

BEYOND SMART CITIES

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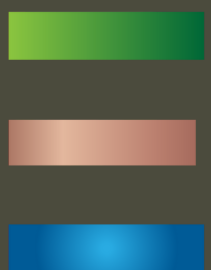
WELCOME TO SMART CITIES & THE INTERNET OF THINGS IOT - TECHNOLOGY

ONLINE TRAINING

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B**EYOND****ND**
SMART CITIES

Online Course

BEYOND SMART CITIES & THE
INTERNET OF THINGS (IOT)
TECHNOLOGY

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A blurred background image showing the heads and shoulders of several people in a meeting or collaborative work environment. The focus is on the text overlay in the center.

07

Sustainable Implications

SECTION - IOT AND SMART CITIES

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Sustainable Implications



07.

WHAT YOU WILL LEARN

- "Smart alert system for garbage clearance by providing an alert signal to the municipal web server for instant cleaning of a dustbin with proper verification depending on the degree of waste filling" can be created using IoT.
- By eliminating waste-related risks and odours, the IoT could improve public health and sanitation.
- IOT technology can keep the garbage disposal working effectively, preventing the above issues.

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Sustainable Implications

- The technology behind the Internet of Things can make it possible for more fundamental policy and regulatory shifts in the future.
- A researcher by the name of xyz claims that smart cities have more than one level of planning.
- We can improve policy making, urban planning, and sustainable practises by analysing the Internet of Things' structure, which consists of numerous layers, and the applications of those The planning process involves more than one level.
- The first tier at the bottom is in charge of "Internet of Things sources and data generation," while the second intermediate tier is in charge of communication between the sensors and relay connections; the third intermediate tier is in charge of data management and processing; and the top tier is in charge of the application and utilisation of the aggregated data.
- This model of tiered frameworks can aid with the gathering of data, the filtering of data, and the processing of data in order to assist with making decisions in the future.
- Also, the tiered structure shows us some of the many ways that IOT technology could help prevent overcrowding and ease the problems that come with having too many people.

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Sustainable Implications +

- It has the potential to facilitate improved urban planning, decision-making, and the intersectionality of technological advancement and human flourishing.
- It is possible to change policies to make it easier for more IOT technology to be used.
- One of the policies in Executive Order 13748, which came out on November 16, 2016, was to set up a Community Solutions Council.
- The Internet of Things could help with "community-driven, locally led visions and long-term plans for clear goals" that should be used to guide specific projects.
- Technology can be used by the community to help direct the distribution of duties and achieve goals that are sustainable for the community.
- This order may have an effect on how technology is used to solve problems in cities.
- The execution of this order included participation from a variety of different stakeholders.
- The Department of Health and Human Services, the Department of Housing and Urban Development, the Department of Transportation, the Department of Energy, the Department of Education, and the Environmental Protection Agency are some of the stakeholders that can be influenced.



Sustainable Implications +

- These stakeholder groups have the opportunity to gain knowledge regarding how IOT technology might direct future urban planning procedures.
- The Executive Order Regarding Efficient Government Operations, which was signed into law not too long ago, could be changed by IOT. This order states that it aims to "achieve and maintain annual reductions in building energy use and implement energy efficiency measures that reduce costs; meet statutory requirements relating to the consumption of renewable energy and electricity; and...utilize performance contracting to achieve energy, water, building modernization, and infrastructure goals."
- In other words, the order aims to "achieve and maintain annual reductions in building energy use and implement energy efficiency measures that reduce costs" .
- The technology behind the Internet of Things has the potential to incentivize the achievement of these sustainable infrastructure goals and bring about policy shifts that support interdisciplinary approaches to the problem of urban sustainability.
- A wide range of factors, such as "savings on the public budget, a higher quality of life for the citizens, and the city's wealth," are driving this technology.



Sustainable Implications +

- Smart cities also have ways to ensure not only the growth of cities as a whole but also their economic, social, and environmental health.
- The Internet of Things (IoT) has the potential to limit transportation, which is another way it can have an effect on overpopulation.
- Internet of Things technology can find problems and limits in the infrastructures of smart cities.
- The technology of the internet of things can be used to provide real-time updates not just on traffic caused by cars but also on traffic caused by people and on places that are over-trafficked.
- The Internet of Things (IoT) can help the architecture industry because it will make it easier to share data, which will lead to better decisions about housing, development, and keeping public areas in good shape.
- The Internet of Things (IoT) technology will help people make better decisions, which will have a positive effect on sustainability.
- This will lead to better designs for housing and transportation, faster construction, and healthier lifestyles in cities.

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A background image showing a group of people, including a woman with long dark hair and a man with curly hair, sitting at a table. They appear to be in a meeting or collaborative work environment, with laptops and papers visible. The image is slightly blurred and has a warm, golden-yellow color palette.

SMART CITY QUOTE

“A smart city is an intelligent town that provides enormous possibilities for human growth through art, culture, social, architectural, economic, political, environmental, and scientific flowering with the optimal mix of nature, technology, humanity, and arts.”

Amit Ray



THANK YOU

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