

ScytI Election Modernization

Implementing e-Election processes: from cumbersome to innovative, efficient, transparent and secure

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Bringing transparency to elections

The Challenges

Elections in a mid-sized country (300,000 sq km)

- 60,000 polling stations to be identified and fitted (e.g. India 687,402 Burma 48,000)
- 300,000 sets of electoral equipment to be procured, installed and tested
- 150,000 temporary staff to be recruited and trained
- 40M voters to be registered and educated
- Transport of ballots to be organized from 60,000 locations
- 40M votes to be cast, counted and collated
- 5% - 10% overseas voters

.....and everyone wants the result in hours!

The Process

Encourages Participation through Voter Education

Independent of Geographic location

Caters for the most Disadvantaged in our Society

Contributes to reducing Coercion by allowing last vote counts

Guarantees the Anonymity of the Voter

Guarantees the Vote was Counted as Cast

Provides a comprehensive Audit Trail

The Process

Pre-Election

Asset Management

Project Management &
Control

Personnel Planning

Poll Worker Training

Voter Education

Elector Registration

Ballot Delivery
(Postal/Online)

Election Day

Help Desk

Personnel Mgmt.

ePollbook

Kiosk Voting

Online Voting

Phone Voting

IT Infrastructure
Management

Post-Election

Security

Counting

Vote Consolidation

Securing of Audit Data

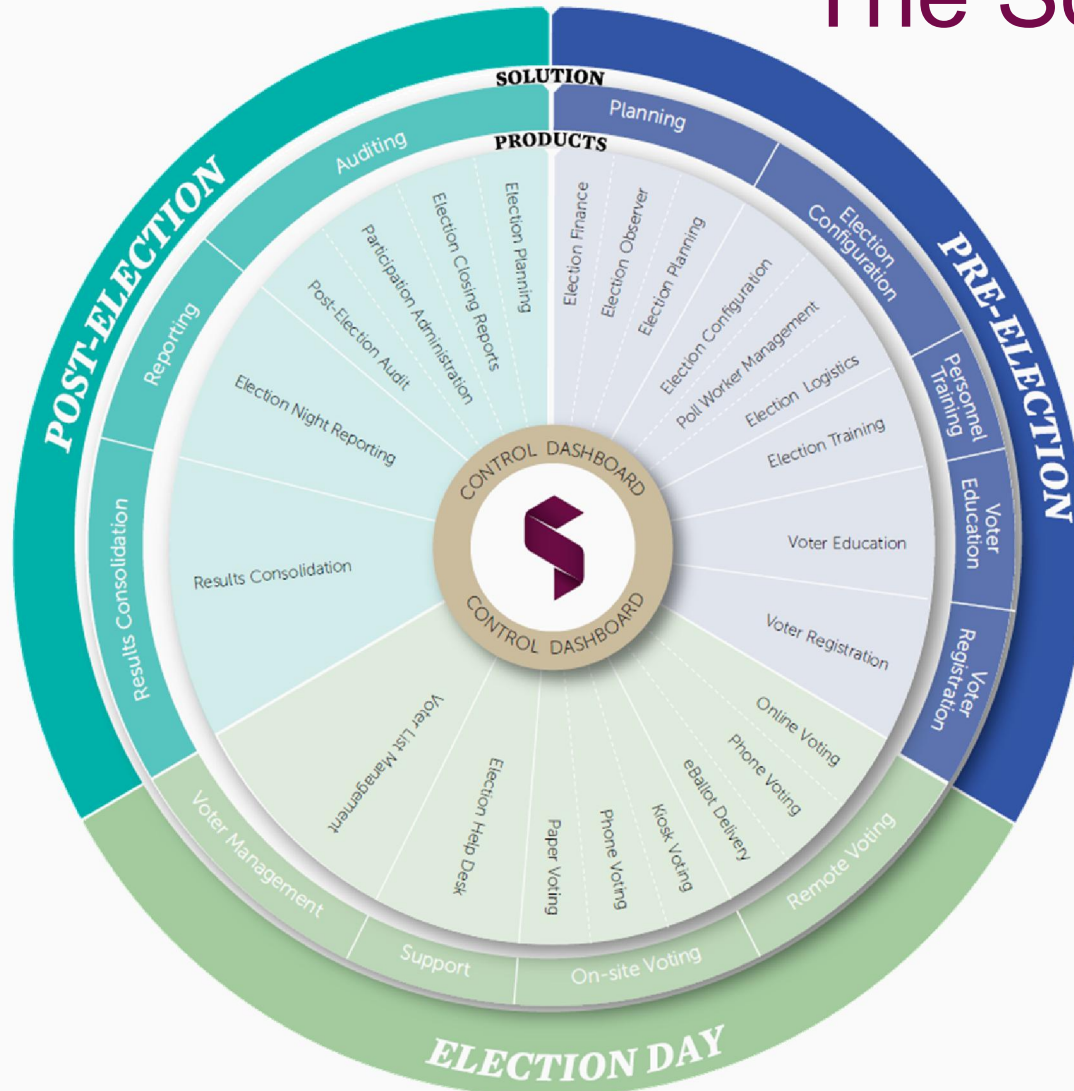
Reporting Media/Web
Based

Results Analysis

Asset Management



The Solution



End-to-end solution

With Platform architecture that is

Modular

Integrated

Open

Secure, transparent, accessible,
auditable

ScytI Election Modernization

Free and democratic elections

Common Techniques

ScytI Techniques

PRIVACY



SSL based Encryption
Database encryption
Information protection
Military Grade Encryption



3 Layers of Personal Data Encryption
End-to-End Encryption Protocol
Cryptographic Mixing Protocol
Secret Sharing Cryptographic Keys
Advanced Encryption Mechanics

AUTHENTICATION



User Profile Based Permission
User Password Access Control



Integrated Authentication Protocol
Multi-Factor Strong Authentication
Strong Role-Based Access Control
Specific Anti-Hacker Mechanisms
Verification Through One-Time Links

VERIFIABILITY



Logs Monitoring
System & Application Logs
Source Code Open for Review
Operations Traceability



Cryptographic Immutable Logs
Cryptographic Cast -as-Intended
Cryptographic Counted-as-Cast
End-to-End Verifiability
Digital Signatures

INTEGRITY



Procedural Integrity Checks
SSL Security



Digital Signature
End to End Security
Security Cross Checks of Data Integrity



- **ICT Prize**, granted by the European Commission
- **European Venture Contest Award**, granted by the European Association of Venture Capital
- **Best Case Label**, granted by the European Commission.
- **e-Governance Award** “Excellence in Government Process Re-engineering”, granted by the government of India
- **European Tech Tour Award** granted by the European Tech Tour Association
- **Leader de l’ITech-Economie**, granted by the French Chambers of Commerce
- **Global Innovator Award**, granted by The Guidewire Group
- **Red Herring 100**, granted Red Herring Magazine
- **Premi Ciutat de Barcelona**, granted by the City of Barcelona
- **ebiz eGovernment award**, granted by the Austrian chancellor
- **Tech Start-up 100** granted by the Telegraph
- **eWorld award** granted by the Indian Government
- **Excellency in Technological Innovation Award** by the Catalanian Association of Technical Telecommunications Engineers (COETTC)
- **National Media Awards: Internet**, granted by the Government of Catalonia
- **SSD Highly Successful Project Award** by HP



European Commission (EU)

Canton of Neuchâtel (Switzerland)



City of Barcelona (Spain)



Electoral Commission (Philippines)

State of Victoria (Australia)



State of Gujarat (India)

State of Florida (US)



Ministry of Science and Research (Austria)

Ministry of Justice (UK)



Ministry of Local Government (Norway)



Ministry of Foreign Affairs (France)

Electoral Commission (UAE)

Worldwide leader in election modernization and online voting

Canada	Argentina	France	Ecuador	Bosnia	India	New Zealand
USA	Finland	Spain	EU	Herzegovina	Philippines	Russia
Mexico	Norway	Switzerland	Austria	Ethiopia	Australia	
Peru	UK	Costa Rica	Slovakia	UAE	South Africa	

20 Countries have
run internet based
Elections

18 Countries have
chosen ScytI

Largest patent portfolio in the industry

Changing the electoral landscape





Innovating Democracy

