BSMART Internet of Thing Solutions (b'ITS), designed on a high performance and versatile proprietary BSMART Access Terminal (b'AT) architecture and BSMART Management Console (b'MC) software platform, provides a wireless communications and positioning system designed for the collection and dissemination of data, with feasible applications including:

- Commercial vehicles for in-transit visibility, routine automation, fraud prevention as well as goods and vehicle safety
- Private vehicles for in-vehicle information services, emergency assistance, security and safety, navigation and entertainment needs.
- Public vehicles Telematics for driver behavior monitoring as well as maintenance cost control
- Institutional vehicles Telematics for fleet maintenance reminder and validation as well as driver behavior monitoring.

b'smart

BSMART Service Delivery Offering

Research & Consultancy	Design & Development	Implementation & Training	Operation & Optimization	Support & Maintenance
BSMART is a leading independent provider of market research and consultancy in the Global Telematics Services Industry.	**BSMART** focused on technology and development for more than 20 years on our core strengths in our business.	With over 100 Developers to provide the best project designs, the resources and the expertise to make your Telematics Services business a success.	Project Management Plan (PMP). Business Operations Management Methodology. Strategic Business Planning Methodology. Business Process Design Methodology.	A complete outsourcing model bundled with all Hardware and Software Infrastructures, Support, Maintenance & Upgrade Provision.

Awards, Recognitions, Rewards, Quality Assurance & Certification

b'smart

Awards

- 2020 URA RECTS contract extension
- 2020 launch of RECDTS Phase 1
- 2020 Winner of LATRA VTS maintenance
- 2020 Winner of APAD PMHS maintenance
- 2019 Awarded Frost & Sullivan Best Practice Cargo Tracking
- 2019 Winner of KRA RECTS Phase 2
- 2019 Implementation of iCTS Phase 3
- 2019 Implementation of RECTS Extension DRC
- 2019 Frost and Sullivan Best Practices Award – Malaysia Cargo Tracking System Provider of the Year
- 2018 Implementation of iCTS Phase 2
- 2017 Implementation of iCTS Pilot
- 2017 SUMATRA VTS device
- 2016 Winner of URA RECTS
- 2016 Winner of SUMATRA VTS
- 2013 Winner of URA ECTS
- 2013 Winner of SPAD PMHS
- 2010 MSC Malaysia APICTA
  - Best e-Logistics Award
- 2010 APICTA
  - Best e-Logistics Merit Award

- Member of ARTIFICIAL INTELLIGENCE FOR SMEs (AI4S)
- 2009 Winner of Deloitte Technology Fast 500 Asia Pacific Program
- 2009 Top 2 Nominees of Ernst & Young Technology Entrepreneur
- 2008 Winner of Deloitte Technology Fast 500 Asia Pacific Program
- 2008 MSC Malaysia APICTA
  - Best e-Logistics Award
- 2007 Business of The Year Award
  - Emerging Company
- 2006 Winner of Malaysia Good Design Mark Award
- 2005 Winner of Merit Award for Best Young Asian Supply Chain Solution Provider Award for SCM Logistics Excellence Awards
- 2005 MSC Malaysia APICTA
  - Best Communication Application
- 2005 IPTA R&D expo competition Gold Medal Award
- 2005 Gold Medal for British Invention of International Award

- iButton Authorized Solutions Developer
- International Product Certifications: Malaysia, South Africa, Indonesia, Oman, Abu Dhabi & etc
- ACE Assurance Global Product Liability Coverage up to RM1,000,000.00
- R&D initially is funded by MOSTI (Ministry of Science, Technology & Innovation) under Industrial Grant Scheme (IGS)
- Commercialization is subsequently funded by MTDC (Malaysian Technology Development Corporation) under CRDF Fund
- 2nd generation development is funded by MDC (MSC Development Corporation) under MGS Fund
- 13 Patents Filed
- 5 Local and International Certification Awarded
- Operate 10 Monitoring Centres

b'smart
www.bsmart-solutions.com

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b'BSO

BSMART Bus Service Operation
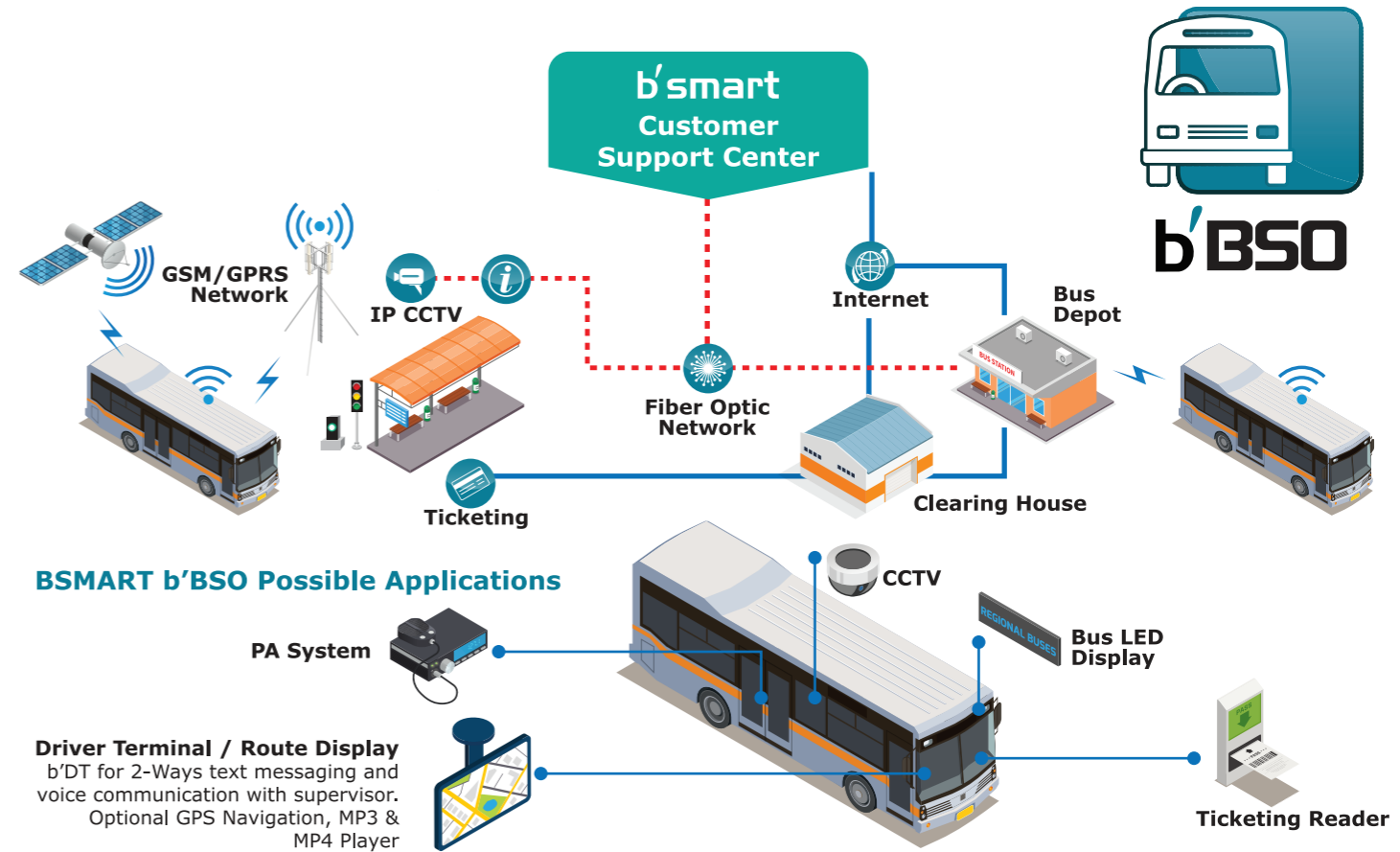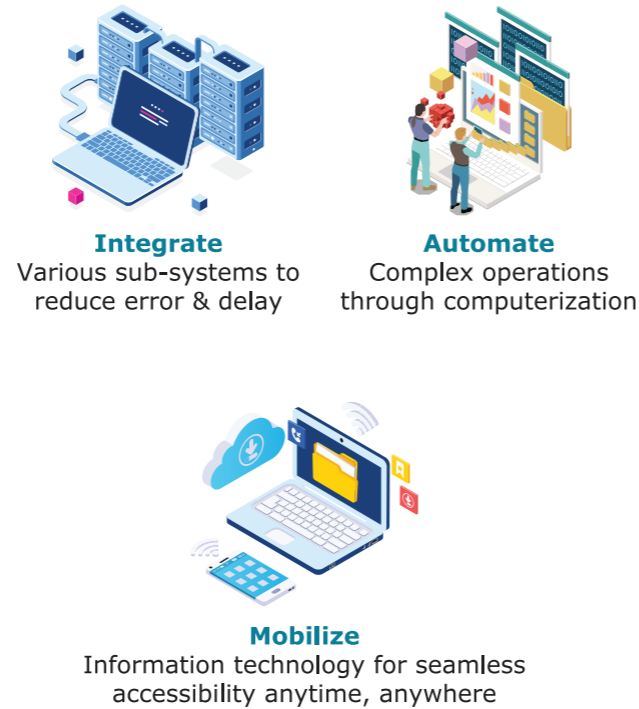
Green Telematics

BSMART Bus SERVICE Operation

BSMART Bus Service Operation (b'BSO) provides seamless integrated bus operation services within Fleet Operations, Driver Management, Commuter Management, Depot Management, Operation Centre, Electronic Fare Management System and other Support Operations. With **b'BSO**, Bus Operators can leverage on **BSMART** to achieve measurable improvements in operation efficiency by optimising utilisation rate and effectiveness, enhance safety and security, realised large cost savings while providing high quality services to both customers and drivers.

b'BSO strategy is to deliver optimisation of utilisation rates and trips made through efficient deployment and improve Bus Schedule Adherence via **BSMART** Management Console to proper fleet planning and management. **b'BSO** improved processes that capitalise on automation (i.e. seat reservation, online ticketing, micropayment system, fleet deployment, maintenance, commuter information system at bus stop, etc) and therefore eliminate or reduce uncertainty in bus schedule adherence, which impact commuter satisfaction levels. With **BSMART Management Console**, Bus Operators can centralise their Operation Centre to handle reservations and deployment (with single view of fleet) as well as achieve transparency over fleet & driver performance visibility.

b'BSO improves customer service and satisfaction by enhancing and complementing operational processes, which provide crucial support for informed decisions and consistent management.
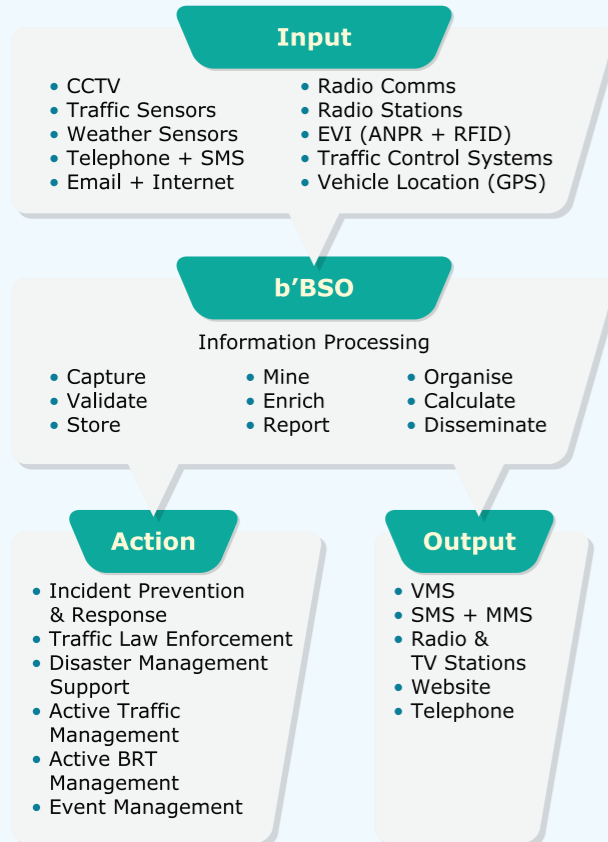
BSMART Managed b'BSO Strategy

Integrate
Various sub-systems to reduce error & delay

Automate
Complex operations through computerization

Mobilize
Information technology for seamless accessibility anytime, anywhere

BSMART b'BSO Continuous Improvement Strategy

The Practical Approach

Input
- CCTV
- Traffic Sensors
- Weather Sensors
- Telephone + SMS
- Email + Internet
- Radio Comms
- Radio Stations
- EVI (ANPR + RFID)
- Traffic Control Systems
- Vehicle Location (GPS)

b'BSO

Information Processing
- Capture
- Validate
- Store
- Mine
- Enrich
- Report
- Organise
- Calculate
- Disseminate

Action
- Incident Prevention & Response
- Traffic Law Enforcement
- Disaster Management Support
- Active Traffic Management
- Active BRT Management
- Event Management

Output
- VMS
- SMS + MMS
- Radio & TV Stations
- Website
- Telephone

BSMART b'BSO Offering

Fuel Consumption Management

Public Services Vehicle (PSV)

Electronic Fare Management

Resources Planning Management

Monitor Control Optimization
- Bus-Driver
- Passenger
- Public Transport Regulator
- BSMART
- Bus-Operator

BSMART b'BSO Possible Applications

b'smart Customer Support Center

GSM/GPRS Network

IP CCTV

Internet

Bus Depot

Fiber Optic Network

Ticketing

Clearing House

CCTV

Bus LED Display

PA System

Driver Terminal / Route Display
b'DT for 2-Ways text messaging and voice communication with supervisor. Optional GPS Navigation, MP3 & MP4 Player

Ticketing Reader

b'smart Empowers Management Through Technology

Fleet Management
- Fleet Profile Management
- Fleet Documentation Renewal Reminder
- Fleet Maintenance Management

Compliance Management
- Manage regulatory complianc (licenses, inspections, etc)
- Manage safe driving policy
- Manage company performance policy

Cash Management
- Ticket Reader Integration for real time trip transaction visibility and thus reduce collection funds
- Electronic Payment System Integrat on support micropayment or credit card
- Cashless transaction reduce the collection and cash management risk

Booking Management
- Online booking via web or SMS or smartphone application
- Improve ordering and dispatching efficiency
- Alternative source of income

Preventive Management
- Preventive maintenance program & management for assets
- Driver ranking and profiling
- Enables early warning mechanism & processes

Passenger Management
- Passenger Profile Management
- Web enabled Customer Relationship Management System integrated with IP PABX
- SMS or Email Order Confirmation

Safety Management
- Manage driver behavior to reduce accident rates and damage to assets
- Provide safe working environment to
- Comply to global safety standards & best practices

Operation Efficiency
- Enables benchmarking of business flow & processe
- Enables key performances indicator reporting based on measured processes
- Automates key business flow & processes based on available data

Driver Management
- Driver Profile Management
- Driver Performance Monitoring
- Driver License Renewal Reminder

Dispatching Management
- Computer Aided Dispatching and Scheduling System
- Configurable Dispatching Algorithm
- Real time order monitoring

Consequence Management
- Enables real-time response to threats issues and exceptions
- Manage the response SOP
- Reduce loss of asset / productivity to company & clients

Security Management
- Real-time excaption monitoring and control
- Theft, pilferage, fraud control and reduction
- Detailed record and log for investigation