



Prevention
is better
than Cure

It's the Time to Say

Yes!

SECURITY, SAFETY & WELLBEING
of our Children

Come Let's Join Hands

AIoT SOLUTIONS

Artificial Intelligence of Things

PROTECTING INVALUABLE ASSETS

MESSAGE FROM THE CHAIRMAN



In a world where forests burn and lives are consumed by addiction, we stand at the crossroads of two fires, one that threatens our planet and the other that ravages our communities.

Our heart fills with anguish when we hear, read, and see news of our innocent children, having wonderful dreams and ambitions about their life and future getting caught in the deadly and dangerous trap of drug menace. When we asked some hard, painful and pertinent questions to my inner self, we got the answers immediately. Who is responsible for this state of affairs? We all are. Who is committing this heinous crime of spreading drugs in the society? We are. Whom shall we blame? Who else but ourselves? As a parent we can never imagine our kids being bitten by this poisonous snake of drugs and writhing in intense pain and being treated as an outcast by society and finally bidding farewell to this wonderful world, ensnared by drugs and delusions. Can we bear to see such a nightmarish life for your children? No! A Thousand Times No!!

Who will eradicate this danger? Who will come forward? We All. Right Now. We all have to. It is no longer a choice but a responsibility.

We all have to unite and fight with this menace and exterminate this termite which is eating us up. We at Needle Leaf Foundation, Shimla, have decided to dedicate our life to this cause. In this era of inventive technology and artificial intelligence we have come out with innovative AIoT (Artificial Intelligence Internet of Things) solutions to achieve our goals. We need your support to work tirelessly for Security, Safety, and Wellbeing of our kids.

Prevention is better than cure. So we request all parents and other responsible members of society to come together for this cause.

Let's join hands to save our upcoming generations.

Yours most sincerely,

Er. Suneel Grover

Chairman, NeedleLeaf Foundation - Saviour

Vision

Our vision is to create smarter, more efficient and eco-friendly future by fostering development and sustainability simultaneously
Save The Planet & Save The Communities.

Mission

By means of innovative AIoT(Artificial Intelligence of Things) solutions, empowering Governments/Institutions/Societies to combat "Drug Menace" and make our school Children and Youth Secure, Safe and Well-off.

Goal

To safeguard the future of the youth and school-going children by educating, tracking, and protecting them from drug abuse in the State of HP by the end of year 2027 and also to take our AIoT Solutions in the neighbouring states simultaneously and then propagating them in India and Globally.

NeedleLeaf Foundation Board of Trustees : The Saviours



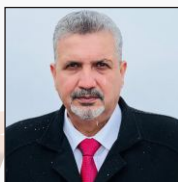
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Sh. Shashi K. Sharma
Prof. (Journalism & MC), HPU



Drug Addiction

A type of behavioural disorder in which persistent drug seeking behavior continues despite negative consequences, leading to psychological cravings, social disturbances, and mental health issues.

Why do people take drugs?

- **To feel good** - Drugs can produce intense feelings of pleasure.
- **To feel better** - People who suffer from social anxiety, stress, and depression use drugs to try to feel less anxious.
- **To do better** - People feel pressure to improve their focus in school or at work or their abilities in sports.
- **Curiosity and social pressure** - Teens are particularly at risk because peer pressure can be very strong.



But at what cost ? That is realized later

Himachal Pradesh

On a Deadly Dangerous Path to becoming a Drug Hub

During the past years, it has been observed that our historically revered state, best known as "Land of GOD's" is being severely impacted by the adverse effects of various kinds of drug abuse, causing significant harm to the state's youth and school-going children. The current scenario is concerning with an increasing number of youths and school children engaging in drug abuse addiction and trafficking. A spike in drug overdose-related deaths underscores the growing crisis.

The Dangerous Drugs Spatial Distribution in Land of GODs

Cannabis cultivation is prominent in Kullu, Mandi, Shimla, Chamba, and Sirmaur, while 'Chitta' enters the State via Punjab through Una and other districts, with direct supply channels from Delhi and Chandigarh to Shimla and Solan districts. This illicit drug production attracts tourists seeking narcotic substances; a notable example is the cannabis strain "Malana Cream," a recognized brand in both domestic and international drug trafficking circles. Reports also indicate drug use at Rave Parties in areas within Kullu and Kangra districts.

Himachal Pradesh
School Statistic
Year 2023



Primary Schools

Schools

10000

Students

5.76 Lakhs



High Schools

1300

5.80 Lakhs



Secondary Schools

1675

2.10 Lakhs

Total Schools
12975
Total Students
13.66 Lakhs



STUDENTS' SECURITY SAFETY & WELLBEING

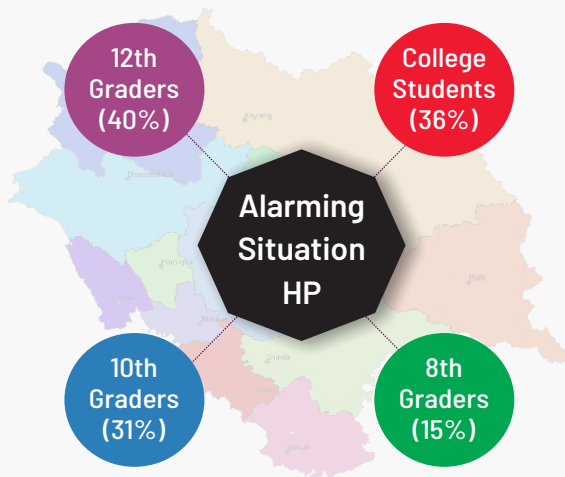


According to IGMC SHIMLA 40% YOUTH in HIMACHAL are involved in DRUG ABUSE

Interiors of Kullu, Chamba, Mandi and Shimla districts are the country's biggest drug-producing areas

Police records show 50,000 acres of land under CANNABIS CULTIVATION in the KULLU VALLEY alone.

And in past 5 years, 70 foreigners, mainly Britons, Israelis, Dutch, Germans, Japanese and Italians, have been arrested under the Narcotic Drugs and Psychotropic Substances Act.



"In the USA, an ongoing study called "Monitoring the Future" (MTF) examines behavioral trends and attitudes toward drug use, surveying 50,000 students annually across 8th, 10th, and 12th grades (12th graders since 1975, and 8th and 10th graders since 1991). The MTF Panel study follows each graduating class, with surveys conducted bi-annually from ages 19-30 and every five years after age 35. This study provides critical insights into drug use, alcohol consumption, tobacco use, steroid usage, and psychotherapeutic drugs, allowing policymakers and NGOs to formulate effective interventions."

Studies by university scholars, governmental departments, and independent groups reveal that marijuana usage rises notably among secondary school students, influenced by local cultivation and accessibility

Key Factors contributing to Drug Menace

- Lack of awareness about the consequences of drug use
- Insufficient stringent actions against traffickers
- Parental oversight gaps
- Lack of effective institutional monitoring policies within schools and colleges



PARENTS' CORNER

- Involvement and support of parents and all the responsible members of our society is critical in preventing youth drug menace. We need to talk openly.
- Conversations with children are one of the most effective tools to connect with them.



Signs to Watch

- Declining school performance
- Abrupt changes in friends
- Abnormal health issues or sleeping habits
- Deteriorating relationships with family
- Less openness and honesty

Security, Safety & Well Being

The painful realities in front of us make it imperative to safeguard the future of the State's youth and school-going children by

- Educating
- Monitoring
- Tracking
- Protecting them from drug abuse.

Why Do Youth Use Drugs? Risk Factors

- Lack of parental supervision
- Poor attachment with caregivers
- Undiagnosed mental health problems
- Substance-using parents, siblings or friends
- Peer rejection
- Child abuse/neglect - Unhealthy peer groups

AI Driven Sensors

What we Need

In this fight against drug addiction, technology plays a crucial role. Drug usage monitoring can be facilitated by customized sensors and AI-driven tools. These sensors are embedded in identity cards and controlled via scientific networks.

Our Solution **Coverage, Reliability, Scalability & Security**

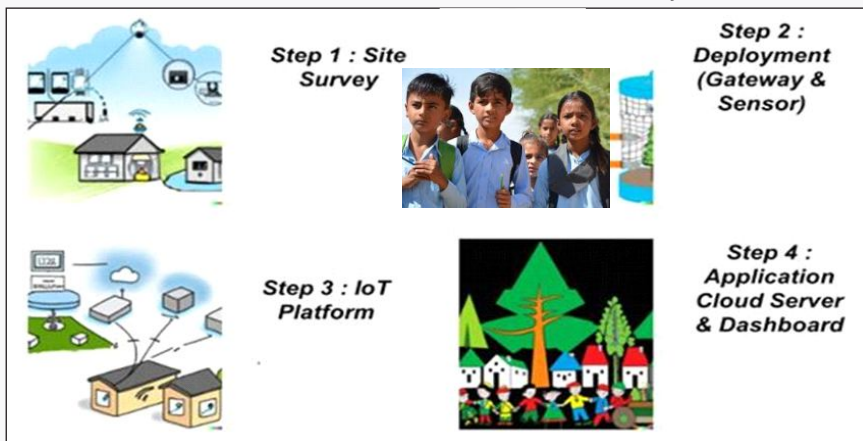
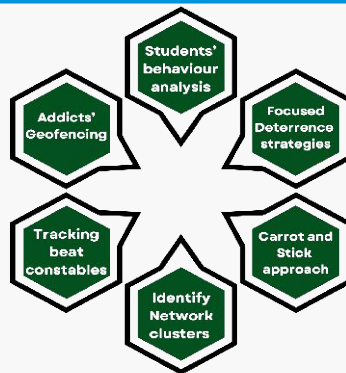
AIoT (Artificial Intelligence of Things) Solutions

Artificial Intelligence of things (AIoT) is the combination of Artificial Intelligence (AI) technologies and the Internet of Things (IoT) infrastructure. Its goal is to create human machine interactions and enhance data management and analytics. We propose to empower governments, institutions, and societies through Internet of Things (IoT) solutions, utilizing customized sensors, AI tools, and wireless technology for personal tracking of school children and youths, aimed at ensuring safety and security. This project would utilize license-free sensors and LPWAN (Low Power Wide Area Network) for long range, low power wireless connectivity, transforming even the most passive components of city operations.

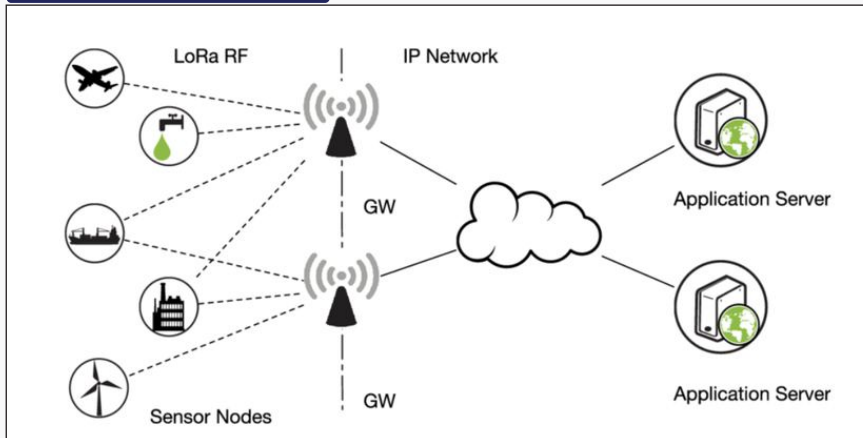


Multi-Dimensional Approach Solutions Against Drug Menace

We follow a detailed Simplistic Technological approach starting from surveys, interactions, data analysis and for finding out the final solution of the problem. This will enable personal tracking of school children and youths, aimed at ensuring safety, security and well being



The Technical Architecture



It includes end devices, gateways, and network servers with gateways acting as intermediaries between end devices and the network server, which manages data traffic and ensures secure communication.

How it works

- Each student will be carrying an ID card which is equipped with indoor & Outdoor tracking sensors.
- Each LoRaWAN chip communicates with one or more gateway devices using the LoRaWAN physical layer, which will be a common platform for various applications.
- These gateways then relay messages between the end devices and a network server via TCP/IP networking.
- Gateways are designed to provide full coverage and zone identification.
- Network server centrally manages all connected devices across multiple gateways.
- Data from the network server is forwarded to an application server where it undergoes processing for analytical purposes and integration with other systems.
- The application server can be accessed securely via HTTPS protocol from any handy device such as mobile phone, laptop or desktop.



Expanding Beyond Boundaries – The Global Coverage

To start with a Proposed Pilot Project for Shimla Town in the following eight schools

1. Govt. Sr. Secondary School , Lalpani
2. Govt. Sr. Seconadry School, Shogi
3. Laureate Public School, Bharari
4. St. Edward's School, Bamloi
5. Loreto Convent , Tara Hall
6. Saraswati Vidya Mandir, Kasumpati
7. DAV Sr. Secondary School, New Shimla
8. Kendriya Vidyalaya Shimla, Jakhoo

Stage 1: Minimum Viable Solution (MVS):

Establishment of Minimum Viable Solution (MVS) in Shimla town with focus on supporting school with approximately 10 students in the MVS for validating hardware capabilities.

This stage is crucial for testing the feasibility and functionality of our sensor network in the geographic setting of Shimla.

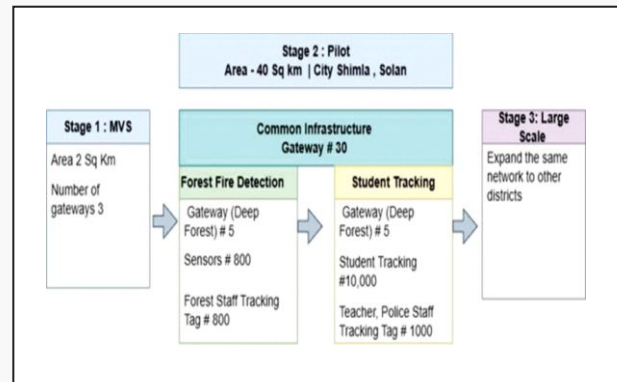
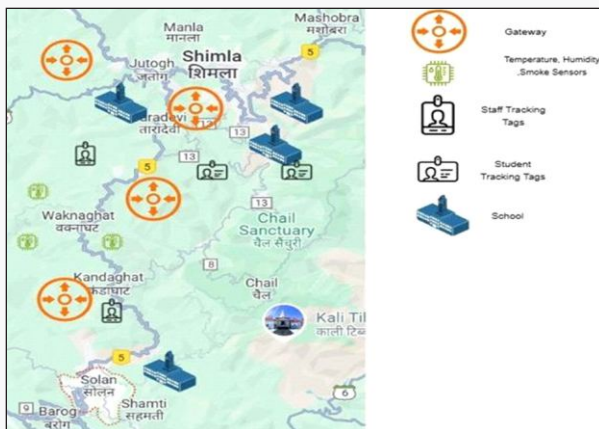
Stage 2 - The Pilot phase

The Pilot phase will expand to more schools in Shimla & surrounding areas.

Here, we will increase the number of gateways to 40+ to enhance coverage & connectivity

Execution Strategy & Deployment

The successful execution of a LoRaWAN solution in Shimla will serve as a model for future expansions in the state, the country and then the whole world. This strategy focuses on local management, robust infrastructure, and scalability ensuring a sustainable and impactful AIoT ecosystem with a step-by-step approach.



NeedleLeaf Foundation's Technical Arm

The Implementor



Akshay Sharma

Director Founder and Inventor

Vast experience in networking and semiconductors, chip technologies



Kotish Grover

Director Founder and Inventor

Ex-VIT/POLIMI
Professional and experienced in Sensors, System Modeling



Sunita Sharma

Managing Director

Ex-IIT/IIM Professional with experience in Business transformation using Futuristic technology



Ayush Maheshwari

Principal Consultant

Ex-IIT/IIM Management consultant and investment banker



Yatharth Chaturvedi

Strategic Advisor

Ex IMA, Anthropologist and specialist in Geography and International Relations

NeedleLeaf Technical Arm (NeedleLeaf India Pvt Ltd)

The Strategic initiatives are proposed to be implemented by the technical arm of the foundation, a start-up founded by a team of Himachali entrepreneurs and alumni of premier institutions such as NITs, IITs, & IIMs, who bring together niche expertise in technologies, IoT, & extensive knowledge in Forestry & Environmental Science.



MAKAR SANKRANTI
JANUARY 14, 2025

STRATEGIC EXECUTION PHASES



INDEPENDENCE DAY
AUGUST 15, 2025

M1

M2

M3

M4

M5

M6

SITE SURVEY (MVS)

- Identify vendors for hardware
- Procure hardware for MVS
- Analyse hardware (Wi-Fi, GMS coverage)
- Power facility survey
- Forest density analysis
- Validate gateways coverage
- Configure devices
- Network server configuration

CONFIGURE AND BUILD

- Network server setup
- DB server setup
- Mass hardware procurement
- Application development
- Geographic mapping of gateways and sensors

DEPLOY

- Enable power infrastructure tower marring for gateways
- Gateways installation
- Sensor installation
- Gateways and sensors configuration

TESTING

- End user testing
- Stimulated database
- Display
- Data Collection
- Field engineering training
- Control room setup

SUPPORT AND MAINTENANCE

- Support desk
- Continuous monitoring
- Date collection and forecast modelling
- Application Monitoring
- Data storage and backup
- Server monitoring within SLAS



Rs. **12 Crore**

Time Deadline - **6 Months**



Rs. **125 Crore**

Time Deadline - **3 Years**

End of December 2027

We Need Your Help

Join Our Charitable Mission

Please Contribute your Valuable Resources to Strengthen us
(Time, Ideas, Money..... Everything is welcome)



NEEDLELEAF FOUNDATION THE SAVIOUR

State Bank of India, Main Branch, Shimla
Account No. : 00000043494831680

SBI IFS Code : SBIN0000718

Cheque

Demand Draft



To access our Payment Gateway
please visit
www.needleleaffoundation.com

*** All Contributions are exempted
under Income Tax Act 1961 (Section 80G and 12A)**



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