

TACTI

Opportunity

Annex Chess Club members who experience temporary afflictions of their dominant hand struggle to record Chess moves.

FIDE regulations mandate players to record their moves, hence players need an alternative solution to record chess moves to remain able to partake in the game.

Design Objectives

Usage of the dominant hand is prohibited

Moves take less than 3 seconds to record

Device should be functional for minimum 8 hours

Why TACTI?

TACTI works in parallel when recording, all other solutions in series, TACTI fulfills requirements more completely

Sensing Arrays

No equipment with sound, visual aids, or distracting features are allowed into the tournament arena. Non-FIDE approved boards

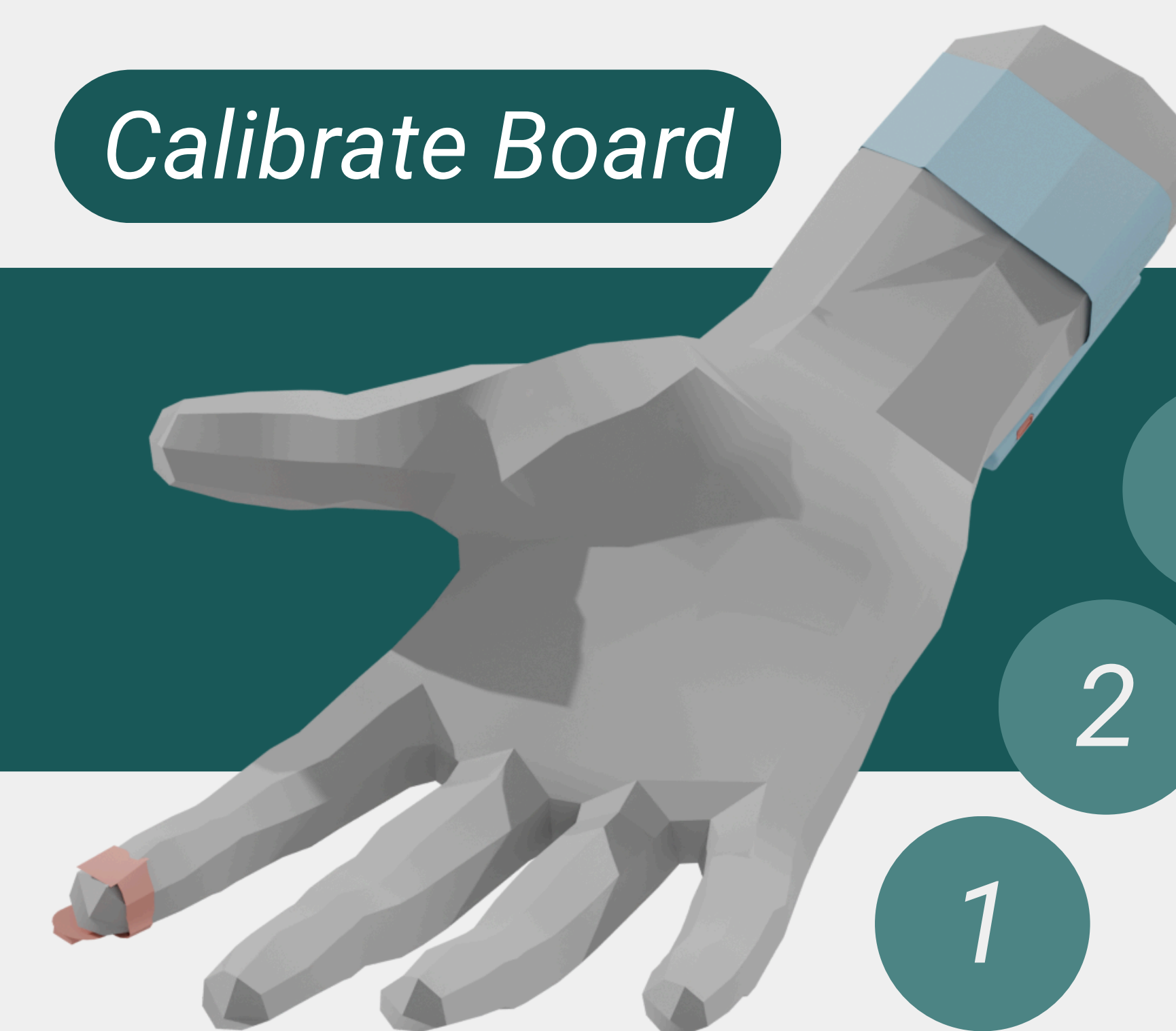
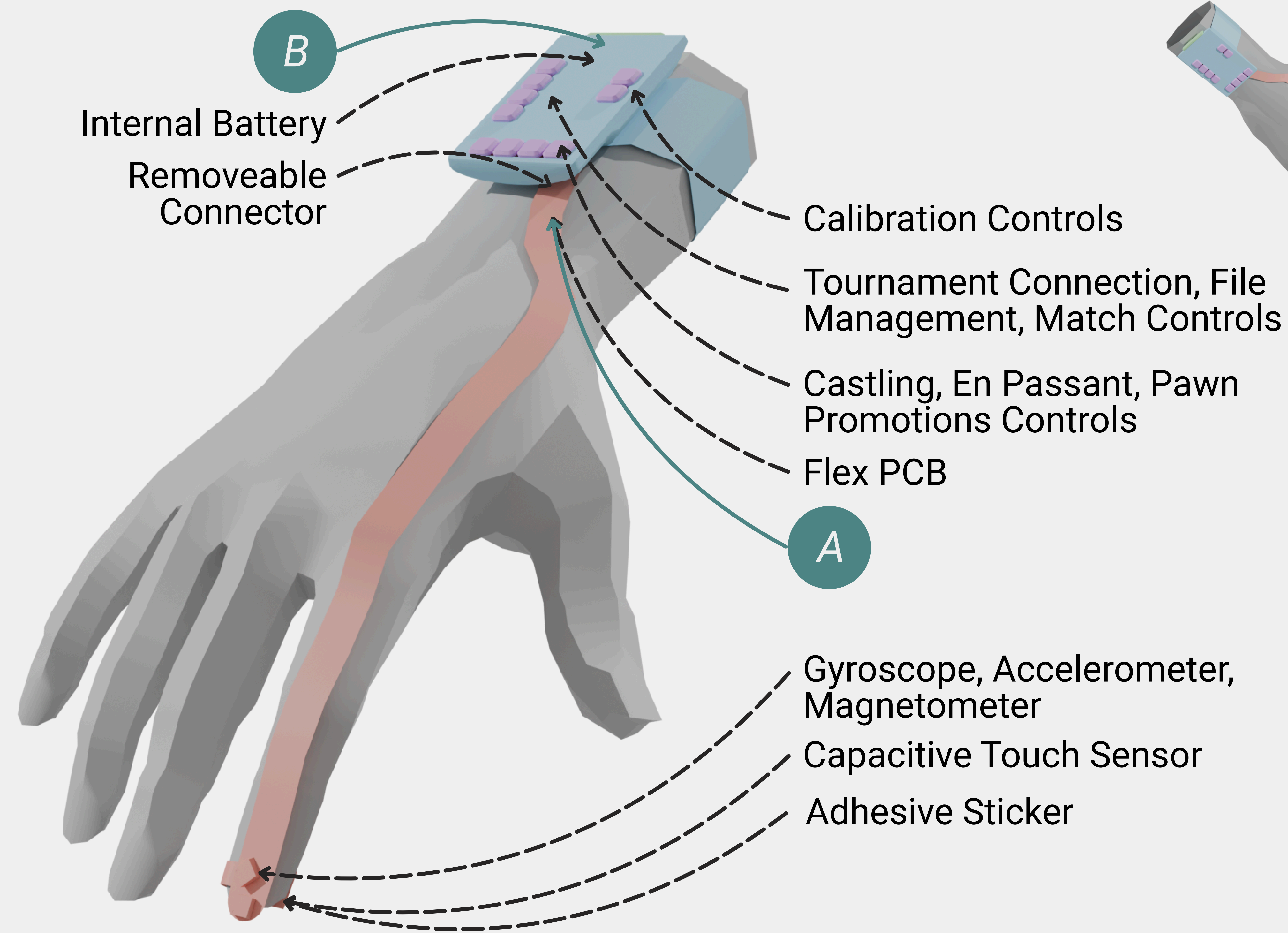
Touch Interfaces

Cellular devices, Tablets and Computers are usually prohibited from the playing area and can be difficult to use for specific demographics

Computer Vision

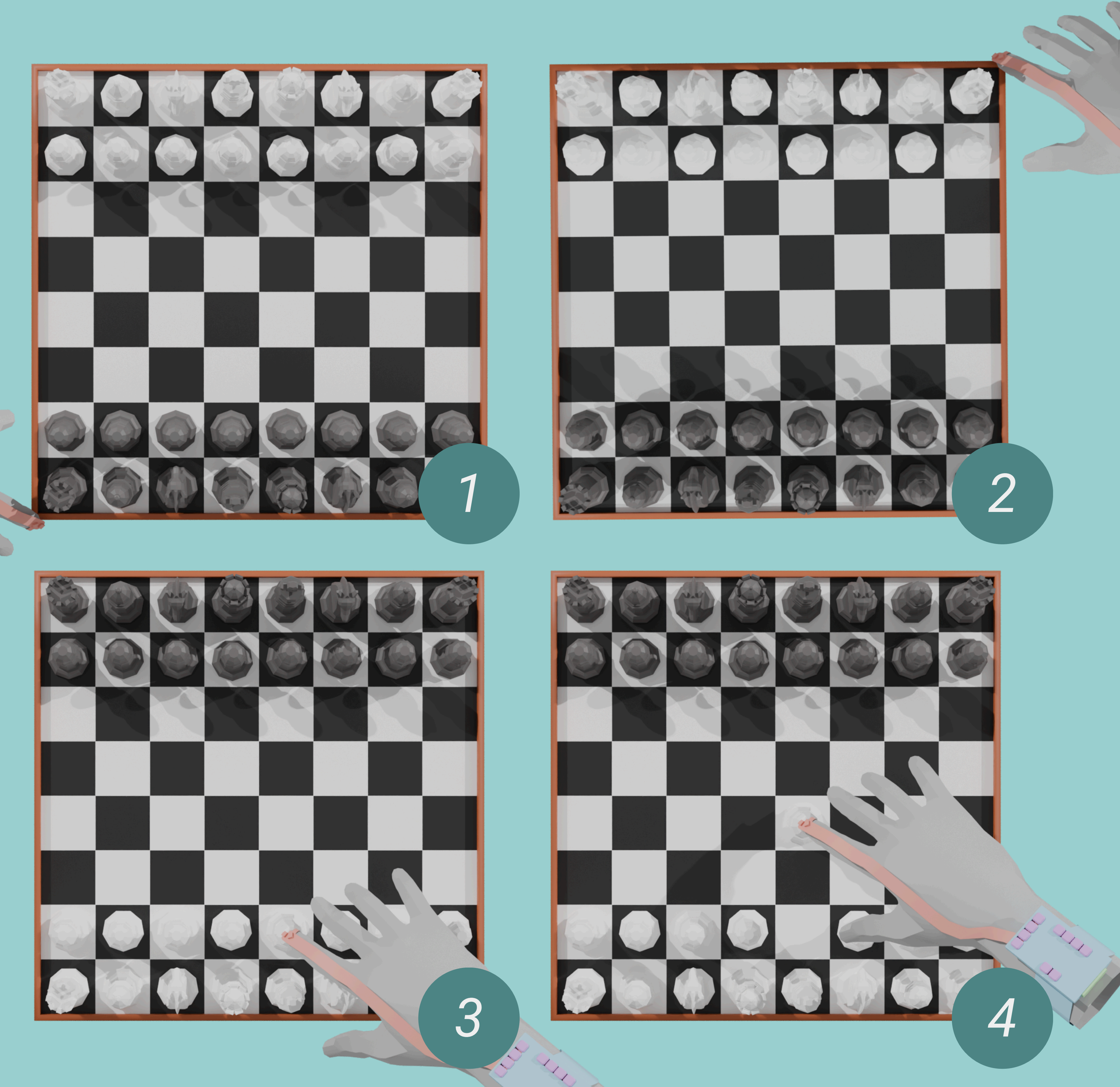
No system is perfect, backups are required, video backups are on the order of terabytes, whilst TACTI backup .txt files are on the order of kilobytes.

Computer vision must be sent to a central processing station and is not required to record the moves of players hence unsuitable for needs of our stakeholders.



Sensor Data, Touch Data

Filter Data, Get Position, Update Game State



- 1
 - 2
 - 3
 - 4
- Calibrate the sensor to the outer corners of A1 and H8
- Initiate and complete movement, move recorded in parallel

Display Data, Send Data to Tournament Server

