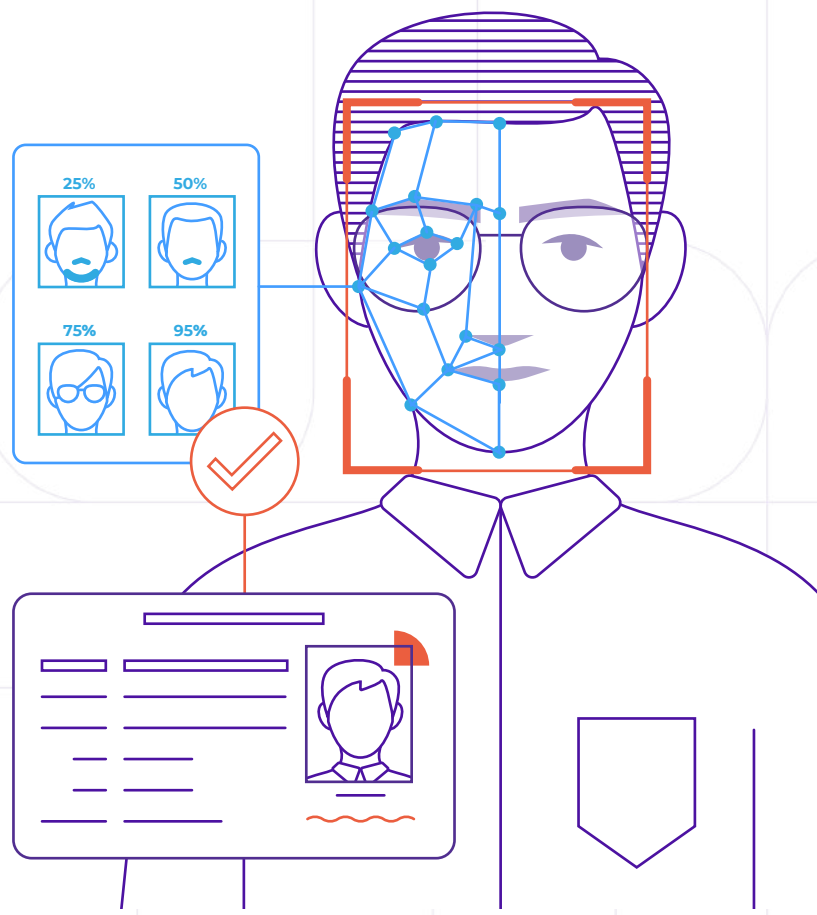
### **Surveillance Analytics as a Service**

Provide image processing computation both for stream and snapshots based on selected analytics. Targeted for developers and system integrators to build solution.



### **eKYC Solutions**

Provide E-KYC solution to automate identification and authentication process integrated with primary data provider, Dukcapil. Mainly used for financial services.



# How Our Platform Works

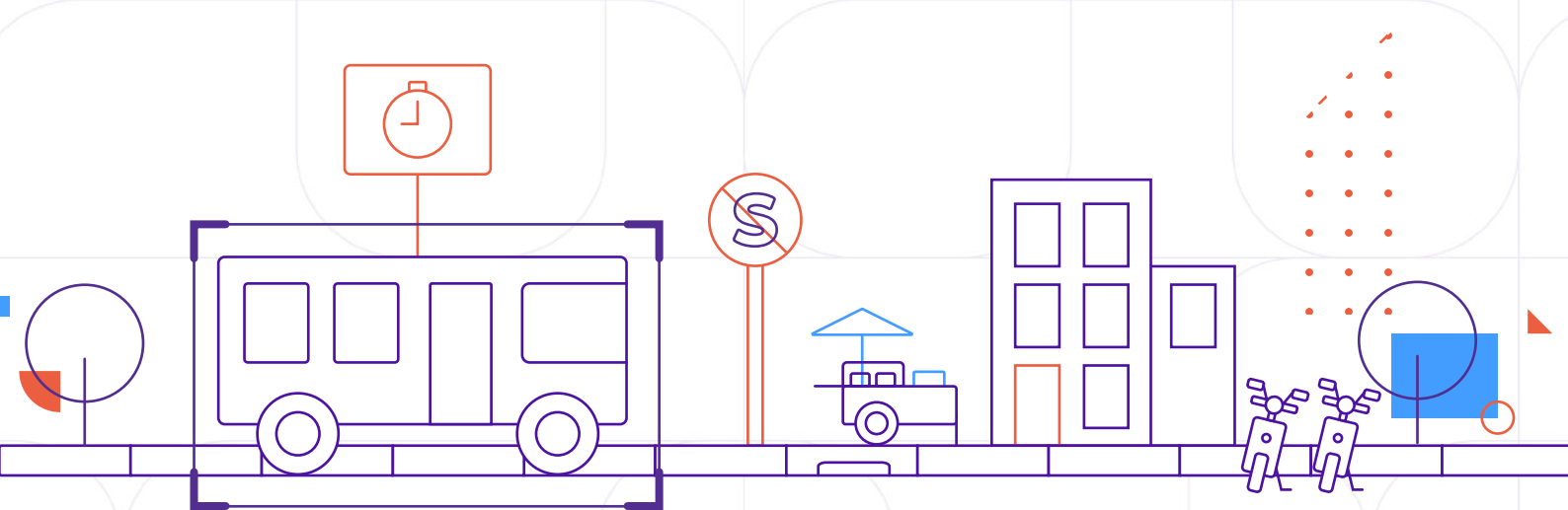
Utilizing cutting-edge AI Computer Vision Technology, We **Transform Images & Videos** into **Structured Data** for our customers



**Image & Video**



**Insight & Value**



# Why Nodeflux?

## Wide Variety of Products

Currently we have various analytics for object detection such as face, vehicles, plate number, characters, etc.

## Easy Integration

Clients could easily integrate and build solution through REST API, SDK, webhook

## Professional Support

From the engineering, sales, to partnership team, we are the best people in the fields to provide best AI solutions for our clients

## Global Competence

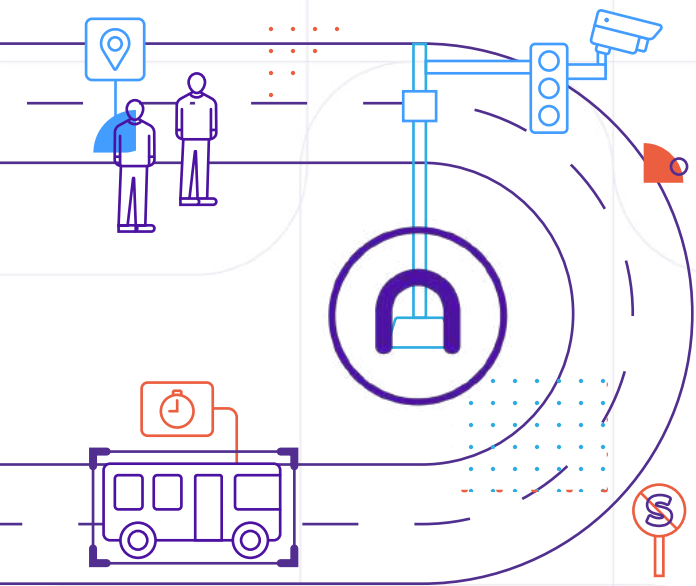
The first Indonesian startup listed on the U.S NIST Face Recognition Vendor Test (FRVT)

## Proven Implementation

Experience have taught us in handling various clients in diverse environment.

## High Quality Databank

Our analytics kami is built with a wide variety and high quality dataset for best performance





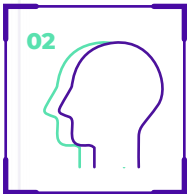
# Realtime Streaming Analytics



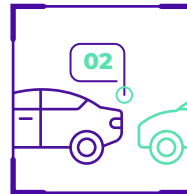
Face  
Recognition



License Plate  
Recognition



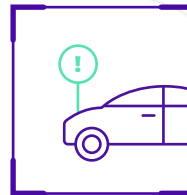
People  
Counting



Vehicle  
Counting



People  
Dwelling



Vehicle  
Dwelling



Crowd  
Estimation

# Snapshot Analytics



Face Recognition (1:N)



Face Match (1:1)



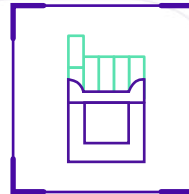
Face Mask Detection



Face Enrollment Service



People Density



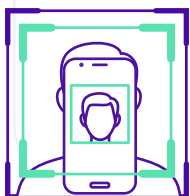
SKU Recognition



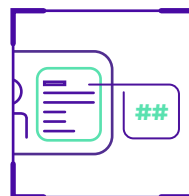
Vehicle Density



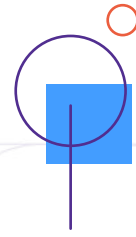
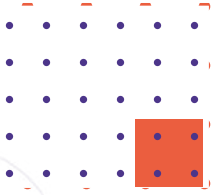
License Plate Recognition



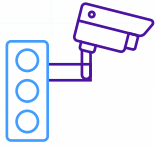
Liveness Detection



Optical Character Recognition



# Use- Case



### **Smart City + Governance**

- Public Mobility Monitoring
- Face Mask Detection
- Plate Based Compliance
- Real Time Road Traffic Monitoring
- Smart Parking
- Digital Onboarding
- All-in-one Surveillance



### **Financial Service**

- Digital Onboarding
- Credit Scoring
- Pay with Face
- Customer Experience
- Blacklist Person



### **Facility**

- Human Resource and Information System (HRIS)
- Visitor Management System
- All-in-one Surveillance
- Face Mask Detection



### **Transportation**

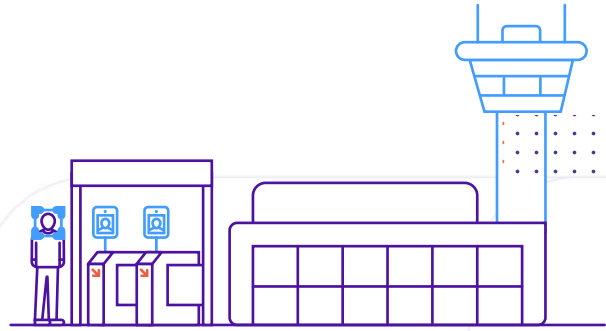
- Public Mobility Monitoring
- Pay with Face
- Real Time Road Traffic Monitoring



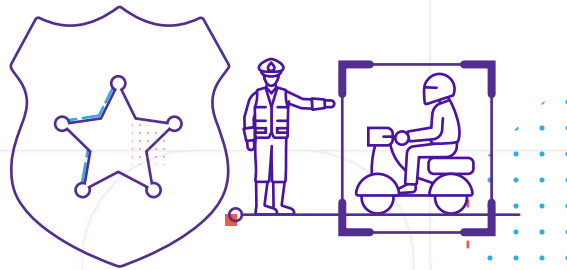
### **Telecommunication**

- Registration & Replacement
- Prepaid/Postpaid

## Use- Cases



### **Smart City Solutions**



### **Security & Surveillance**



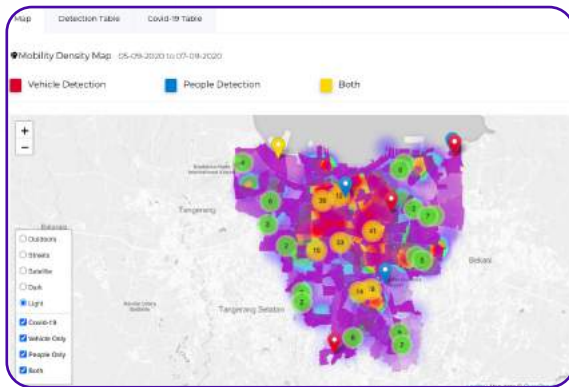
### **Electronic Know Your Customer (EKYC) & Identification System**



# Success Stories

**Success Story:**

**Public Mobility Monitoring  
Jakarta**



We are collaborating with Jakarta Smart City to monitor the density of vehicles and people. The data can be use as an indicator of public mobility as a data-driven policymaking reference, especially at a time of pandemic.

**Success Story:**

# **Covid-Solution: Face Mask Detection**

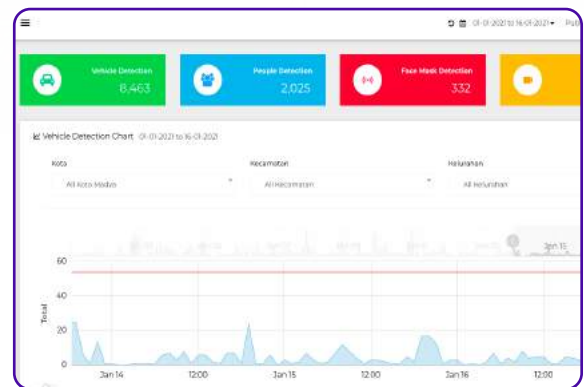
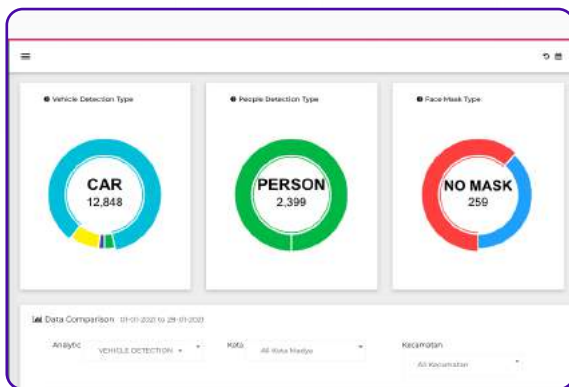


We are collaborating with East Java Government to deter the spread of pandemic through public compliance on health protocol. We installed CCTVs in traditional markets that has the capability to detect whether people is wearing a mask or not.



**Success Story:**

# Public Mobility Monitoring Semarang



We are working together with the Government of Semarang, a thriving city in Central Java on public mobility monitoring initiative to monitor the societies movement at a time of pandemic. Our technology is able to help the Government in providing the data analysis of vehicle and people detection. This data is very useful as a data-driven policymaking reference for the Government. In addition, we also implement Face-Mask detection, so we are able to give insight whether certain individual is wearing a mask or not.

**Success Story:**

# Asian Games 2018



ASIAN GAMES | 2018  
Jakarta Palembang

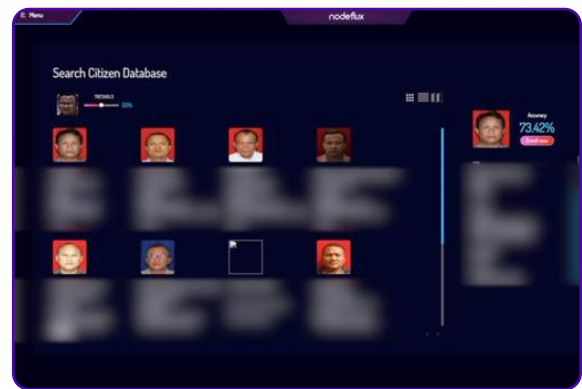
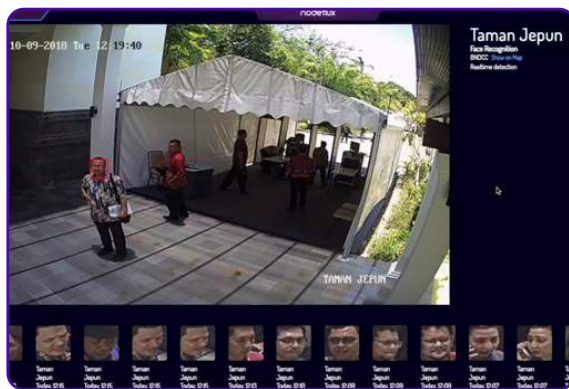


The 2018 Asian Games is an international sporting event which is the pride of the Indonesian Nation. It takes careful preparation and strict security to ensure this event goes smoothly. Nodeflux is entrusted to assist the Indonesian National Police and organizers of the 2018 Asian Games in securing security.

With VisionAlre as the main platform and interconnection with data from Dukcapil, Nodeflux is able to present an integrated solution to answer various challenges during the 2018 Asian Games, especially in terms of securing and analyzing 2018 Asian Games visitors.

**Success Story:**

# IMF Annual Meeting 2018

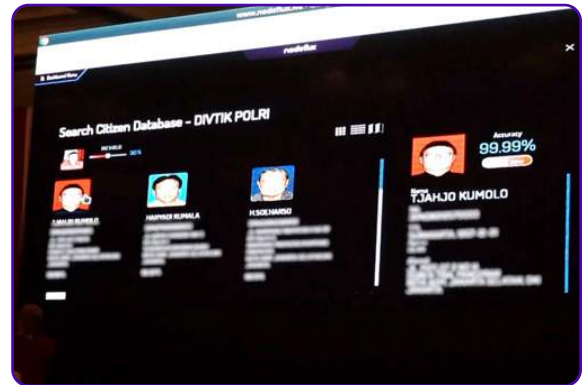


Events with a scale as large as the 2018 Annual IMF Meeting have their challenges. Tight security becomes a basic requirement, especially since guests whose coming are leaders from various countries in the world. Nodeflux is again involved in providing face recognition services with data connected to Dukcapil.

For the purposes of securing the 2018 IMF Annual Meeting, Nodeflux became an integration partner of the National Police. The entire security dashboard that uses artificial intelligence is provided by Nodeflux on VisionAire as our artificial intelligence platform.

**Success Story:**

# Dukcapil Data Integration for POLRI

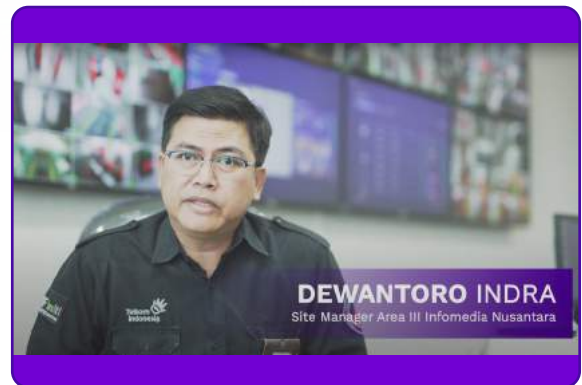


Data integration compiled by Dukcapil for security purposes by the National Police is one of Nodeflux proud achievements as a company. Nodeflux holds a key role in connecting the Polri system that is already running with population data in the Dukcapil database.

As a result, integration by Nodeflux enables the National Police to search for data based on facial characteristics with a high degree of accuracy. Through this integration, VisionAIre as a platform can also learn from more cases and search queries.

**Success Story:**

**INFOMEDIA Bandung  
2019**



Nodeflux successfully implemented Visitor Management System to enhance Infomedia security as a Telco company.

As a result, there has been an efficiency improvement towards their security manpower up to 36% rate. By number, from 33 personnel for 10 floors to 21 person. Estimated cost reduction Rp 547.000.000 per year. They are also prevented 1 crime within the first 4 months.

**Success Story:**

**VisionAlre Face**



As one of official Certified Authority institution by OJK IKD, the importance to verify the person who do digital signature is a critical matter. Nodeflux IdentifAI help us to gain better verification value by providing comparison to DUKCAPIL (Indonesia's Official Citizen Database) as PLATFORM BERSAMA official member.



Fraud activities towards tax reporting process, is a common practice found in every Tax Officials By establishing EFIN Pajak from DJP and combined with Nodeflux IdentifAI+ LIVENESS, not only make it easier for the citizen to report and less fraud risk by confirming it is a real person who actually engage within the process.



As one of the biggest Financial Technology in Indonesia, securing customer onboarding process towards any fraud activities are one of their main priority in account management. Nodeflux VisionAlre Face 1:N provide a convenient way to filterize Kredivo's onboarding process for fast checking regarding blacklisted people.

## Featured in

National and  
International Media



Sejak awal, **Nodeflux** memiliki visi untuk berkembang dan menjadi pendorong perkembangan di berbagai sektor. Kecerdasan buatan adalah metode yang cocok bagi kami untuk memenuhi visi besar tersebut.

Kerja sama yang baik merupakan langkah tepat dan dapat yang menguntungkan kedua belah pihak. Kami berharap bisa menjadi mitra strategis dalam melakukan penerapan kecerdasan buatan.



**Meidy Fitranto**  
**CO-Founder & CEO**

**Let's**  
**Collaborate**





Phone : **021 - 227 18184**

Email : **hi@nodeflux.io**

**PT NODEFLUX TEKNOLOGI INDONESIA**

Jl. Kemang Timur No.24

Jakarta Selatan 12730