THE WORLD OF HAWK-EYE

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ABSTRACT

In the late 1900s the world of sports went through an era of controversies where erroneous decisions made the difference between a win and a loss. Technology was a vast and effective resource that needed to be tapped but nobody had the know-how on how to harness this resource.

The new millennium brought with it a breakthrough, a revelation in this field. The year 2001 saw the birth of a phenomenon which the world soon came to know as HAWK-EYE. Along with the birth of new technology comes a series of questions that I will answer.

- What is it?
- How does it work?
- Where can it be applied?
- What is its future scope?
- What are its limitations?
- Can these limitations be overcome?

Hawk-Eye is a complex computer system used in cricket, tennis and other sports to visually track the path of the ball and display a record of its most statistically likely path as a moving image. In some sports, like tennis, it is now part of the adjudication process. It is also used in some instances to predict the future path of a ball in cricket.

All Hawk-Eye systems are based on the principles of triangulation using the visual images and timing data provided by at least four high-speed video cameras located at different locations and angles around the area of play.
Hawk-Eye also has its applications in military operations and automobiles which I will also handle in this seminar.