

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA

THE EFFECTIVENESS OF CCTV IMPLEMENTATION BY MUNICIPAL COUNCIL FOR PUBLIC SAFETY

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"I hereby declare that this academic project is the result of my own research except for the quotation and summary which have been acknowledged"

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ABSTRACT

Closed Circuit Television Cameras (CCTV) have become an important crime prevention and security measure world-wide. In Malaysia, in the set up of the Safe City Program, CCTV is one of the integral parts of it. With the target of protecting the safety of the public, it is essential that a study being done to ensure the effectiveness CCTV system implementation in terms of enhancing safety with a relevant operational cost.

In this dissertation, the aim and objectives are obviously to investigate the effectiveness of CCTV implementing in enhancing the safety of the public, to understand deeply on CCTV as a safety appliances, and at last to develop a conclusion on whether CCTV is the right option in overcoming safety problem and its effect in interrupting with the public privacy.

The study and research is limited only on three major city area with municipal council that are Shah Alam (under Majlis Bandaraya Shah Alam municipal), Kuala Lumpur (under Dewan Bandaraya Kuala Lumpur municipal) and Subang Jaya (under Majlis Perbandaran Subang Jaya municipal). The research and data documented in this dissertation came from series of interview sessions with the particulars municipal's expert in CCTV system, residence respond in the questionnaire and field trip to all three of the case studies area.

From the entire information achieved, a conclusion on CCTV effectiveness can be resolved. Effectiveness here based on the opinion and perspective view of professional and expert of CCTV together with the respondent that live in the area where their municipals implemented CCTV.

The outcome shows that majority of the public and all of the experts agree on the effectiveness of CCTV implementation for public safety but before that a very detail and particular research must be conducted, so that the CCTV system picked is the best in terms of its location, condition, coverage, quantity, safety provided, maintenance, no privacy intrusion and its overall performance.

CHAPTER 1: INTRODUCTION

1.1 GENERAL VIEW:

CCTV, or closed circuit television, is a system comprised of cameras that are specifically configured to transmit signals to a monitor for viewing. Unlike broadcast television, which emits signals that may be picked up by any receiver, CCTV signals are limited in scope and exist within a specified area (hence the moniker "closed circuit").

A simple CCTV system consists of a wall-mounted camera connected to a monitor by coaxial cable. These "line-powered" systems (so called because the monitor powers the camera through the connecting cable) can be installed by the user and are popular among small retail stores and other similar environments. Line-powered systems may utilize multiple cameras, all connected to a monitor by coaxial cable. These monitors typically have switches that allow the view to toggle between camera views automatically, or focus on a particular frame of interest.

While the line-powered CCTV system is easy to install and maintain, it is limited in its scope due to the dependence of the cameras on the monitors for power. An outlet-powered system, where complex arrangements are more easily arranged, is similar to the line-powered setup. Cameras transmit their signals to a monitor through a coaxial cable, but are powered by a plug in an outlet.

These line and outlet-powered CCTV systems can be very basic or very complex, depending on the security needs of their users. For example, a small