



# CUSTOM SOFTWARE SOLUTIONS

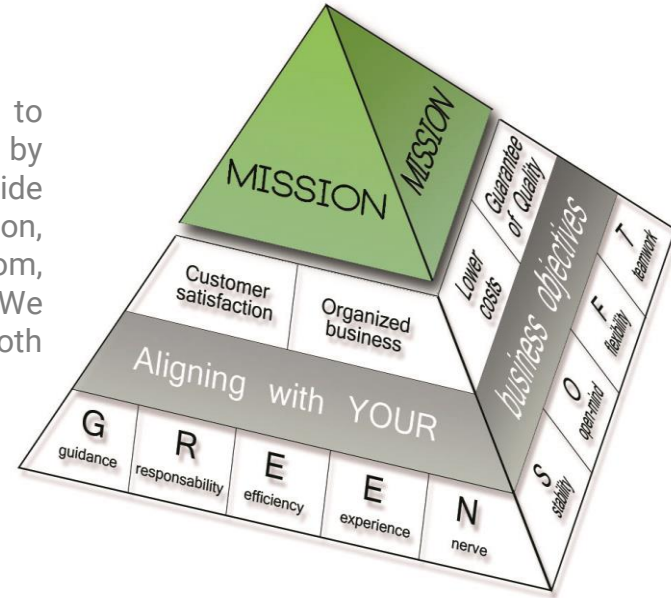
[www.greensoft.com.ro](http://www.greensoft.com.ro)



# Our Vision



➤ Partnership with our customers to reach their business objective by providing tailored solutions in a wide range of domains: public administration, health, financial services, energy, telecom, railway traffic. For more than 15 years, We are committed to support you so we both can win



Optimization is what **GreenSoft** does best!



# Technologies Greensoft works with

## Team:

- More than 50% of our employees have Master or PhD studies.
- More than 30% of employees have at least two senior competences: Java, .NET, Oracle, MS SQL, PostgreSQL, MongoDB, WEB Developer, ESRI GIS, SAP NetWeaver, ABAP, Embedded Software, etc.





# More About Us

## SOFTWARE DEVELOPMENT



### WEB APPS

We have been building custom software solutions to meet the needs of any important industry.



### MOBILE APPS

We have been creating innovative mobile apps that are intuitive and fun to use.

## PARTNERSHIPS

Greensoft is

- ✓ **Oracle** Gold Partner
- ✓ **Microsoft** Silver Partner
- ✓ **ESRI** Silver Partner

## CLIENTS





We have developed solutions for:



Public services &  
Government



Healthcare



Energy



Cadastre



Financial



Railway & Oil



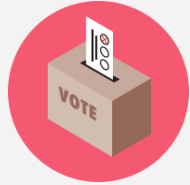
Telecom



Social Media



# Our software solutions



## National elections

- ✓ Software system for data processing and reports required for voting tabulation in the Romanian Parliamentary Elections in 2016  
The Permanent Electoral Authority of Romania
- ✓ SAISE- Automated Information System designed for the State Elections  
The Central Electoral Commission of the Republic of Moldova (under the United Nations Development Program).
- ✓ SRV – Update of the State Register of Voters  
The Central Electoral Commission of the Republic of Moldova (under the United Nations Development Programme).



# Our software solutions



## Government

- ✓ Document Management System (GreenDocs®) - Archiving, Indexing and Data Flow modules

Ministry of Justice, Ministry of Labor, Ministry of Developments, City-Halls, Central Electoral Commission (Rep. Moldova), National Electoral Authority (Romania).

- ✓ Epidemiologic modeling and prevention system

Cross-Border project Romania - Bulgaria

- ✓ GIS (GreenGity®) for Agricultural Land Register

National Land Management Agency

- ✓ Electronic Management System

Regional Office for Cross Border Cooperation Romania – Republic of Moldova



# Our software solutions



## Financial

- ✓ Debts payment system and balance integration

EFG Banc Post & Posta Romana

- ✓ Albania Post energy payment system

CEZ Shpërndarje (Albania)

- ✓ Romanian Energy Company invoice payment system

Electrica SA (Romania)



# Our software solutions



## Healthcare

- ✓ Telemedicine (GreenCardio®) - Distributed software system for monitoring and remote diagnosis of patients with cardiac pathologies
  - Institute of Cardiovascular Diseases, Iasi, Romania
- ✓ GreenPACS® and DataMining for Fetal Pathology
  - National Institute for Maternal and Child Health, Bacau County Hospital, Suceava County Hospital



# Our software solutions



## Energy

- ✓ Network / Grid Access Management (MAR)  
Electrica SA, CEZ Romania, Enel Distribution
- ✓ EMID Incidents and Malfunctions and SAP Portal Netweaver  
Electrica SA
- ✓ eProcurement and ePayment  
CEZ Romania, Electrica SA, CEZ Romania, Enel Distribution
- ✓ Energy balance  
Electrica SA, CEZ Romania, Enel Distribution
- ✓ Energy Forecast  
Private Energy Supplier



# Our software solutions



## Cadaster

✓ GreenCITY®

National Land Management Agency



## Railway & Oil

✓ Refinery Track Intelligent Optimization (RaTIO®)

OMV (Petro Brazi Oil Refinery)

✓ Railway transport management

Unicom Tranzit, Romanian Railway Group



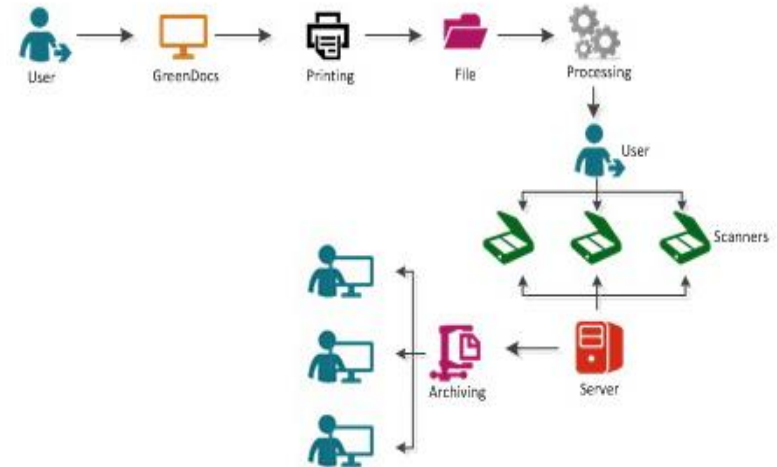
# Public Services and Government







- Document Management Information System is an unified platform that centralizes processes and information, in order to speed up documents workflows, facilitating the access to information, and at the same time, protecting against unauthorized access.





# Benefits of GreenDOCS®



## **Interoperability**

The platform can integrate with other desired software platforms.

## **Browser-friendly**

The app works perfectly on any known browser.

## **Go Mobile**

The platform includes a mobile version in order to be used on any type of smartphone.

## **User-friendly**

The user-friendly interface offer users a pleasant experience.

## **Digital Signature**

The platform can integrate with a digital signature component

## **Lower costs**

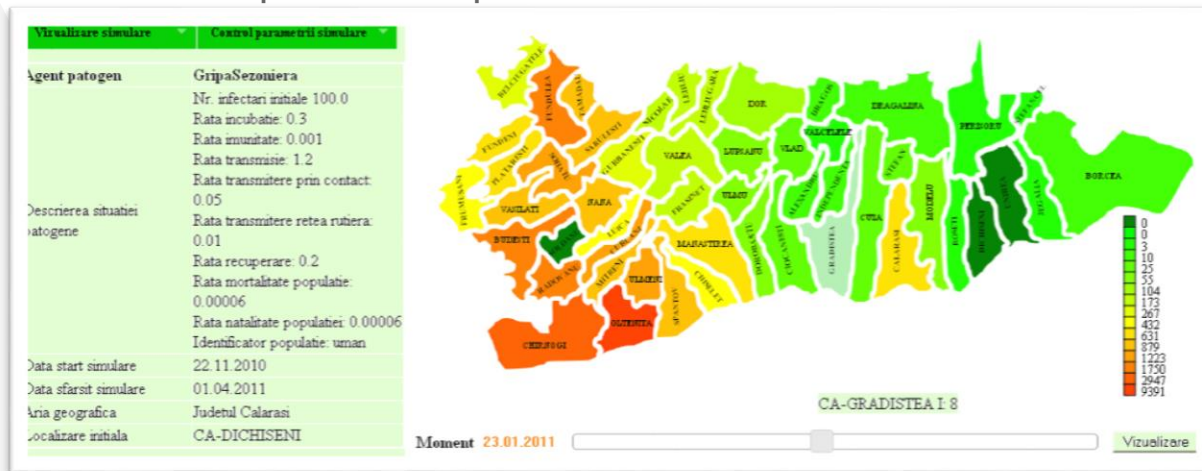
The platform is efficient with minimum hardware requirements.



# Epidemiologic prevention system



- Improves response time if pathogens are detected in the target area, due to modern methods of acquisition, processing and transmission of data and information.
- The project has been implemented in partnership with the Romanian and Bulgarian border authorities to monitor and simulate possible epidemiologic hazard effects and spread if a known contagious disease passes the border from one country to the other.
- Benefits: identify health hazards and the needs of the affected population, in order to plan interventions and to protect and prevent an uncontrolled evolution of infectious diseases.





# GIS & Agricultural Land Register



- The software system provides a comprehensive overview of agricultural lots and livestock.



- The solution has been integrated in tourist and cadastral software systems, now being part of a complete GIS portal.





# Electronic Management System



- Electronic Management System helps reducing the administrative burden and simplifies the process of managing projects/programs of European territorial cooperation.
- The application allows to a beneficiary to register a project, by completing an online form and uploading in the system the documents/annexes of the project application. He can also view, delete, validate and send a project application

## ➤ Modules:

- Registration
- Applications
- Program Administration
- Evaluation
- Contracting
- Project Monitoring
- Debts
- Financial Audit
- Payment Authorizations / Payments
- Irregularities

Project type: Minimum grant: Maximum grant: Implementation time: Minimum co-financing:

Project type	Minimum grant	Maximum grant	Implementation time	Minimum co-financing
Phase 1: administrative period	Start	Stop	Start	Stop
Phase 2: administrative period	Start	Stop	Start	Stop

Financial allocation

Project type	Available budget	Allocated budget
101. Support to education, research, technological development and innovation	1000000.00	1000000.00
102. Promotion of innovation and preservation of historical heritage	1000000.00	1000000.00
103. Improvement of accessibility in the regions, development of transport and communication networks and systems	1000000.00	1000000.00
104. Development of sustainable tourism (tourism and ICT technology)	1000000.00	1000000.00
105. Governance challenges in the field of safety and security	1000000.00	1000000.00
106. Support to the development of health services and access to health	1000000.00	1000000.00
107. Support to the development of the private sector and small and medium enterprises	1000000.00	1000000.00
108. Research and development of high-tech and innovative technologies	1000000.00	1000000.00
<b>Totals</b>	<b>10000000.00</b>	<b>10000000.00</b>

Current call represents 20% from total program budget

Evaluation phase parameters

Technical evaluation grid (Step 1)

Criteria	Weight	Score
Capacity	10	10
Technical quality	10	10
Financial quality	10	10
<b>Total</b>	<b>30</b>	<b>30</b>

Technical evaluation grid (Step 2)

Criteria	Weight	Score
Capacity	10	10
Technical quality	10	10
Financial quality	10	10
<b>Total</b>	<b>30</b>	<b>30</b>



# Electronic Management System



- Contracting module allows registering amendment requests of financial agreement initiated by the Beneficiary
- Program Administration allows viewing the details about the selected program: title, period, Management Authority, priorities, calls, eligible costs, etc.
- It also enables viewing the documents registered in the calls
- Accepts recording a call (title, priorities, terms), as well as modifying, deleting or validating data about a project
- It allows to the Program manager to change the status of a call

The screenshot displays the Electronic Management System interface for Romania - Republic of Moldova, CROSS BORDER COOPERATION PROGRAM. The top navigation bar includes links for Applications, Contracting, Project Monitoring, Voids, Irregularities, Exchange rates, and Payments. The main content area is divided into two sections: Project Summary and Call for proposals list.

**Project Summary:**

- Project title:** Transborder Agribusiness Support - REDONE 3
- Reference number:** 256/2/1
- Registration date:** 08/16/2016
- Thematic objective:** 7 - Improvement of accessibility to the regions, development of transport and communication networks and systems
- Programme priority:** 7.1 - Development of cross border transport infrastructure and ICT infrastructure

**Call for proposals list:**

Call title	Project type	Priorities	Submission start	Submission end	Status	Budget (EUR)	Accepted expenditure	Contracts	Action
Test Greensoft	Soft	P2.1	08/01/2016	10/31/2016	Open for submission	50 000.00	0	0	
Call Evaluation	Hard	P2.1, P2.2	08/16/2016	08/17/2016	Monitoring	200.00	0	1	
2nd Call of proposals for soft projects	Soft	P2.1, P2.2, P3.1	08/17/2016	08/17/2016	Contracting	10 400 000.00	1	0	

**Contracting details:**

Call: [ ] Priority: [ ] Application number: [ ] STC Officer: [ ] Apply

**Submodules:**

- Contracting
- Amendment requests
- Beneficiary Notifications



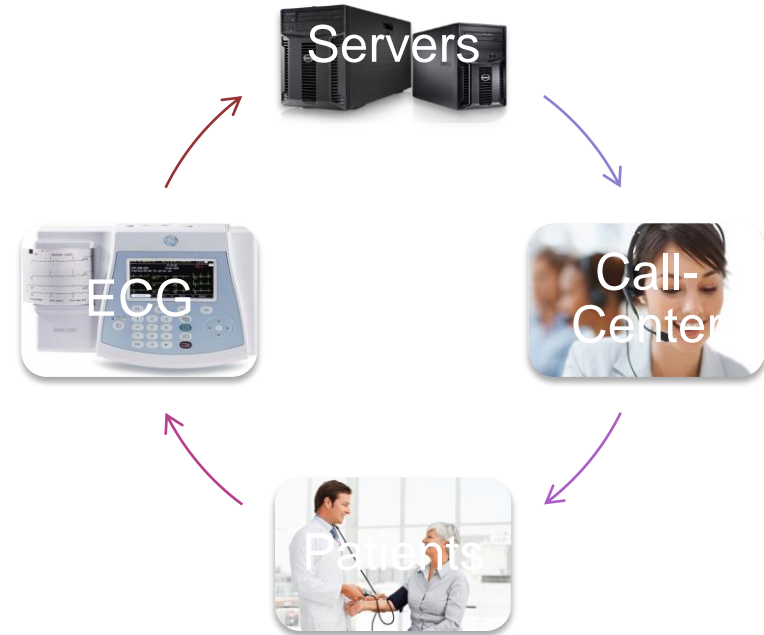
# Healthcare







- A telemedicine application that represents a link between the general practitioner and the cardiologist, favouring the possibility of “remote” interpretation of electrocardiograms for patients in the rural area.
- Information system for remote monitoring and diagnosis of patients with a cardiac pathology





# Benefits of GreenCardio®



## For the Hospital

- ✓ Expanding the service portfolio.
- ✓ Improved public image.
- ✓ Extending the coverage area
- ✓ The number of waiting patients decreases.
- ✓ Lifetime support and maintenance.
- ✓ Statistic reports used in decision-making.
- ✓ User friendly solution

## For the Patient

- ✓ Timely discovery of possible illness
- ✓ Post-op non-stop service using the Hand-Held device
- ✓ Quick investigation through GP reservation.
- ✓ Continuous monitoring of chronic diseases.
- ✓ Faster and better investigation
- ✓ Access to patients in remote areas and to immobile patients.

## For the GP

- ✓ Expanding the services available
- ✓ New revenues
- ✓ Eases the daily work, diagnosis and treatment being offered by the specialist.
- ✓ New cases to discover and cure.
- ✓ Premium service for chronic patients
- ✓ Improved image in the community.





- Software solution used to automate the process of taking and processing radiological images transmitted in DICOM format
- Allows scheduling imagistic investigations for each polling / device type
- Features:
  - Investigation Consultation / Downloads
  - Investigation Uploads
  - Declaration —clasification, filling medical informations
  - Catching investigation results(integration with medical devices)
  - Graphic Processing

GREENPACS

🔍 Caută
Adaugă
⚙️ Optiuni
👤 Asistent Radiolog

ID	Tip in.	Echip.	Num	Prenume	CNP	Data insoptere	Sectie	Solicitata de	Stare	Detalii
43	RCT	E1	Puiu	Julia	111111111111111	-	Sectia 1	ganea.donawelena	noua	
30	RCT	E5	Pirelli	Alexandra	2912206220755	31.10.2014	Sectia 1	bucila.sabastangabriel	diagnosticata	
29	RCT	E5	Pirelli	Maria	2910925444531	28.10.2014	Sectia 1	burca.ana	diagnosticata	
27	EO	E3	Pirelli	Ion	1891026220754	27.10.2014	Sectia 1	achet.dorin	diagnosticata	
45	BAM	E1	Pirelli	Alexandra	2912206220754	27.10.2014	Sectia 1	cimpan.dumitru	noua	
44	RCT	E1	Puiu	Julia	111111111111111	27.10.2014	Sectia 1	gemanar.elenamirela	diagnosticata	
25	BM	E1	Pirelli	Elena	291106220754	26.10.2014	Sectia 1	smocot.mihailaenela	diagnosticata	
30	BAM	E1	Puiu	Julia	2910529220702	24.10.2014		arghel.mircea	diagnosticata	
26	EAG	E2	Puiu	Julian	1910529220707	24.10.2014	Sectia 4	ganea.donawelena	diagnosticata	
12	EM	E1	1	1	11	24.10.2014	Sectia 1		diagnosticata	
19	BAM	E1	Pirelli	Alexandra	2912206220754	24.10.2014	Sectia 1	vesetru.sorinel	diagnosticata	
21	RCT	E5	1							ata
18	EM	E1	1							

**Adaugare cerere programare**

Tip raport:

Echipament:

CNP:

ID:

Nume:

Prenume:

Vartea:

Sex:

Județ:

Localitate:

Strada:

Numar strada:

Data procedura:

Sectie:

Medic solicitant:

Buletin ANALIZE MEDICALE
✖

ECOGRAFIE ABDOMINALA, GENERALA  
ECOGRAFIE MAMARA  
ECOGRAFIE ORGAN  
RAPORT EXPLORARE CT

Maxim 50 de caractere

Maxim 50 de caractere

O valoare numerica

Barbater:

ALBA

Maxim 50 de caractere

Maxim 50 de caractere

Maxim 50 de caractere

Sectia 1

Cautati

Salveaza
Renunta



# Energy





# Network / Grid Access Management



- MAR is an unified and optimized system for managing the connection to the electrical distribution network.
- Over 3,000 Electrica employees use it for their daily work. It has over 1,000,000 registered connection requests and around 500,000 signed and paid connection contracts.
- The software system is an instrument that measures the efficiency of the energy bureaucracy.

Connection Request	New connection request	Managing solution forms and solution studies
	Creating Technical Approval Forms	Connection contracts/ Design contracts
Location Request	Registering new requests	Creating co-existence studies
	Managing the Approval form	Creation of Release contracts

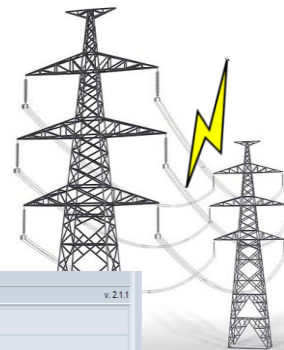


# EMID Incidents – Outage Management



- EMID Incidents and Malfunctions is a solution that enables the reporting of power outages, favoring a quick response and continuity in services delivery. Activity in this system also includes keeping record of changes and repairs related to infrastructure.

- Performance indicators: The tool corresponds to the requirements of the Performance standard for the electrical energy distribution service regarding the calculation of the continuity indicators in the electric energy supply: SAIFI, SAIDI, ENS, AIT.



Fisa de Incident: v. 2.1.1

1. Numer curent incident: 11025

2. Localizare incident:

2.1 Cod file: Mureș Nord

2.2 Cod incident: 3110 - Ploaie

2.3 Cod secție/C.E.: 0000120 - CE MT JI Valeni 2.3.1 Forma de lucru: Forma de exploatare Valeni

2.4 Ansamblu funcțional: 00 - Linii electrice aeriene

2.4.1 Explicite:

2.5 Statie: Selectat: 2.5.1 Bobina: Selectat:

2.6 Celule: Selectat: 2.6.1 Baza: Selectat:

2.7 Linie: LEA 20 KV PCA 2.7.1 Derivate: LES 20 KV ST. VALENI - LEA PCA SBT

2.8 PAFT:

2.9 Tranz: Selectat:

2.10 Parametri nominali: 2.10.1 Putere: 0 MVA 2.10.2 Tensiune: 0/0 KV

2.11 Mod de tratare neutrului: 1 - Prin bobina de stingere (Petersen)

3. Forma de manifestare: 1 - Iesire accidentala din functionare

4. Prior: 1 - Functionare normala

5. Cauza: 5.1 Grupa: 4 - Calitatea necorespunzatoare a materialului 5.2 Cauza: 40 - Lucru servica a materialului in conditii normale de functionare

6. Data producerii: 25.02.2011 Ora: 14 Minute: 50

7. Clasificare incident: 7.1 Izolat: 7.2 Numer incident primar: 0

8. Durata incident: Ore: 0 Minute: 23

9. Durata indisponibilitate: Ore: 20 Minute: 0

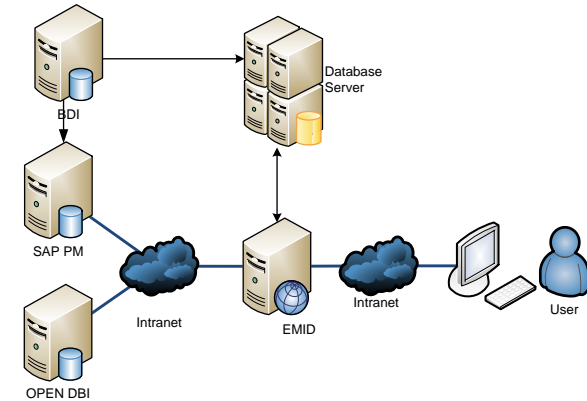
10. Energia electrica nelivrata consumatorilor: 422.25 kWh Browse Browse S: 26 instalatii selectate Forta majora



# SAP Portal NetWeaver



- Allows the migration of the flows and functionalities which are implemented in SAP-ERP
- Reducing compulsory licensing to SAP-ERP to similar functionalities developed in JAVA, Netweaver Portal with unlimited number of users.
- SAP Platform and JAVA Technology:
  - Flexibility – the ability to adapt the applications to new requirements
  - Interconnection with SAP Systems
  - User management and roles
  - User authentication techniques specific to SAP Portal





# eProcurement



- Software solution designed to model the types of procurement procedures and register the acquisition processes within the organization

- Modules

**Procedures** – modelling the types of acquisition procedures

**Acquisitions** – Record the evolution of the acquisition processes

**Authorization** – User management and assigning roles to users

**Reports** – Synthetic informations about the acquisition processes in progress or finished

The screenshot shows the 'Activare achiziție' form. At the top, there's a navigation bar with 'E ACHIZIȚII' and tabs for 'Caută', 'Achiziție nouă', 'Activează achiziție' (selected), 'Etapă', and 'Mai mult'. Below the navigation bar is a table with columns: Nume, Început, Încheiere, Etapa curentă, Estimare, and Stare. The table has one row: 'Achiziție nouă', '01.07.2013', '-', 'Et 1', '25.07.2013', and 'Suspendat'. To the left of the table is a sidebar with a 'Lista completă' button and a list of options: 'Achiziție directă', 'Proc nouă' (selected), 'Cerere oferta cu etapa', and 'Cerere oferta simpla'. The main form area has fields for 'Data\*' (02.07.2013) and 'Observații\*' (Fara observatii). Below these fields is a note: 'Campurile marcate cu \* trebuie completate in mod obligatoriu pentru a continua'. At the bottom right are two buttons: 'Activează' and 'Renunță'.





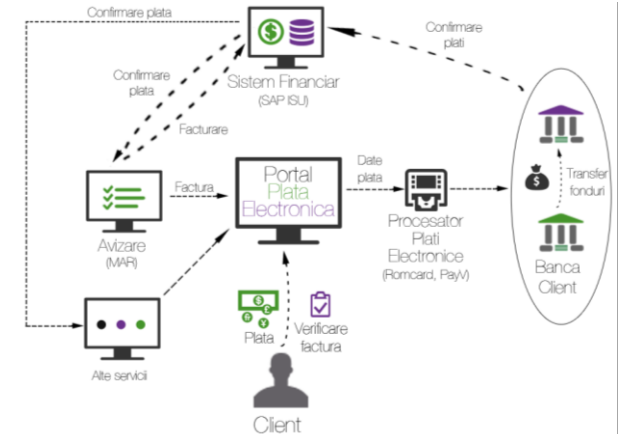
# ePayment (Billing & Invoicing)



- The Distribution Portal has been implemented for all Electrical Distribution clients, suppliers, industrial, large, medium or household clients.
- We have developed a long-term partnership with the electrical companies in Romania (Electrica SA, CEZ Romania, ENEL) and we have implemented together a wide variety of applications, some of them setting the national standard in performance indicators.

The Distribution Suite is composed of three main functions:

- Document payment
- Technical data regarding the delivery point
- Invoice payment





# Energy Balance



- Software solution designed to calculate the energy balance from an area, operational centre and county

- Modules

Business Administration – define the report session, structure of the area

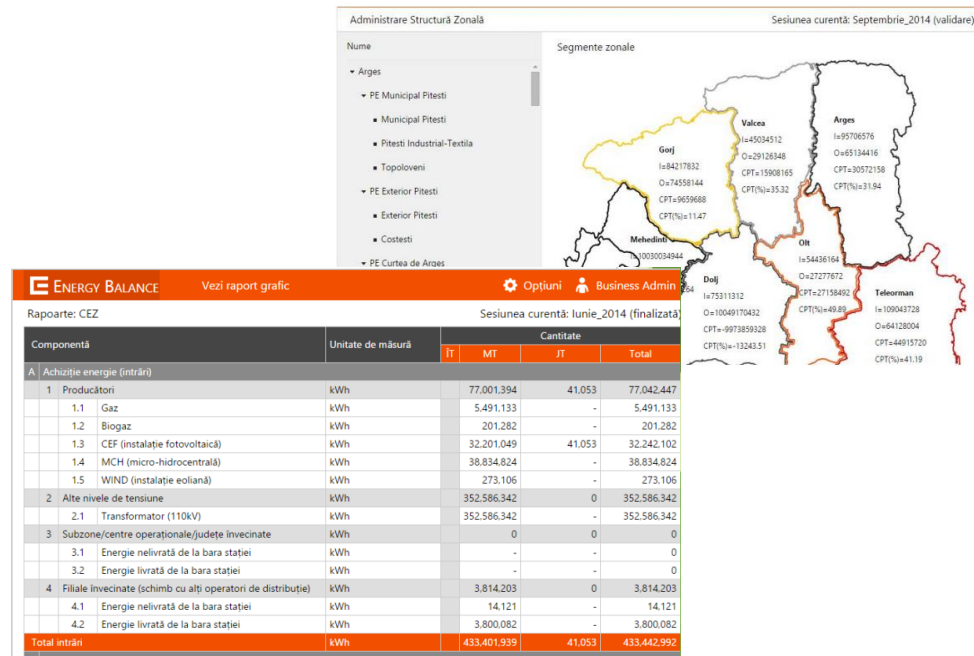
Energy Balance Contour – loads from external files the energy measured

Distributed Energy – Manual update of the energy invoiced

Validation Errors – approving the events resulted from the data in the application

Authorization - User management and assigning roles to users

Reports – Generate reports from an area, operating center, county





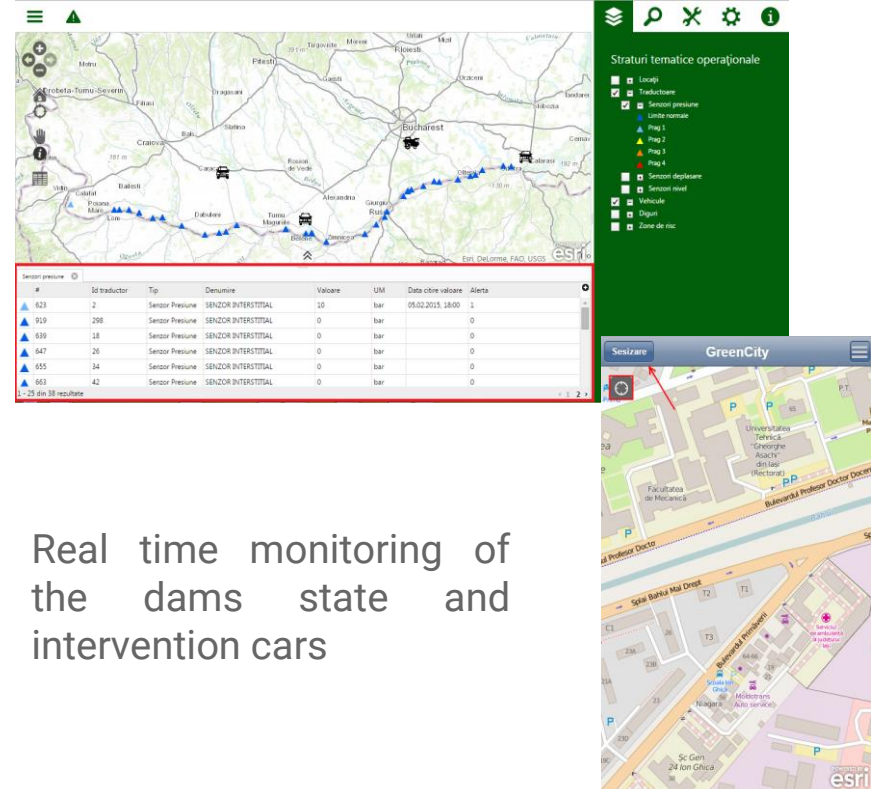
# Cadaster





# GreenCITY

- Software solution designed to prevent environmental. It provides a geographic overview of all the facilities against flood protection of the Danube.
- It involves the use of 3 kind of sensors: displacement, pressure, level
- Mobile app allows the citizens to register alerts and the administrator of the app can view the exact location in real time.



- Real time monitoring of the dams state and intervention cars



# Transportation & Oil





# Refinery Track Intelligent Optimization



- Supply Chain measurements are used to track Supply Chain performance. They can help you understand how well your company is operating. Supply Chain
- Measurements can cover every area including Production, Distribution, Warehousing, Inventory, Transportation. GreenRATIO integrates the entire supply chain operation.
- RATIO is a decision-support system that offers solutions designed for optimization of logistics within a refinery based on artificial intelligence techniques and genetic algorithms.





# Railway Transport Management






- A software tool that offer an easy way to manage the logistic operations of the railway fleet by keeping record of assigned resources and by planning and monitoring railway transport.
- The solution offers a secure scheduling of all operations for any train company

## Perspective

- ✓ Train carts
- ✓ Train engines
- ✓ Train traffic
- ✓ Report
- ✓ Commercial
- ✓ Merchandise database
- ✓ GIS Integration


**FERODATA**



 10 00 0 00 0000 0  
Stare: Functionala (11.08.2016 11:21)  
[MODIFICA STARE LOCOMOTIVA](#)

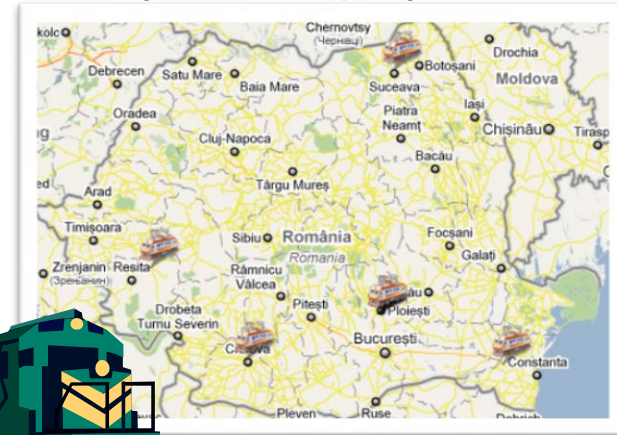
 GHEORGHE Brad   
**42:37 / 10:00 h**  

Conducere 13:28 / 00:00 h Deservire 29:08 h

  
[FINALIZARE SERVICIU PE LOCOMOTIVA](#)

 Deservire 11.08.2016 13:31  
**Mentinere in stare calda**  
Alte locomotive pentru care se efectueaza simultan aceeasi prestatie:  
92 53 0 60 1186 5, 91 53 0 40 0854 2  
[DECLARA PRESTATIE NOUA](#)

  11.08.2016 13:31





# Environment





# Waste Management



- SIM is a software system that ensures a permanent, continuous and transparent connection between economic operators (that report data concerning waste management) and the National Environment Protection Agency.

## Modules

- ✓ Wrapper waste management
- ✓ Battery and Accumulators management
- ✓ Electrical and electronic waste management
- ✓ Out of use vehicle management
- ✓ Waste transport management
- ✓ Transformers containing PCB/PCT management
- ✓ Soil contamination management
- ✓ Waste statistics

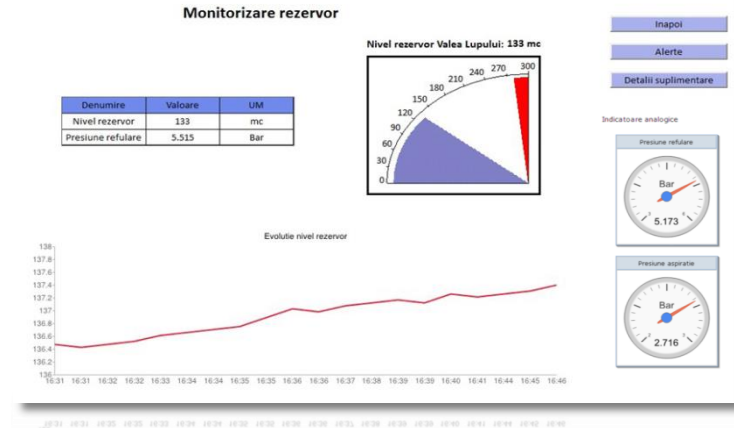
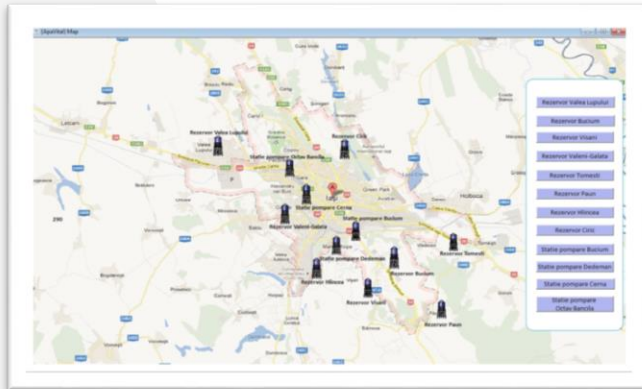




# SCADA - Water Pump Station Monitoring



- Allows improving and enhancing the management of water pumps by sending automatic commands to the pumps and receiving automated updates in case of emergency or failure through SMS or email.



- The software system has been implemented at multiple county water management companies in Romania. It has been running 24/7 without any major issues or faults for more than 2 years now.



# Telecommunication

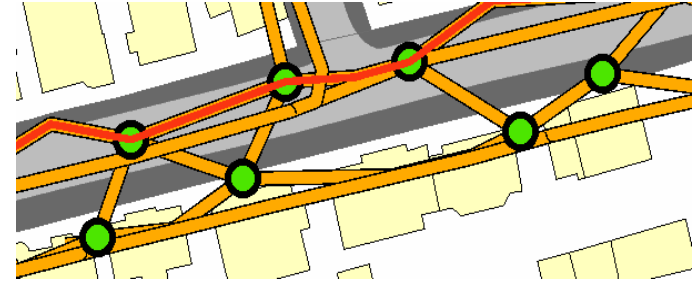




# Integrated network communication management



- GreenIS® is a multi-component complex system, with both Web and Desktop interfaces for advanced processing, graphic analysis operations and GIS reporting.
- It is currently used for more than 10 major infrastructure operators and telecommunication networks. Its main purpose is to help the mediation process between network operators that intend to use the same infrastructure. Furthermore, the application is designed for a wide range of utilities, not only for telecommunications.



- Integrates the inventory of process management, analysis and planning of utilities networks, associated equipment and the infrastructure holding structural elements of the telecommunication networks.



# Social Media







- OnePAP® is a push-notification platform, able to geo-locate user indoor the Malls by beacons (BLE) and WiFi and outdoor by GIS;
- The platform will manage advertising promotions according to the customer profile
- The user can be notified at home, on the street and locate indoor by beacons
- OnePAP platform will bring the customer from his home directly to the shelf of the shop with his favorite product







- Organizing an event and establishing meetings between people interested in custom events
- Features for organizers:
  - Easy and intuitive creation and maintenance of the conference
  - Edit meetings schedule
  - Edit participants / lecturers / speakers
- Features for participants:
  - Easy online registration
  - Realtime notifications
  - Informations about all potential partners are centralized
  - Personal meeting schedule is created for every user several days before the event
  - Reports about the visitors of your profile

The image displays the Match4B web application interface. The top navigation bar includes links for 'My Profile', 'Exhibitors', 'Attendees', 'Requests sent', 'Received Requests', and 'Agenda'. The 'My Profile' section contains fields for 'NAME', 'FIRSTNAME', 'JOB', 'EMAIL', and 'PHONE'. The 'Organization' section includes fields for 'ORGANIZATION', 'TYPE', 'SIZE', 'CITY', 'COUNTRY', 'WEB(Url)', and 'DESCRIPTION'. A 'Profile Preview' section shows a user profile for 'Andreea Mihnea', Director de Resurse Umane at Ernst & Young. Below the web interface, a mobile app interface is shown with an 'Agenda' screen displaying two meetings: 'Meeting with expozant 7' and 'Meeting with expozant 9'. A 'Login' screen is also visible, featuring an email field, a password field, and a 'Login' button.



# Embedded solutions





# Embedded solution



- FerroData Box is an embedded system tailored developed for monitoring electric and diesel consumption on Electric & Diesel-Electric Engines
- FerroData Box is integrated with an Android app working as hub among user (conductor), engine parameters (consumption, GPS info, speed, rotation, etc..) and server data processing







# Thank You!

[www.greensoft.com.ro](http://www.greensoft.com.ro)