



# MOBILE NETWORK & PERVASIVE COMPUTING RESEARCH GROUP

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA (PENS)

# GROUP MEMBER

Prima Kristalina

Moch. Zen Samsono Hadi

Rahardhita Widyatra Sudibyoy

Aries Pratiarso

Nihayatus Sa'adah

Afifah Dwi Ramadhani

# HOME BASE

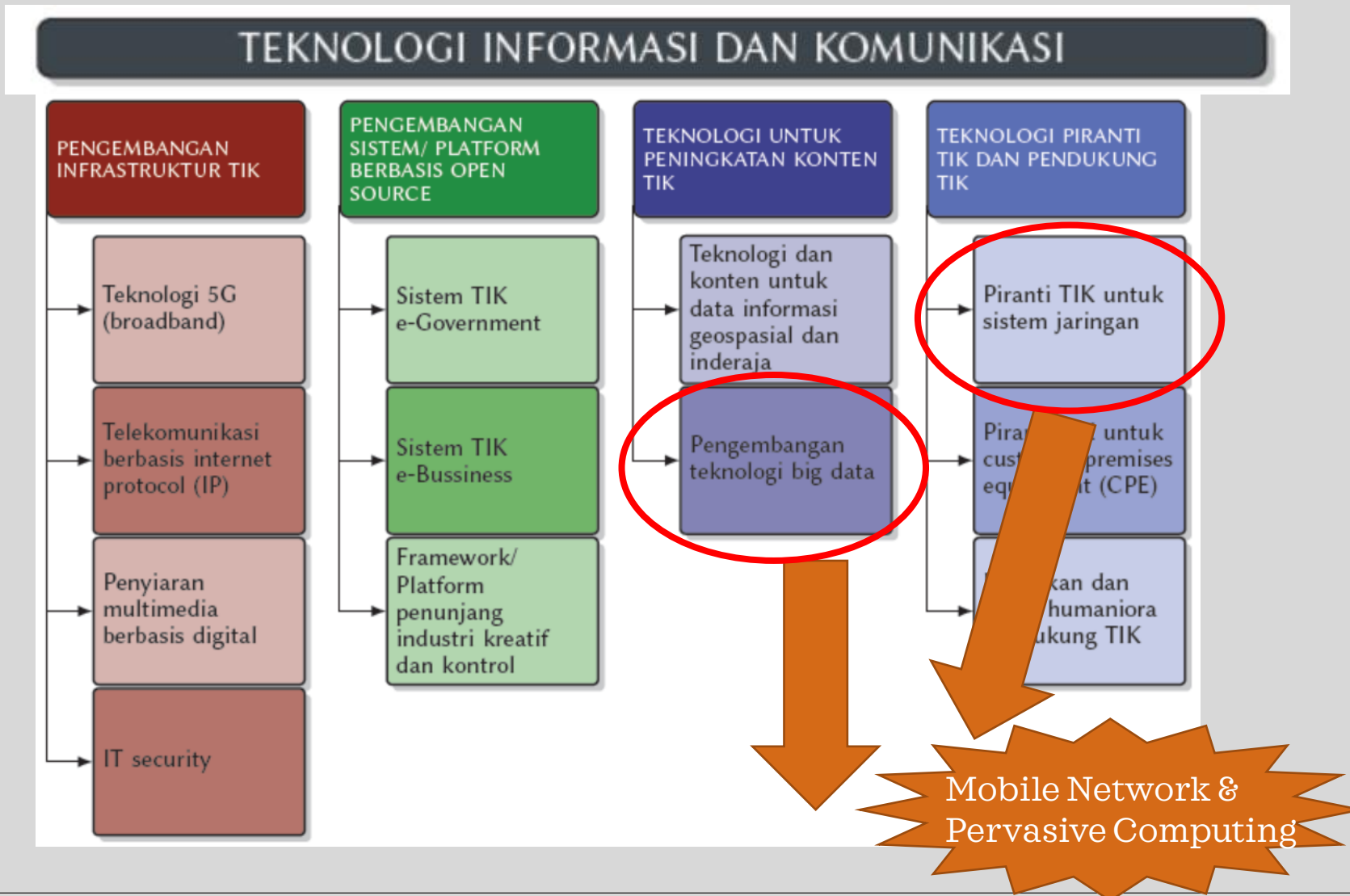
- Digital Communication Lab (E-107)



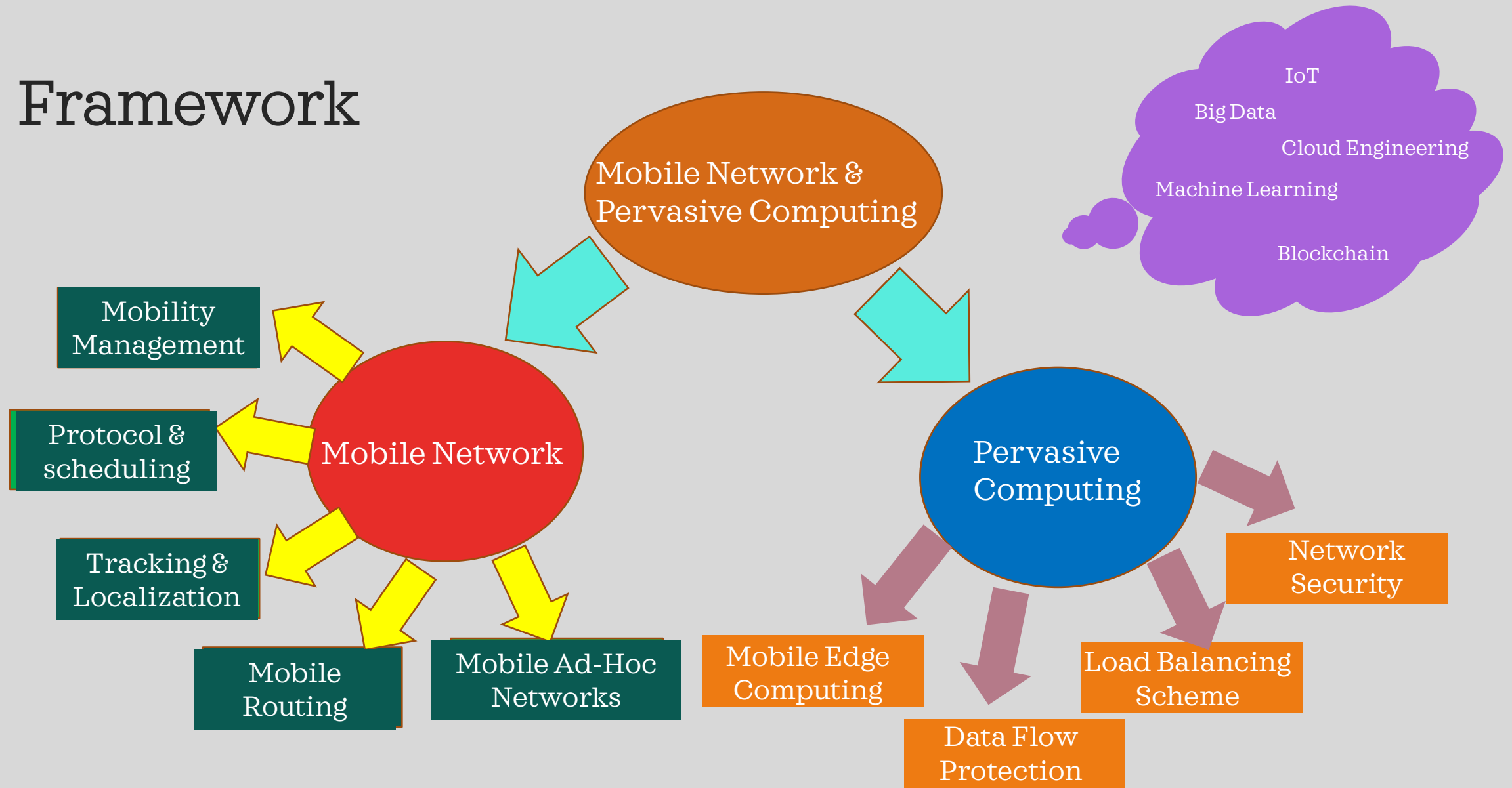
# DESCRIPTION

- Perform research, create inventions, carry out community service, develop learning modules, and produce learning-based projects that focus on the following areas:
  - Mobilitas Management
  - Routing & Scheduling
  - Tracking & Localication
  - Mobile Edge and Fog Computing
  - Load Balancing Scheme
- To support such technologies related to:
  - Internet of Things
  - Wireless Sensor Networks
  - Wearable Computing
- As solutions in the field of **Smart Farming, Structural Health Monitoring, Smart Victim Detection, Smart Healthcare**

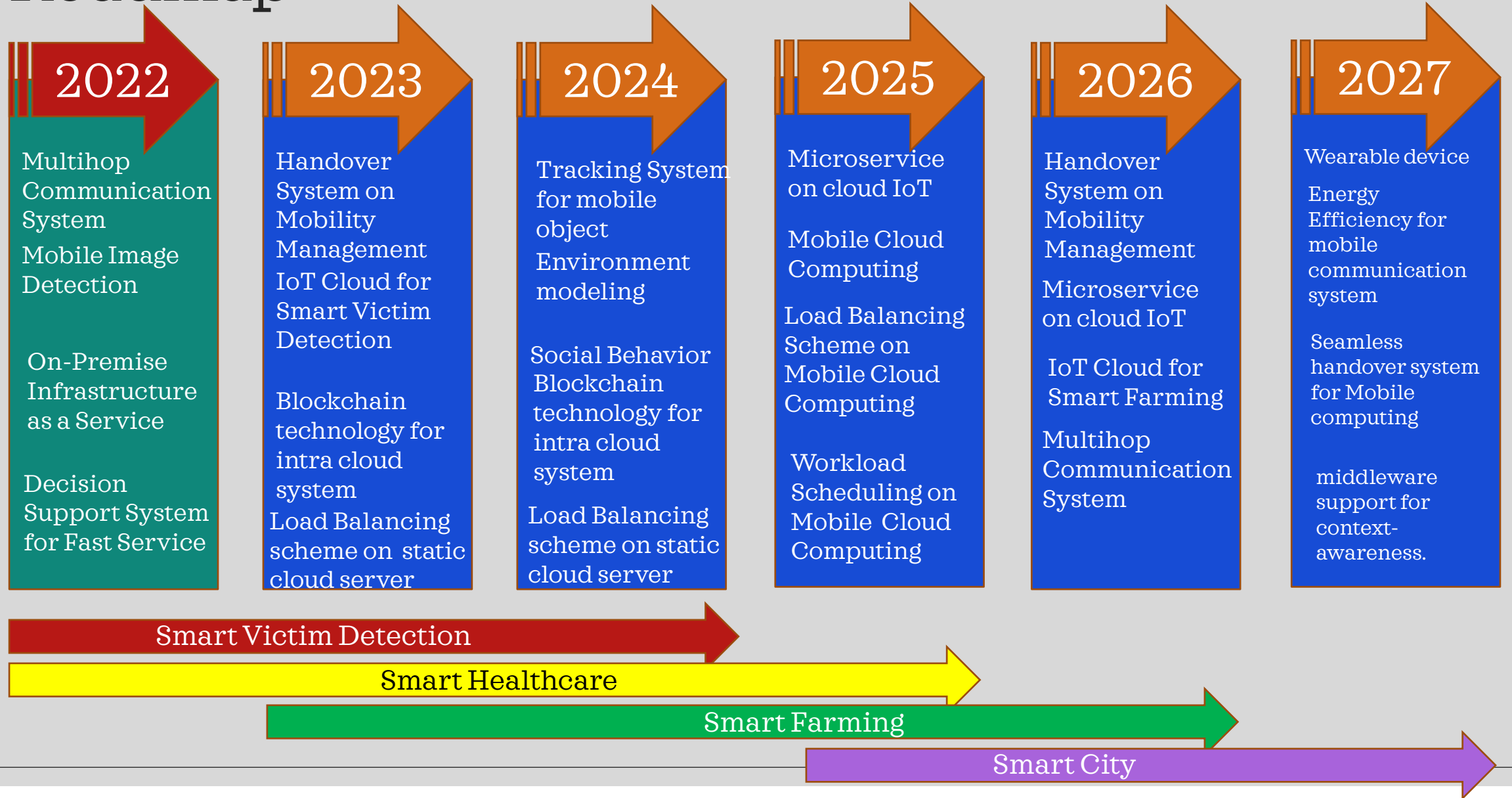
# Posisi RG terhadap RIRN 2017 2045



# Framework



# Roadmap



# Capaian Luaran dalam 5 tahun ke depan

**Penelitian DRPTM** untuk Seleksi Korban di Kebencanaan  
**Penelitian Matching Fund** untuk Smart Healthcare  
**Penelitian Lokal** tentang Smart Healthcare  
**Jurnal Internasional Bereputasi** Q2, Q4  
**Artikel Seminar Internasional**  
**Pengabdian Masyarakat** di bidang Smart Healthcare  
**Paten dan Hak Cipta** tentang Smart Victim Detection  
**Project-Based Learning** tentang Smart Victim Detection

**Penelitian DRPTM** untuk Tracking System untuk tim SAR di lingkungan Bencana  
**Penelitian Matching Fund** untuk Smart Farming  
**Penelitian Lokal** tentang Environment Modeling di Smart Farming  
**Jurnal Internasional Bereputasi** Q2, Q3  
**Artikel Seminar Internasional**  
**Pengabdian Masyarakat** di bidang Smart Farming  
**Paten dan Hak Cipta** tentang Smart Healthcare  
**Project-Based Learning** tentang Iot on Smart Farming

**Penelitian DRPTM** untuk Cloud IoT untuk Smart Farming  
**Penelitian Matching Fund** untuk Mobile Cloud untuk Smart Healthcare  
**Penelitian Lokal** tentang Mobile Cloud untuk Smart Healthcare  
**Jurnal Internasional Bereputasi** Q2, Q3  
**Artikel Seminar Internasional**  
**Pengabdian Masyarakat** di bidang Smart Farming  
**Paten dan Hak Cipta** tentang Smart Healthcare  
**Project-Based Learning** tentang Iot on Smart Farming

**Penelitian Matching Fund** untuk Mobile Cloud untuk Smart Farming  
**Penelitian Matching Fund** untuk Handover System for Smart City  
**Penelitian Lokal** tentang Microservice cloud IoT for Smart City  
**Jurnal Internasional Bereputasi** Q1, Q2  
**Artikel Seminar Internasional**  
**Pengabdian Masyarakat** di bidang SHM  
**Paten dan Hak Cipta** tentang Multihop communication di Smart City  
**Project-Based Learning** tentang Handover System for Smart City

**Penelitian Matching Fund** untuk energy efficiency di Smart City  
**Jurnal Internasional Bereputasi** Q1, Q2  
**Artikel Seminar Internasional**  
**Pengabdian Masyarakat** di bidang Smart City  
**Paten dan Hak Cipta** tentang Handover System untuk Mobile CC

2023

2024

2025

2026

2027

# EXISTING STAKEHOLDER

1. Basarnas Surabaya
2. Dinas Pertanian Gresik
3. Dinas PUPR Gresik
4. PT. Techno International Mandira Jakarta
5. AWS Indonesia Jakarta
6. PT. Telkom Jakarta





**TERIMA KASIH**