IVU.elect
THE RIGHT
CHOICE
FOR EVERY
ELECTION
FOR SUCCESSFUL ELECTIONS

Efficient organisation of all stages of the electoral process with IVU.elect

For most people, an election only involves casting their vote and then waiting until the official results are announced a short time later. The procedures involved in conducting the election rarely come to the attention of the general public. Indeed, one of the prime goals of the electoral authorities is that voting should run smoothly and easily. In order to ensure this, the returning officers and electoral commission begin preparations many weeks before voting day.

IVU.elect has been continuously developed since 2002 in cooperation with Germany’s Federal Returning Officer. It is able to provide a formally correct representation of the entire electoral process for implementation at local, regional, and national levels.

The system has proven its value in numerous elections in Germany and other countries. IVU.elect has not only been used on many occasions in Germany for general elections, in the Bavarian capital city of Munich, and by the returning officer of Saarland, but has also been used at all administrative levels in the Netherlands.

IVU Traffic Technologies AG has many years of experience with the introduction of IT systems for planning and scheduling, as well as for the organisation and administration of elections. IVU.elect is the integrated tool for the successful organisation and implementation of the entire electoral process from the determination of the voting day through to the publication and documentation of the final official results. It supports the electoral authorities and helps the returning officers to cope efficiently with the increasing number of ballots and elections and growing security demands.
THE COMPREHENSIVE SOFTWARE SOLUTION FOR ELECTORAL ADMINISTRATION

IVU.elect provides full software support for the organisation of elections.

The main task of the electoral authorities is to make voting convenient and secure. This involves a complex process, which begins weeks before voting day and ends when the official documentation has been approved after the election. If elections are to be held in an orderly fashion, the electoral authorities have to maintain control over procedures which may involve millions of voters spread over hundreds of thousands of square kilometres.

IVU.elect provides comprehensive coverage for the entire electoral process. It covers three core sectors: Organisation and planning, validation procedures as well as returns and results. Thanks to its modular software architecture, the system adapts flexibly to the specific requirements of each election. IVU.elect operates well at all levels of administration and all forms of election. With its full support of the EML standard, IVU.elect fits easily in any existing electoral environment and collaborates with other voting technologies and equipment.

Key functions of IVU.elect

- Precise modelling of the relevant electoral regulations
- Status monitoring for all processes
- Minimising errors by means of extensive plausibility checks
- Automation of processes after the closure of polling booths, taking all special electoral requirements into account

“IVU.elect is the result of cooperation between IVU, the Federal Statistical Office and the Returning Officer of the Federal Republic of Germany. The goal of this cooperation has been to develop an innovative IT system by means of which all the processes of an election can be supported and automated as far as possible. The aim is to eliminate sources of error and to reduce the work involved.”

Johann Hahlen
former Federal Returning Officer
EFFICIENT PREPARATION FOR VOTING DAY

Careful preparation is crucial if everything is to run smoothly in the polling booths on voting day.

IVU.elect ensures optimal preparation from the start – beginning with the definition of the election. An election date and the relevant electoral regulations are entered in IVU.elect and the voting areas and constituencies are specified. The system helps to find suitable locations for the polling stations. This involves taking various criteria and requirements into account, e.g. barrier-free access, convenient positioning, and security considerations. If the polling station is not in a public building, it will also be necessary to organise a temporary lease and the payment of rent. This can also be controlled easily through IVU.elect. The organisational phase concludes with the recruitment and allocation of electoral staff. To ensure compliance with electoral regulations, IVU.elect automatically carries out cross-checks with the electoral roll or relevant registration lists.

In its central database, IVU.elect stores information about buildings, documents, and relevant personnel – making all data easily accessible in one place.

Key functions of IVU.elect for the organisation

- Specification of the date of the election, relevant deadlines and voting channels
- Administration, furnishing, and equipment of polling stations
- Registration (also online) and allocation of poll workers
- Eligibility checks of poll workers against the citizen registers
- Payment for electoral staff, rent for polling station, etc.

“This level of automation makes the processing much easier and is a milestone on the path towards the IT-supported administration of poll workers.”

Joachim Dyllick
Head of "WahlNeu" project, Munich
SUPPORTING ELECTORAL PREPARATIONS

IVU.elect supports all the steps involved in the validation of nominations for political parties, lists, and candidates.

The nomination and validation process for election submissions usually generates large amounts of data and documentation. The electoral regulations also specify strict deadlines within which all the documents and data have to be registered and checked. In addition, there are the preparations of the electoral bodies, corresponding official announcements, and finally the formulation of the voting ballots.

IVU.elect supports these processes to varying degrees, depending on the legal requirements and the specifications of the electoral bodies. The support can already begin with the political parties, which are able to enter details of their candidates using a special component of IVU.elect. The system checks if the data is complete and formally correct. Subsequently, the entries can be submitted electronically together with the paper documentation. When the electronic data is received by the electoral authorities it is automatically checked against the electoral roll or relevant registration lists. Of course, data can also be entered manually in IVU.elect. An overview displays the results of the validation procedures. The documentation for the electoral committee can be prepared with only a few mouse clicks. Finally the voting ballots can be generated automatically from the relevant templates.

Key functions of IVU.elect to support the electoral administration

- Registration of candidates and political parties
- Administration of nominations and comparison of the candidates with the electoral roll or other registration lists
- Checks on declarations of support
- Generation of the print data for voting ballots and preparation for postal voting

“IVU developed their election software suite in 2009 to process all election types in The Netherlands. Despite a tight deadline they did not miss a beat in delivering the OSV election suite of programs. IVU has been a trustworthy and reliable partner. Ongoing changes to the electoral law and practical improvements are continuously added. That enables us at the Kiesraad to provide for each new election an up-to-date OSV-suite to each Dutch municipality.”

Melle Bakker
Secretary-Director of the Dutch Electoral Council
With IVU.elect the accurate results are obtained rapidly, presented transparently, and documented in a legally valid form.

IVU.elect supports the electoral administrators charged with determining the results of the election by providing automated procedures with all the checks required under the relevant electoral legislation. By means of extensive real-time status monitoring, the returning officer or other electoral bodies are continuously being informed about progress in the counting of votes.

The system registers the returns, calculates results and carries out on-going plausibility checks. Clear input masks corresponding to the layout of the ballots simplify the registration of results and the scrutiny by the electoral authorities. If special cases are encountered (such as a tie), these are automatically recognised by IVU.elect and the returning officer is called on to act in accordance with the relevant legal requirements, e.g. using a casting vote or other tie-breaking method.

For the publication of the results, the system has a specific user interface for each channel. Amongst others it provides optimum presentation on websites and mobile devices. Finally, the complete electoral documentation, together with all the necessary reports, is generated in IVU.elect and made available for printing. IVU.elect has also the capability to incorporate other voting technologies or electronic counting equipment due to its support of the EML standard and other established interface standards.

**Key functions for results and publication**

- Registration of all returns with plausibility checks
- Collation of the results
- Determining the elected candidate and the distribution of seats
- Production of statistics, reports and legally valid final documentation
- Live presentation of the results

“IVU.elect fulfils all the legal requirements for an electoral administration system. Regular alterations to electoral legislation are integrated by the developers reliably and punctually in time for each upcoming election. We are highly satisfied with the system and the cooperation with IVU is very pleasant.”

Roderich Egeler
Federal Returning Officer
PRACTICALLY PROVEN – A THOUSAND TIMES

Over 1,000 elections have already been organised and conducted using IVU.elect. Because every election is unique, IVU.elect can be adapted easily and reliably to meet the different demands.

GERMANY

IVU.elect is used for the validation of parties, lists and candidates. Come election night, it calculates the preliminary final results and then after a period of scrutiny publishes the official final results.

NETHERLANDS

In the Netherlands, IVU.elect is used for the entire organisation of all elections at every level of administration. IVU.elect supports the documentation processes of the electoral administration by providing uniform documents and templates.

SAARLAND

The Returning Officer of Saarland relies on IVU.elect in all elections since 2004. The system is used to determine the preliminary and official final results.

MUNICH

Munich’s electoral commission uses IVU.elect for all processes involved in the organisation and administration of their elections.

DRESDEN

The capital city of Saxony uses IVU.elect at all stages of the election, from the organisation of the polling stations and recruitment of poll workers, through the validation of candidates and parties to the calculation and publication of the final results.
IVU. 35 YEARS OF EXPERIENCE

For more than 35 years, IVU has been successfully developing solutions for a wide range of logistical challenges – from public transport and freight transport through to information logistics for geomarketing and elections. With its standardised software products and customised IT solutions for more than 500 customers worldwide, IVU ensures that transport services run smoothly and elections can be organised efficiently.

Some 350 employees at eight locations in seven countries work on a multitude of projects to develop software, provide advice for customers, implement systems, and optimise procedures. Our strengths are based to a great extent on the performance, the knowledge, the motivation, and the character of the people who work at IVU.

Our employees have a goal-oriented approach. They are available to discuss individual solutions with our customers all over the world. Direct contacts are essential in order to explain complex systems, discuss requirements, and understand needs. And consulting with our customers in their own setting is a key factor for us when we begin working on the development of a new project.

With its information logistics solution IVU.elect, IVU supports reporting officers and electoral authorities with all aspects of organising and conducting elections – from the organisation of electoral districts and polling stations through the recruitment of poll workers and the validation of candidates to the registration of returns, plausibility checks, and the publication of results via the internet and on paper. All products in the fields of elections, transport logistics, and mobility are based on open standards and can be integrated in a wide range of system environments.

“With IVU.elect we have developed an e-government solution which can be used for every type of ballot and election and which rapidly arrives at precise results. Whether the elections are for the European Parliament, for national parliaments, or for regional and local authorities – with IVU.elect we are able to process them rapidly, in compliance with legal requirements and above all transparently.”

Martin Müller-Elschner
CEO, IVU Traffic Technologies AG
OVERVIEW
IVU.ELECT

ORGANISATION AND PLANNING

SETUP
- Election definition
- Electoral regulation
- Dates and deadlines
- Electoral districts and hierarchy
- Voting channels

ORGANISATION
- Polling districts
- Polling stations and facility management
- Equipment and furnishing
- Monitoring and reporting

PLANNING
- Poll worker management
- Poll worker training
- Poll worker scheduling
- Poll worker payments

VOTERS AND CANDIDATES

VOTERS
- Electoral registration
- Electoral roll
- Voting cards
- Voter invitations
- Postal voting support

PARTIES AND CANDIDATES
- Registration process
- Verification regarding electoral law
- Preparation of minutes
- Ballot design

RETURNS AND RESULTS

RESULTS
- Tabulation/Consolidation
- Verification and plausibility checks
- Computer prediction
- Seat allocation
- Reporting
- Documentation
- Supervision and progress monitoring
- Electronic data exchange

PUBLICATION
- Print
- Internet
- Mobile devices
- Live presentations
- Interactive presentation of results