

VaaaN

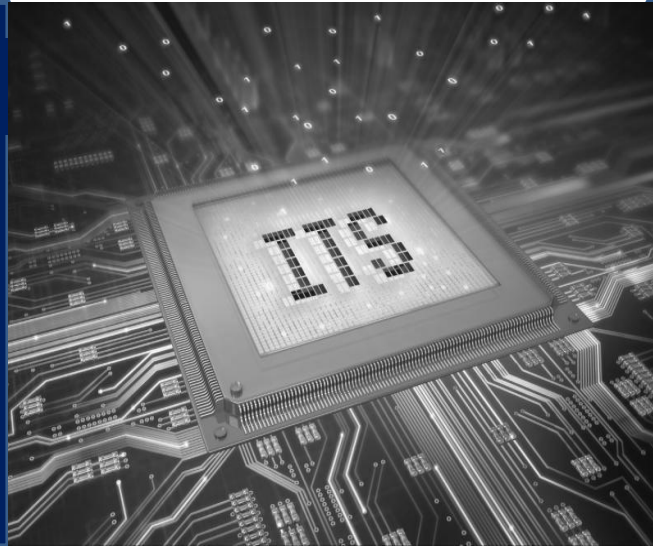
Tech Systems & Infra Solutions

VaaaN

Corporate Profile

What are we?

We are a leading organization specialized in Advanced Technical Solutions for Infrastructure Management



Who are we?

We are 250+ professionals having extensive experience in System Integration and Application Development



What do we do?

We are a
"One Stop Solution Provider"
for entire ITS domain



KEY OFFERINGS

Security & Surveillance



Toll Management Systems



Electronic Toll Collection



Weigh- In Motion



Advance Traffic Management Systems



Bus Rapid Transit Systems



Automatic Fare Collection Systems



Integrated Transit Management Systems



Smartt Waste Management



Smart City ITS



INTERNATIONAL & PAN INDIA PRESENCE



Presence in over 16
Indian States

4 Regional Offices

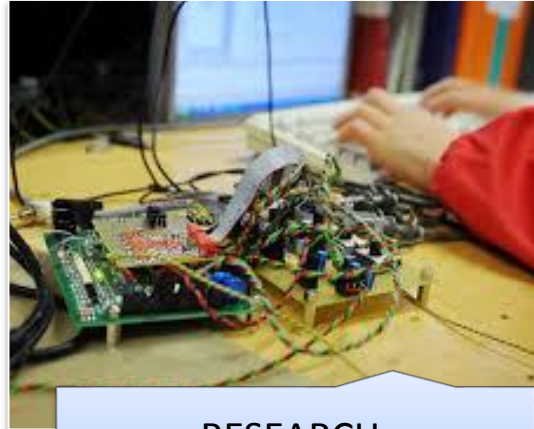
More than 120
Engineers in field

5 Major Projects in
Bangladesh

CORE COMPETENCIES



SYSTEM INTEGRATION



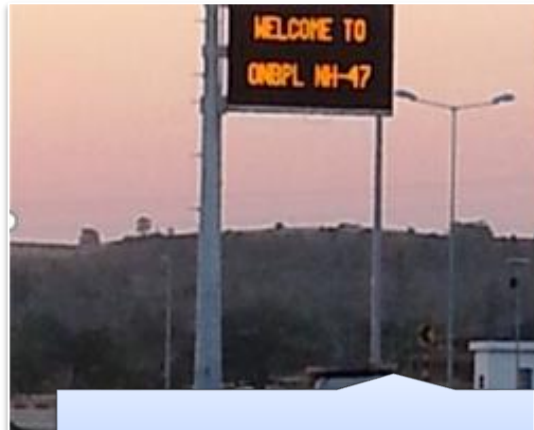
RESEARCH,
DEVELOPMENT & DESIGN



APPLICATION
DEVELOPMENT



ELECTRONIC
MANUFACTURING



PROJECT EXECUTION



OPS & MAINTENANCE

OUR STRENGTHS

Our holistic approach for each project enables us to add value to our clients and to boost the performance of our Solutions & Services

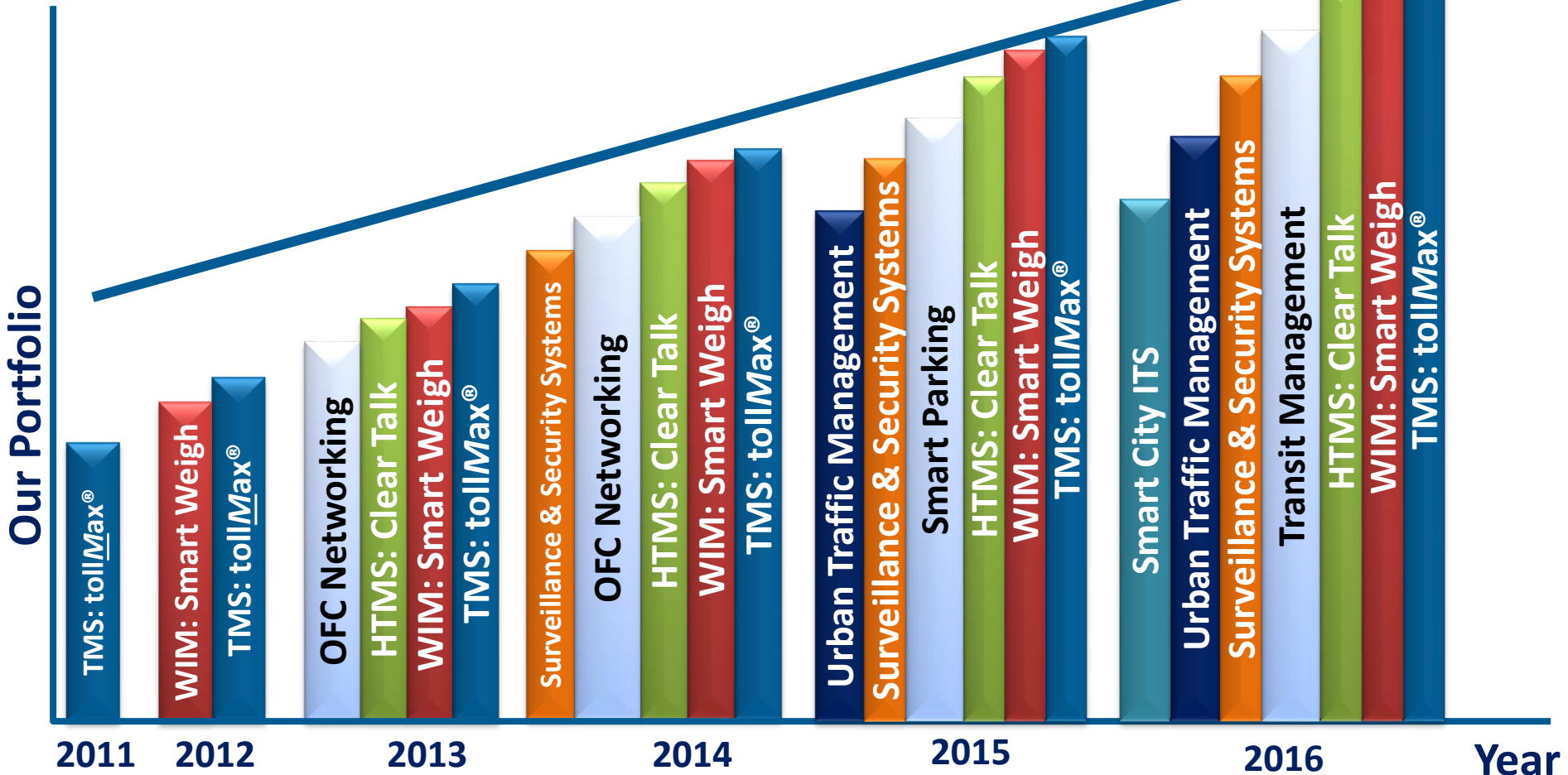
Our Strengths:

- Local Capacity & Infrastructure
- In house Software/Hardware Development
- Testing & Training Facility
- Ability to seamlessly integrate different Technologies/New Products
- Domain Knowledge
- 24x7 Customer Service & Support
- Best on-ground project support & execution teams

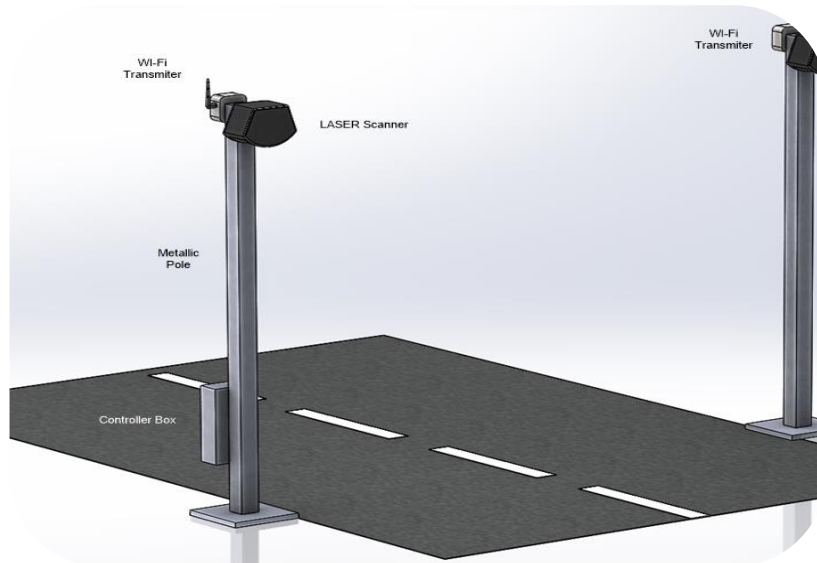


OUR ROAD PATH

The strategy of VaaaN, focused on striving for success and adding value to each project, explains our fast portfolio diversification



Innovation as per operating environment, Business Dynamics,
Advancement in Technology



AVCC

- Non Intrusive IR Based Profiler
- Announcing Launch of 3D Laser Based Profiler

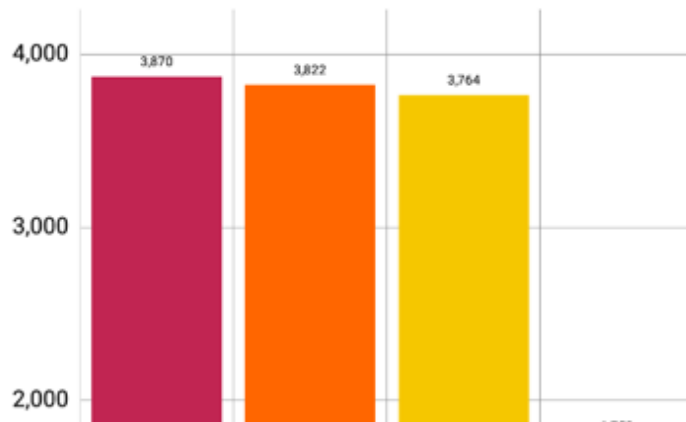


WIM

- Special Design to facilitate the Maintenance Ease without Lane Closure or Heavy Machinery to lift WIM

Innovation as per operating environment, Business Dynamics,
Advancement in Technology

Total Count 13,215



APPLICATIONS

- MIND – Management Information and Notification Dashboard
- RADAR – IOT based Application for Equipment Health Monitoring



DIGITISATION OF PAYMENTS

- Speedy Integration with NPCI CCH, E- Wallets

Reliable & Scalable

- Over 1 Billion Vehicles annually i.e. over 3 Million Vehicles daily flow through our tollMax® system

Maximize Revenue Collection

- Over USD 500 Million toll revenue annually collected through our systems.

High Uptime, Security and Reliability

- 24x7 reliable operations at over 250 Toll Plazas in India and abroad

MSWIM Integrated

- MSWIM integrated system, to prevent overloading through efficient enforcement.

Over 1500 Toll, ETC & WIM Lanes Installed

- Projects across India & Abroad of over INR 200cr

PAN India NHAI-ETC Project in 120 locations

- Expertise & Experience in both Closed Tolling and Open Tolling Projects

Won India's Best ATMS project award from NHAI

- Nagpur Betul (NH-69) 176 Km.

Surveillance Systems on more than 250 Toll Plazas & Highways

- In Depth Experience on Surveillance Systems and Control Centers

More than 1/3rd of India's Toll Plazas on NH's run on our Systems

- Stability of Solution and Quick Response time – Low Down Time

ADVANTAGE- *In-House Capacity*

No Third party Dependency

- Crucial hardware (AVC & TLC) has been designed and is built, assembled and tested in-house.

Easy & Ready Availability of Critical Spares

- Critical spares such as AVC motherboards, AVC Sensors shall be stocked at your Toll Plaza - immediate resolution in the event of any H/W failure

Prompt Customization & Modification

- Ability to seamlessly integrate different Technologies/New Products



In House R&D, Local Production Capacity, Training Facility

CLIENT PORTFOLIO

Since inception of Vaaan Infra, our highly valued clients have put their trust into us





tollMax[®]

Toll Management ERP



KEY BENEFITS OF VaaN tollMax®

Smooth
Functioning
in over 1000
toll lanes in
India and
Abroad

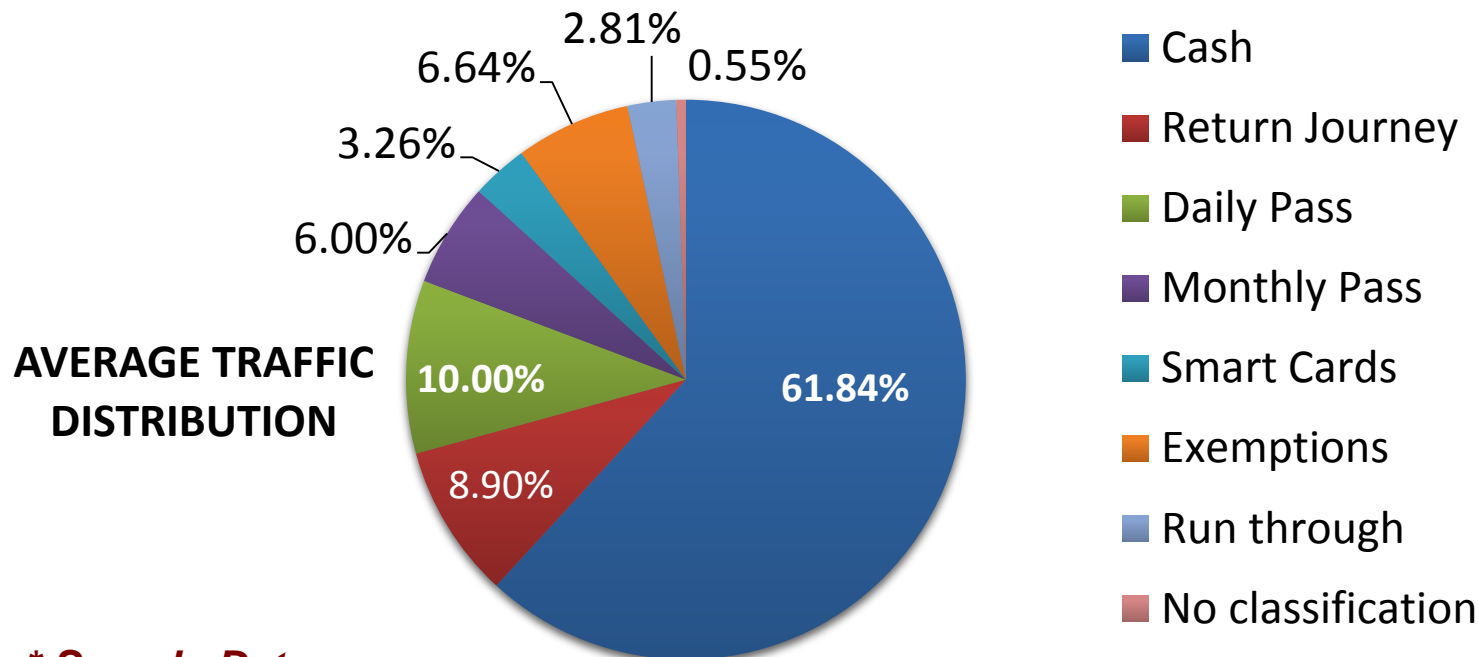
ETC and CCH
Integrated –
Implemented
in over 250
lanes

SSWIM and
MSWIM
Integrated –
Running in
over 300
Lanes

Robust &
Redundant
Database;
Efficient MIS
reporting

Pan India
24X7
Services;
Remote Fault
Management

MIND - Management Information & Notification Dashboard enables the Management to access the trend analysis of Toll Operations over their Mobile Phones & Tablets thus empowering them with first hand MIS. This analysis helps Management to analyse patterns of ***Exemptions, Revenue Collection, Violations & Run-throughs, usage of Discounted Passes etc.***



*** Sample Data**

RADAR - Remote Auto Diagnostics & Advanced Resolution – tollMax® is equipped with **RADAR** which helps Tech Support to get real time information of any critical equipment failure and Real Time Tech Monitoring of Toll Plazas

REMOTE AUTO DETECTION & ADVANCED RESOLUTION



Dashboard

▼ Operator Console

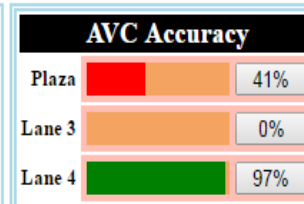
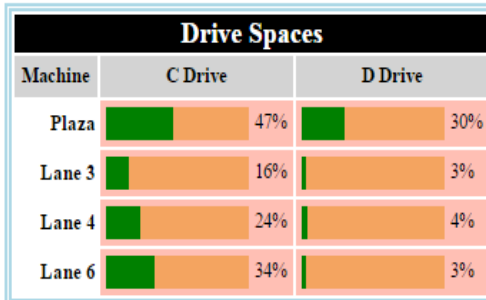
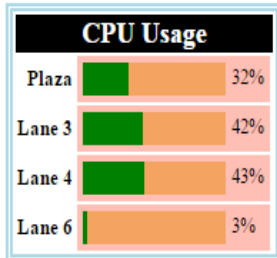
Admin

Reports

Complaint Registration

User Name : Administrator System

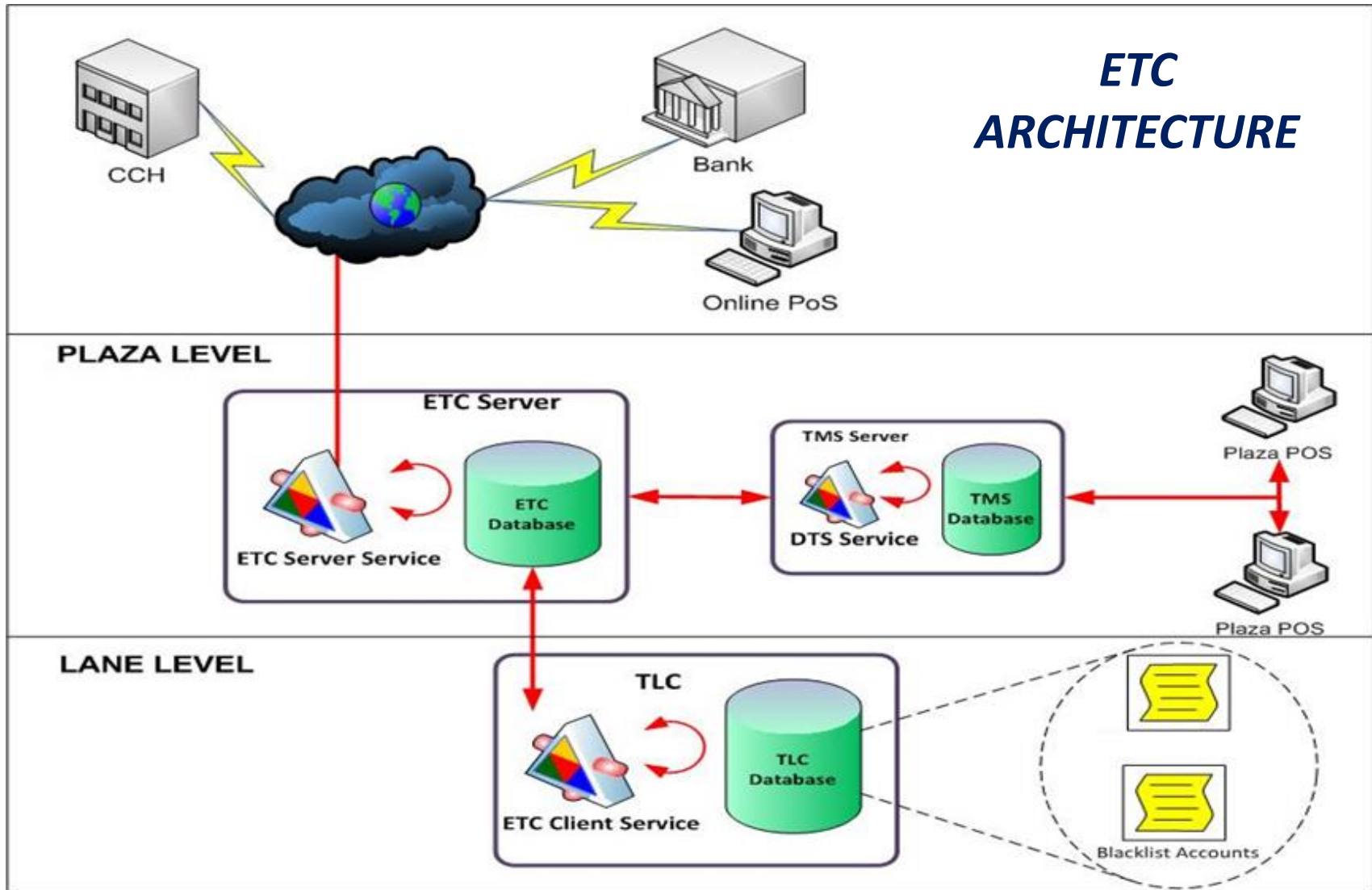
PATH Toll Plaza



TMS Services Running Status									
Machine	AVC	DTS	EMS	FTS	HCS	LDS	LGS	SSWIM	PGS
Plaza									
Lane 3									
Lane 4									
Lane 6									

TMS Hardware Connectivity Status																			
Machine	Printer	Barcode	Smartcard	AVC	LPR Camera	AVC Camera	ETC Reader	SSWIM	AS1	AS2	HS1	HS2	HS3	HS4	HS5	LightCurtain	InboxQueue	FailedQueue	Connectivity
Plaza																			
Lane 3																			
Lane 4																			
Lane 6																			

ETC – CCH INTEGRATION

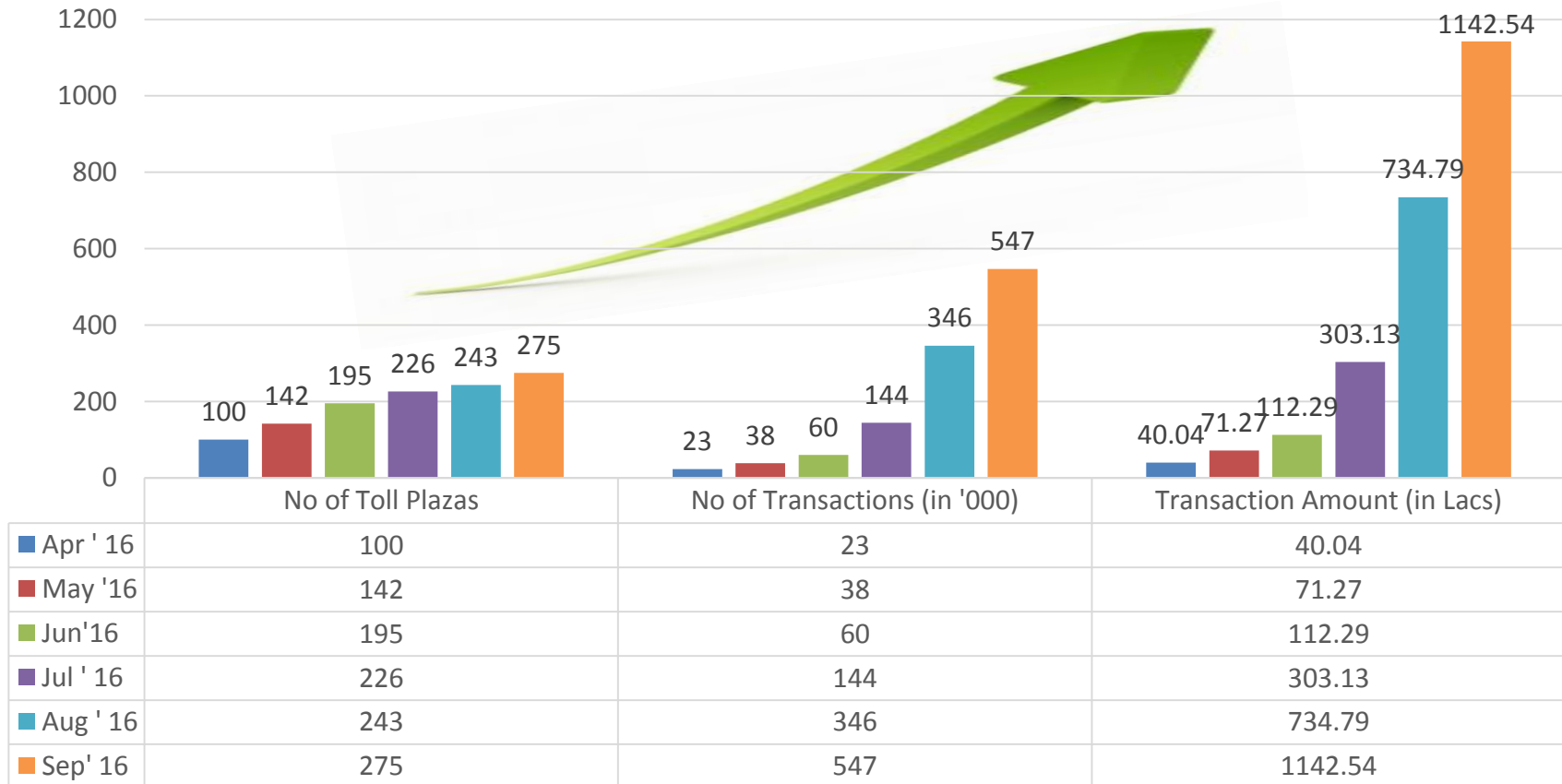


ETC GROWTH IN INDIA

Toll Plazas

Increasing No. of Transactions

Rising Revenue



FEATURES OF tollMax[®] WIM SYSTEM



Vehicles are Weighed
Accurately & Reliably



Both SSWIM & MSWIM
compatible



OIML-R-134 & Legal
Meteorology Certified



Reliable & Quality Load
Cells & Electronics



400% Overload
Capacity



Easy to Install and
Maintain; Reliable
& Tested

BENEFITS OF tollMax[®] WIM SYSTEM



Tech Systems & Infra Solutions

Overloaded
Vehicles are
selected
automatically

Efficient
Weight
Enforcement
Controls

Less Road
Damage,
Higher ROI

Improved
Traffic &
Public Safety

Certified
Weighing for
Automatic
Enforcement



Advanced Traffic Management Systems (ATMS)



COMPONENTS OF Vaaan ATMS



Video Surveillance System (CCTV PTZ Dome / Fixed Camera)



Video Incident Detection System



Vehicle Actuated Radar Speed Displays



Emergency Roadside Telephones



Fixed / Portable Variable Message Sign

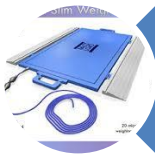


Meteorological System

COMPONENTS OF Vaaan ATMS



Mobile App



Portable Weigh in Motion



Automatic Traffic Counter cum Classifier



ATMS Control Centre



Communications System Using Optic fiber

NAGPUR – BETUL -176 KM – BEST AWARD 2016





Smart Offerings





Vaaan
Tech Systems & Infra Solutions

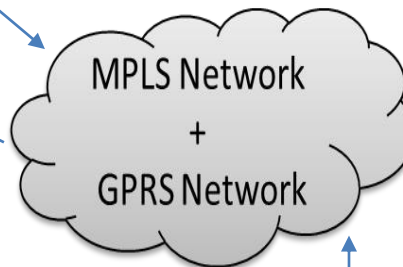
SECURITY & SURVEILLANCE

Under Vehicle Surveillance



CONTROL CENTRE

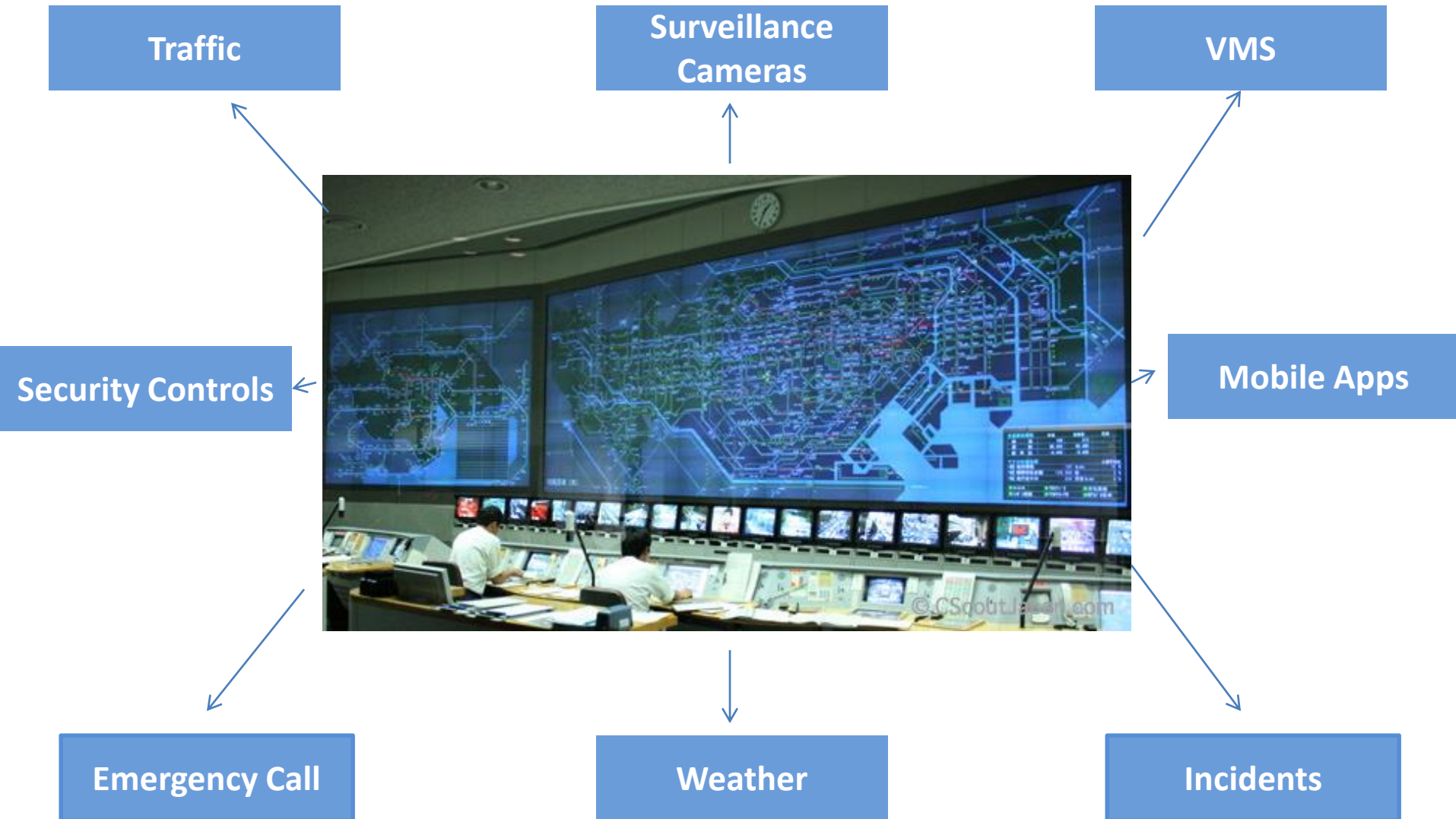
1. Image Processing
2. Video Analytics
3. Recognition



Border & City Surveillance



UNIFIED MONITORING & CONTROL



INTEGRATED MULTI-MODAL TRANSPORT



**BRTS
SOLUTIONS**



**METRO
SOLUTIONS**



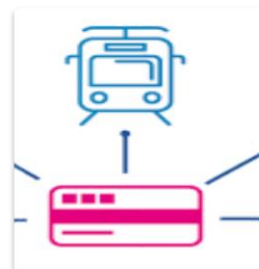
**BICYCLE
SHARING**



**LAST MILE
CONNECTIVITY**



SMART PARKING



**MULTI-MODAL
CONNECTIVITY**

Electronic Payment Services



Smart Card based
Fare Collection



RFID Enabled Fare
Collection



E-Wallet, M- Wallet
Enabled



Multiple Banks &
CCH Linked

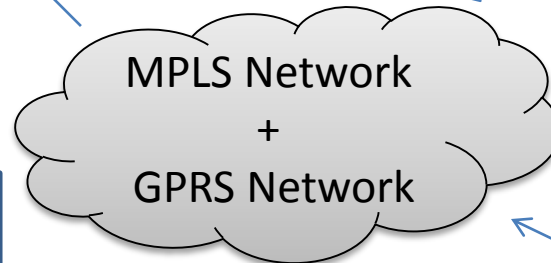


Web Based Payment
Gateway Linked

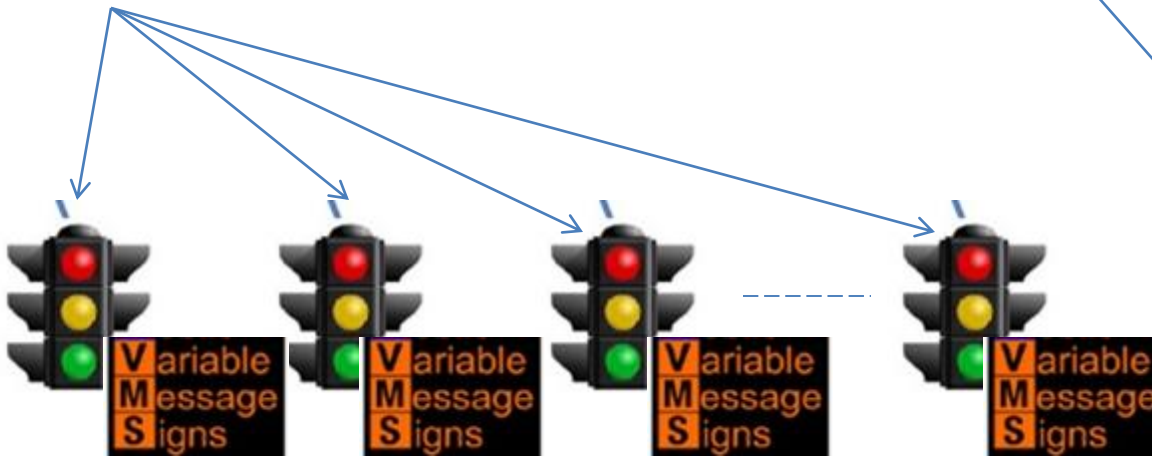
ADAPTIVE TRAFFIC SIGNAL CONTROL



Control Centre



1. Image Processing Tools
2. Microcontroller Based Traffic Light Controller
3. Wireless Transmission



VIDEO INCIDENT DETECTION



VIDEO INCIDENT DETECTION

Ambulance Detection



Vehicle Count at a Traffic Point



Video based SMOKE detection



RED LIGHT VIOLATION DETECTION SYSTEM



Red Light Violation Detection System(RLVDS)



Central Control

SPEED ENFORCEMENT

Speed Enforcement

First gate: **Bangalore Hyderabad Hwy 1**



Bangalore Airport rd. Celeritas Check Point 1 - Lane A
Date: 18/07/2013 10:21:20.443

Second gate: **Bangalore Hyderabad Hwy 2**



Bangalore Airport rd. Celeritas Check Point 2 - Lane A
Date: 18/07/2013 10:21:42.389

Plate:	KA03MP25
Speed:	88 km/h
Violation number:	75 / 2013
Vehicle class:	Autoveicolo
Verifier:	test01
Verify date:	18/07/2013 11:19:39

[Download pdf](#)

SMART PARKING

Optimum Space Utilization

Reduces Pollution

Reduces Operating Costs for
Parking Operator

Ease of Parking and Exit for
the User

Speedy and Efficient Solution



CONTACT US



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