MARRI LAXMAN REDDY
GROUP OF INSTITUTIONS

MLR INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

MICRO PROJECT

"The value of an idea lies in the using of it."

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AUTOMATIC STREET LIGHT SYSTEM

PRESENTED BY:

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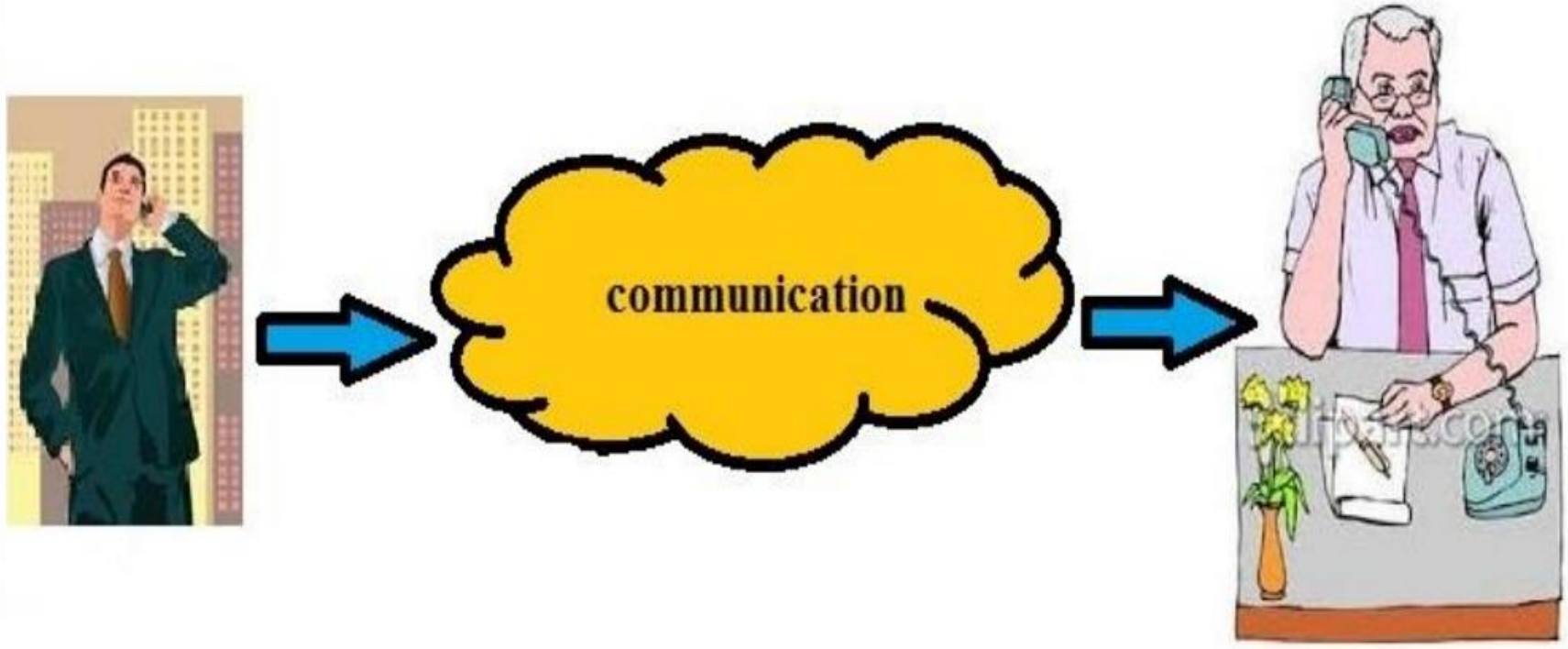

INTRODUCTION

- We need to save or conserve energy because most of the energy sources we depend on,like coal and natural gas can’t be replaced.Once we use them up,they are gone forever.Saving power is very important, instead of using the power in unnecessary times it should be switched off.
- In any city “STREET LIGHT” is one of the major power consuming factors.Most of the time we see Street lights are ON even after sunrise thus wasting lot of energy.This project is all about to control power consumptions at the street lights and eliminating man power.
- Our objective is to provide a fully automated street light control which will definitely affect to mankind.

- The main purpose of this project”AUTOMATIC STREET LIGHT SYSTEM” is to minimize loss of electricity and also eradicate man power to manually ON-OFF the street light
- The main aim of the project is to provide automatic control and monitoring on street light.
- The project deals with designing a lighting system which targets the energy saving.
- Basically our project mainly depends on LDR(light dependent resistor) sensor that it gives less resistance in high light intensity and high resistance in low light intensity that is it gives high resistance in dark and low resistance in day.Here we use transistor as a two way switch.

Operating street light manully

PROBLEM STATEMENT

- Existing methods like registering the complaint, switching ON/OFF the light manually is time consuming and requires man power.The new method automatic ON/OFF and fault detection without human intervention is easier when compared to the existing system.
- We Proposed an automatic light control system which eliminates the disadvantages of existing systems by taking date and time from GPS,as it also gives information about the position of system.Based on the results of the microcontroller,calculates and automatically detects geographical area and retrieve relevant data.

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Cost Effective

Long Life

Easy Maintenance

High Visiblity

CONCLUSION

- THIS PROJECT CONTRIBUTE A BRIGHTER FUTURE FOR THE COMING GENERATIONS.THIS PROJECT IS A ECO-FRIENDLY, PRACTICAL,AND THE SAFEST WAY TO SAVE ENERGY.
- IT CLEARLY TACKLES THE TWO PROBLEMS THAT WORLD IS FACING TODAY, SAVING OF ENERGY AND ALSO DISPOSAL OF INCANDESCENT LAMPS VERY EFFICIENCTLY.

- There are lower chances of the light heating and risk of accidents is also minimized.It’s stand-alone arrangement.
- A higher initial investment in comparison to conventional street lights.Rechargable batteries are required to be replaced a few times.

- ACCORDING TO STATISTICAL DATA WE CAN SAVE MORE THAN **40%** OF ELECTRICAL ENERGY THAT IS NOW CONSUMED BY THE HIGHWAYS.
- INITIAL COST AND MAINTANENCE CAN BE THE DRAW BACKS OF THIS PROJECT.WITH THE ADVANCES IN TECHNOLOGY AND GOOD RESOURCE PLANNING THE COST OF THE PROJECT CAN BE CUT DOWN.
- BY THIS WE CAN LET THE PEOPLE TO KNOW SIGNIFICANTLY THAT "WIRELESS IS THE BUZZ OF COMMUNICATION INDUSTRY TODAY"

WE ARE HAPPY TO HEAR YOUR FEEDBACK AS WELL,WE WOULD BECOME STRONG.

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