

# SECURING SYSTEMS | STRENGTHENING NATIONS | EMPOWERING HUMANITY

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Every system is unique, but its true strength lies in the security, resilience, and intelligence of its sub-systems. At 2B Innovations, we believe that technology must not only protect systems but also empower societies. Our commitment is to build solutions that keep systems **safe, strong, and future-ready**, while ensuring technology serves a larger human and national purpose.

## Who We Are

2B Innovations is a strategic advisory and intelligent systems integration company specializing in **cyber homeland security, emerging technologies, and resilient digital ecosystems**. Founded in 2014, with a presence across India, the UAE, and Canada, the organization works at the intersection of cybersecurity, AI, aviation security, climate resilience, and capacity building. From enterprise and critical infrastructure protection to mission-critical platforms, 2B Innovations develops **indigenous, purpose-built technologies** designed for a world without borders but with rising digital, physical, and climate risks. Our approach is rooted in challenging the status quo through innovation, collaboration, and systems thinking—building solutions that are secure by design and scalable by intent.

## Our Mission

### **NO SYSTEM SHOULD EVER BE UNSAFE.**

Our mission is to engineer secure, dependable, and adaptive systems by applying creative technology to real-world challenges. We design and deploy cybersecurity and resilience solutions that protect information assets, critical infrastructure, and operational environments—right from architecture and design through deployment and operations. By combining strategic advisory, flawless execution, and continuous innovation, we strive to create a globally dependable technology partner.

## OUR CORE CAPABILITIES

- **Cyber Homeland & Enterprise Security:** Indigenous platforms such as Sudarshan, the National Cyber Shield of India, designed to secure enterprises and critical infrastructure against evolving cyber threats.
- **Aviation & Drone Security:** Advanced mission management software enabling secure drone operations, airspace awareness, and aviation security use cases.
- **Climate & Disaster Resilience:** QCOMM, a technology platform supporting emergency response, coordination, and communication in disaster and climate-impact scenarios.
- **Media & Information Security:** A media-tech platform designed to detect, analyze, and counter online disinformation, misinformation, and information warfare—strengthening digital trust, narrative resilience, and information integrity across public and strategic domains.
- **AI & Emerging Technologies:** Advisory and solution development aligned with national missions, digital sovereignty, and future-ready systems.

## Our Vision: Purpose Over Profit

We believe technology must follow a socio-capitalistic approach, where economic value creation goes hand in hand with national development and social impact. Our vision places purpose over profit, ensuring innovation contributes to security, sustainability, and human well-being.

- **CSR Initiatives: Going Beyond Borders** At 2B Innovations, corporate social responsibility is not an add-on—it is embedded in our value system.
- **Education & Skill Development** We run free and subsidized training programs for students from underprivileged backgrounds, addressing the growing demand for skills in AI, cybersecurity, and emerging technologies. Through 2B Academy, we build future-ready talent pipelines aligned with industry and national priorities.
- **Healthcare & Assistive Technologies** Our CSR initiatives now extend into healthcare, where we are developing **AI-assisted technologies for persons with special needs**, improving accessibility, independence, and quality of life.
- **Sustainability & Climate Action** We apply our technological expertise to reduce environmental impact and support solutions addressing climate change and disaster resilience.
- **Food Security & Food-Tech** Recognizing food as a core pillar of human security, we work on food-tech solutions that reduce wastage, promote nutrition awareness, and support the principle that no one should sleep hungry.

Through innovation, inclusion, and integrity, 2B Innovations continues to build systems that protect nations, empower communities, and strengthen humanity.

Engineering Intelligence  
for the Digital World

# Global AI Solutions

FOR ENTERPRISES, GOVERNMENTS  
& SMART INFRASTRUCTURE

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At 2B Innovations, we design and deploy next-generation Artificial Intelligence systems that enable organizations to operate smarter, faster, and at scale. Our solutions combine machine learning, generative AI, cognitive automation, and intelligent agents to transform how businesses make decisions and deliver value.

From supply chains and governance to customer experience and smart infrastructure, we build secure, scalable, and customized AI platforms for the world's most demanding environments.

***“AI is no longer a tool. It is the operating system of modern enterprises.”***

## AI-POWERED SUPPLY CHAIN & LOGISTICS FROM COMPLEX OPERATIONS TO AUTONOMOUS INTELLIGENCE

A global logistics enterprise reduced delivery delays by over 35% after deploying our AI-powered demand forecasting and real-time route optimization engine.

Our intelligent logistics systems enable:

-  Predictive demand planning
-  Real-time fleet intelligence
-  End-to-end supply chain visibility
-  Smart inventory optimization
-  Warehouse automation

### Impact

-  Reduced operational costs
-  Higher forecasting accuracy
-  Faster delivery cycles
-  Real-time decision intelligence

## AI FOR GOVERNANCE & COMPLIANCE

### BUILDING TRUST THROUGH INTELLIGENT SYSTEMS

Traditional governance relies on manual audits and fragmented data. Our AI-powered governance platforms continuously monitor regulatory frameworks, detect risks, and generate real-time compliance insights.

#### We enable:

- Automated compliance monitoring
- Policy intelligence systems
- Smart audit automation
- Fraud detection & anomaly analysis
- ESG & regulatory reporting

#### Impact

- 60% faster audit
- Real-time risk visibility
- Reduced regulatory exposure
- Transparent digital governance

## COGNITIVE AUTOMATION & AI CUSTOMER EXPERIENCE

### WHEN YOUR CUSTOMERS NEVER HAVE TO WAIT AGAIN

Our cognitive AI systems handle millions of customer interactions with human-like intelligence — across chat, voice, and digital platforms.

#### We enable:

- AI chatbots & voice bots
- Ticket routing & resolution systems
- Multilingual AI support
- Intelligent CRM automation
- Sentiment analysis engines

#### Impact

- 24/7 autonomous support
- Reduced response times
- Enhanced customer satisfaction
- Lower service costs

# AI AGENTS & AUTONOMOUS SYSTEMS

## DIGITAL WORKERS FOR THE AUTONOMOUS ENTERPRISE

AI Agents are intelligent systems that think, act, collaborate, and continuously optimize business operations.

### We Build:

-  Autonomous business agents
-  Decision intelligence agents
-  AI task orchestration systems
-  End-to-end workflow automation
-  Enterprise AI copilots

### Impact

-  Self-operating digital systems
-  Reduced human dependency
-  Continuous process optimization
-  Scalable enterprise automation

# AI FOR BORDER SECURITY & SURVEILLANCE

## INTELLIGENT SYSTEMS FOR NATIONAL SAFETY

Modern border security demands real-time intelligence, predictive analytics, and autonomous surveillance. 2B Innovations builds AI-powered border security platforms integrating computer vision, drone intelligence, sensor fusion, and real-time analytics across land, sea, and air borders.

### We Deploy:

-  AI-based video surveillance systems
-  Facial recognition & biometric intelligence
-  Drone & UAV-based monitoring
-  Predictive threat analytic
-  Intrusion detection using computer vision
-  Multi-sensor fusion platforms

### Impact

-  24/7 autonomous support
-  Reduced human risk
-  Real-time threat detection
-  Faster response times
-  Enhanced national security

## AI SKILLING & FUTURE WORKFORCE DEVELOPMENT

### BUILDING AI-READY NATIONS & ORGANIZATIONS

We empower enterprises, institutions, and governments to build AI-first talent ecosystems.

Our skilling initiatives include:

- ✓ AI & Data Science Upskilling
- ✓ Generative AI Training Programs
- ✓ AI for CXOs & Leaders
- ✓ Smart Government AI Programs
- ✓ AI for Engineers & Analysts

### We also support national initiatives in:

- ✓ AI-powered data centers
- ✓ Smart cities & digital governance
- ✓ AI in education, healthcare & agriculture
- ✓ Digital infrastructure development

## INDUSTRIES WE SERVE

Logistics · Banking · Healthcare · Manufacturing · Retail · Telecom  
Government · Smart Cities · Cyber & Defense · Education · Energy

### WHY 2B INNOVATIONS?

- Global AI expertise
- Enterprise & government-grade systems
- End-to-end AI consulting & deployment
- Research-driven innovation
- Secure, scalable, future-ready platforms

### OUR VISION

To become a global leader in applied artificial intelligence, building intelligent systems that power the next generation of digital economies.

## 2B INNOVATIONS

INTELLIGENCE. AUTOMATION. INNOVATION.

*Building the AI backbone of tomorrow's enterprises.*



# THREAT MANAGEMENT BY DESIGN POWERED BY ARTIFICIAL INTELLIGENCE

Enabling Secure and Resilient Digital World



**4C Security** is an AI-driven cybersecurity solutions provider focused on Threat Management by Design, delivering end-to-end threat detection, prediction, and response services for complex digital environments worldwide.

By combining artificial intelligence, machine learning, and advanced analytics, we help organizations move from reactive security models to proactive, predictive, and automated defense systems. Our platform empowers enterprises and public sector organizations to identify risks early, respond faster, and build resilient, secure digital infrastructures in an increasingly connected world.

## THREAT MANAGEMENT AS A SERVICE (TMAAS)

**Cost-effective, AI-driven threat management for modern digital enterprises.**

4C delivers skilled cybersecurity resources, intelligent automation, and integrated technologies to proactively protect your organization – without the complexity and high costs of building and managing in-house security operations.

### XDR-Powered 24x7 Monitoring

Follow-the-sun extended detection and response with no downtime, ensuring round-the-clock cyber defense.

01

### VAPT & Threat Hunting

Proactive vulnerability assessments and continuous threat hunting to identify and eliminate exploitable gaps.

02

### AI-Driven Automation & Orchestration

High-fidelity, low-noise security operations using intelligent automation workflows.

03

### Security Awareness Training

Employee training programs to build a strong cyber-safe culture.

04

## KEY CAPABILITIES

08

### Managed Detection & Response (MDR)

Continuous monitoring of perimeter and core systems to detect, investigate, and respond to threats in real time.

### Security Device & Cloud Management

Centralized management across Code, Cloud, Containers, and Clusters (4C) in a modern, perimeter-less environment.

07

### Identity & Access Management (IDAM)

Managed identity security to prevent insider threats and unauthorized access.

06

### Threat Intelligence & Metrics (MITRE ATT&CK)

Standardized threat modeling, taxonomy, and reporting using global security frameworks.

05

## KEY FEATURES



### 24x7 Protection

Always-on monitoring by expert analysts ensures threats are detected and handled in real time – even outside business hours.



### Faster Threat Response

Critical threats are identified and contained within minutes, reducing attacker dwell time and limiting business impact.



### Reduced Alert Noise

AI-driven filtering removes false positives and unnecessary alerts, so teams focus only on real risks.



### End-to-End Incident Handling

From detection to investigation, containment, and recovery – incidents are fully managed by experts.



### Lower Security Costs

Enterprise-grade SOC capabilities without the cost of building and maintaining an in-house team.



### Seamless Integration

Works with your existing security tools, cloud platforms, and infrastructure – no rip and replace.



### Transparent Reporting

Real-time dashboards and detailed reports provide visibility into threats, actions taken, and security posture.



### Flexible Engagement

Choose full response, co-managed security, or alert-only – the service adapts to your needs.

## TANGIBLE BUSINESS BENEFITS



### Cost Optimization

Reduce operational costs by automating repetitive processes and improving resource utilization through AI-driven workflows.



### Predictive Insights

Leverage machine learning models to anticipate trends, risks, and opportunities before they impact the business.



### Faster Decision-Making

Enable real-time insights from complex datasets, helping leaders make informed decisions with speed and confidence.



### Scalable Innovation

Deploy AI solutions that grow with your organization, from pilot projects to enterprise-scale implementations.



### Improved Productivity

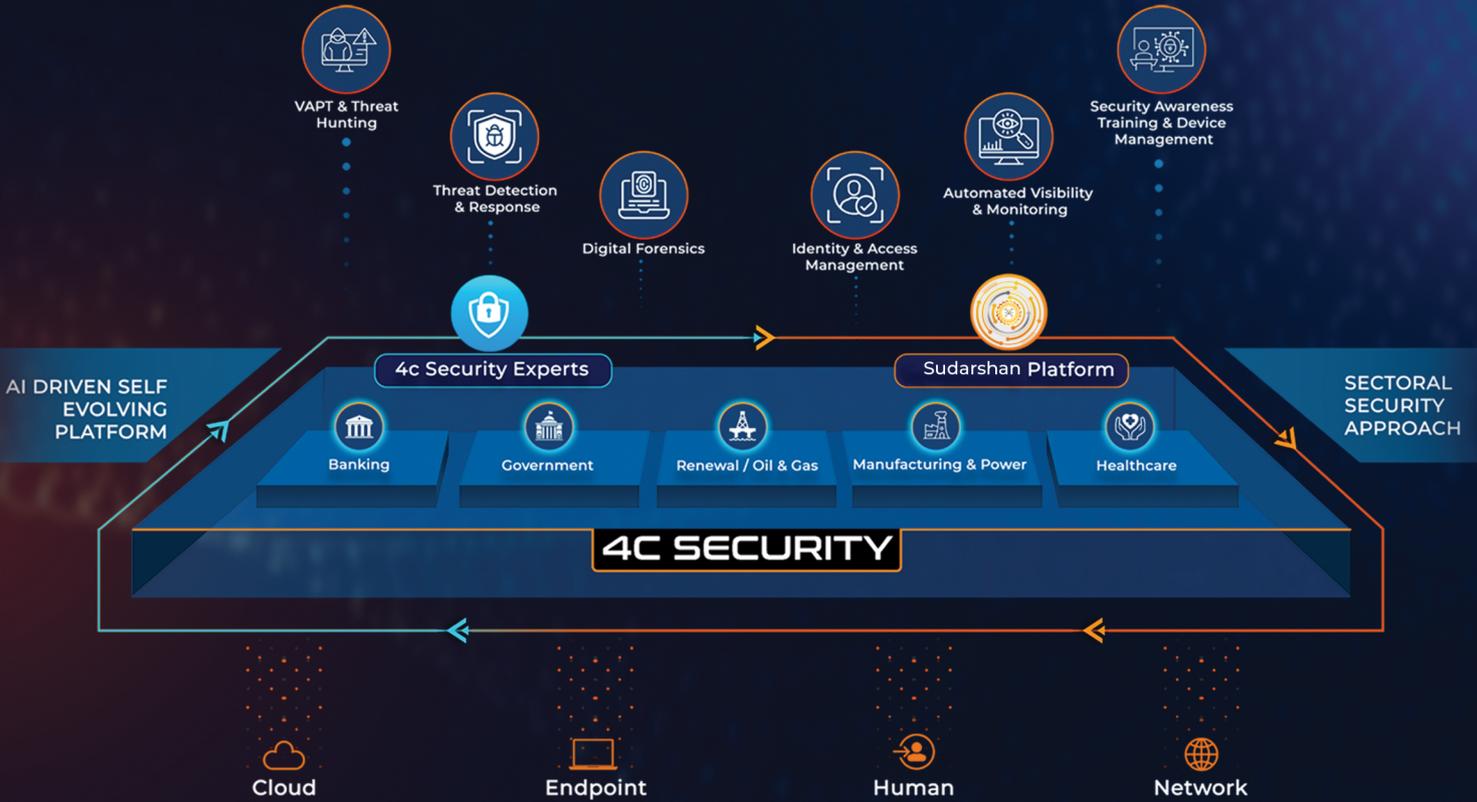
Empower teams with intelligent tools that minimize manual effort and enhance efficiency across departments.



### Competitive Advantage

Stay ahead of the market by adopting cutting-edge AI technologies ahead of competitors.

BENEFITS

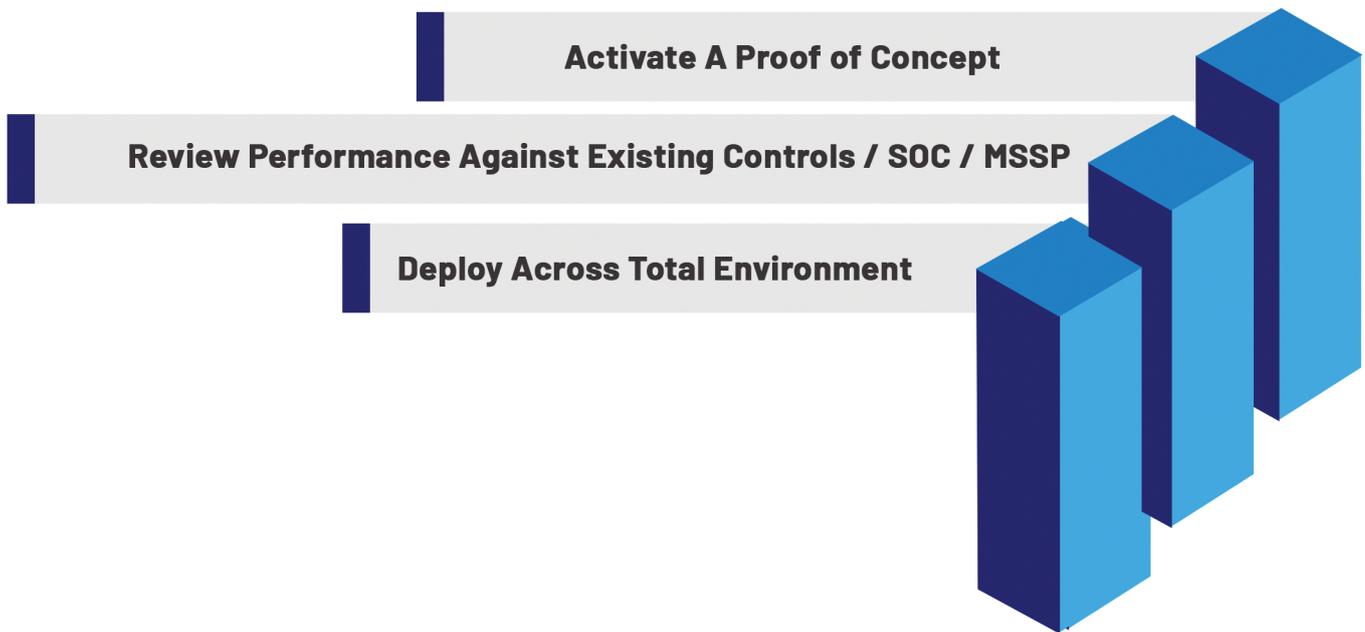


## TECHNOLOGY INTEGRATIONS

<p><b>4c Security XDR</b></p> <p>Continuously monitor activity inside your network to detect suspicious actions occurring between devices that otherwise are unseen</p> <p><b>Firewall</b></p> <p>SONICWALL, FORTINET, paloalto, CHECK POINT, SOPHOS</p>	<p><b>Identity</b></p> <p>okta, ManageEngine</p> <p><b>Public Cloud</b></p> <p>AWS Security Hub, HUAWEI CLOUD</p>	<p><b>End Point</b></p> <p>kaspersky, Microsoft Defender, SOPHOS</p> <p><b>Network</b></p> <p>DARKTRACE, CISCO, THINKST CANARY</p>	<p>netskope</p> <p>DerScanner</p> <p>Malwarebytes</p> <p>KELAR</p> <p>And Much More</p>
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## MEASURABLE IMPACT

- Up to 60–70% faster threat detection through AI-driven predictive intelligence
- Improved SOC operational efficiency by automating threat triage and response workflows
- Significant reduction in false positives using contextual and behavioral analytics
- Accelerated incident response with intelligent, automated playbooks
- Improved ROI by optimizing security operations and reducing manual effort



## RECOGNITIONS

**WINNER**

**Chunauti8.0 by STPI**  
**– Emerging Technologies**  
**(Cyber Security)**

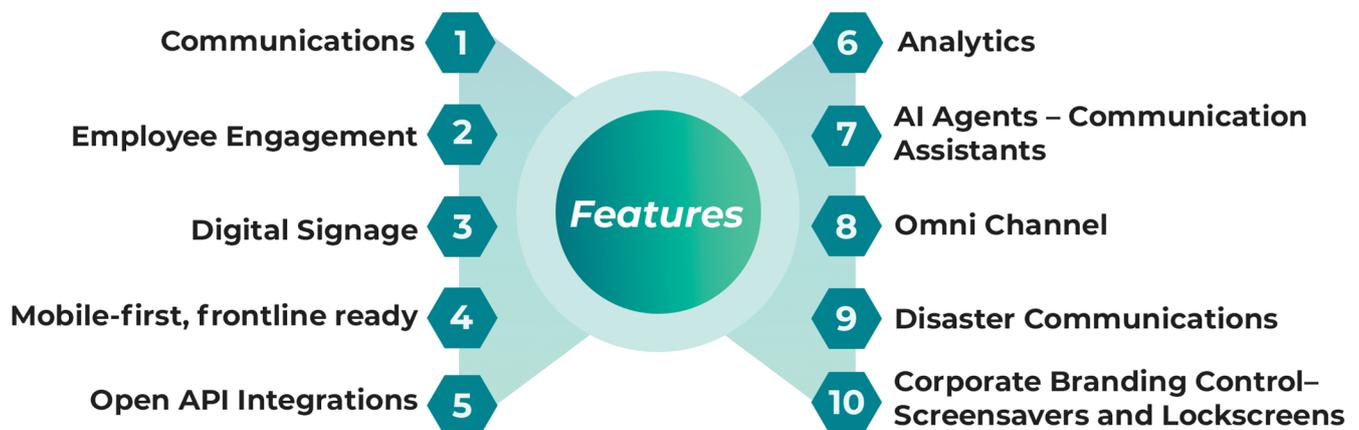


**4c security is not just building AI solutions –**  
we are building intelligent ecosystems that shape the future of digital enterprises.

# AI-POWERED SMART & EFFECTIVE COMMUNICATIONS

SMARTER INTERNAL COMMUNICATIONS. REAL RESULTS.

**The Challenges of Current Employee Communication Channels**  
*As internal communication grows more complex, critical messages get lost — compromising safety, resilience, and productivity.*



## Making Every Message Count—Where QComm Fits In

**QComm** transforms workplace communication by delivering the right message to the right people—instantly and effectively. Whether it's an urgent alert or an employee update, QComm ensures clarity and engagement.

### **CRITICAL ALERTS & EMERGENCY RESPONSE**

Ensure immediate action with high-priority notifications.



### **COMPANY ANNOUNCEMENTS**

Keep teams aligned with leadership updates and major news.



### **COMPLIANCE & POLICY COMMUNICATION**

Reinforce regulations with



### **CYBERSECURITY & IT ALERTS**

Deliver real-time security updates to prevent threats.



### **EMPLOYEE ENGAGEMENT & EXPERIENCE**

Foster workplace connectivity with interactive messaging.



### **VISUAL COMMUNICATION BEYOND EMAIL**

Use digital signage, screensavers, and push notifications for maximum visibility.



### **By Role:**

- Internal Communications
- Information Technology
- Human Resources
- Call Center Operations
- Marketing

### **By Industry:**

- Healthcare
- Financial Services
- Government
- Education
- Retail
- Manufacturing
- Energy

### **By Use Case:**

- Change Communications
- Emergency Communications
- Health & Safety
- Compliance
- Cyber Security
- Leadership Communications
- Employee Engagement & Culture
- IT Outages

## ONE PLATFORM. EVERY TEAM. THE ENTIRE ORGANIZATION.



Communication



IT



Management



Human  
Resource

**Proven impact:** empowering people to be better informed, more engaged, highly productive, and safer—every day.



### The Only Platform You Need for Seamless Communication

QComm is built to simplify, enhance, and accelerate communication across organizations, ensuring messages are delivered, seen, and acted upon. Our platform integrates multiple communication channels into a single, intelligent system that is scalable, secure, and highly effective.

#### Comprehensive Communication Ecosystem

QComm consolidates critical alerts, compliance updates, internal messaging, and engagement tools into a single, intuitive platform. Instead of juggling multiple disconnected tools, organizations can streamline all communication needs efficiently.



#### Scalable for Every Industry & Business Size

Whether you are a multinational enterprise, a high-security industry, or a rapidly growing business, QComm adapts to your needs. It ensures seamless communication across remote teams, global offices, and hybrid workforces.

### Real-Time Delivery with Enterprise-Grade Security

Time-sensitive messages require instant and reliable delivery—not just another unread email. QComm guarantees real-time updates, using military-grade encryption and compliance-ready security protocols to protect sensitive information.

### Seamless Integration into Your Existing Workflow

QComm effortlessly integrates with your existing workplace tools and systems, ensuring zero disruption while enhancing efficiency.



### More Than Just Integration – Smart Signage That Works for You

QComm’s digital signage transforms every screen into a dynamic communication channel with customizable layouts, centralized control, playlist scheduling, and offline playback — ensuring your messages stay visible, on brand, and on time across all locations.

## Power Up Your Workplace Communication with QComm

### GET IN TOUCH

Whether you need a live demo, have questions, or want to explore how QComm can enhance your organization’s communication, we’re here to help.

#### EMAIL US:

[Info@qcomm.co](mailto:Info@qcomm.co)

#### FOLLOW US ON SOCIAL MEDIA

LinkedIn: **QCOMM, Digital Communications**

### EXPLORE OUR SOLUTIONS:

Discover how QComm’s multi-channel platform can revolutionize workplace communication.

Visit Our Website:

[qcomm.co](http://qcomm.co)



# Automated Aerial Intelligence for a Safer India

## TACTICAL DEPLOYMENT THE FLEET & DISPATCH

The PSRS Fleet is an ecosystem of specialized unmanned aerial systems designed for 24/7 rapid response. Our automated dispatch engine ensures the right drone reaches the scene when seconds matter.

### Proximity Dispatch

Real-time calculation of the closest available unit based on current battery and mission priority.

### NPNT Protocol

Native "No Permission, No Takeoff" integration with Digital Sky for 100% regulatory compliance.

### Automated Routing

voids no-fly zones and topographical hazards automatically during flight path generation.

### Weather Triage

Integrated IMD weather feeds to determine flight safety before every deployment.

**5G** Enabled  
Uplink

**24/7** Operational  
Readiness

**< 10s** Dispatch  
Decision

## AERIAL INTELLIGENCE

# LIVE ANALYTICS & AR

Information is only valuable if it's actionable. PSRS provides real-time AI-assisted insights directly to command centers and field responders through our advanced telemetry overlay.

### Object Detection

Real-time identification of vehicles, crowds, and hazardous objects in high-density urban areas.

### Hazard Recognition

Instant detection of smoke, fire, and structural damage using multi-spectral sensors.

*\*Our proprietary ML models are trained specifically for the Indian urban context, recognizing local vehicle types and architectural patterns.*

## SOVEREIGN SECURITY

# REGULATORY MASTERY

PSRS is built on the principle of "Security by Design". We ensure that public safety data remains domestic and all operations are fully auditable.



**DGCA RULES 2021**



**CERT-IN AUDITED**



**DPDP ACT COMPLIANT**



**NPNT ENFORCED**

### India Data Residency

All video streams, telemetry logs, and incident data are stored exclusively in Indian cloud regions, ensuring compliance with the DPDP Act and national security mandates.

### Tamper-Evident Logs

Every operator action, flight plan, and AI detection is logged in an encrypted, immutable audit trail for legal evidence and post-mission reviews.

## LOOKING AHEAD

# REGULATORY MASTERY

## Swarm Intelligence

Coordinated multi-drone missions for large-scale disaster management.

## Thermal Response

Integrated thermal sensors for nighttime Search & Rescue operations.



### QCOMM SUBSYSTEM

## Next-Generation Drone Fleet Orchestration & Integrated QComm Alerting Layer for Modern Public Safety Agencies.

## Bridge the Gap Between Citizens & Responders

The PSRS Citizen App transforms every smartphone into a life-saving sensor. Through the integrated QComm layer, agencies receive high-fidelity data directly from the scene before first responders even arrive.



**One-Tap Emergency SOS with Precise GPS**



**Automated Identity & Device Verification**



**High-Bandwidth Photo & Video Ground-Truth**



**AI-Driven Confidence Scoring for Priority Alerting**

## AERIAL INTELLIGENCE

# RAPID RESPONSE VIA AUTONOMOUS EYES IN THE SKY

Eliminate blind spots with rapid drone deployment. Our system automates the flight path from the moment a citizen triggers an SOS, providing real-time situational awareness and AI-powered thermal analytics.

- ✓ **Automated Dispatch Guardrails (Verification Lock)**
- ✓ **Live Thermal & 4K Video Telemetry**
- ✓ **AI Analytics: Crowd, Fire, and Hazard Detection**
- ✓ **DGCA & NPNT Compliance Built-In**

## ENTERPRISE READY

# INTEGRATED. AUDITABLE. SECURE.

PSRS is more than a dashboard; it's a unified communication and action framework built on the Digital Personal Data Protection Act compliance standards.

### Low-Latency Alerts

QComm guarantees sub-2 second alert delivery across your entire operational chain.

### Immutable Audit Logs

Every alert, drone flight, and operator action is cryptographically sealed for regulatory review.

### Multi-Agency Cloud

Deploy across cities with partitioned access and federated command controls.

# MAKING INDIA SAFER FOR SCHOOLS & COLLEGES

Empowering the Next Generation  
with **Cyber Security** & AI Awareness

 [www.2bacademy.in](http://www.2bacademy.in)  
 [Info@2bacademy.in](mailto:Info@2bacademy.in)

In today's digital-first world, students and educators are increasingly exposed to cyber threats, data misuse, misinformation, and unsafe AI practices.

2B Academy is a national initiative focused on building cyber-aware, AI-ready, and digitally responsible institutions across India.

We work with **schools, colleges, universities, and training partners** to create a safer digital ecosystem through structured awareness programs, hands-on trainings, and industry-aligned certifications.

## Our Vision

*To build a cyber-secure and AI-empowered India, starting from classrooms and campuses.*

## Our Mission

To create large-scale awareness and practical skills in:

- **Cyber Security**
- **Artificial Intelligence**
- **Digital Safety**
- **Ethical Technology Usage**

for students, faculty, and academic institutions.

## Why 2B Academy?

We go beyond theory. Our programs focus on real-world digital risks and future technologies

- Industry-driven curriculum
- Practical, hands-on approach
- Aligned with national digital and cyber missions
- Delivered by experienced professionals from industry and research
- Suitable for schools, colleges, universities, and training centres

## Key Focus Areas

### Cyber Security Awareness

- Phishing, fraud, and online scams
- Password security and data privacy
- Cyber laws and digital ethics
- Safe internet practices
- Social media and digital identity protection

### Artificial Intelligence Awareness

- Understanding AI in daily life
- Responsible use of AI tools
- AI ethics and bias
- Future careers in AI
- Human vs Machine decision making

## Our Programs for Institutions

### For Schools (Class 6–12)

- Cyber Safety for Students
- Digital Citizenship Program
- Online Risk Awareness
- Introduction to AI & Future Tech

### For Colleges & Universities

- Cyber Security Foundations
- AI & Data Literacy
- Ethical Hacking Awareness
- Career Pathways in Cyber & AI
- Digital Forensics Introduction

### For Faculty & Management

- Cyber Risk Management for Institutions
- AI in Education: Strategy & Implementation
- Data Privacy & Compliance
- Digital Transformation for Campuses

## Impact We Aim to Create

- Build cyber-resilient campuses
- Reduce digital fraud and misuse
- Create AI-aware students
- Promote responsible technology usage
- Prepare youth for future tech careers
- Support India's vision of Digital & Secure Bharat

## Who Should Partner With Us



Schools &  
School Groups



Colleges &  
Universities



Skill  
Development  
Institutions



Training  
Centres



Government &  
Educational  
Bodies



CSR & Social  
Impact  
Programs