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

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Online Course

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

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08

Applying Sustainable Frameworks and IOT Weaknesses

SECTION - IOT AND SMART CITIES

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Applying Sustainable Frameworks and IOT Weaknesses

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WHAT YOU WILL LEARN

- The Internet of Things (IoT) technology has both positive and negative implications.
- Corporate social responsibility, stakeholder theory, corporate sustainability, and green economics are all examples of frameworks that contribute to sustainability.
- The perspective of the theory of coevolution is comparable to that of businesses that have an effect on customers.
- In a similar vein, the idea of green economics places an emphasis on participation and actions taken by both businesses and civilians.

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Applying Sustainable Frameworks & IOT Weaknesses

- The Internet of Things (IoT) technology has both positive and negative implications.
- The benefits and drawbacks of implementing sustainable frameworks are discussed in this section, including the field of IOT.
- Corporate social responsibility, stakeholder theory, corporate sustainability, and green economics are all examples of frameworks that contribute to sustainability.
- These theories have the potential to demonstrate the implementation of sustainable frameworks in order to encourage the use of IOT technologies.
- Corporate social responsibility, as far as we can tell, includes a wide range of responsibilities, including legal, ethical, and voluntary ones.
- Companies have a responsibility to be aware of how their actions influence the decisions and points of view of people.
- Hence, businesses have the capacity to influence both the understanding of consumers and their opinions on the practises of sustainability.
- The perspective of the theory of coevolution is comparable to that of businesses that have an effect on customers.
- The essential ideas proposed by Darwin form the basis of the coevolution theory.





Applying Sustainable Frameworks & IOT Weaknesses

- The definition of this theory is based on the interaction of various agents.
- The evolution of a single organisation is a contributor to the evolution of society.
- The Internet of Things (IoT) technology intends to create a similar kind of co-evolutionary change, which is one reason why this is good.
- Society progresses in tandem with the development of new technologies.
- In a similar vein, the idea of green economics places an emphasis on participation and actions taken by both businesses and civilians.
- These participatory measures highlight the calibre of companies and stakeholders by requiring them to engage in sustainable dialogue and ideas.
- In addition, it can be utilised to analyse the process through which coevolution begins, as well as the effects that it has on businesses and sustainable stakeholders.
- Concerned parties, also known as stakeholders, play a crucial role in determining whether or not enterprises and society make progress towards achieving their sustainability objectives.
- The stakeholder theory places an emphasis on corporate ties, with the idea that corporations should establish partnerships with both non-traditional and conventional populations.
- For instance, it encourages firms to build ties with atypical players like the government, special interest organisations, or environmentalists.
- These organisations have the potential to function as catalysts for change in order to encourage the adoption of environmentally friendly technologies and practises.

Applying Sustainable Frameworks & IOT Weaknesses

- It is necessary to focus on all four components of sustainability in business, including social, environmental, financial, and economic aspects of sustainability.
- These dimensions have the potential to provide organisations with clarity by enabling them to determine a "bottom line" for each social, environmental, financial, and economic component that contributes to the accomplishment of the company's objectives.
- Since the pursuit of sustainability has become an increasingly important priority for businesses, this can also help to spread the use of Internet of Things technologies.
- In addition, businesses have the option of adopting a triple bottom line strategy, which includes the incorporation of coevolution theory, a multi-level perspective, and transition management.
- By bridging ideas such as "moving from what to how, shifting towards broader systems, and shifting to the rising use of interdisciplinary approaches," this strategy maintains its grounding in the environmental, financial, and economic components.
- Using the natural environment, innovation and industrial strategies, and natural capital are all examples of ways that fall under the umbrella of interdisciplinarity.





Applying Sustainable Frameworks & IOT Weaknesses

- It also demonstrates the benefits of using IOT technology into sustainable frameworks, which is shown to be beneficial.
- There are contrasting points of view and difficulties associated with the IOT technology.
- In our opinion, the IoT has difficulties in the areas of identification and authorisation, privacy, resource restrictions, software vulnerability, and malware.
- As a result of the large number of devices, authenticating it can be challenging, and pre-shared keys and key management are either impractical or impossible to implement as feasible choices.
- Another problem that can occur is the invasion of users' privacy, which can be caused by the acquisition of significant information regarding the users' ways of life.
- IoT technology also requires a large number of devices, some of which have limited resources such as computer power and battery life.
- Interoperability, data management, and usability standards all face hurdles, according to Pawar's assessment of the situation.
- The rising magnitude of the data presents yet another obstacle, as it can transform the process of managing it into one that is both essential and laborious.
- Lastly, the cost of using IoT technology includes the cost of equipment such as sensing, monitoring, and other management mechanisms that may be expensive and represent significant barriers to expanded usage.

SMART CITY QUOTE

“We’re moving from a generation who gave little thought as to the built environment and accepted housing that was neither pleasant to look at, nor to live in or around, to a new century where there’s a real desire for housing that’s affordable, flexible, and places community at the heart of its thinking. For architects and the public it’s an enticing prospect.”

Will Gompertz



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