

# DEFINE PROBLEM/PROBLEM UNDERSTANDING

## SOCIAL OR BUSINESS IMPACT

TEAM ID	NM2023TMID04400
PROJECT NAME	BIOMETRIC SECURITY SYSTEM FOR VOTING PLATFORM

### Social impacts of biometrics:

**Convenience, improved security** Are some of the benefits often associated with the use of biometrics. Those benefits may flow to particular individuals, corporations, and societies but are sometimes realized only at the expense of others.

### INTERACTION BETWEEN BIOMETRIC SYSTEMS AND INDIVIDUALS:

System performance may be degraded if social factors are not adequately taken into consideration.

These factors are of two types, those that motivate and those that facilitate participant engagement with the system.

### Fingerprint recognition

**Fingerprint recognition** is one of the most commonly used and secure biometric technologies today. The speed and ease of fingerprint recognition make it one of the best biometrics for verification purposes

#### The levels of fingerprint recognition

In the world of biometrics, the details of the fingerprint are broken down into three distinct levels:

##### Level One:

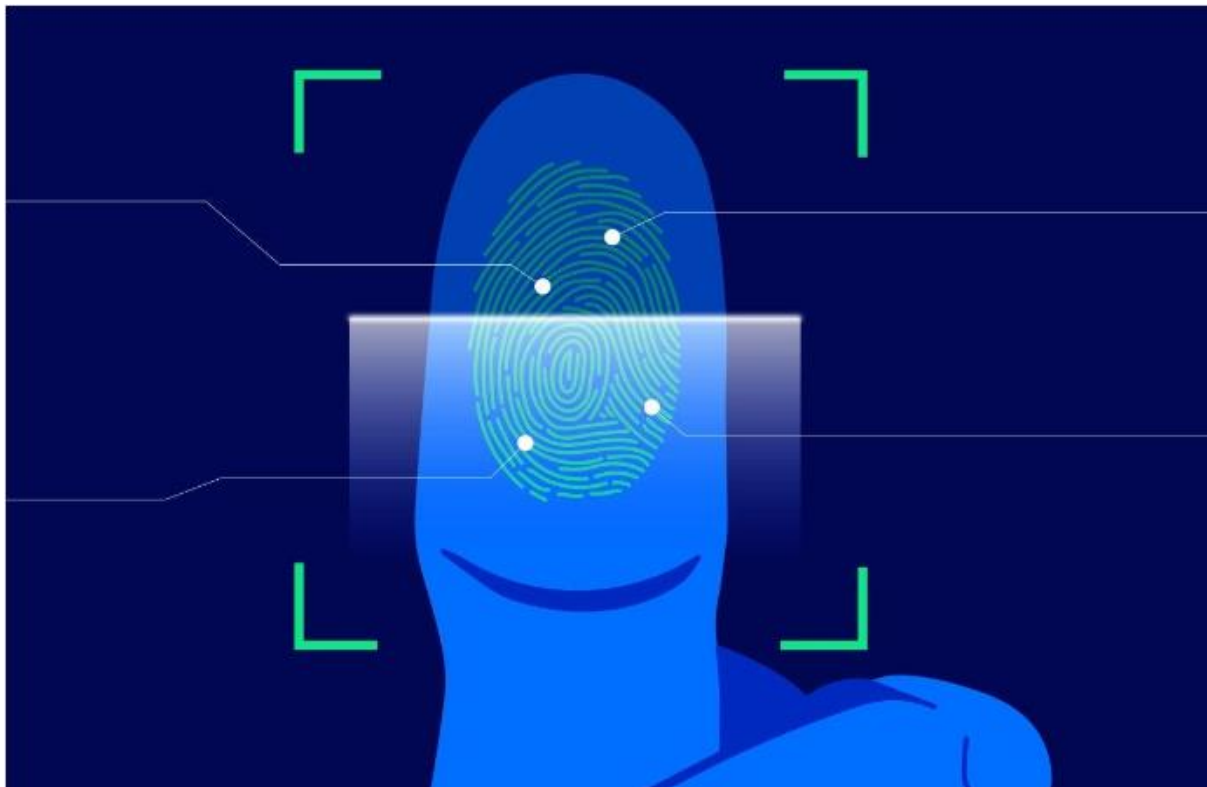
At the first level, fingerprint recognition software will image the fingerprint patterns as a whole, rather than emphasising the specifics of the print.

### **Level Two:**

The minutiae points of the fingerprint are gathered in greater detail, from which the bulk of the unique features is extracted.

### **Level Three:**

This includes the shapes and the images of the ridges and their associated pores. This is the most sophisticated and detailed level and is generally not widely adopted in use cases



### **Impacts of biometrics:**

Biometrics is a characteristic of an individual. Therefore if an unauthorized person gets access to your biometrics, it might breach your privacy. This impacts facial biometrics the most because if someone gets access to the database, they get to know how you look and that can be used to know who you are.

### **Biometrics impact the future:**

AI-powered biometrics will likely drive reliable real-time identity verification using cameras installed on-premise. This will be

especially true for facial and behavioral biometrics, which include gait, accent, and voice recognition. Use of Newer Identity Markers.

