



"A system for automatic identification of road congestion and traffic signal regulation"

"Seeking industrial partners for co-development, production and marketing"

Preface

- Ministry of Housing and Urban Affairs, Government of India launched the Smart Cities Mission (SCM) on 25 June 2015 for development of 100 cities as Smart Cities wherein projects are executed through joint ventures, subsidiaries, public-private partnership (PPP), turnkey contracts, etc. It is also projected that more than half of the Indian population will reside in urban area by the time India turns 100.
- As on 12 November 2021, 100 Smart Cities selected under Smart Cities Mission have tendered out 6,452 projects worth ₹ 1,84,998 crore.
- Intelligent Traffic Management System is one among the important components under this Mission.
- Most of these traffic Management System rely on acquisition and processing of traffic images to make smart traffic regulation decisions.
- Although most of the image processing tools currently in use have limitations in terms of precise traffic mapping questioning the reliability and usefulness of efficient traffic management in ensuring safety of commuters, pollution control and decreasing commute time.
- **We are offering license for a system for precise mapping of traffic congestion.**

Market Size & Growth Projection

- Intelligent Traffic Management System Market size worth \$ 19.91 Billion, Globally, by 2028 at 10.1% CAGR [Source: Verified Market Research]
- As on 12 November 2021, 100 Smart Cities selected under Smart Cities Mission have tendered out 6,452 projects worth ₹ 1,84,998 crore. Many of these tenders are from Municipal Corporations of these cities for Smart Traffic Management Systems.
- National Highway Authority of India is also tendering for Smart Traffic Management Systems.
- With mandatory installation of Vehicle Location Tracking Device (VLTDS) in public service vehicles as per the Government Guidelines and setting up of command centers for live tracking of these vehicle, demand for intelligent traffic management tools is set to increase.

The Technology

A system which automatically maps road congestion and accordingly regulates traffic signal duration.

Innovator

Prof. Vimal Bhatia et al., Indian Institute of Technology Indore

[<https://iiti.ac.in/people/~vbhatia/>]

Value Proposition

- Low computational complexity
- Ease of integration
- Simple construction and components
- Enhanced and precise image processing
- Cost effective
- Reliable
- Low power consumption
- Automated
- Live monitoring and mapping of road congestion

Industrial Utility

- Intelligent traffic management
- Drone based hostile element mapping & management
- Drone-based crop monitoring
- Any other application requiring efficient image processing for an action

Intellectual Property

- Patent applied in India

Development Status

- Proof of concept established

On Offer

- Right to use, make, have made, import, export, sell, and offer to sale the system.

Technical Support

- Optional Technical Consultancy on payment basis

Competition

- System has competitive edge in terms of precise image processing and accurate categorization of road congestion making it a highly requisite component in Smart Traffic Management System.

Contact us at: reema.fitt@gmail.com

i-TTO, a regional tech transfer office established at FITT with support from NBM, BIRAC



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