The voting process is still predominantly manual and paper-based. As a result, it is often labor-intensive, time-consuming and vulnerable to fraud. However, modern technology can deliver significant improvements to a critical phase of an election process: voter authentication just before a ballot is cast.
For election commissions, numerous benefits can be reaped from the modernization of authentication methods. In particular they can:

> Take advantage of investment in enrollment campaigns, leveraging biometrics to improve voter check-in at polling stations on the day of an election
> Ensure the “one voter, one vote” principle and therefore enhance the credibility of elections
> Provide additional tools to validate election results
> Generate electronic audits and reports
> Discourage opposition groups from contesting election results

Furthermore, all this can be achieved without major modifications to the election process. The addition of an extra step is all that is required to facilitate robust voter authentication.

Coesys Mobile Voter Authentication Terminal

The Coesys Mobile Voter Authentication Terminal is an easy-to-use, handheld, high performance Android-based device that provides an efficient and reliable method of authentication at voting stations.

Crucially, it will help answer these three key questions:

> Is the voter on the electoral list?
> Is the voter the person he or she claims to be?
> Has the person in question already voted?

Designed for the election process

Security, ease of use and transparency are key elements of the voting process. The Coesys Terminal offers:

> Clear notification of voter authentication results: green/red LED indication plus an audible warning
> Laser for quick and efficient reading of voter ID barcodes
> Ergonomic handheld design with potential for desk-based use as well
> Secure Access Modules (SAM) to ensure fully protected data management and storage
> Robust solutions to protect and secure terminal access

Particular attention has been paid to readability and autonomy:

> Colors LED-backlight TFT screen, sunlight readable for excellent readability in all conditions in outdoor use
> Large color screen (3.5” 16.7 million colors) for high quality photo display to facilitate face authentication
> Optical finger print reader for best biometric performance
> Barcode reader 1D/2D with laser aiming for fast and reliable acquisition
> Large bi-color (red/green] light indicators
> 85db mono speaker for noise notification
> Standard or rechargeable LR6 battery
> Batteries highly accessible for easily replacement during the election process
> High power management by software implementation (device power management)
> IP 54, semi rugged