



**OPTIMIZED WAY  
TO YOUR SUCCESS**

INTEGRATED IT SYSTEMS

**KORSOL**

# ABOUT US

KORSOL specializes in delivering wide variety of IT services. Our offer is not a closed, finite unit as we attempt to meet our clients' needs whose comfort and growth we prioritize. Developing effective IT solutions accompanied by constant drive to find new, creative improvements is something that we definitely excel at. Our knowledge of common organizational difficulties that companies come across stems from cooperation with many businesses in need. We compose our solutions basing upon Ready\_TM platform - the successor of a well-known, respected and popular information flow

system: eDokumenty. This innovative tool enables companies to exchange data quickly and conveniently. We also make sure that every solution we implement in your company is compatible with IT systems already functioning in its environment. What is more, Ready\_TM enables us integrate different IT systems that have been introduced earlier in the company which improves management and internal communication. In addition, we offer authorial, dedicated modules based on Ready\_TM platform that may be selected individually, instead of buying the whole package.

## KORSOL SOLUTIONS

**Our job is to transform verbal communication inside the company into virtual stream of data possible to be saved in the system. As a consequence, full transparency is enabled which in turn leads to enhancement of staff effectiveness. KORSOL also provides quick and thorough access to information about all workstreams of the company. Accumulation of data and producing documentation become easier through our management panels together with document automation software for reports and comparisons. The following modules are only samples of our abilities. Feel free to share your difficulties with us and see how creative we can be!**



### Traceability

Traceability in production process



### Task assignment

Innovative solution for power plants



### Returnable packaging monitor

Surveillance over returnable packaging management



### Photographic documentation

Documentation with visual attachments



### Electronic pass

Efficient staff register on company premises



### Teamwork coordination

Data exchange board



### Invoice circulation

Facilitated transaction management



### Business travel

Business trips control



### Leave of absence

Applying and responding faster than ever



### Correspondence circulation

No more lost documents



### Purchase application

Processing and execution in no time



### Gatehouse

Full control over entries and exits



### CIA - Club of Informed Associates

Club of informed associates



### Carbonline - Buyer

Coal reserves monitor



### Carbonline - Supplier

Coal reserves monitor



### Benchmark - Efficiency Monitor

Efficiency measurement in CoreLand



### Convenience and easy access to information

Marcin Mularski, co-owner of „Mularski Group”

*Through implementation of KORSOL solutions I gained easy access to all data concerning my enterprise. I do not have to know how IT systems work to be in full control. I just need to log into my "Centre of Enterprise Operations". New solutions have provided me and my workers much convenience at work, of which I am extremely glad.*

## INDIVIDUALLY TAILORED SOLUTIONS

Each customer, each company has a unique story, individual management style as well as different problems and needs. Our main focus is to create individually tailored solutions. KORSOL specialists investigate the sources of complications in companies and create methods suitable for the working environment.

## WHAT IS HOLDING YOU BACK

Companies asking for our assistance usually consist of many departments. In each of them a great number of different IT systems are employed and such variety may cause many coordination difficulties. Various data bases, different operational systems, separate IT service providers. It is natural for the departments to use diversity of systems since they cover some distinct tasks (client service, human resources, purchase orders, production, storage, accounting, etc.). Building one, consistent system for all the divisions, as much as it is sought for, would most likely prove very expensive and time-consuming. In addition, such a solution would become too difficult to use and consequently lose its originally intended purpose: simplification and rationalization of work. At that stage most entrepreneurs cease to seek for new IT solutions as they fear (falsely) that changes might prove too expensive and invasive.

## WHAT WE CAN DO FOR YOU

KORSOL deals with integration of systems already existing within the companies, without the need to implement any drastic changes on the employee level. As a consequence, the whole process does not interfere with the performance of different divisions. Due to integration we are able to create one, coherent, effective and safe IT environment at short notice. Our tool based on Ready\_TM platform allows exchanging information freely between different data bases, collecting data from all company's domain systems as well as generating reports and profiles. This means measurable profits for the company: better communication results in performance optimization which in turn lead to more efficient work. In addition, the platform with all modules

## HOW WE WORK OUT YOUR PROFIT



## WHAT IS YOUR PROFIT

### Employer - full control

- + Tools which help you collect all information about current company performance easily
- + You and your executive cadre are able to make decisions efficiently due to keen insight to all departments' performance
- + Easy access to all reports created by us according to your guidelines. All necessary data from lots of domain systems in one place
- + Nothing important happens unnoticed

### Employee - convenient tools

- + Employees perform their tasks using systems they are accustomed to
- + Their work is not disturbed by any system change and the need to master new software
- + They gain new tools enhancing their work through elimination of time-consuming procedures – check modules in our offer!



# TRACEABILITY

## TRACEABILITY IN PRODUCTION PROCESS

### EXISTING STATE

- ✘ Production process has many stages; various components from different suppliers are part of it
- ✘ Company lacks identification system „traceability” – the ability to track products at every stage of production
- ✘ Manufacturer is not able to identify the origins of each component used during production process
- ✘ Production process of only huge tranches is possible to be tracked
- ✘ Documentation is often drawn up in paper which hinders product history reconstruction
- ✘ Inspections performed by supervisory organs usually last from several days to several weeks; it is very often impossible to retrieve necessary data
- ✘ Insufficient control of product, transport and component quality
- ✘ Supplier who does not monitor all tranches of merchandise is untrustworthy from trading partners and big sales networks' point of view

### IMPLEMENTATION

Our experts will help you:

- + Apply techniques and technologies of product labelling tailored to particular customers (i.a. QR codes)
- + Implement data crucial for production in the code
- + Facilitate encoding data and attributes of products that are important for customers
- + Increase product traceability



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### BENEFITS

- ✓ Quick search of information about small tranches of merchandise and single products
- ✓ Possible detailed reconstruction of merchandise production history
- ✓ Effective production planning for small tranches of merchandise
- ✓ All trading partners and employees responsible for production are possible to identify
- ✓ Inspections performed by supervisory organs shortened to less than an hour
- ✓ Ability to find faulty product quickly and withdraw it for repair
- ✓ Minimization of potential fines issued by supervisory organs
- ✓ Several faulty units do not cause big merchandise tranches withdrawals
- ✓ Full control over supply, transport and component quality which results in final product quality upgrade
- ✓ Detailed and remote supervision over production – regardless of place and time
- ✓ Increase of manufacturer's credibility from trading partners' standpoint



# TASK ASSIGNMENT

## INNOVATIVE SOLUTION FOR POWER PLANTS

### EXISTING STATE

- ✘ Task assignment (TA) is issued in paper form
- ✘ TA is filled in two copies
- ✘ Then it is registered in paper logbook
- ✘ Each department has a separate TA logbook
- ✘ TA forms are handed for consultation to employees who organize and supervise work of renovation crews
- ✘ External renovation crews have to wait 2-3 hours to enter the facility



### IMPLEMENTATION

Our experts will help you:

- + Implement electronic version of Task Assignment
- + Create common, consistent TA register effective in the whole facility
- + Provide entitled users with system logins and passwords
- + Create transparent interface
- + Implement automatic check of text fields in the TA form
- + Make sure TA forms are possible to be printed to identify external workers
- + Develop comparison module to report TA data in different configurations



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### BENEFITS

- ✓ Common TA register for all departments
- ✓ Consistent TA numbering in the whole facility
- ✓ No more need to run paper TA logbooks
- ✓ Time of TA form issuing reduced to 10-30min./piece
- ✓ No more errors in TA numbering
- ✓ No more lost TA documents
- ✓ Full control over renovation crews on the facility premises
- ✓ Control over employees entering and exiting the company
- ✓ Full control over issued TA documents
- ✓ Full control over TA statuses
- ✓ Waiting time for TA form issuing reduced by up to 3 hours
- ✓ Flow of renovation crews through gateway improved by up to 95%



# RETURNABLE PACKAGING MONITOR

## RETURNABLE PACKAGING MANAGEMENT

### EXISTING STATE

- ✘ Interlink between returnable packaging and production orders is impossible
- ✘ Returnable packaging damage rate is relatively high
- ✘ The place where returnable package damage took place is hard to trace back
- ✘ Time-consuming process of returnable package protocol drawing
- ✘ High costs due to returnable packaging damage

### IMPLEMENTATION

Our experts will help you:

- + Mark returnable packages with individual QR codes
- + Create dedicated mobile app for marking damaged packages in the system
- + Provide compatibility of the new system with ERP software already used in the company
- + Create mechanisms enabling generation of automatic protocols for damaged returnable packaging
- + Develop workflow procedure to control damage protocol circulation



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### BENEFITS

- ✓ The place of returnable packaging damage (producer, transportation, receiver) is now possible to detect
- ✓ Preparing protocols for customers with lists of damaged packaging has been reduced from 7-8h to 30-45min daily
- ✓ Cost due to returnable packaging damage has been reduced (possible redistribution of costs to particular receivers)
- ✓ Generating wide range of comparisons and reports became possible
- ✓ Simple export of comparisons to Excel spreadsheet



# PHOTOGRAPHIC DOCUMENTATION

## VISUAL ATTACHMENTS TO DOCUMENTATION

### EXISTING STATE

- ✘ Employee takes a photo with their phone, types photo ID number
- ✘ To attach the photo to paper documentation, one must print it first
- ✘ To attach the photo to electronic documentation, one must upload it to the system
- ✘ Employee heads to a terminal
- ✘ Employee uploads photos to computer disc
- ✘ Employee finds requested production order or merchandise
- ✘ Employee searches for the photo using its number and attaches it to the documentation
- ✘ Time of one photo upload: 5-10 minutes
- ✘ The whole process from taking the picture to its attachment takes several hours

### IMPLEMENTATION

Our experts will help you:

- + Introduce marking of individual products and orders
- + Develop a dedicated mobile application to take photos and upload them to the system
- + Enable the application (basing on QR code) to automatically mark the photo with an ID number compliant with the process the photo is connected with
- + Integrate the system of photo upload with product and order registering system already existing in the company
- + Develop mechanisms generating documents regarding products or orders



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### BENEFITS

- ✓ To assign a photo to a case, one does not have to head to a terminal or type the product ID number by hand
- ✓ Employees may devote most of their working shift to production activities
- ✓ The efficiency of employees has increased
- ✓ The time of photographic documentation drawing up reduced by 70%
- ✓ The risk of photo file loss reduced to zero
- ✓ Higher control over quality and product condition as well as order realization statuses
- ✓ Time of uploading and assigning a photo to a case reduced to less than 20 seconds



# ELECTRONIC PASS

## EFFICIENT STAFF REGISTER ON COMPANY PREMISES

### EXISTING STATE

- ✘ Company uses an electronic monitoring of employee entries and exits
- ✘ Employee leaving the facility must obtain supervisor's permission (pass)
- ✘ Paper pass document is issued basing on supervisor's permission
- ✘ Employee entries and exits are registered in a paper logbook

### IMPLEMENTATION

Our experts will help you:

- + Develop an electronic logbook of employee entries and exits
- + Develop an electronic form of employee pass document
- + Categorize electronic pass documents depending on the purpose of exit
- + Develop workflow procedure controlling the electronic pass circulation.
- + Implement electrical application for a pass
- + Implement online decisions concerning issuing passes
- + Implement a consistent register and numbering for employee passes in the whole facility
- + Integrate the system of employee passes with the accounting system already existent in the company in order to exchange data
- + Create a comparison module to report electronic passes in different configurations



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### BENEFITS

- ✓ Collective register of employees entering and exiting the company's facility
- ✓ Paper employee entry and exit logbook has been eliminated
- ✓ Quick access to endorsement history of employee passes
- ✓ Full control over the employees entering and exiting the facility
- ✓ Quick access to employee working time register
- ✓ Generating wide range of comparisons and reports became possible
- ✓ Simple export of comparisons to Excel spreadsheet





# TEAMWORK COORDINATION

## DATA EXCHANGE BOARD

### EXISTING STATE

- ✘ Data concerning changes of parameters circulate via email
- ✘ Orders are given to maintenance engineers via email or phone
- ✘ Changes in device parametrization are not coordinated
- ✘ Device and installations performance is analyzed during special meetings
- ✘ Parameter change history reconstruction is difficult and time-consuming

### IMPLEMENTATION

Our experts will help you:

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### BENEFITS

- ✓ Coordination of teams
- ✓ All employees are informed about online working schedule simultaneously
- ✓ Reduced time of parameter changing; data appear immediately online in DEB
- ✓ Increased effectiveness of devices and employee performance
- ✓ Team leader constantly supervises online all needed parameter changes and team performance
- ✓ Reduced device failure frequency
- ✓ Generating wide range of comparisons and reports became possible
- ✓ Simple export of comparisons to Excel spreadsheet



# INVOICE CIRCULATION

## FACILITATES TRANSACTION MANAGEMENT

### EXISTING STATE

- ✘ Invoices are delivered to the company through different channels
- ✘ The invoice is delivered in paper or electronic version
- ✘ The invoice is registered and substantively described on the back or on a separate piece of paper by a person responsible for the purchase
- ✘ The invoice document must be delivered to every division that is involved in the purchase.
- ✘ Possibility of loss or damage to the document

### IMPLEMENTATION

Our experts will help you:

- + Create one place of invoice delivery in the company
- + Develop workflow procedure controlling the invoice circulation
- + Develop a new procedure in which:
  - paper version of invoice is scanned and uploaded to the system
  - electronic version of invoice is uploaded to the system
  - original version of invoice is directly delivered to accounting division
- + Create electronic invoice logbook

- ✘ Finally the invoice is handed to units responsible and waits for acceptance
- ✘ The invoice together with descriptions is delivered to accounting and financial division
- ✘ Time of invoice circulation from delivery to payment: up to 30 days
- ✘ Risk of overdue invoice payment

- + Make the remote substantive control of invoices and electronic description possible
- + Create a commenting option for the invoices
- + Develop invoice control and acceptance system for supervisors
- + Provide users with system logins and passwords to access invoices according to occupation and responsibilities in the company
- + Integrate the module with the financial system already existing in the company to synchronize logbooks and export invoice endorsement automatically
- + Adjust the electronic invoice circulation system to existing organizational structure of the company
- + Develop the invoice comparison module to manage finances easily on different organizational levels



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### BENEFITS

- ✓ Reduced possibility of invoice loss or damage
- ✓ Access to invoice documents for all entitled employees immediately after register in invoice logbook
- ✓ Easy invoice document search regardless of register date
- ✓ Possibility of invoice description made by several employees, independently and simultaneously
- ✓ Easy budget planning and execution
- ✓ Frauds and swindles inhibited
- ✓ Easy access to invoice endorsement history
- ✓ Constant invoice document monitoring with all its descriptions and payments
- ✓ Invoice description made by an employee is not repeated by the accounting department
- ✓ Generating wide range of comparisons and reports became possible
- ✓ Invoice document circulation in the companies reduced to 3 hours



# CONTRACT REGISTER

## LONG-TERM CONTRACTS - COST PROCESSING

### EXISTING STATE

- ✘ Long-term agreements (contracts) are handled in the company
- ✘ Multiple invoices for contract realization reach the company
- ✘ Contract realization monitoring is performed without information about company expenditures
- ✘ The contract is processed manually basing on information derived from the accounting department

### IMPLEMENTATION

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### BENEFITS

- ✓ Processing contracts manually is no longer necessary
- ✓ Realization status of contracts is remotely accessible
- ✓ Easy budget planning and execution
- ✓ No place for frauds and swindles
- ✓ Easier processing of long-term contracts with multiple invoices
- ✓ Processing contracts by many departments is no longer necessary
- ✓ Full control over proper contract realization in one comparison spreadsheet



# CAR FLEET SETTLEMENT - 2019 TAX SETTLING COLLECTIVE FUEL INVOICES

## EXISTING STATE

- \* Collective invoices including up to several dozen numbers are delivered to the company
- \* Each number in the collective invoice is itemized according to the prevailing rules. Estimated time of the activity: about a week.
- \* If company's car fleet is used both in business and private purposes the processing procedure becomes even more complicated
- \* Accounting and finance department workers type collective invoice data by hand to the ERP system.
- \* Time-consuming processing of each number in the invoice: separately net value, VAT, tax-related expenses and other
- \* Only after doing that it is possible to process the costs according to the prevailing law
- \* Total time of operation: about a week

## IMPLEMENTATION

Our experts will help you:

- + Make sure car fleet files are prepared for each vehicle used by company
- + Implement the following procedure:
  - Information about vehicle is typed into the files
  - A worker types data from a collective invoice into the system using a ready template
  - Uploaded data is assigned to particular accounts and files basing on the vehicle registration number (or card)
  - One click results in automatic calculation of net value, VAT, tax-related expenses and other
  - Accounting department is only responsible for monitoring invoice data paired with files
- + Develop workflow procedure controlling the invoice circulation.
- + Develop a comparison module to manage finances easily on different organizational levels



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## BENEFITS

- ✓ Meeting the latest tax regulations made easy in terms of fuel costs processing
- ✓ Fast collective fuel invoice itemization. Complicated processing made easy
- ✓ The accounting department does not have to calculate net value, VAT, tax-related costs and other costs on collective invoices.
- ✓ Easy access and searching for information about fuel wear of car fleet and costs resulting from it
- ✓ Invoice itemization performed by an employee is not repeated by the accounting department
- ✓ Constant invoice document monitoring
- ✓ Generating wide range of comparisons and reports is possible
- ✓ The whole process of collective invoice itemization reduced to around 3 hours



# BUSINESS TRAVEL

## CONTROL OVER BUSINESS TRAVEL PROCESSING

### EXISTING STATE

- ✘ Business travel document (for both inland and foreign travels) is filled in paper form
- ✘ Employee must obtain supervisor's acceptance
- ✘ Employee must apply separately for a company car and an advance to cover travel expenses
- ✘ Business travel costs processing is performed in paper form
- ✘ Business travel report is a separate document
- ✘ Only after obtaining all signatures and approvals on the document, the costs may be reimbursed
- ✘ Time of business travel planning: 1 day
- ✘ Time of business travel processing: up to several days

### IMPLEMENTATION

Our experts will help you:

- + Implement an electronic form "Business Travel" (BT)
- + Implement workflow procedure to navigate BT circulation
- + Grant BT statuses depending on the stage of the procedure
- + Create consistent register and numbering of BT for the whole company
- + Create a comparison module reporting business travel data
- + Make sure the system suggests basic data during form completion
- + Make sure the system automatically asks about transport, accommodation and advance money
- + Enable the attachment of invoice scans to BT
- + Enable report compilation in BT module
- + Provide compatibility of the document circulation system with payroll software already used in the company in order to exchange information fluently



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### BENEFITS

- ✓ Business Travel attachments are stored in electronic form
- ✓ Every entitled user has access to BT
- ✓ Consistent numbering of BT forms
- ✓ Wide range of comparisons and reports may be generated
- ✓ Cost description done by an employee does not have to be repeated by the accounting department
- ✓ Quick access to business travel endorsement history
- ✓ Simple export of comparisons to Excel spreadsheet
- ✓ Risk of paper document loss or damage reduced to zero
- ✓ Employees have full access to BT data; they do not have to worry about processing
- ✓ Time of business travel planning and acceptance: up to several hours
- ✓ Time of business travel processing: up to several hours



# LEAVE OF ABSENCE

## APPLYING AND RESPONDING FASTER THAN EVER



### EXISTING STATE

- ✘ Leave of absence application (leave certificate) circulates in paper form
- ✘ Employee fills in a paper application, hands it to the supervisor's acceptance and proceeds to HR division where the document is verified and the absence noted
- ✘ HR employees check their leave entitlement in the payroll service system
- ✘ After verification the leave is granted or denied
- ✘ Employee must contact the HR department for information about leave entitlement and application status
- ✘ Time of application circulation: up to several days

### IMPLEMENTATION

Our experts will help you:

- + Develop electronic absence application form (AAF)
- + Develop workflow procedure controlling the absence application circulation
- + Implement absence application (AAF) statuses:
  - NEW** – issuing application
  - TO ACCEPT** – sending application for acceptance
  - ACCEPTED** – accepting the application

**DENIED** – no acceptance of the supervisor

**CANCELLED** – application annulment

- + Provide users with system logins and passwords
- + Provide compatibility of the document circulation system with payroll software already used in the company to exchange information fluently
- + Make sure each AAF status change results in sending new information to entitled divisions of the company
- + Implement automatic check of issued AAF
- + Create comparison module reporting AAF, number of days used by workers, etc.



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### BENEFITS

- ✓ Risk of paper form loss reduced to zero.
- ✓ AAF circulation time in companies reduced to 3 hours
- ✓ Access to AAF information at every procedural stage
- ✓ AAF decisions possible to be made outside the company premises
- ✓ Effective management of workers' leave schedule
- ✓ Department work arrangement and HR management made easier
- ✓ Full or simplified handling history accessible directly in the AAF document
- ✓ Employee has full access to leave of absence information
- ✓ No need to manually fill the absence document in the payroll system
- ✓ AAF comparison and information may be generated as consolidated or individual charts for HR division as well as for supervisors
- ✓ Simple export of comparisons to Excel spreadsheet



# CORRESPONDENCE CIRCULATION NO MORE LOST DOCUMENTS

## EXISTING STATE

- ✘ Correspondence is delivered to the company through different channels
- ✘ It is registered in paper correspondence logbook
- ✘ Each type of correspondence is passed to company management and spread from there into entitled departments
- ✘ Letters of lower importance are sent via email
- ✘ Outgoing correspondence is drawn up in a several paper copies
- ✘ Outgoing correspondence must be accepted and signed by supervisors on different organizational levels
- ✘ After acceptance the outgoing document is registered in paper correspondence logbook
- ✘ Only after registering the document is sent to recipients

## IMPLEMENTATION

Our experts will help you:

- + Create an electronic correspondence logbook
- + Implement a consistent register and numbering of correspondence
- + Create the possibility of registering ingoing documents in several locations, however, with retained consistent numbering in electronic logbook
- + Make sure the ingoing document is scanned and uploaded to the system
- + Perform the document endorsement electronically
- + Give orders online through comments under the document
- + Create and send outgoing correspondence electronically
- + Create electronic system of document acceptance on different organizational levels
- + Grant correspondence statuses depending on realization stage
- + Provide users with system logins and passwords to access correspondence according to occupation and responsibilities in the company
- + Integrate the electronic correspondence circulation with the existing organizational structure of the company
- + Develop register/comparison module to report information about correspondence with contractors



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## BENEFITS

- ✓ Reduced chance of document loss or damage
- ✓ Paper correspondence logbook has been eliminated
- ✓ Reduced chance of doubled correspondence numbering
- ✓ Access to documents for all entitled employees immediately after endorsement
- ✓ Different departments may work on different tasks regarding correspondence simultaneously
- ✓ All entitled employees may post comments to the document independently
- ✓ Fast and easy search of documents
- ✓ Possible discussion about correspondence contents online
- ✓ Entitled employees always have access to correspondence even outside the company
- ✓ Entitled employees may manage correspondence online even outside the company



# PURCHASE APPLICATION PROCESSING AND EXECUTION IN NO TIME

## EXISTING STATE

- ✘ Purchase application circulates in standard paper form
- ✘ Employees must gain supervisors' acceptance
- ✘ Every type of purchase is handed to supervisors to be accepted
- ✘ Purchase application proceeds to purchase department to be executed
- ✘ HR employees check the leave entitlement in the payroll service system
- ✘ After verification the leave is granted or denied
- ✘ Employees must contact the HR division for information about application status
- ✘ Time of application circulation: up to several days

## IMPLEMENTATION

Our experts will help you:

- + Develop electronic purchase application form (PAF)
- + Develop workflow procedure controlling the circulation of purchase application
- + Develop purchase application (PAF) status according to stage of procedure
- + Introduce a consistent register and numbering of purchase applications for the whole company
- + Make sure each PAF status change results in sending new information to entitled company departments
- + Provide users with system logins and passwords to access purchase applications according to position
- + Create a comparison module of PAF in different configuration
- + Create an electronic system of PAF acceptance and consultation on different organizational levels



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## BENEFITS

- ✓ Acceptance of the application is provided online
- ✓ Each entitled employee has full access to purchase application
- ✓ Consistent purchase application numbering in the company
- ✓ Creating comparisons of PAF in different configuration became possible
- ✓ PAF circulation in the companies reduced to 3 hours
- ✓ Generating wide range of comparisons and reports became possible
- ✓ Simple export of comparisons to Excel spreadsheet





# ELECTRONIC GATEHOUSE

## FULL CONTROL OF COMPANY'S GUESTS

### EXISTING STATE

- \* A single-use pass to company's facility is issued in paper form
- \* Guests are registered in paper logbook of guests
- \* Sentinel rewrites manually data from guest's ID into the logbook
- \* Guest is given a paper single-use pass or RFID card.
- \* Employee is informed by phone about the guest's arrival
- \* Total time of operation: 15-30 min.

### IMPLEMENTATION

Our experts will help you:

- + Develop electronic logbook of guests - electronic pass
- + Create tools to update ID data of the guest into electronic system
- + Implement the following procedure:
  - Guest is given a Guest Card (compliant with RODO, GDPR) with an e-generated record number and optionally an access code to Wi-Fi spot
  - Employee is informed about the visit by electronic means or by phone
- + Create a comparison module to report electronic passes in different configurations



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### BENEFITS

- ✓ Collective register of people entering and exiting the company's facility
- ✓ Eliminated paper guest logbook
- ✓ The time of pass issuing has been reduced to 5 min per person
- ✓ Full control over the guests of the facility
- ✓ Quick access to guest register
- ✓ Generating wide range of comparisons and reports became possible
- ✓ Simple export of comparisons to Excel spread sheet



# CIA – CLUB OF INFORMED ASSOCIATES

## CLUB OF INFORMED ASSOCIATES

### EXISTING STATE

- ✘ Information about changes in production process circulates via email
- ✘ Orders, advice and comments are exchanged via email or phone
- ✘ Production process data analysis is performed during business partners meetings called especially for this reason

- ✘ Time-consuming restoration of variable production parameters history
- ✘ Lack of efficient tool to store and analyse large amount of data
- ✘ No online access to current data
- ✘ Online coordination of business partners' activities is impossible
- ✘ Few opportunities to gather production data
- ✘ Minor experimentation field

### IMPLEMENTATION

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FULL CONTROL



SAFETY AND RELIABILITY



TIME SAVING



CLEAR PROFIT



EFFICIENCY BOOST



SUCCESS GUARANTEED

### BENEFITS

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# CARBONLINE - BUYER

## COAL RESERVES MONITOR

### EXISTING STATE

- ✘ Several stockpiles of coal are placed on the company premises.
- ✘ The owner lacks information about the available reserves of coal.
- ✘ Difficulty in rational planning of further coal deliveries from the supplier.
- ✘ Current coal usage monitoring is impossible.

### IMPLEMENTATION

- + Implement a dedicated CarbOnline module.
- + Arrange the assembly of electronic scales to loading machines.
- + Integrate the scales with CarbOnline module.
- + Collect data from the loading machines' scales as well as from the control scales at the entrance gate.



FULL  
CONTROL



SAFETY  
AND RELIABILITY



TIME  
SAVING



CLEAR  
PROFIT



EFFECIENCY  
BOOST



SUCCESS  
GUARANTEED

### BENEFITS

- ✓ Full control over coal purchase planning.
- ✓ Carbonline module informs the user how much coal is currently stored on the company premises.
- ✓ More efficient logistics.
- ✓ Efficient coal storage on the company premises.
- ✓ Full control over company's coal usage speed.



# CARBONLINE - SUPPLIER

## COAL RESERVES MONITOR

### EXISTING STATE

- ✘ Several stockpiles of coal are placed on the company premises.
- ✘ The owner lacks information about the available reserves of coal.
- ✘ Difficulty in rational planning of further coal supply to the clients.
- ✘ Possible penalties for delayed coal supplies.

### IMPLEMENTATION

- + Implement a dedicated CarbOnline module.
- + Arrange the assembly of electronic scales to loading machines.
- + Integrate the scales with CarbOnline module.
- + Collect data from the loading machines' scales as well as from the control scales at the entrance gate.



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### BENEFITS

- ✓ Full control over coal sell planning.
- ✓ Carbonline module informs the user how much coal is currently stored on the company premises.
- ✓ More efficient logistics.
- ✓ Efficient coal storage on the company premises.
- ✓ Avoiding penalties due to delays in supply.



# BENCHMARK - EFFICIENCY MONITOR EFFICIENCY MEASUREMENT IN CORELAND

## EXISTING STATE

- ✘ No information channel to reliably visualize all anomalies and occurrences on the production line.
- ✘ Production process data accumulation is impossible.
- ✘ Measurement and realization of ordered production quotas is impossible.
- ✘ Actions and efficiency of workers are not recorded.
- ✘ Salaries and bonuses are determined on a set level.
- ✘ Online monitoring of ordered production quotas realization is impossible.
- ✘ Hindered and incomplete information flow between production zone and the executive cadre.
- ✘ Quick identification of the reasons of outages on the production line is impossible.

## IMPLEMENTATION

- + Arrange the assembly of gauges in key points of the production line.
- + Develop 2D visualisation of the production line (scheme).
- + Fill the scheme with visualised online progress of machinery and devices.
- + Fill the scheme with "lights" informing about the working status of the machinery.
- + Develop BENCHMARK module in CoreLand system in order to accumulate, control and report data useful in process management on different organizational levels.
- + Integrate BENCHMARK with the already existing software to synchronize dictionaries and automatic data import.
- + Enable the users of BENCHMARK to generate tables and charts in different configurations.
- + Develop a user-friendly and transparent front end for the executive cadre.
- + Develop an auto-detection module for the system.
- + Visualize the number of products, working devices, norm-compliant devices as well as constantly monitor them.
- + Determine efficiency quotas basing on machinery and staff efficiency.
- + Develop an information panel visualizing the work of devices, possible to be displayed on the working post.



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## BENEFITS

- ✓ Reliable tool to control and analyse device and staff efficiency.
- ✓ Measurement of many parameters in different configurations made possible.
- ✓ Online control of production process made possible as well as quick reaction to any anomalies.
- ✓ Possible comparison of device performance regarding the whole production line.
- ✓ Possible comparison of employee teams performance on different production lines.
- ✓ Results visible on charts may be automatically refreshed.
- ✓ Alerts about any anomalies are sent via email or SMS to operational centres or other decisive points.
- ✓ Possible measurement of staff and machine effectiveness in different periods (every week, day, hour, minute).
- ✓ Effective method of employee motivation through performance bonuses.
- ✓ Employee is able to control the devices' performance as well as their own work effectiveness online.
- ✓ Organizational changes and new solutions are easier to be evaluated.
- ✓ Generating wide range of comparisons and reports became possible.
- ✓ Simple export of comparisons to Excel spreadsheet.
- ✓ Possible monitoring of defined occurrences on the production line as well as the storage of the data.
- ✓ Efficient staff work coordination.
- ✓ Optimisation of production line results in financial advantages for the company.

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