

BTCS

- A Pioneering Central System for Tolling

BTCS

A new era central system for the tolling industry. Based on 60 years' experience in the toll system sector.

Designed to last. Equipped to handle the requirements of today and the future.

Cost effective and profitable. Tailored for traffic management and future environmental requirements.

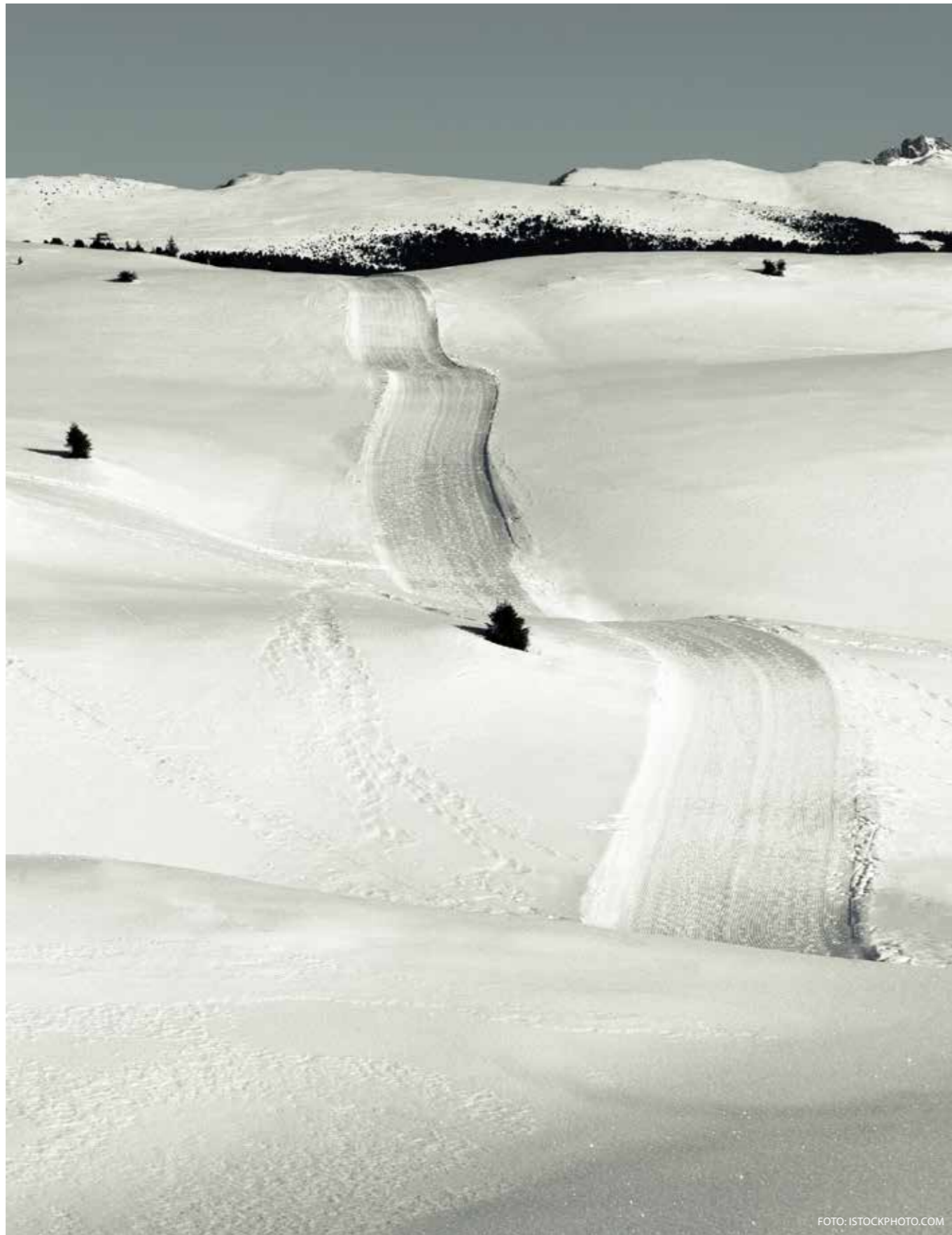


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SCANDINAVIAN QUALITY

**BTCS – 60 years' experience in the tolling industry
incorporated into a central system.**

In Norway, toll charges have been used to fund infrastructure projects longer than in any other country. Since the 1930's, over 100 road-projects have been financed by road-users. Over 50 toll road projects are currently in operation nationwide, and over 50% of the country's annual road investments are funded through tolling.

As the main operator in this sector, B&T has been part of this market since 1953. Over the years we have acquired a level of experience not easily matched. This specialist knowledge has been used to develop a user-friendly central system, with optimum income level and cost-effectiveness as the primary objectives. Our new central system – BTCS – is of Scandinavian quality, and is based on Scandinavian concepts and ideas. The system features state of the art technologies. The design of BTCS is based on our extensive operational expertise and experience in every aspect of the value chain for tolling.

BTCS is a cost-effective, scalable, secure and modular solution for automatic registration of traffic for purposes such as toll charges, ferry and parking fees, congestion and rush-hour charges and other access authorisation systems in the transport sector. Furthermore, the central system is a tool for improved traffic regulation and control in city/town centres, automated traffic monitoring, detection and notifications of errors and non-conformances.



EXPERIENCES SYSTEMIZED

Designed to last.

B&T has developed and managed central systems since 1998, and our system solutions for tolling are among the preferred choices. Over the years, the system has been used for 20 tolling projects of various types and sizes.

B&T started working on a prototype for a fully automated tolling solution as early as in 1999. In 2004, this technology was ready for a full roll-out. The very same year, B&T provided the central system for the world's first fully automated urban toll ring around Bergen, Norway..

B&T's central system solutions are subject to continuous improvement in line with technological development and operational experience. Our new generation BTCS is a module-based system which complies with today's requirements. It handles existing challenges and is designed to last and be developed along with technological innovations. In short, BTCS is designed to handle changes in tolling technology and framework conditions over time.

SOLUTION FOR THE FUTURE

Covers a lot more than just toll charges.

How will tolling work in the future? In a world with an increasingly complex infrastructure, any future solutions will of course focus on technology, technology platforms and more effective charging methods.

The mega-trends in the tolling industry are increased use of satellite systems (GNSS technology) and interoperable solutions. This includes integration of various charging areas such as toll charges, environmental charges, parking and ferry fees and international standards. All these requirements have already been met by BTCS.

BTCS has been developed and dimensioned for the future. It is versatile and scalable, and due to its modular structure it can easily be adapted and further developed. The modular-based solution allows for easy, safe and cost-effective add-ons and maintenance. BTCS can be provided as a traditional "on-site" solution or as a "software as a service" (SaaS).

ONE-STOP TECHNOLOGY SUPPLIER

B&T is a one-stop supplier of technology, and offers unique expertise in every aspect of the value chain for tolling.

- Established in 1953
- Pioneer and market leader
- Driving force in the introduction of automated tolling systems
- Norway's most experienced management team and key personnel
- Key player in the development of central system solutions in other countries
- Offices in Norway, Sweden and Denmark
- Excellent financial position (Dun & Bradstreet AAA rating)
- Unique expertise in Electronic fee collection (EFC) solutions
- EFC systems, consulting, analyses, operation, customer handling, finance



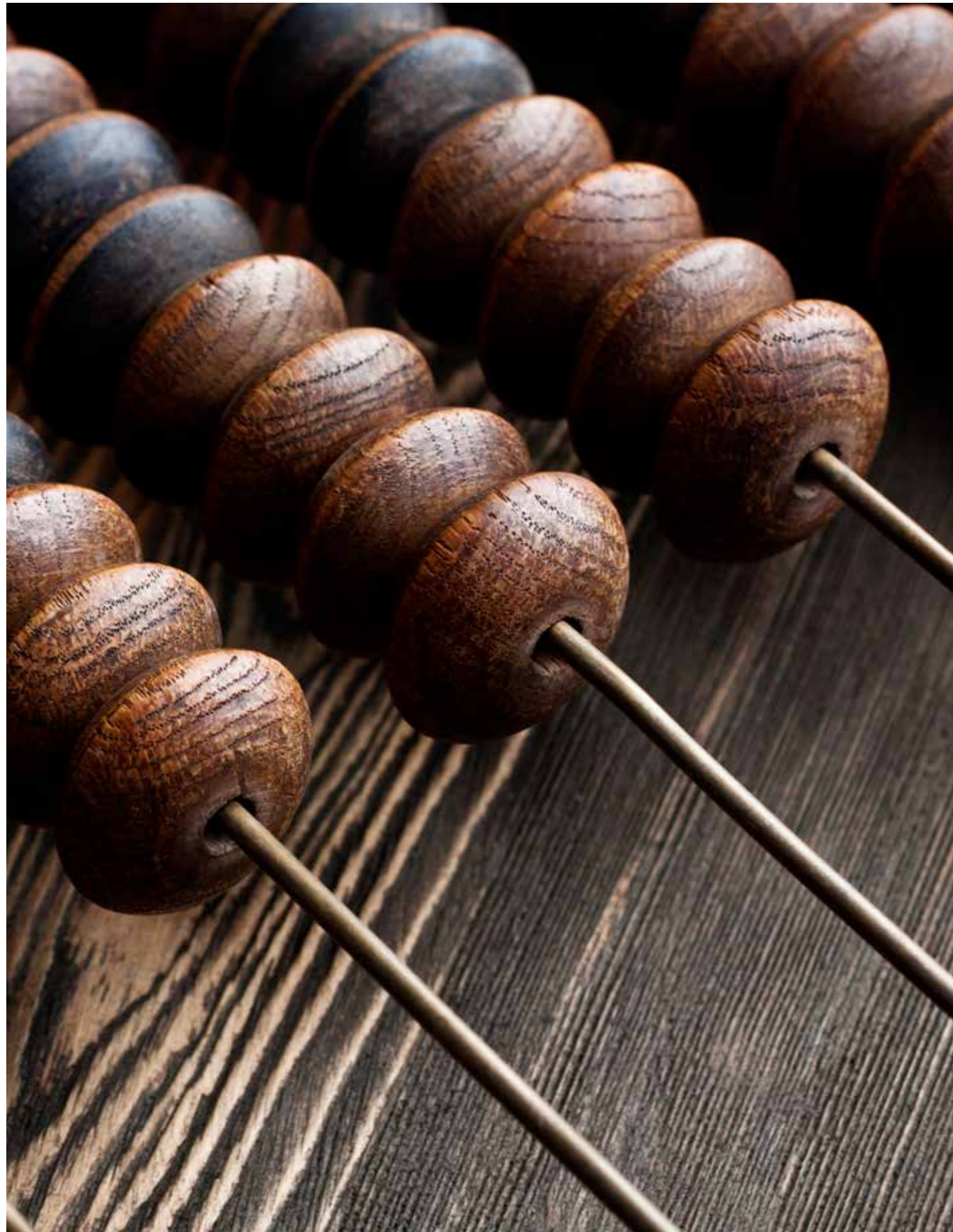
EFC- STANDARDS

Designed to handle
the requirements of today
and the future.

BTCS is based on the very best tolling procedures, and is designed in line with all relevant electronic collection standards (ISO and EFC – Electronic Fee Collection) as well as for future standardisation.

The core of the EFC standards is the link between the road-user's registration equipment and the operator's roadside equipment, and also the processing of information flow between the various operators. These standards covers OBU (On Board Unit) technology, mobile technology and satellite navigation technology.

All these standards are met by BTCS. This provides confidence for our customers and guarantees compliance with transnational interoperability requirements.



THE IMPORTANT FINANCIAL ASPECT

We are convinced that BTCS is the most profitable and cost-effective system available in the market.

Central systems for tolling are complex. Without expertise and optimum system design, endless errors may occur and lead to a significant loss of income for the operator. On top, this will result in a great deal of manual, costly and corrective work. With our 60 years' experience as an operator of toll-road projects and central systems, we have come across and solved enough problems to claim that few, if any, systems represent a more reliable and safe choice than BTCS.

We have used our specialist knowledge to develop automated processes and control functions in BTCS. As a result, B&T can offer the most cost-effective central system in the world – even as a company based in the high-cost country Norway.

BTCS provides a high level of automation, and is tailored to channel information to the correct destination. All non-conformances are registered, and incidents requiring manual processing can be captured and dealt with automatically in BTCS. Furthermore, the system can adapt to operational variations and changes in framework conditions and requirements. This will reduce costly unavailability and downtime, and keep the operating expenses to a minimum.



THE ENVIRONMENT IN FOCUS

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An intelligent traffic management tool.

Focus on the environment and traffic management systems will increase in the future. Reduction of polluting emissions will be valued as more important, and the requirements will become more stringent. Essential tools in order to meet these requirements will be systems that are able to measure traffic load, the emission level from each individual vehicle and provide traffic management through various types of differentiated price mechanisms.

BTCS is that tool.

Technical information

Charging Point Equipment

BTCS supports both traditional tolling technologies and disruptive tolling technologies, such as mobile solutions and satellite navigation systems.

BTCS Transaction Hub (BTCS TH)

BTCS TH integrates transactions from various Charging Point Equipment suppliers. The information is received and validated according to the minimum dataset requirements. The valid data are converted to a generic BTCS format and then sent to the BTCS OBO component for further processing.

BTCS Operational Back Office (BTCS OBO)

BTCS OBO identifies, classifies and validates transactions. Following extensive research and development in the field of automatic image recognition, BTCS can offer the best recognition levels in the market. The core of the classification

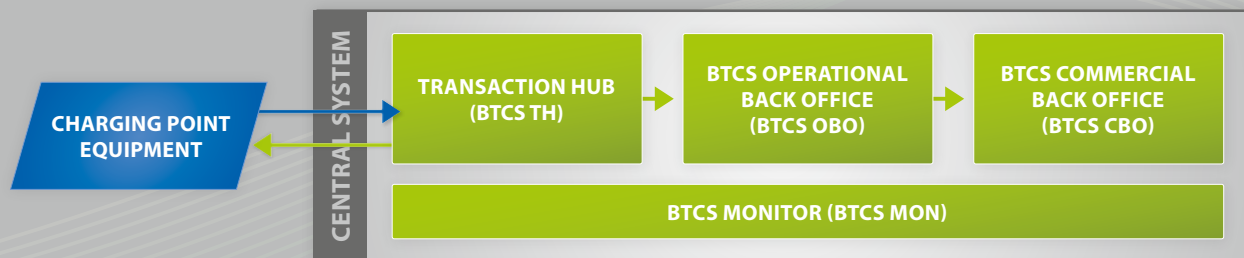
function executes lookups in various internal and external registers in order to add information to the transaction. This may be data such as vehicle manufacturer, model, colour and country code. The main processes in BTCS OBO generates information close to real-time for end-users who can access it via a web interface.

BTCS Commercial Back Office (BTCS CBO)

BTCS CBO is equipped with a commercial rule engine evaluating the final price of the transaction. The main processes in BTCS CBO are invoicing and payment reconciliation.

BTCS Monitoring (BTCS MON)

BTCS MON includes operational monitoring, business monitoring and Business Intelligence to keep track and state of the transactions throughout the value chain for tolling.



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