

## Integrating new tech. in election Electronic biometric registration experiment\ Iraq

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- population : 33,000,000
- listed voters:22000,000



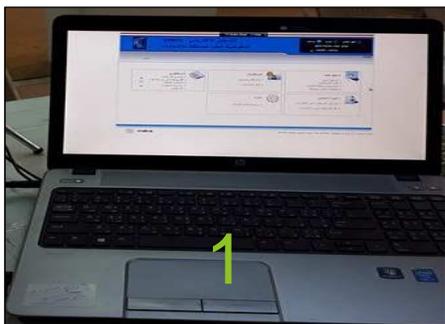
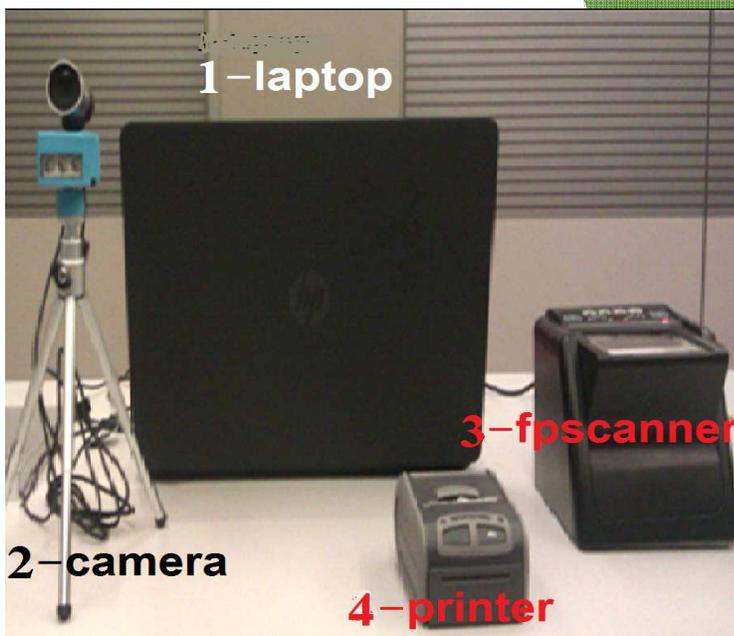
### 1-why electronic bio registration

- long paperwork process for making the registration book before Apr. 2014 .
- Its(registration book) hard to be updated .
- It(registration book)Has Long search process on polling.
- Less effort more security .
- Future tech. Compatibility with new computerized systems(verification ,scos and pcs) .



## 2-Registration kit Main parts

- 1- laptop
- 2-camera
- 3-fingerpint scanner
- 4-printer\card reader and writer





# 3-Starting a new registry Data entry interactive window



# Fingerprint scanning



Finalizing +receipt



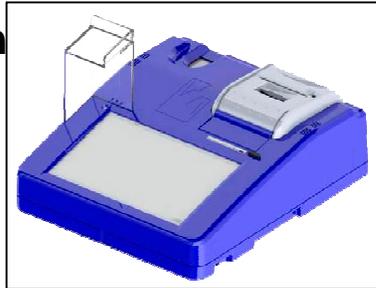
## 4-the card & Verification device



- Voter Electronic card



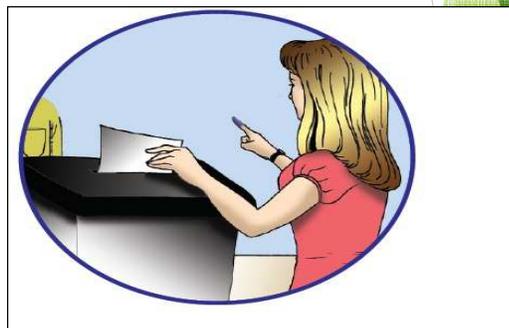
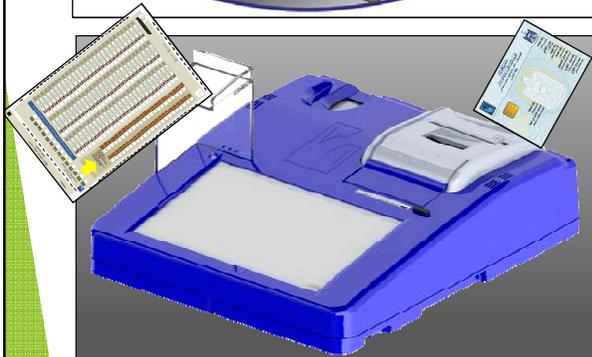
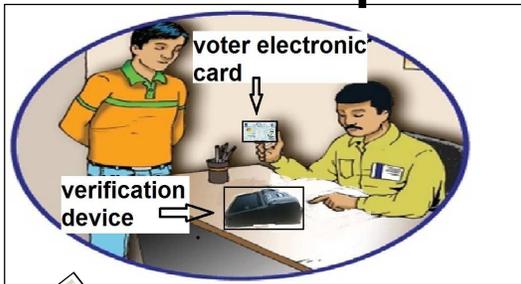
- Verification device



Polling station card

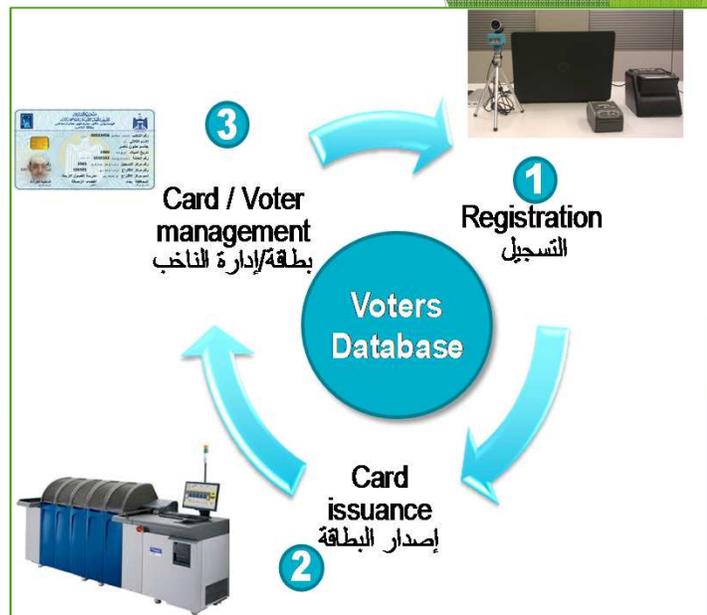


## 5-Election procedure in short



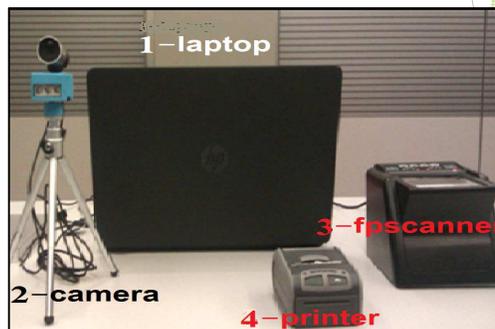
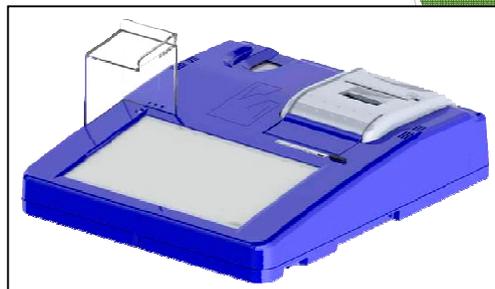
## 6- Impact of Technology on electoral integrity

- Trustable system to the voter and political entities.
- Initial expectation .
- Reliable Database, data integrity (validity limitations) .
- Continuous and Open to reach any time.



## 7-Maintenance:

- training .
- sudden malfunctions .
- adding some changes.
- regular checks .



## 8- future project(fast result counting)

**-(pcos)**

Polling station counting  
optical scanner



**-(ccos)**

Center counting optical  
scanner



## 9- Challenges and benefits

### A-challenges

- 1- Infrastructure (electricity ),far of reach villages and distant locations .
- 3- security issues (tensed area ,displaced people ) .
- 4- Human recourses( training ,adequate employees) .
- 5- Registration is not mandatory(media ,lectures ,cooperation with other ministries ) .
- 6- replacement of system(plan B) .
- 7- Traditions limits for women(NGOS,social centers) .



## **B- Benefits**

- 1- No replication for data or voting .
- 2- Fast and Easy to find the voters polling center and station.
- 4- Reliable secure information system , guarantees transparency.
- 5- database easy to be altered .
- 6- Saves time and money (employees ,printing ) .
- 7- less human errors .



# THE END

THANK YOU

