Recording link:
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Brief Bio:

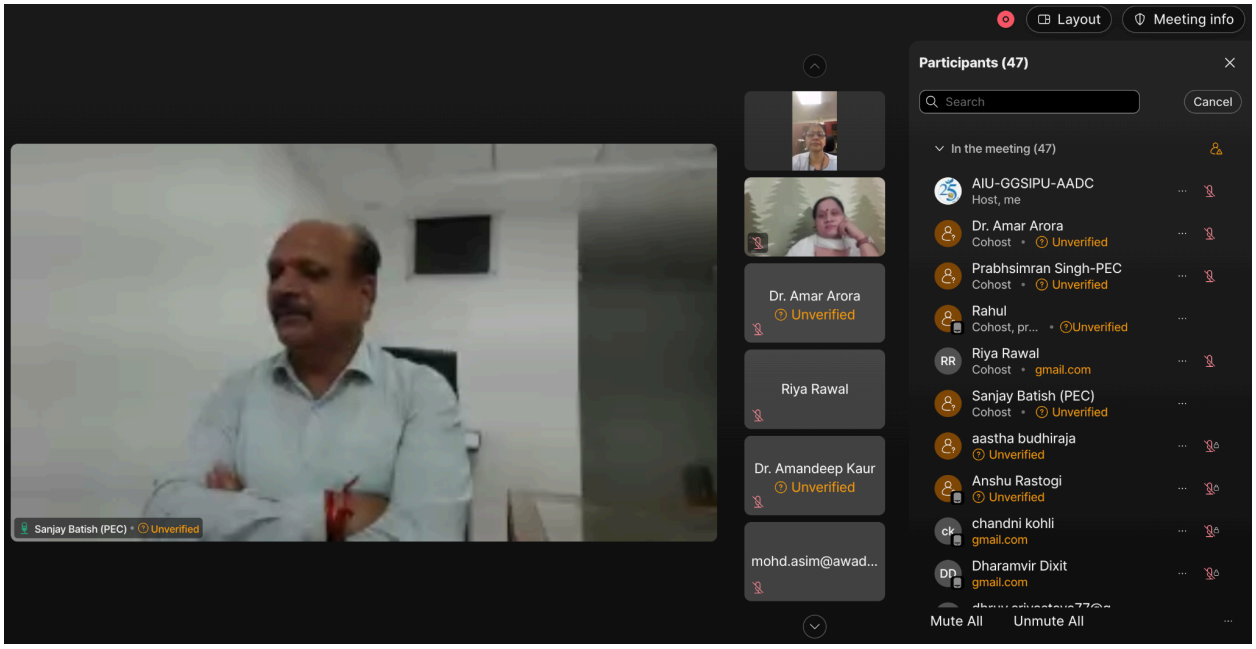
Dr. Sanjay Kumar is working as the head of the Computer Center at Punjab Engineering College.

He has 25 years of experience in the industry and education sector:

- 5 years of experience in IT and telecommunications as an Executive Engineer at Punjab Wireless System, Mohali, from 1995 to 1999, focusing on VSAT and Paging.
- 15 years in teaching and research activities in educational institutes. From 1999 to 2006, he worked as a Lecturer at Thapar University, Patiala, in the Computer

Science Engineering Department, specializing in VLSI, Computer Networks, Embedded Systems, and Networking. He also has experience in handling the admissions process.

Currently, he is the Head of the Computer Center and oversees the admission process for Chandigarh Engineering Admission through the Joint Admission Committee. He is also involved in online PG and PhD admission processes and conducts research projects while guiding M.Tech students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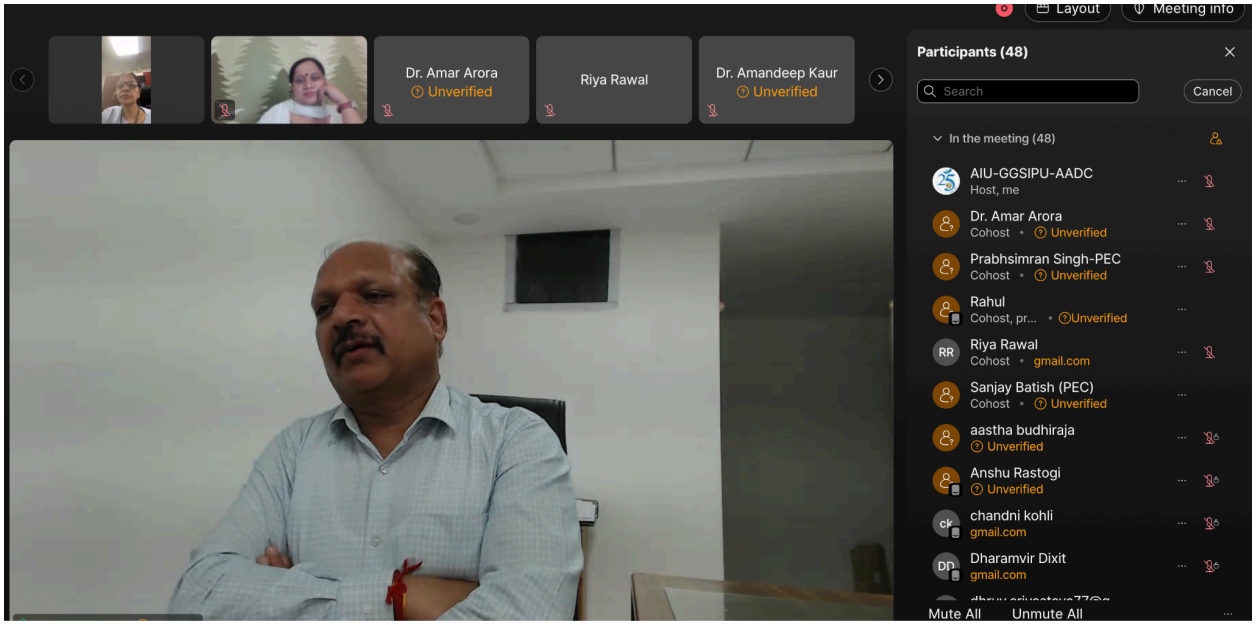
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Vikasit Bharat: India's Vision for Development
The Indian Government has introduced the concept of Vikasit Bharat, an ambitious vision for India's development by 2047, the 100th year of independence.
Vikasit Bharat aims to transform India into a developed nation, with a focus on economic prosperity, social progress, environmental sustainability, and strong governance.
program recognizes the crucial role of young people public participation in achieving these goals.
le Vikasit Bharat itself is not a single program, it erages and integrates existing initiatives to reach its reaching goals.
e, we will explore how the Internet of Things (IoT) plays ital role in achieving Vikasit Bharat's vision across ous sectors.
Digital India
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Internet

- **The Internet** is a vast network that connects computers all over the world.
- Through the Internet, people can share information and communicate from anywhere with an Internet connection.
- It is a **network of networks** that consists of private, public, academic, business, and government networks of local to global scope, linked by a broad array of electronic, wireless, and optical networking technologies.
- The Internet carries a vast range of information resources and services, such as the interlinked hypertext documents and applications of the **World Wide Web (WWW), mail and file sharing.**

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IoT: Internet of Things

- **Billion 'Things' are connected to the Internet, as of now!**
- The Internet of Things (IoT) refers to the **interconnection of everyday objects** with the **internet**, enabling them to **collect and exchange data.**
- IoT is the Internet technology connecting devices, machines and tools to the internet by means of d/wireless technologies.
- gs' connected to the internet are projected to cross 20 n in the near future.
- e objects, or "things," can include sensors, devices, and liances.
- IoT, these things can communicate with each other with us, providing insights and automation.

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Components of IoT

- There are four fundamental components of IoT system, which tell us how IoT works:

1. **Sensors/Devices**
2. **Connectivity**
3. **Data Processing**
4. **ace**

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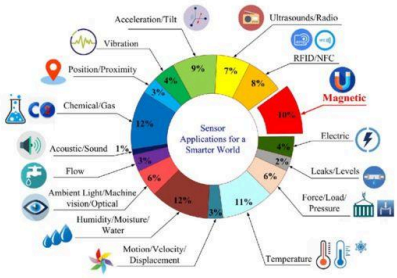
Sensors

- **Definition: A device which detects or measures a physical property and records, indicates, or otherwise responds to it.**
- A **Sensor** detects (senses) changes in the ambient conditions or in the state of another device or system, and forwards or processes this information in a certain manner .
- A **Device** can have multiple sensors that can bundle together to do more than just sense things.
- For example, our phone is a device that has multiple sensors such as GPS, accelerometer, camera.



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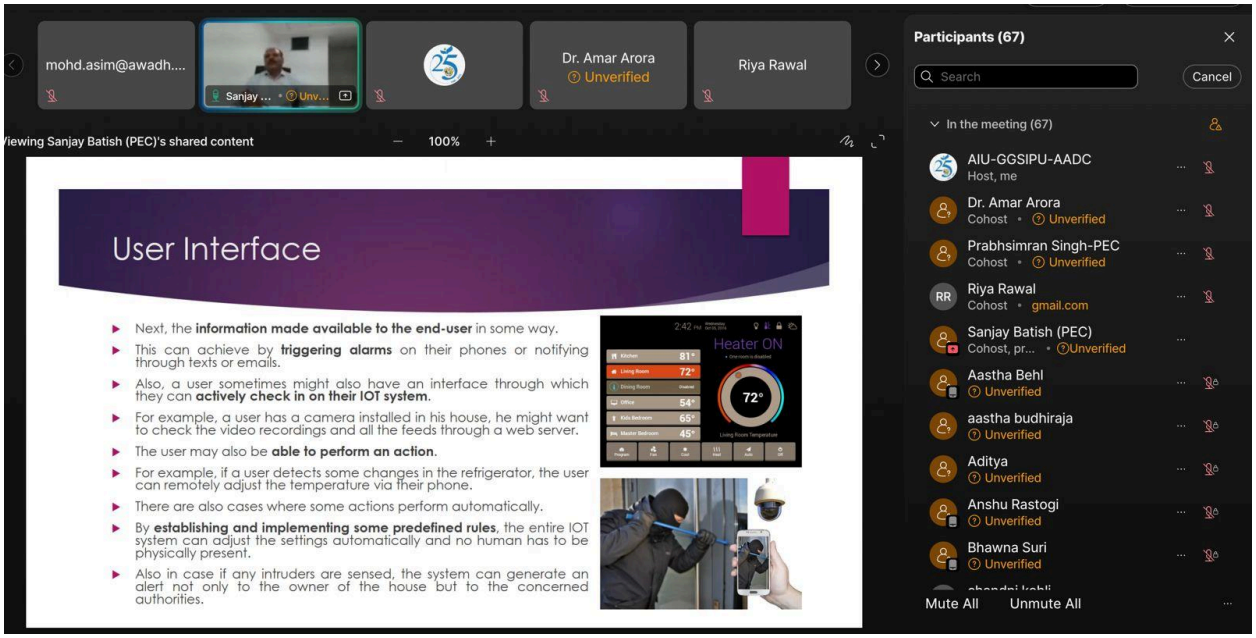
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User Interface
Next, the information made available to the end-user in some way.
This can achieve by triggering alarms on their phones or notifying through texts or emails.
Also, a user sometimes might also have an interface through which they can actively check in on their IOT system.
For example, a user has a camera installed in his house, he might want to check the video recordings and all the feeds through a web server.
The user may also be able to perform an action.
For example, if a user detects some changes in the refrigerator, the user can remotely adjust the temperature via their phone.
There are also cases where some actions perform automatically.
By establishing and implementing some predefined rules, the entire IOT system can adjust the settings automatically and no human has to be physically present.
Also in case if any intruders are sensed, the system can generate an alert not only to the owner of the house but to the concerned authorities.
Heater ON
72°
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Consumer & Home
Smart Infrastructure
Security & Surveillance
Healthcare
Network
Transportation
Retail
Industrial
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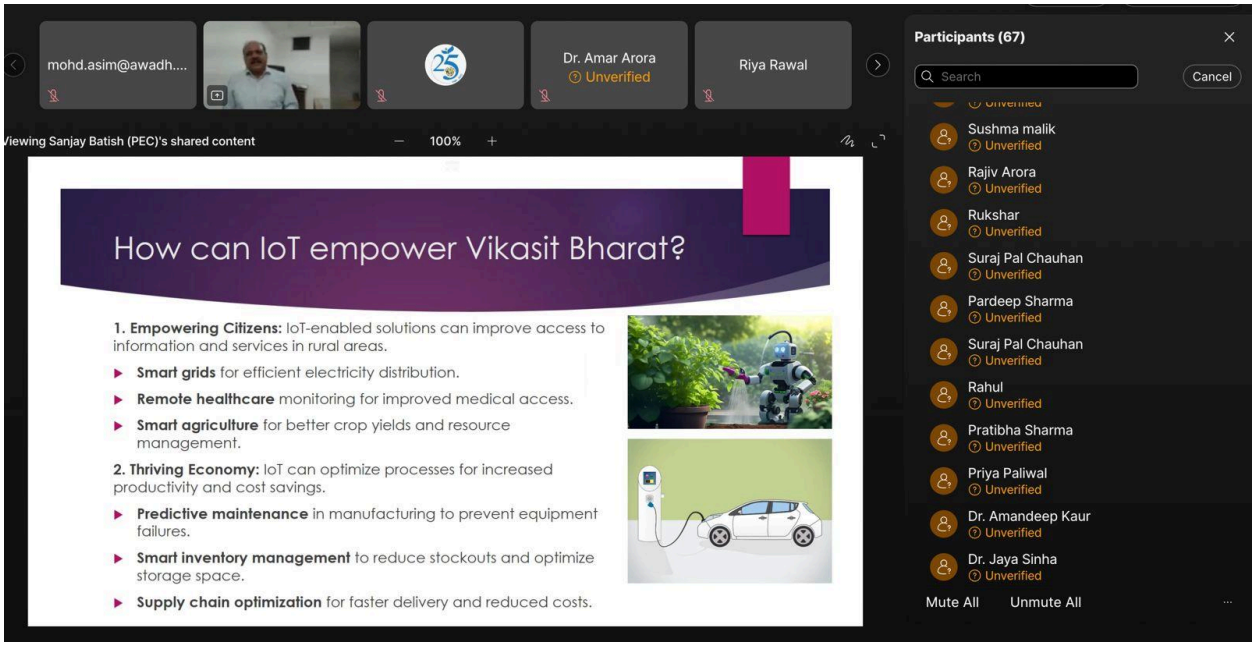
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How can IoT empower Vikasit Bharat?
1. Empowering Citizens: IoT-enabled solutions can improve access to information and services in rural areas.
Smart grids for efficient electricity distribution.
Remote healthcare monitoring for improved medical access.
Smart agriculture for better crop yields and resource management.
2. Thriving Economy: IoT can optimize processes for increased productivity and cost savings.
Predictive maintenance in manufacturing to prevent equipment failures.
Smart inventory management to reduce stockouts and optimize storage space.
Supply chain optimization for faster delivery and reduced costs.
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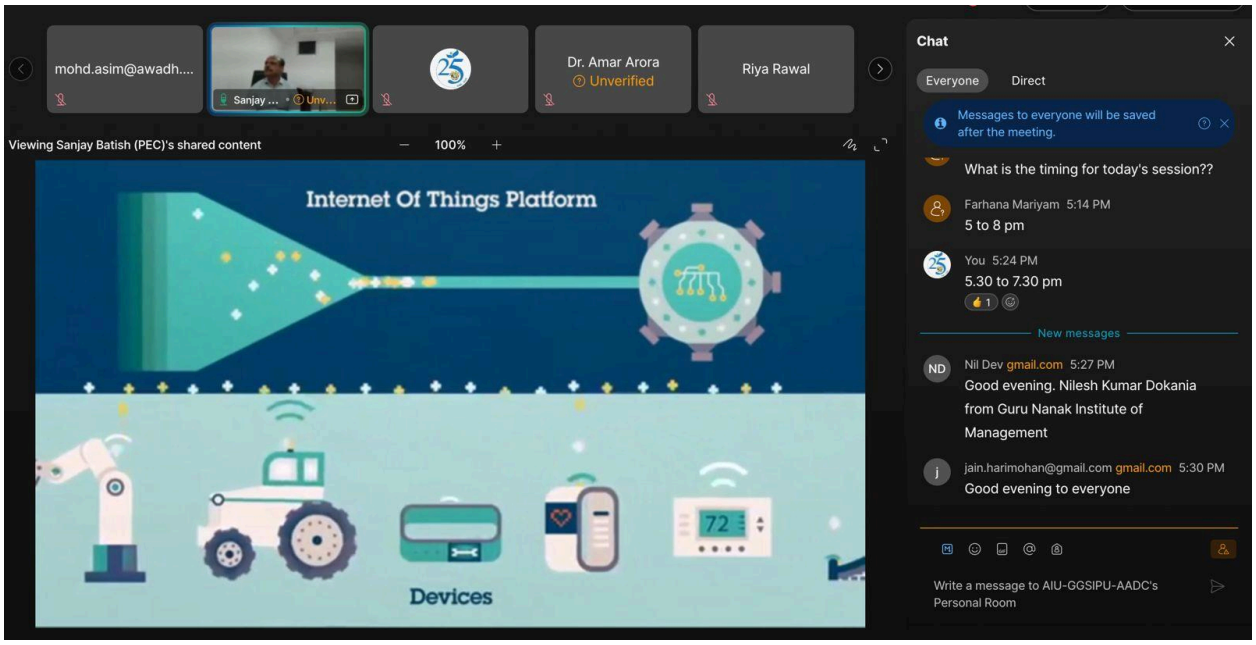
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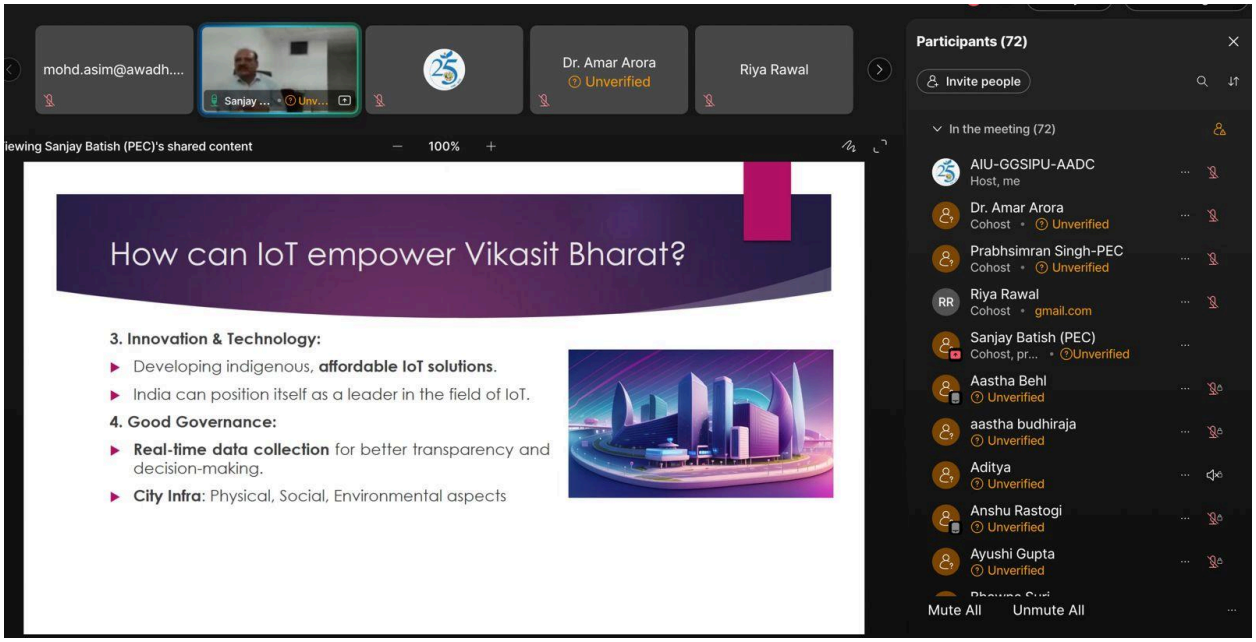
Internet Of Things Platform
Devices
72
Chat
Everyone
Direct
Messages to everyone will be saved after the meeting.
What is the timing for today's session??
Farhana Mariyam 5:14 PM
5 to 8 pm
You 5:24 PM
5.30 to 7.30 pm
New messages
Nil Dev gmail.com 5:27 PM
Good evening. Nilesh Kumar Dokania from Guru Nanak Institute of Management
jain.harimohan@gmail.com gmail.com 5:30 PM
Good evening to everyone
Write a message to AIU-GGSIPU-AADC's Personal Room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How can IoT empower Vikasit Bharat?
3. Innovation & Technology:
Developing indigenous, affordable IoT solutions.
India can position itself as a leader in the field of IoT.
4. Good Governance:
Real-time data collection for better transparency and decision-making.
City Infra: Physical, Social, Environmental aspects
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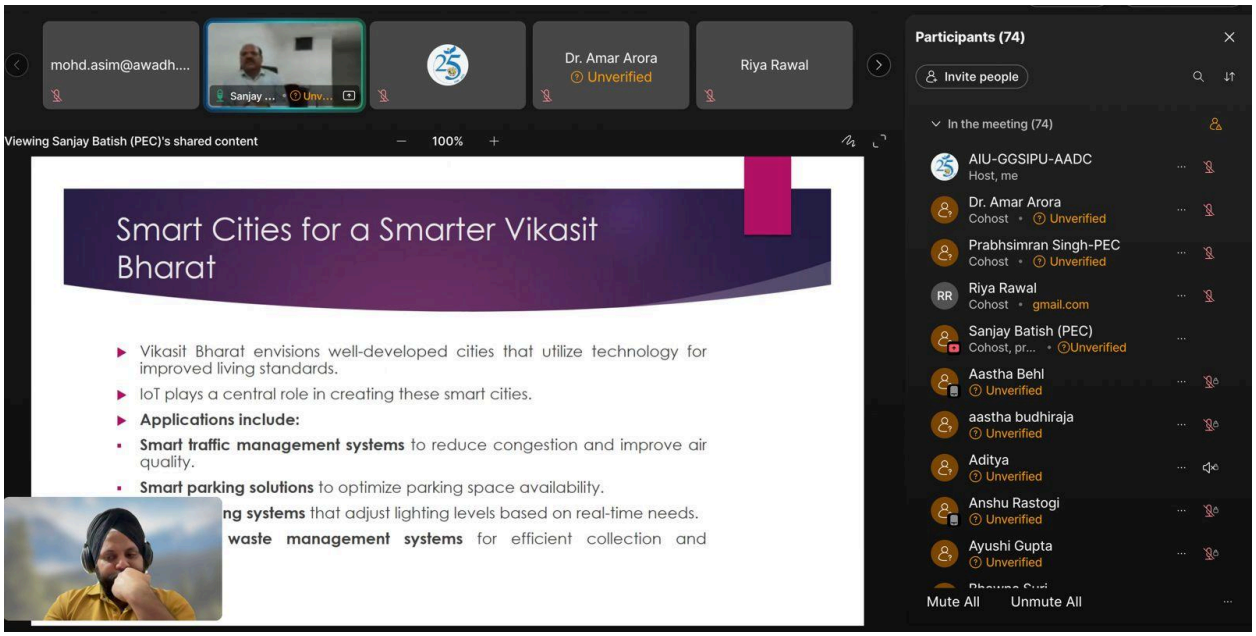
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Smart Cities for a Smarter Vikasit Bharat
Vikasit Bharat envisions well-developed cities that utilize technology for improved living standards.
IoT plays a central role in creating these smart cities.
Applications include:
Smart traffic management systems to reduce congestion and improve air quality.
Smart parking solutions to optimize parking space availability.
ng systems that adjust lighting levels based on real-time needs.
waste management systems for efficient collection and
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Governance
•City performance dashboard
•Citizen online portals, forums
•Capacity Building through online trainings
•Analytics
•Integrated Command and Control Centre
•Workforce, resource management
City Infrastructure
Physical Infra
Social Infra
Environment
Energy
Water
Waste
Mobility
Real Estate
Health
Education
Safety
Culture
Citizen Services
Climate Change
Pollution
Disaster Management
City Specific
•Online citizen services
•Social media
•Helpline
• Capacity Building through online trainings
•Citizen online portals, forums
•Workforce,resource management
•City performance dashboards
•Integrated Asset Management Solutions
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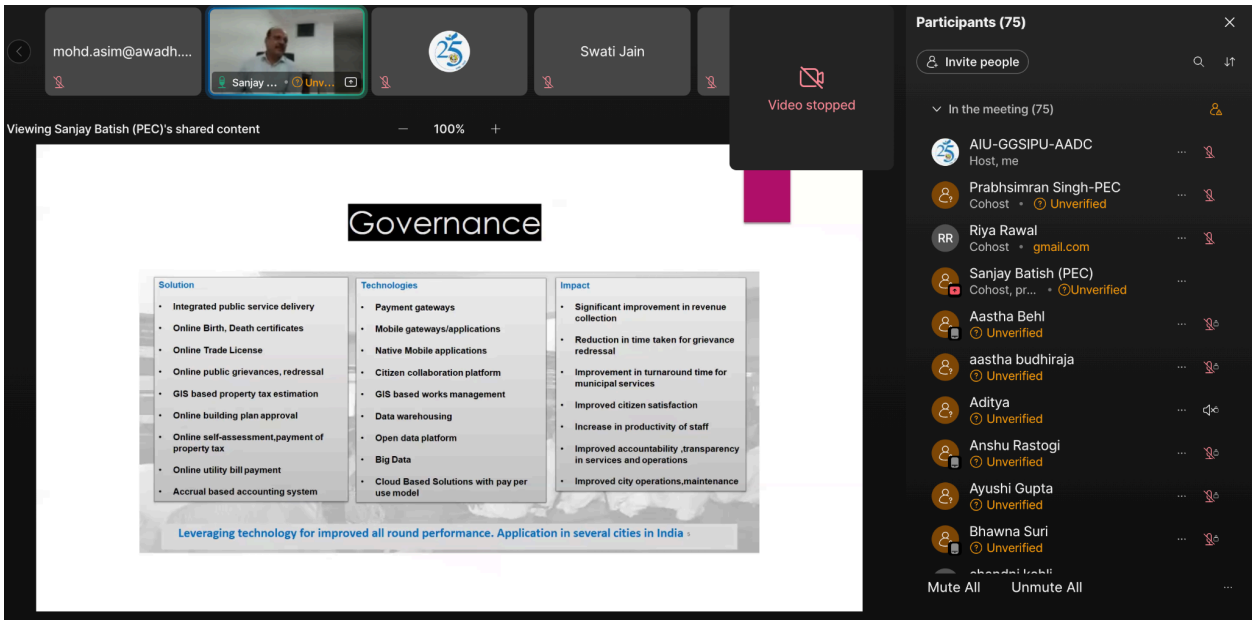
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Governance
Solution
Integrated public service delivery
Online Birth, Death certificates
Online Trade License
Online public grievances, redressal
GIS based property tax estimation
Online building plan approval
Online self-assessment,payment of property tax
Online utility bill payment
Accrual based accounting system
Technologies
Payment gateways
Mobile gateways/applications
Native Mobile applications
Citizen collaboration platform
GIS based works management
Data warehousing
Open data platform
Big Data
Cloud Based Solutions with pay per use model
Impact
Significant improvement in revenue collection
Reduction in time taken for grievance redressal
Improvement in turnaround time for municipal services
Improved citizen satisfaction
Increase in productivity of staff
Improved accountability ,transparency in services and operations
Improved city operations,maintenance
Leveraging technology for improved all round performance. Application in several cities in India
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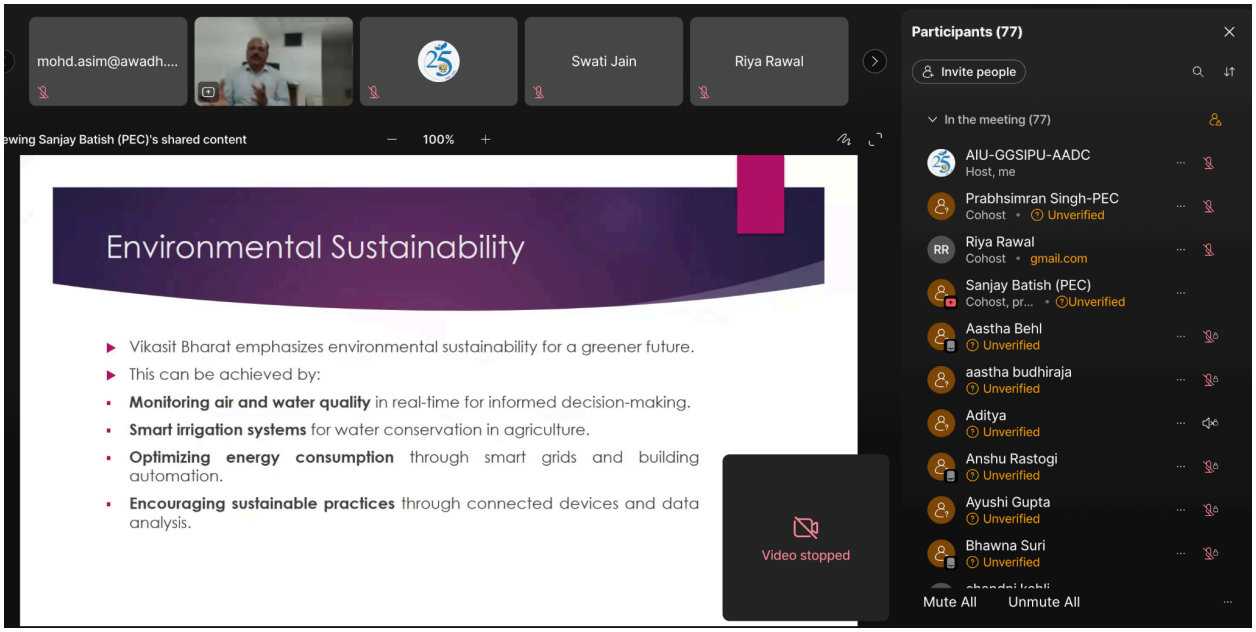
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Environmental Sustainability
Vikasit Bharat emphasizes environmental sustainability for a greener future.
This can be achieved by:
Monitoring air and water quality in real-time for informed decision-making.
Smart irrigation systems for water conservation in agriculture.
Optimizing energy consumption through smart grids and building automation.
Encouraging sustainable practices through connected devices and data analysis.
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Role of IoT in Environmental Monitoring
The applications of IoT in environmental monitoring are broad:
1. Environmental Protection
2. Extreme Weather Monitoring
3. Water Safety
4. Species Protection
5. Commercial Farming
In these applications, sensors detect and measure every type of environmental changes.
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Energy
Smart Energy: Using intelligent devices and data analysis based on IoT technologies.
The smart grid optimizes asset allocations in real time, integrates highly distributed renewable energy sources, and predicts equipment failures before they cause outages. The optimization qualities of IoT in manufacturing also apply to energy consumption.
IoT allows a wide variety of energy control and monitoring functions, with applications in devices, commercial and residential energy use, and the energy source.
GREEN ENERGY
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Smart Manufacturing
Industrial Internet of Things (IIoT) is a way to digital transformation in manufacturing.
Industrial IoT employs a network of sensors to collect critical production data and uses cloud software to turn this data into valuable insights about the efficiency of the manufacturing operations.
Manufacturing technology currently in use exploits standard technology along with modern distribution and analytics.
IoT introduces deeper integration and more powerful analytics.
This opens the world of manufacturing in a way never seen before, as organizations become fully- developed for product delivery rather than a global network of suppliers, makers, and distributors loosely tied together.
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Transportation

- An **intelligent transportation system** is an advanced application which aims to provide innovative services relating to different modes of transport and traffic management and enable users to be better informed and make safer, more coordinated, and 'smarter' use of transport networks.
- At every layer of transportation, IoT provides **improved communication, control, and data distribution.**
- These applications include **personal vehicles, commercial vehicles, trains, UAVs, and other equipment.**
- It extends throughout the entire system of all transportation elements such as **traffic control, parking, fuel consumption, and more.**

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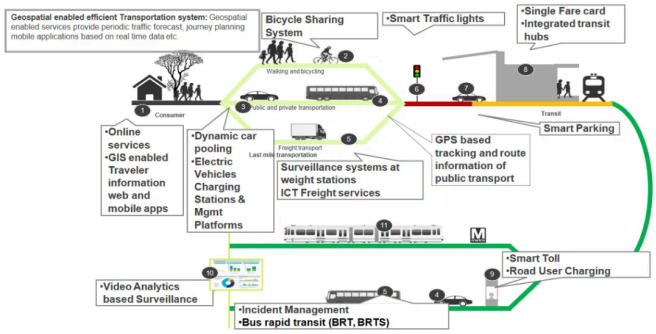
Smart City Transport Model



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Healthcare

- IoT enables healthcare professionals to be more watchful and **connect with the patients proactively.**
- Data collected from IoT devices can help physicians **identify the best treatment** process for patients and reach the expected outcomes.
- A connected healthcare ecosystem will make it **easy for patients to access and track their health information** and allow for seamless communication with their providers.
- IoT plays a significant role in enabling doctors to **monitor patients remotely** and in a timely manner.

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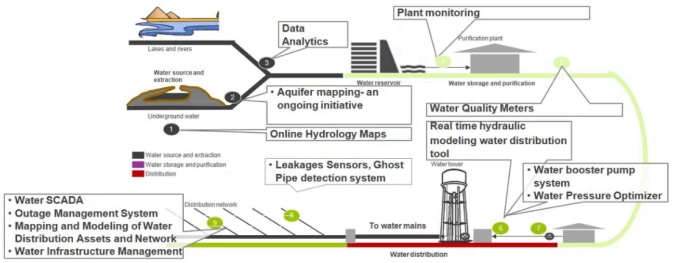
Smart Water Supply Model



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Waste Management

Problem	Solution	Impact
• Monitoring is manual and absenteeism is high among employees	• Attendance with Handheld Biometric Device	• Live performance management of employees
• Physical visit required to verify employee performance	• Tracking Devices installed on each vehicle	• Work of each employee is measured
• Garbage keeps lying in city for extended periods	• Geo-fencing of area & marking of important points & routes	• Improved productivity per employee
• Overpayment - Payment is usually linked with Number of Trips, mileage, or Weight - No perfect verification methodology	• Bin Monitoring with RFID Tags	• Garbage pick up schedule is optimized
• Difficult to monitor vehicle movement	• Handheld terminals for drivers	• State of solid waste in the city is tracked
	• CCTV Cameras at Secondary and Final Dumping sites	• Activities of sanitation department is coordinated
	• Cloud Based IT platform	
	• Central Monitoring Station	

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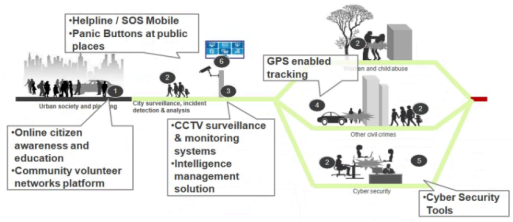
Citizen Safety



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Education and Skill Development in Vikasit Bharat

- Vikasit Bharat recognizes the importance of a skilled workforce for a thriving economy.
- IoT can revolutionize education and skill development by:
  - Providing **interactive and personalized learning experiences** through IoT-enabled tools.
  - **Simulating real-world scenarios** for practical skill development in various sectors.
  - Offering **remote learning opportunities** for geographically isolated populations.

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Vikasit Bharat: Challenges and Opportunities

- Challenges associated with implementing large-scale IoT solutions in Vikasit Bharat:
  - Developing **robust infrastructure** for **seamless connectivity**.
  - Ensuring data **security** and **privacy**.
  - Bridging the digital divide and promoting **digital literacy**.

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Challenges of IoT

- Lack of mature IoT technologies and business processes.
- **Limited guidance** for life cycle **maintenance** and **management** of IoT devices.
- **Limited best practices** available for IoT developers.
- There is a **lack of standards** for **authentication** and **authorization** of IoT edge devices.

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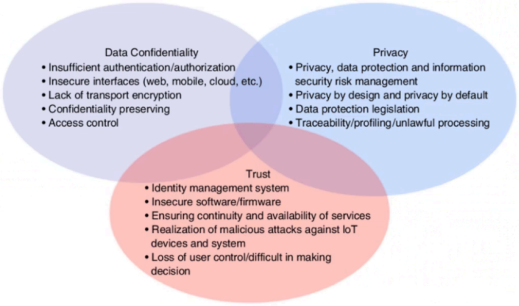
IoT Security Issues

- **IoT security** is the act of securing Internet of Things devices and the networks they're connected to. Various Issues are:



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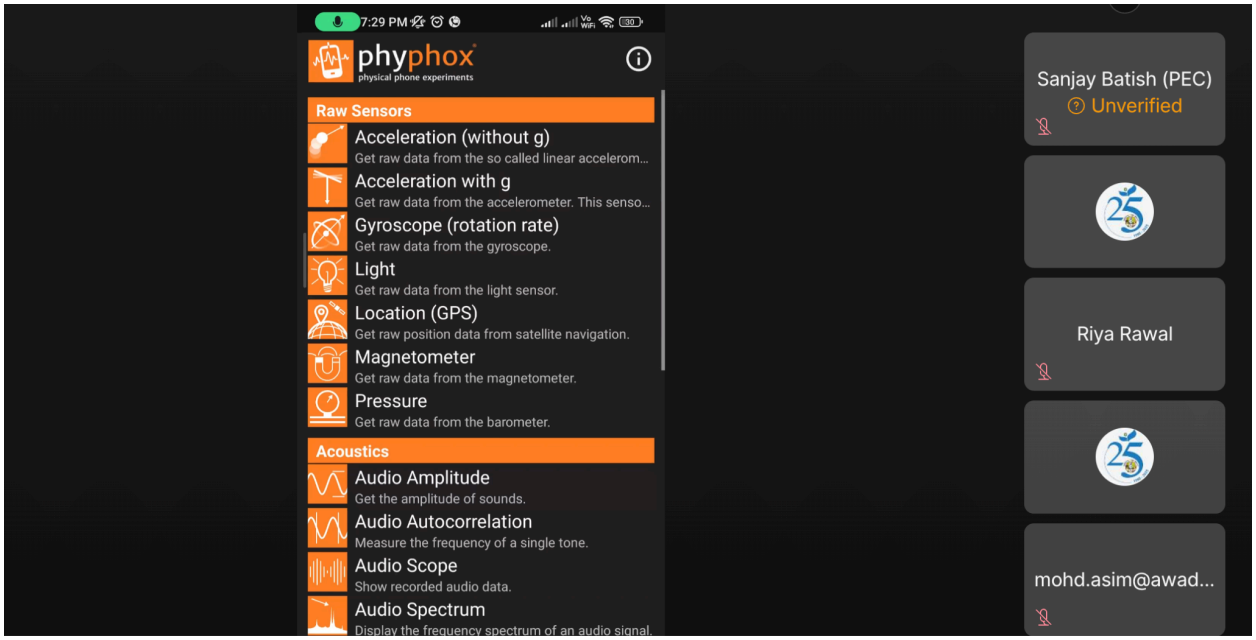
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phyphox
physical phone experiments
Raw Sensors
Acceleration (without g)
Get raw data from the so called linear accelerom...
Acceleration with g
Get raw data from the accelerometer. This senso...
Gyroscope (rotation rate)
Get raw data from the gyroscope.
Light
Get raw data from the light sensor.
Location (GPS)
Get raw position data from satellite navigation.
Magnetometer
Get raw data from the magnetometer.
Pressure
Get raw data from the barometer.
Acoustics
Audio Amplitude
Get the amplitude of sounds.
Audio Autocorrelation
Measure the frequency of a single tone.
Audio Scope
Show recorded audio data.
Audio Spectrum
Display the frequency spectrum of an audio signal.
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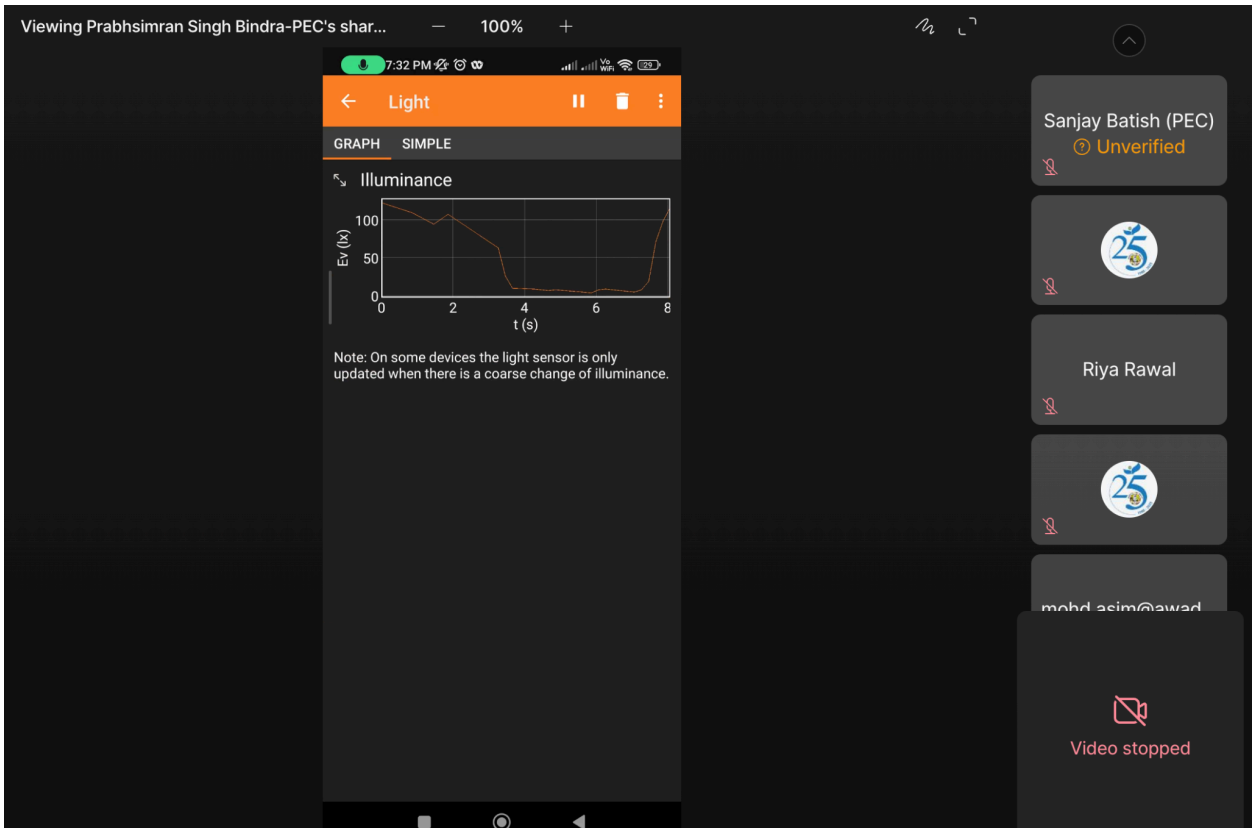
Viewing Prabhsimran Singh Bindra-PEC's shar...
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Light
GRAPH
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Note: On some devices the light sensor is only updated when there is a coarse change of illuminance.
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