

INFORMATION SYSTEM

myGEM

Make your business **run**
like clockwork.



ADVANCED MANAGEMENT OF
IMPLEMENTATION PROCESSES, DEVELOPMENT AND PRODUCTION.

myGEM BENEFITS



Robust features provide time savings and high productivity.



Simple operation and easy adoption.



Own economic modules, can be connected simultaneously with another solution.



Special features tailor-made eg. production management and production planning.



Mini applications for tablets and web applications meet your exact requirements.



Own team for implementation, support and future development.



Ideas



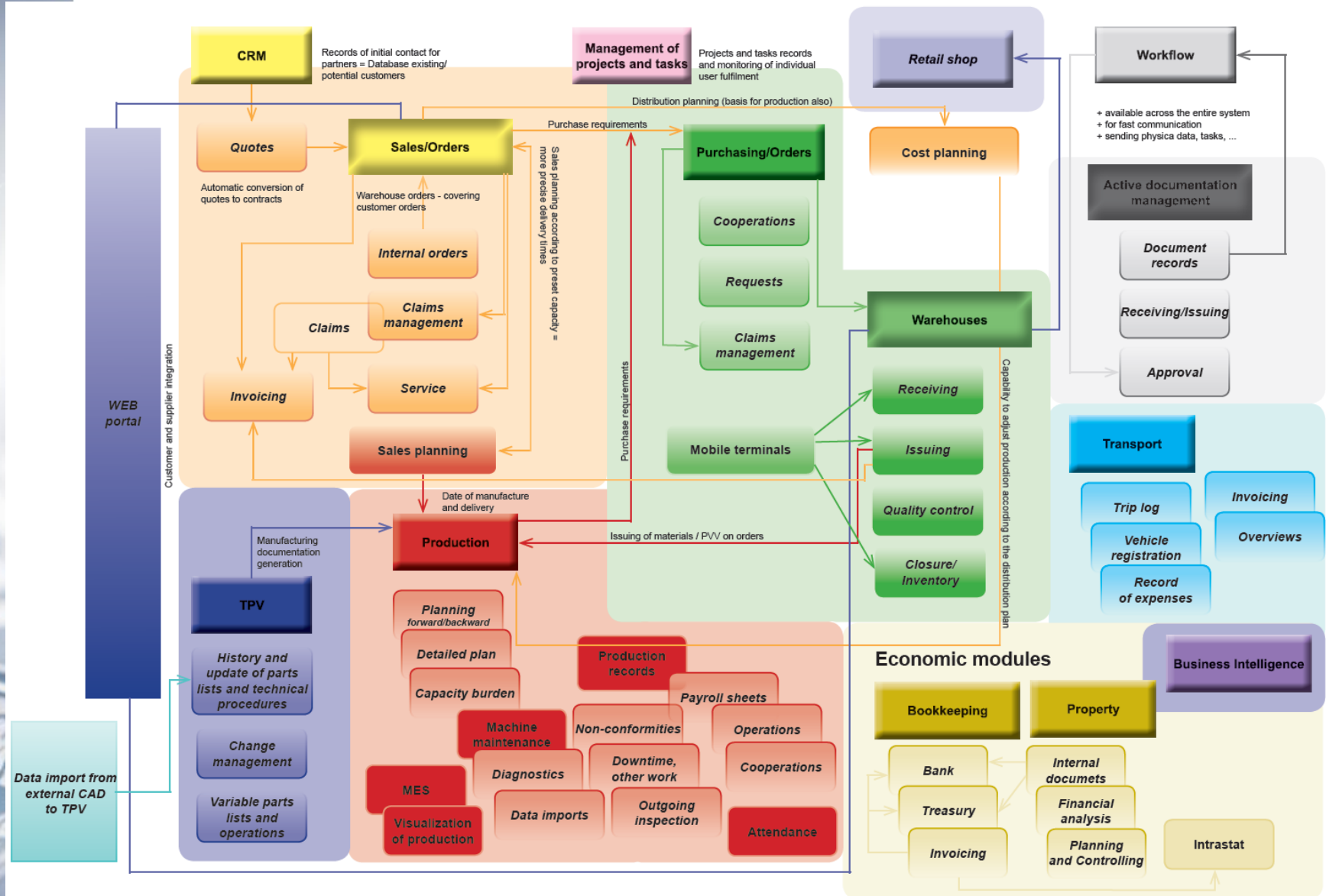
Solutions



Dynamics

- Analysis
- Consultation and training
- ERP myGEM

myGEM DIAGRAM



- Bookkeeping (UCT)
- Property (MAJ)
- Planning and controlling (PaC)
- Business Intelligence (BI)
- Company status (SF)
- Report generator InfoMaker (GS)
- Customer Relationship Management (CRM)
- Projects and tasks management (RPU)
- Logistics – Sales (LPR)
- Shop (PRO)
- Sales planning (OPL)
- Service (SE)
- Complaints from customers (REP)
- Complaint procedure (RR)
- Loading (NA)
- Planning loading (PNL)
- Logistics – Purchasing (LNA)
- Management of tools and fixtures (NA)
- Complaints to suppliers (REA)
- Intrastat (INT)
- Warehouses (SKL)
- Mobile terminals (MOB)
- Technical preparation of the production (TPV)
- Revision service for TPV (ZTP)
- Active documentation management (ASD)
- Production planning and management (RVP)
- Workshop planning (PL)
- Records of the production (RVE)
- Records of the output control and disagreements (EVK)
- Downtime and other work (PP)
- Logout of operations (OP)
- Attendance system (DS)
- Maintenance and diagnostics of machines (US)
- Workflow (WF)
- Parameterisable communication module (PKM)
- Quality management (QM)
- Transport (DPR)
- Suppliers integration (ID)
- E-shop (ES)
- Electronic communication (EDI)
- Displaying of documents (ZD)
- Production process monitoring (MVP)
- ...

PRODUCT SHEETS

■ A detailed description of the modules is in the product sheets.

ŘÍZENÍ VZTAHU SE ZÁKAZNÍKEM

(Customer Relationship Management)

myGEM
CRM

CRM shromažďuje prvotní a zároveň významné informace o budoucích zákaznících. Tato data pak slouží jako podklad pro další rozvoj vztahu se zákazníkem směřující k uzavření smlouvy a následné spolupráci (prodej, dodávky ...).

Zajišťuje tak správu a aktuální informace o potenciálních zákaznících – odběratelích i dodavatelích.

Shromažďuje potřebná data na jednom místě v informačním systému. Například, o jaké produkty by měl zákazník zájem, v jakém segmentu se pohybuje, kdy je vhodné zákazníka kontaktovat atp. Ke každému zákazníkovi lze přiřadit veškerou potřebnou dokumentaci, tj. poptávky, e-maily, výkresy, nabídky atp. včetně kontaktů, adres a informací. Je možné poznačit, v jakém stádiu se tento vztah nachází (první kontaktování zákazníka, poptávko-nabídkové řízení, uzavření smlouvy, ...). Veškerá upozornění jsou zobrazována i v **Kalendáři**, který poskytuje rychlý přehled důležitých událostí a úkolů.

Tato databáze potenciálních partnerů zajišťuje možnost získání dalších obchodních příležitostí do budoucna. Nedílnou součástí modulu je i evidence a rozesílání **kampaní** (hromadné i jednotlivé).

Základní funkce

- Sledování potenciálních zákazníků (odběratelů i dodavatelů)
- Sledování minulé v procesu poptávko-nabídkového řízení, od poptávky ke smlouvě
- Identifikace potenciálních příležitostí
- Identifikace segmentů trhu a skupin výrobků
- Sledování aktivit obchodníků
- Systém upomínek a plánování aktivit (jednání, ...)
- Identifikace a svázání veškeré dokumentace ke konkrétnímu partnerovi a obchodní příležitosti (zápis z jednání, nabídky, korespondence, ...)
- Evidence kampaní

Přínosy

- Evidence a správa veškerých dat k potenciálním zákazníkům
- Plánování jednání a schůzek s možností upomínek
- Záloha a jednoduché dohledání dokumentace
- Přehled o aktuálním stavu kontaktu se zákazníkem
- Podklady pro vyhodnocení a vyplňování nových příležitostí do budoucna
- Synchronizace s funkcí Kalendář aplikace Outlook

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Jednotlivým partnerům

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PLÁNOVÁNÍ A ŘÍZENÍ VÝROBY

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RVP

Systém myGEM nabízí několik možností jak plánovat výrobu. Jedním ze základních plánování je plánování časové. Plánovat lze dopředu, ale i zpětně a to dle nastavených kapacit strojů, i s ohledem na materiálové zásoby.

Ocenitelnou výhodou je generování kalendáře, podkladu pro plánování (rok, měsíc), nejen pro celý podnik najednou, ale také pro jednotlivá střediska, pracoviště i stroj (tzn. každé středisko/pracoviště/stroj může mít svůj vlastní, odlišný kalendář).

Jednotlivé zakázky lze libovolně přepínat dle aktuálních potřeb a priorit.

Další možností, jak plánovat, je operativní plánování dle aktuálního stavu lidských kapacit. Jeho hlavním cílem je možnost denního plánování jednotlivých zakázek po zadání nepřítomnosti pracovníků a jejich časových fondů. Systém tak automaticky přepíná vybrané zakázky dle skutečně disponibilních lidských kapacit.

Umožňuje tím operativní plánování dle aktuálního stavu pracovníků, včetně sledování kapacitní zátěže (denní, týdenní). Je-li používána i evidence docházky, lze kapacity automaticky nastavit (modul Evidence výroby).

Systém umožňuje i **dílenské plánování**, tzv. **dělní plán**. Slouží k ručnímu plánování jednotlivých zakázek na konkrétní dny. Tak má uživatel možnost si vybrat a zahrnout do denního plánu konkrétní automaticky naplánované zakázky, včetně přiřazení jednotlivých pracovníků k požadovaným zakázkám a operacím. Sám tak sestavuje detailní plán dle priorit a stavu pracovníků.

Další výhodou je tzv. **plánování na transportní dávky**, které umožňuje zakázku rozdělit na několik dávek, resp. každou operaci, dle stanoveného množství dávky v TPV. Tento princip umožňuje průběžnou výrobu, kdy po zpracování dávky jedné operace může být zahájena práce na další, aniž by bylo zpracováno celkové množství zakázky na předchozí operaci.

Veškeré zapláňované zakázky je možné pro lepší přehled zobrazit graficky, např. časový průběh zakázek či zobrazení kapacitních zátěží.

Základní funkce:

- Operativní plánování
- Sledování kapacitní zátěže
- Grafické zobrazení týdních i denních kapacit plánovaných včetně skutečných
- Automatické rezervace podkompletů
- Plánovací kalendáře na jednotlivá střediska
- Tisk veškeré výrobní dokumentace
- Plánování podkompletů a nářadí
- Odchylové řízení
- Sledovatelnost dávek, výrobních čísel atp.
- Simulace obchodních případů/zakázek – výhled
- Vývojové zakázky
- Plánování dle lidských kapacit

Přínosy:

- Rychlá změna plánu dle aktuálního stavu kapacit
- Zjištění „rezerv“ lidských a strojových kapacit => zvýšení efektivity výroby
- Snížení stavu pracovníků pro zajištění plánování výroby

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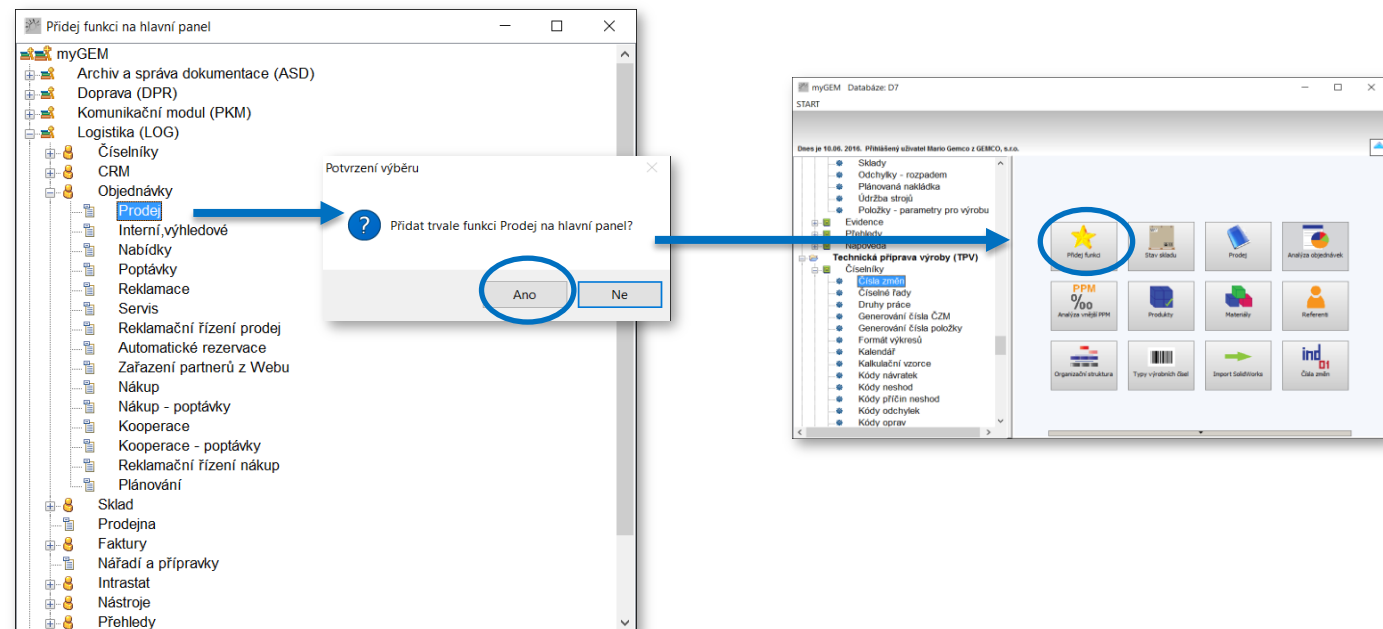
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- myGEM offers **intuitive** mouse **control** and full keyboard controls
- for simple work in windows the **desktop workspace** is ready
- IS allows you to **log in only once**, namely with direct access to **all modules** for which the user has rights
- using the **Add function button** can easily add selected and **frequently used functions** directly into the window after starting



TECHNOLOGY myGEM = INVESTMENT PROTECTION

■ Data layer

- We use an Oracle database for storing data and ensuring data consistency through triggers. Oracle is a modern multi-platform database system with highly advanced data processing options, high performance and easy scalability. We are **Oracle Partner**.

The Oracle logo, consisting of the word "ORACLE" in white capital letters on a red rectangular background.

- Data management and creating stored procedures in PLSQL language used the tool Toad for Oracle. It is the most advanced and widely used Oracle DB tool of its kind from DELL

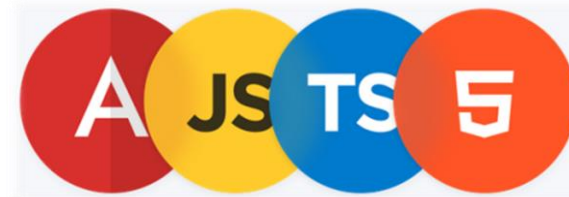
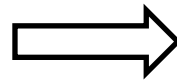


■ Presentation layer – „Thick client“

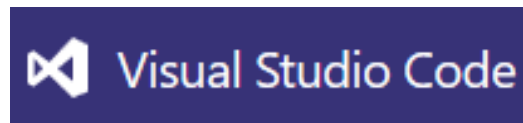
- It is about the basic environment in which users work. For its work high-performance object-oriented tools for enterprise application development are used.

■ „Thin client“

- Applications are primarily designed to run in the internet browser window or mobile phones. In this environment we create a **fully-fledged solution** for myGEM.
- **The ionic framework (mobile app framework)** is a complete SDK (Software Development Kit). It was built on top of AngularJS (application platform) and Apache Cordova (mobile application development framework); Ionic provides tools and services such as CSS, HTML5 and Sass.

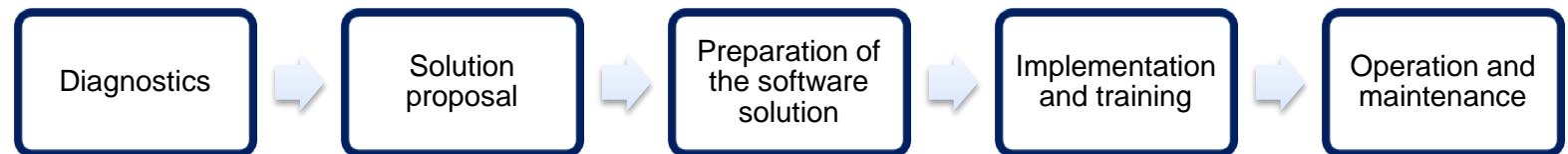


- These languages and libraries are managed by through the Visual Studio Code development environment. This editor is newly defined and optimized for creating modern web and cloud applications.
- Since 2022, they have been developed in the .NET Core 7 environment with an emphasis on high application security.



HOW TO IMPLEMENT

- Implementation typically consists of several steps and a specific timetable is drawn up for a particular project.



- **Typical steps and milestones of implementing ERP solutions:**



- **Diagnostics** (local surveys, data samples, real document patterns, ideological suggestions of requirements)
 - Understand well the company environment and identification of areas requiring improvement:
 - assembling a customer team
 - Team Leader and responsible solvers for each area
 - detailed gathering of information about processes, practices, press releases, specific requirements, other systems required for integration



- **Solution proposal** (workshops, discussions with key users and the whole team)

- Developing of defined requirements as assignments for consultants and programmers according to customer requirements and expectations.
 - parameterization
 - special adjustments (integration, new features, adjustments, ...)
 - database conversions

Determining the conditions for changes mainly in the main process (standard, quick change, ...).



- **Preparation of the software solution** (analytical, programming and control work)

- Include specific requirements in the software:
 - finishing the special requirements according to the proposal of the solution
 - testing and checking
 - analysis of the database

HOW TO IMPLEMENT



Implementation and training (detailed implementation plan, training)

- Ensure mastering the tool for the main process, including specific requirements:
 - experienced consultants will explain the complex system by individual parts and the course of the entire order
 - training of management, administrator, users ... effectively leads to understanding and mastering the tool for managing the main process and economic modules
 - together with you set up and control the level of the database
 - trial operation of the entire system
 - releasing the system into routine operation



Operation and maintenance

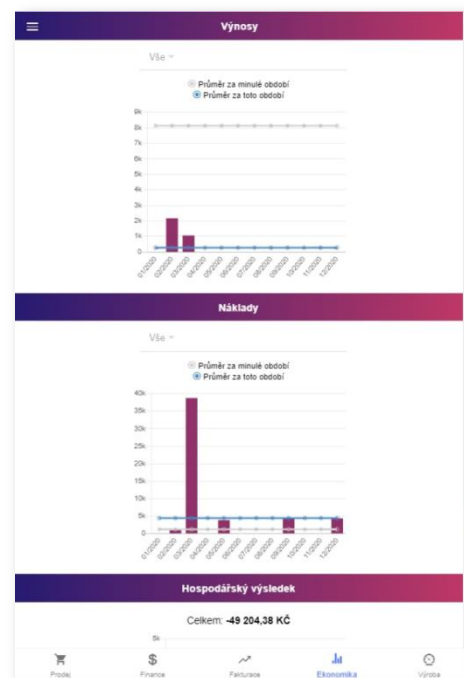
- Ensure the stable operation and system development :
 - determining the way of participation of the supplier due to the client's requirements
- Ensuring the stable operation – helpdesk:
 - hot-line
 - mode 7x24, or other
 - system development (update, upgrade)

Client support in dealing with marginal situations. Compliance with the legislation of the state (country) where the information system is operated. Monitor client needs and processes changes so that software tool (parameterization, ...) improves processes efficiency.

- **Product Configurator – rapid creation of virtual product according to the specific customer needs**
- **Loading and packaging solutions**
- **COC sheets (Certificate Of Conformity)**
- **Technical cards printed online, exporting to a central database**
- **Dispensing dose and mobile terminals, barcodes and QR codes**
- **Distribution of documentation to the machine**
- **Type technological procedures – parameterized for different types of production**
- **Exceptions – a tool for configuration management in production**
- **Collecting data from production equipment**
- **Links to web – selling products, spare parts**
- **Applications for mobile phones – the company status, tasks monitoring, sales**
- **Bulk functionality – Example 5 functions in one "click" to minimize open windows**
- **Integration with external programs – ENOVIA PLM, SolidWorks, ...**
- **Special methods of production planning**
- **...**

WEB APPLICATIONS

- Above the myGEM system it is possible to operate online **Web applications** that communicate via the service online with the database server.
- Applications are standardly ported to mobile devices.



myGEM terminal

10.0.0.126/term/

22L00009-00

Položka

Balení: 22130008 Mn. plán: 0
Zabalit: 0

F4 - OPRAVA BAL.
F6 - TISK BL.
F7 - TISK ŠTÍTKU

Množství
0

01600050 Držák pistnice spodní 22130008
Balit: 0 Kč
Bal. celkem: 2 Kč
Mn v bal.: 2 Kč

myGEM terminal

10.0.0.126/term/

Balení pro nakládku

Vyd. dávka

CH PNL	20L00016-00	28.02.2020	EXT
B PNL	20L00016-02	28.02.2020	EXT
B PNL	21L00013-00	26.04.2021	EXT
N PNL	21L00031-00	07.09.2021	EXT
CH PNL	21L00033-00	23.09.2021	EXT

- We are able to prepare so-called „mini applications“ for special process requirements. These applications are specially compiled modules for specific customer.

The image displays two screenshots of the 'Evidence ML' application interface, which is designed for data entry and evidence management. The interface is presented in a light gray, windowed format with a numeric keypad on the right side.

The left screenshot shows a login or selection screen with the following fields and controls:

- Pracovník:** A text input field with a blue highlight.
- VIN:** A text input field.
- Operace:** A dropdown menu with a small icon.
- Keypad:** A numeric keypad with buttons for digits 0-9, a left arrow, and an ENTER button.

The right screenshot shows a main data entry screen with the following fields and controls:

- Pracovník:** 740 Hrubec Tomáš
- Zakázka:** 16F00249
- 119363 Foot Black** (small text)
- Víceotisk. forma:** ☐
- Operace:** 010 L 07
- Směna:** 1.
- Počet. zač.:** 31 842
- Počet. kon.:** 0
- Mn. celkem:** 13 158 KS
- Mn. shod.:** 13158 KS
- Mn. nesh.:** 0 KS
- výr. dávka:** (empty field)
- Buttons:** **ukončení evidence** and **původní stav**
- Doba práce:** 0 min
- Keypad:** A numeric keypad with buttons for digits 0-9, a left arrow, and an ENTER button.

EXAMPLES OF OTHER MODULES

- **Quality management modules**
- **Paperless production**
- **Automated warehouse Kardex Remstar**
- **Sprinter**
- **Online process analysis**
- **Accountancy**
- **EET**
- **EDI**
- **PKM**
- **Business Intelligence**



- The system works **online** with standard myGEM data and is supplemented by robust modules of selected Core Tools.

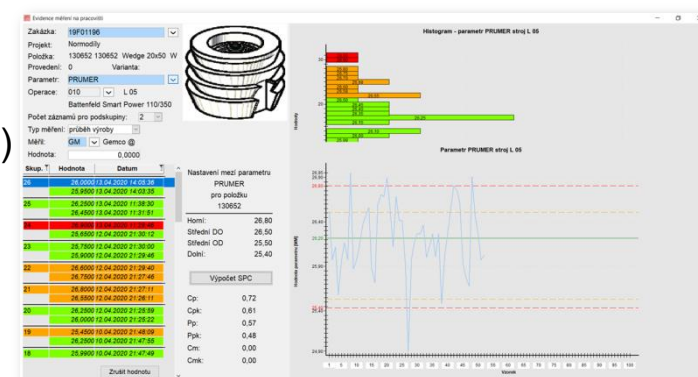
- Includes:

- FMEA process/product
- Control plans
- Module for measuring process values and SPC evaluation (P_{PK} , C_{PK} ...)
- Nonconformance management and 8D report, Complaints procedure
- Project and task management
- KPI (Key Performance Indicators)
- Multilayered audits LPA
- ...

- The necessary data is stored only **in one place**, special modules use it appropriately.

- To support quality, it is integrated into standard modules, e.g.

- Comprehensive change service - over design and production data
- Detailed traceability to products and their variants and designs
- Demonstration of Flow process
- Process analysis in terms of added value and losses
- Project and task management
- ...



- 

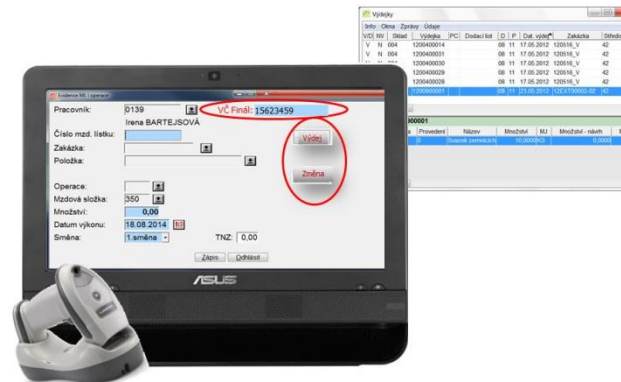
- This is the effective use of mobile devices such as tablets in production and the sharp reduction in paper documentation. Documents and myGEM functions for each **role** are available on the device, for example: **production manager, foreman, labourer, inspector, warehouse worker, expedition worker**, simple applications are built up according to the role.
- The big advantage is that valid **documents** are **available online** and important **records**, such as release of the operation, release of the exit control, start or end of work, are **recorded on-line**.
- Using this principle leads to **time savings** and better **adaptation to changes**. Applications are developed in the easiest way for users, to make them virtually instantly used.
- Progressive approaches are used for solution, such as QR codes, special signing devices, all of these help to minimize paper documentation.

Safe = Product documentation in one place

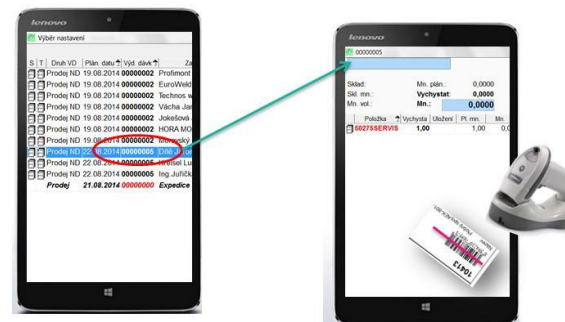
- In common practice happens that documents are created in more systems. It can be mentioned as an example PLM for the graphic editors CATIA, SolidWORKS. To make production work with the right data, we have developed simple **communication between the various external editors and the TPV module**. Each component has assigned, apart from the BOM (Bill Of Materials) or the technological procedure, also other **important documents and data**. As an example, we include CAD, NC data, assembly instructions, inspection, measurement protocols, proof of functional test.
- The product „goes“ through the entire process of implementation and always has the current data available according to which production takes place. This principle makes it possible to produce highly personalized products at a low price.
- All product documentation is in electronic form and is available anywhere and is fully changed (valid status, history, content changes).

PAPERLESS PRODUCTION

- **Issue for the order/Evidence of Time card**
 - **Realized issues** in any way will be automatically displayed as standard in the **Warehouse – Issue slips**.



- **Issue of expedition – example**
 - Taking the barcode of the dispensing batch on the expedition or picking from the list of prepared batches we prepare the expedition of orders by individual recipients.



- The information system **myGEM** is **linked online** with the **Kardex Remstar** warehouse system.
- It is a top innovation in storage area, warehouses optimization, processes of preparing for dispatch, cost cutting and high labour productivity.



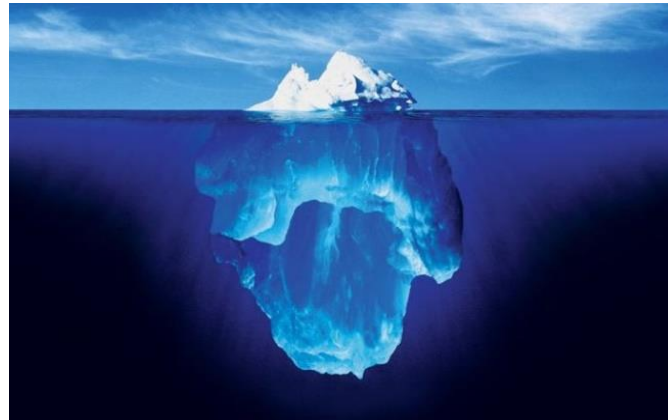
• Source of images: www.kardex-remstar.cz

SPRINTER

- **SPRINTER** allows you to **analyse** online data from your processes and **dramatically improve productivity**.
- Examples of savings:
 - **30% reduction** in delivery time
 - **100% control** of inventory
 - a substantial **increase in the use of workers**



- „What is **really important** is usually not seen at first glance; it remains hidden.“
Sometimes this approach is called the „**iceberg theory**“.
- To look „beneath the surface“ and **uncovered a range of problems**, we need information about the „real“ behaviour of the processes.
Results of analyses of specific cases are **surprising!**



SPRINTER

- That which threatens our timing it is usually very simple. There is a lack of materials for production, for example.
 - Do we really have these activities under control?
 - Why not order and deliver materials on time, who and what is holding-up the whole process?
- For these and many other questions we have prepared a **series of on-line tools and views** that quickly provide data to significantly improve productivity in your organization.



myGEM

- [illegible]

- 25

MANUFACTURING EXECUTION SYSTEM MES

- The in-depth modules of the information system serve as the basis for the compilation of executive process control and especially production. These are mainly **TPV modules, production management and planning, maintenance, process monitoring, change service, distribution of machine documentation**. In these cases, we often address specific customer requirements, which are processed in the form of, for example, **special functions or mini applications**.
- The customer has fully covered all important requirements and **complex processes are handled by a specially developed tool**. This creates a „simple“ tool for relatively complex processes. Part of the solution is the online reading of values, e.g. from assembly machines, lines, injection molding machines (NOK, OK, cycle times,...).
- Examples of MES are applications in the following areas:
 - Production of final products with configurator – consumer goods
 - Engineering
 - Prototype production for the automotive industry
 - Serial tools
 - Plastic production
 - Production of plastics, including assembly of subassemblies
 - Production for the army



ACCOUNTING

- Standard features for management accounting agenda. Parametric construction enables its use in any types of organizations of various sizes and activities:
 - **Invoicing**
 - **Treasury**
 - **Financial planning**
 - comparing the plan and reality monthly, cumulatively, ...
 - **Property**
 - automatic control of set points, accounting in multiple currencies
 - **Banking operations**
 - **Intrastat**
 - electronic output for IDES, printouts of receipts and dispatches
 - **Financial analysis**
 - **Planning and controlling**
- It is developed and tested with accountancy experts and regularly audited independently.

EXAMPLE

myGEM

- Billing the commitment with disintegration into controlling.

Zaúčtování dodavatelského dokladu DF000215 (var. symbol 33)

Info Okna Zprávy Údaje

Kód DPH	Sazba	Částka	Daň	Pohyb	Datum změny	Referent	Jméno referenta
20T	20	434 000,00	86 000,00	DFA	27.10.2015 08:10:25	GM	Gemco @

Zaúčtováno: 220 000,00 Kč Zůstává: -6 000,00 Kč Záloha: 306 000,00 Kč (Daň: 50 000,00 Kč) Kurz. rozdíl: 6 000,00 Kč

MÁ DÁTI	DAL	Částka	Datum úč. příp.	Středisko	Ek. objekt	Poznámka
111 000	321 001	434 000,00	12.08.2015	01	R	
343 019	321 001	86 000,00	12.08.2015	01	R	
343 019	321 001	-50 000,00	12.08.2015	01	R	Daň. doklad zálohy DV000215
314 002	321 001	-250 000,00	12.08.2015	01	R	Daň. doklad zálohy DV000215

Předkontace: ☒ 131 ☐ pořízení zboží 1

MÁ DÁTI:

DAL:

Částka: 0,00 Kč

Středisko: 01 ☐ Správa

Ek. objekt: R ☐ Ek. objekt R

Poznámka:

Zálohy

Rozdělení základů

Materiál:

Pořízení:

Kooperace:

Ostatní:

Náklady

Info Okna Zprávy Údaje

Doklad: DV000115 Středisko: 01

Datum: 20.10.2015 Ek. objekt: R

Účet: 314000 Poskytnuté provozní zálohy

Typ nákladu: Vytápění

Kritérium pro rozpočítání: Rovným dílem

Poznámka:

Částka pro rozpočítání: 22 314,00 Kč

Rozpočítat na

☐ Středisko

☐ Smlouvu

☐ Zakázku

☒ Ek. objekt

☐ WBS

Výběr	Částka	Ek. objekt	Název
<input type="checkbox"/>	0,00	20	Ek. objekt 20
<input checked="" type="checkbox"/>	7 438,00	21	Ek. objekt 21
<input type="checkbox"/>	0,00	22	Ek. objekt 22
<input type="checkbox"/>	0,00	23	Ek. objekt 23
<input checked="" type="checkbox"/>	7 438,00	24	Ek. objekt 24
<input type="checkbox"/>	0,00	25	Ek. objekt 25
<input checked="" type="checkbox"/>	7 438,00	26	Ek. objekt 26
<input type="checkbox"/>	0,00	27	Ek. objekt 27
<input type="checkbox"/>	0,00	28	Ek. objekt 28
<input type="checkbox"/>	0,00	29	Ek. objekt 29
<input type="checkbox"/>	0,00	30	Ek. objekt 30
<input type="checkbox"/>	0,00	31	Ek. objekt 31

- # EET
- 

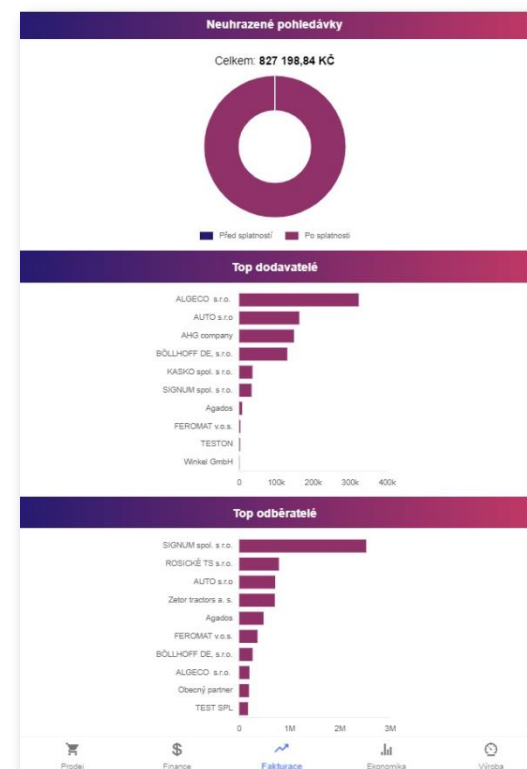
- [illegible]

- **EDI = Electronic exchange** of structured standard messages between two applications of two independent entities, the messages have the same form and „speak“ the same „language“
 - **EDI application** creates a document, automatically processes, receives and sends (invoices, certificates, stocks, orders, ...)
 - The system supports the so-called “In-house” objects according to international standards
 - Fully **replaces paper documents**

- **PKM** = Programmable communication module used for **bidirectional communication with external programs**, for specialized integration can be used standard means such as XML, CbC, etc.

BUSINESS INTELLIGENCE

- Powerful analytical and reporting tools that allow you to **use the data** not only for the analysis of events that have already occurred, but also **predictions of the future development of the company**.
- **Provides monitoring** e.g.:
 - sales turnover
 - purchase turnover
 - stock value
 - production
 - economic centres
 - financial flows, ...
- For executive managers.



It is a demonstration of „**our view**“ on detail solution which we see in the processes, because

- **realisation process** (from sale to delivery) in each company is **somehow specific**.
- there are different ways to manage simple manufacture, manufacture of subassemblies (pre-assembled units), finished products or providing cooperation.
- in the following text we will show you some **basic modules**, to understand our view on the examples.

CRM

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Support of **marketing** activities, it is the basic tool for managing customer relationship.
- Monitoring of own and competing products.
 - Initial **evidence of potential partners**
 - **Interconnection** of systems, it follows that all data of a specific customer are monitored from project to task management, production technology, cost management, and evaluation
 - Tracking partner **status**
 - Success **evaluation**
 - Monitoring the development of market **segments**
 - Monitoring the development of individual client **projects**
 - **Campaign** management
 - Fast **quote creation**
 - Diary – **reminders**
 - **A comprehensive overview in one application**

EXAMPLES

myGEM

We are dealing
with a potential
customer

We are checking
options

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start fulfillment

We order
material

We produce

We deliver

We evaluate

- Each customer has tracked specific project types that are continuously monitored including tracking of past and future activities.

CRM projekty

U	Typ	Číslo	Zkr. název	Firma	Segment	Sk	Status	Priorita	Název projektu
P	02323	AGCF	AGC Fenestra, a.s.	výroba	IS	Inf			myGEM - Email 2010
A	09883	AGENTURA	Agentura NP v.o.s.	služby	RE	Inf			myGEM - Email 2012
A	09963	9963	Agentura Rubico, s.r.o.						myGEM - Email 2013
P	04144	AGF	AGF QUATTRO spol. s r.o.	kovovýroba	IS				myGEM - Email 2014
N	02816	AGRA	AGRA CZ a.s.	výroba	IS				myGEM - Email 2015
P	03646	AGRA SANO	AGRA ŠANOV spol. s r.o.		IS				myGEM - Podpora zákazníka
P	04787	AGRISERVIS	AGRISERVIS, spol. s r.o.	velk., malo	IS				myGEM - Požadavky SW
N	01386	AGROT	AGRO Brno-Tuřany, a.s.	slévárna	IS	100%		1	myGEM
A	02259	AGRO	AGRO SYCHROV, a.s.	výroba	my				
P	01602	AGROD	AGRODILNY, spol. s r.o.	kovovýroba	ISO				
N	02817	AGROET	Agroetanol TTD, a.s.	výroba	IS				

AGRO SYCHROV, a.s. celkem: 3693

Poznámky Kontakty Dokumenty Adresy Potencionální produkty Nabídky Harmonogram Úkoly Kampaň Servisní služ

Text Upoz. Datum upozornění Vyřiz Datum

Podepsaná smlouva na UCT, MAJ, LPR, PRO, SKL - koordinuje pan Kraus. 12.02.2009 09:2

- Quick overview of individual customers – Main window of CRM projects (Who I deal with)

Diář - upozornění

Firma	Projekt	Priorita	Text
MEGASTRO CZ s.r.o.	MEGASTRO	1	Domluvit termín schůzky.
ALTECH spol. s r.o.	pokus	1	Školení ISO
Malina Karel	Školení	1	Zájem o školení
Stavos s. r. o.	Dodávka dílů		Kontrola dokumentace
Stavos s. r. o.	Provádění servisu		Jednání domluveno na 20.5.2009. Materiály připraveny - záložka dokumenty.
Finanční úřad	Opravy DPH, DPPO po kontr	1	opravy v daňových přiznáních
Stavos s. r. o.	Školení QMS	1	zaslat cenovou nabídku do 25.03.2010
KOVOVÝROBA HOFFMA	zavedení čárových kódů/štítků		zaslat cenovou nabídku
ABIKO s.r.o.	Reklama		kontrola
AutoCont CZ a.s.	Svařečky		kontrola

- Automatically popping Window Diary – Alert

CRM kampaň

P	D	Datum Od	Datum Do	Název	Pt. dat. odesl
10	09	2011	31.10.2011	myGEM - "15 LET INOVACI A DOBRÝCH NÁPADŮ"	10.09.2011
29	11	2011	22.12.2011	Kampaň II - investujte do sebe, má to smysl!	
28	03	2012	28.06.2012	MAJE NÁPADY, pomůžeme Vám předběhnout konkurenci!	02.04.2012
17	05	2012	15.06.2012	KAMPAŇ IV	
23	05	2012	21.06.2012	KAMPAŇ V	

Partner	Název partnera	Jméno kontaktu	Funkce
ADAS	ADAST a.s.	František Skypala	výrobní ředitel
ADAS	ADAST a.s.	Jiří Papoušek	ekonom - obcho. ředitel
ADAS	ADAST a.s.	Radovan Macsek	výkonný ředitel
ADAS	ADAST a.s.	Josef Šaroun	technický ředitel
ADO	ADOZ s.r.o.	Jiří Liška	ředitel, jednatel
ADO	ADOZ s.r.o.	Martin Liška	jednatel, výkonný ředitel
ADRIA	ADRIA GOLD s.r.o.	Petr Němeček	majitel
AER	AEROTERM a.s.	Svatopluk Chamrád	ředitel, předseda představen

- List of inserted CRM campaigns

RVP CAPACITY BURDEN

myGEM

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

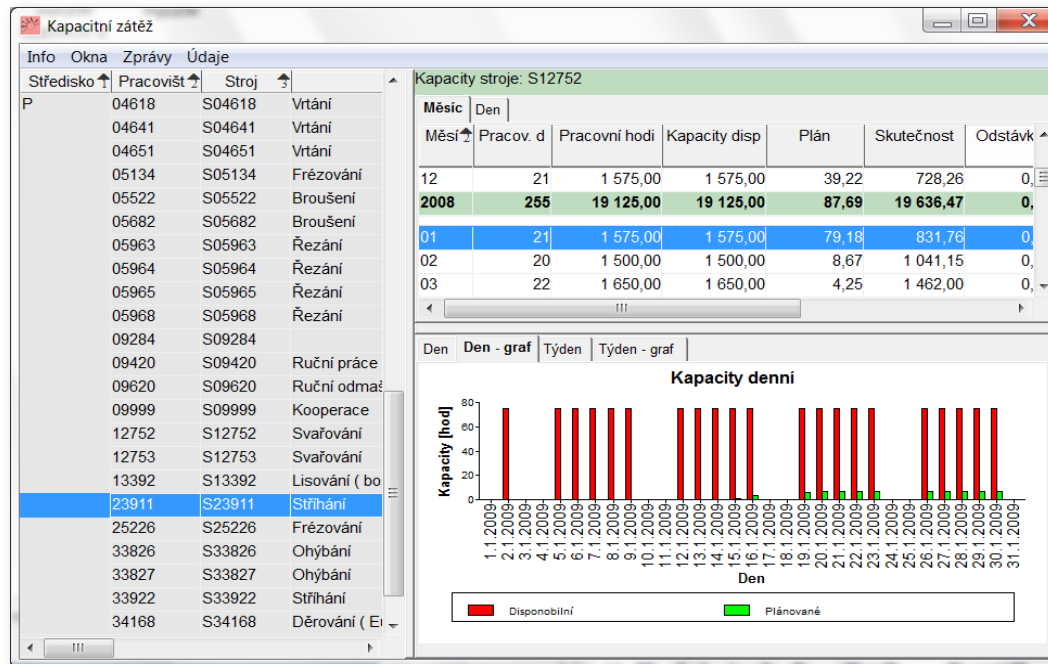
We order
material

We produce

We deliver

We evaluate

- We check the capacity burdens of individual **workplaces and machines** for a specific **month, week or day**.



TECHNICAL PREPARATION OF PRODUCTION



- We check **description of controlled conditions** for a product for the successful realisation of production and the **necessary changes**.
- **Creating and updating parts lists**, technology, control procedures and other documentation (instructions, drawings, measurement procedures ...) for each item.
- **Comprehensive revision service** with a close link to production (contracts).
- Monitoring **performance, change index, change number**.



- **Variant** parts lists, work instruction
- **Controls, measurement** instructions
- **Automatic creation of change archive** for all documentation
- Item **history**
- **Easily create** TPV using copy
- Means for **creating calculations**
- Price calculation using **calculation formulas**
- LNA links – **making materials requirements**
- Comprehensive **change management**
- Supports the **design and development** of your own product and process
- Encourage **teamwork and project management**

TECHNICAL PREPARATION OF PRODUCTION

We are dealing
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customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- TPV je těsně spojeno s řízením dokumentů a integruje dokumenty ze všech dílčích systémů. U položky vzniká „trezor“ platné dokumentace, která je použita pro výrobu. Výrobek tak sebou nese kompletní informace pro výrobní proces.

TPV - @ Gemco (Pracovní, čzn: Z0000001) Projekt: Normodily

InfoOknaZprávyÚdajeSoučástky

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S	SRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	001309	0
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S	SRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	001407	0
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S	SRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32S05U01-30-001_02	0
D	SRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32S05U01-30-003	0
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D	SRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4201.480	0
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Kusovník	Operace	Nářadí	Inverzní kusovník	Variantní kusov		
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2	Z	KRO	000001	32S05U01-30-001	1,0000000	P
2	Z	KRO	000002	001428	1,0000000	P
2	Z	KRO	000003	001429	1,0000000	P
2	Z	KRO	000004	001407	1,0000000	P
2	Z	KRO	000005	001388	1,0000000	M
2	Z	KRO	000006	001695	1,0000000	S
2	Z	KRO	000007	001309	1,0000000	K

3

TRO

010

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116

09422

Montáž

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TRO

020

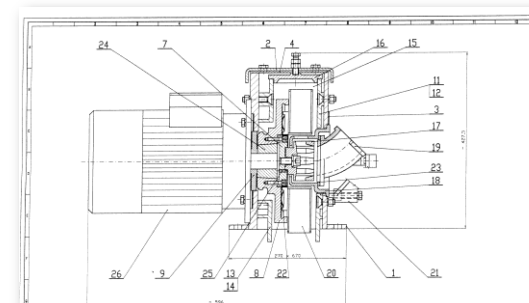
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10












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26356

Čistění



- Enclosed documentation

TPV - Historie položky '51242' s provedením '0'													 	
Info		Okna		Zprávy		Údaje								
Souřadiska		Kusovník		Operace		Náklady		Variantní kusovník		Variantní operace		Další dokumentace		
P	S	ZP	SZ	Pozice	Položka	Provedení	Název	Mn. hrubé	Ku	Mn. čisté	Výskyt	Mn. přivr	Zap. pro	
0	M	KUK	000003	33096			Redukce svislý adaptér AEK	1,0000000		1,0000000	100,00			
0	M	KUK	000004	30513			Průchodka zásevky EURO NT	1,0000000		1,0000000	100,00			
0	M	KUK	000005	30514			Průchodka prům. 30	1,0000000		1,0000000	100,00			
0	Z	KUK	000006	10477	0		Plošný spoj AEK-802-009	1,0000000		1,0000000	100,00			
0	Z	KUK	000008	10186	0		Plošný spoj AEK-21	1,0000000		1,0000000	100,00			
0	Z	KUK	000009	10413	0		Plošný spoj AEK-801-003	1,0000000		1,0000000	100,00			
0	Z	KUK	000010	10350	0		Plošný spoj AEK-802-003	1,0000000		1,0000000	100,00			
0	M	KUK	000011	32403			Ventil plynový 24V s filtrem	1,0000000		1,0000000	100,00			
0	Z	KUK	000013	11493	0		Trafo hlavní KIT 400 CUIAL vyráběné	1,0000000		1,0000000	100,00			

- Item history

TPV EXAMPLE

myGEM

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Type-based technological processes modified to meet specific needs are developed to speed up the pre-production stages.
- In the following there is an example of a template for an automatic generation of the process that runs as a batch task at the "background".

Kód	Název	Platí Od	Platí Do	Datum	Ref.	Jméno
K3	KALIBROVACI_NARADI_3	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
KL	KLINOVKA	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
KLPM	KLINOVKA_POL_MODEL	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
KN	KASIROVACI_NASTROJ	01.01.2013	01.01.2100	27.04.2013 21:27:50	GM	start Gemco
KP	KONTROLNI_PRIPRAVEK	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
KPM	KALIBR_POL_MODEL	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
L	LEMOVAK	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
LPM	LEMOVAK_POL_MODEL	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
M	MAKETA	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
MP	MERICI_PRIPRAVEK	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
O	OSTATNI_NARADI	29.04.2013	01.01.2100	29.04.2013 07:58:01	153	Ovesný Michal
OH	OHYBAK	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
PR	PROSAZOVADLO	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
S	SPODOTAH	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
S1	SPODOTAH_1	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
S2	SPODOTAH_2	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
SER	SERIOVE_NARADI	29.04.2013	01.01.2100	29.04.2013 07:57:21	153	Ovesný Michal
SP	SESTAVOVACI_PRIPRAVEK	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
SVP	SVAROVACI_PRIPRAVEK	01.01.2013	01.01.2100	27.04.2013 21:27:48	GM	start Gemco
T	TAHOVE_NARADI	01.01.2013	01.01.2100	27.04.2013 21:27:47	GM	start Gemco
T1	TAHOVE_NARADI_1	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
T1PM	TAH_1_POL_MODEL	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
T2	TAHOVE_NARADI_2	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
T2PM	TAH_2_POL_MODEL	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco
T3	TAHOVE_NARADI_3	01.01.2013	01.01.2100	27.04.2013 21:27:49	GM	start Gemco

P	OV	SZ	Aktivní	SND	SP	Položka	Provedení
S	SUK	✓				000NLP	0
S	SUK	✓				000NLPK	0
S	SUK	✓				000NLTD	0
S	SUK	✓				000NMK	0
S	SUK	✓				000NN	0
S	SUK	✓				000NO	0
S	SUK	✓				000NOD	0
S	SUK	✓				000NOopr	0
S	SUK	✓				000NRS	0
S	SUK	✓				000NST	0
S	SUK	✓				000NS-U	0
S	SUK	✓				000NT	0
S	SUK	✓				000NTD	0
S	SUK	✓				000NTopr	0
S	SUK	✓				000PM	0

P	OV	SZ	Aktivní	SND	SP	Položka	Provedení
F	SUK	✓				6V9 804 475 N	240113TM01 Buegen
S	SRO	✓				6V9 804 475 VD	240113TM01 dokum
S	SUK	✓				6V9 804 475-OH1-0	240113TM01 OHYBAK
S	SUK	✓				6V9 804 475-OH1-1	240113TM01 RAZNIK
S	SUK	✓				6V9 804 475-OH1-2	240113TM01 MATRICE
S	SUK	✓				6V9 804 475-OH2-0	240113TM01 OHYBAK_2
S	SUK	✓				6V9 804 475-OH2-1	240113TM01 RAZNIK
S	SUK	✓				6V9 804 475-OH2-2	240113TM01 MATRICE



- We have won, we issued the order from the customer.
- **Managing** and monitoring of **sales activities** (contracts, invoices, business case evaluation), including **business analysis**.
 - **Creation of quotes and orders**
 - Evidence of **cancellation** (including EDI)
 - Supplies **overview**
 - **Generate orders in one step**
 - **Solution overviews**, internal orders
 - **Reservation upon order**
 - **Price levels**
 - Evidence of **complaints and service contracts (R/S)**
 - Analysis of the **causes and culprits of defects**
 - **Real status** solution
 - **Claims evaluation**
 - **Traceability**

LOGISTICS SALE

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

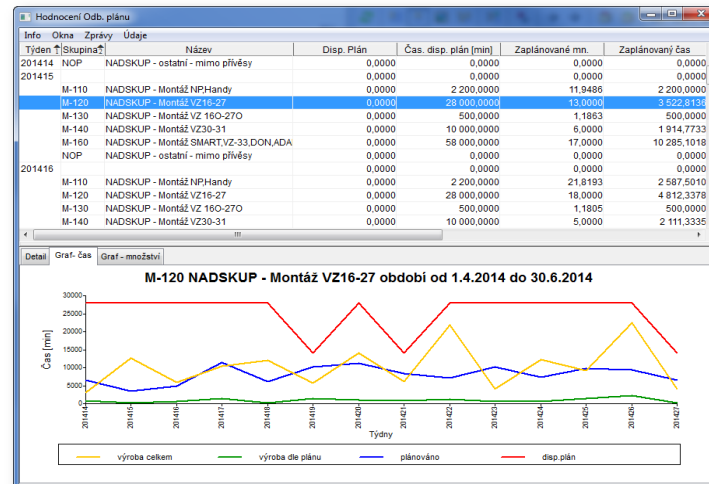
We order
material

We produce

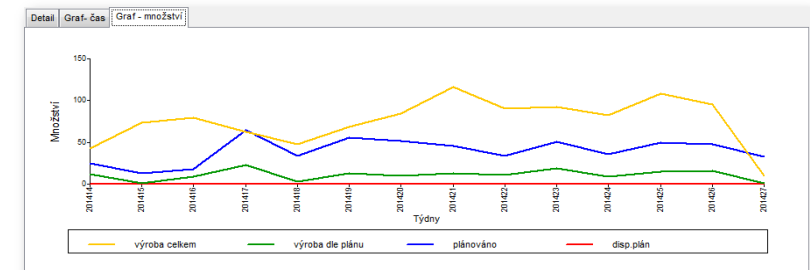
We deliver

We evaluate

- Sometimes sales is **planning the assembly, sales planning – sales submodul** which, based on the entered estimated capacity, **automatically generates dates for assembly and delivery.**
- Planning method also takes account of time savings.



- Entry Sales Plan = basis for the Production Plan



- Graphical display of performance **Entry Sales Plan** (according to the time and amount)

EXAMPLES OF ANALYSIS

myGEM

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

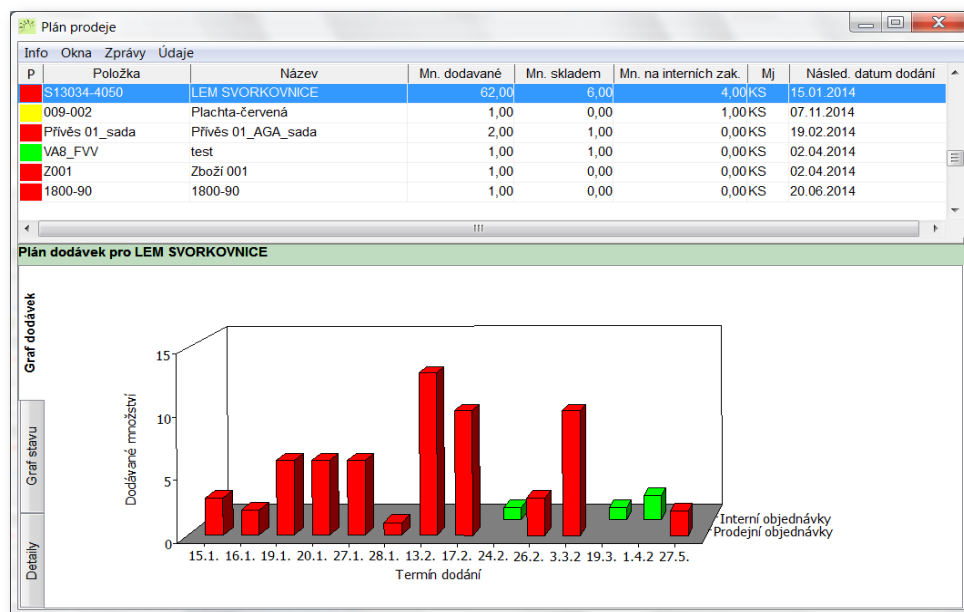
We order
material

We produce

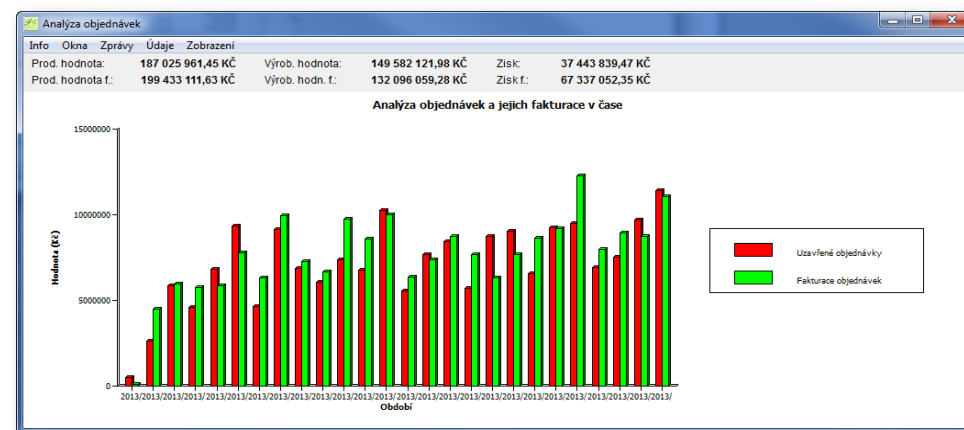
We deliver

We evaluate

- There are important additional information for our decisions.



- Supplies overview



- Analysis of orders

PROJECTS AND TASKS MANAGEMENT



- **Project management and task** = records, **tracking performance** and the current status of assignments, including their assessment. Project management and tasks provides, among others, the following functions:
 - Interconnection projects, including CRM division into phases – **Schedules**
 - **Assignment of tasks** by the responsible solvers
 - **Watching „capacity“** in the planning calendar
 - **Methodology** for **tasks assessment** (term consumption of time, extra work ...)
 - **Colour-coded status** and performance of the whole stage schedule (selected by the user)
 - **The percentage fulfillment** of individual tasks and the whole stage schedule
 - **Action Plan** – in the form of „dynamic“ solutions to the given problem
 - **Creating a plan for a specific period and workers**

We are dealing
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customer

We are checking
options

We have won, we
start fulfillment

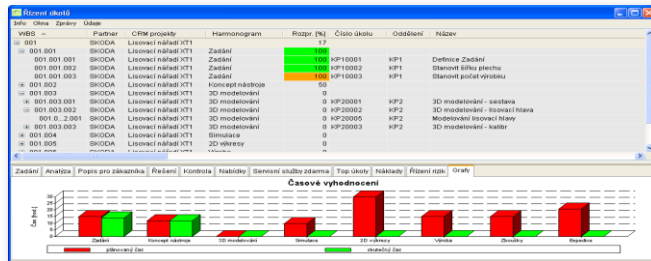
We order
material

We produce

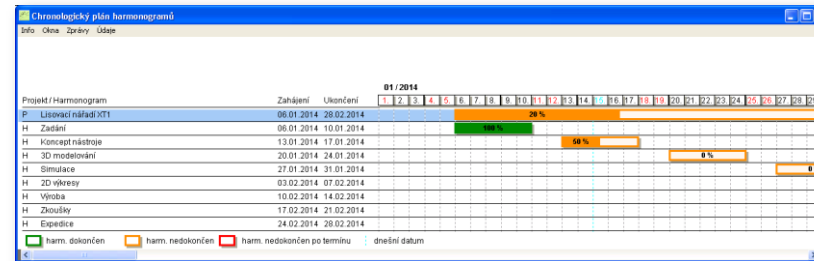
We deliver

We evaluate

- If we manage the order as a project, we can use the tools for „project and task management“, which is integrated.

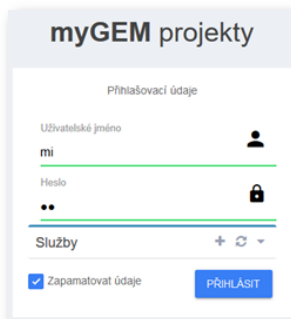


- Viewing of time evaluation of the project and its phases.

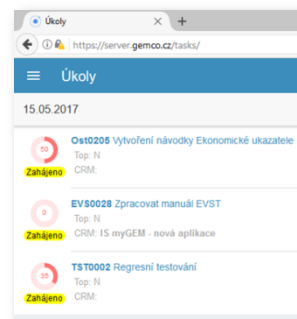


- Chronological project view and its phases.

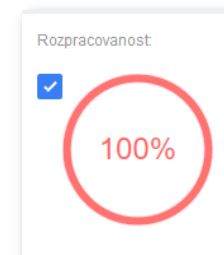
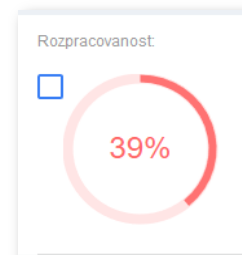
- Tasks are also used on the mobile phone.



- Login



- Task management window



- Editing of task processing

ORDER ISSUING

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment


We order
material

We produce

We deliver

We evaluate

- Everything for delivery is verified, we issue an order confirmation.

Smlouva - potvrzení objednávky č: 

Dodavatel: SPOLEČNOST s.r.o. Ulice č.p. PSČ Město Česká republika IČ : 11111111 DIČ : CZ11111111 Firma zapísaná v OR u KS v Brně, odd.C, vložka 0000. Tel. : +420 111 222 333 Fax : +420 111 222 334 E-mail : obchod@spolecnost.cz	Smlouva číslo : 1600013 Objednávka č. : Objednáno dne :
Konečný příjemce : 00 Jifi Knotek Pohlí 197 41148 Křelice Česká republika IČ :	Odběratel : 61877 Jifi Knotek Pohlí 197 41148 Křelice Česká republika IČ : DIČ : Tel. : 777484409 Fax : E-mail : dak1521@seznam.cz
Dodací podmínky: Druh dopravy : Poštou Datum potvrzení : 04.01.2016	

KP: Jifi Knotek Jifi Knotek Pohlí 197 Křelice 41148 Strana : 1 / 1

Pop. Zboží	Množství	MJ	Dodací do	Cena zákl.	Cena smluvní	Cena celkem
1 43017580 Kryt zadní svítilny L hranatý	1,00	KS	11.01.2016	176,00	21 % DPH	176,00 36,96
2 43017590 Kryt zadní svítilny P hranatý	1,00	KS	11.01.2016	176,00	21 % DPH	176,00 36,96
3 40104911 SOFT DOCK/prýtl.ochrana taž.kl/pro AK301-351	1,00	KS	11.01.2016	146,00	21 % DPH	146,00 30,66
4 82611801 Tlmen upínací-čep VZ	20,00	KS	11.01.2016	3,00	21 % DPH	60,00 12,60
5 40111100 Zámek tažného kloubu vložkový DBS 8	1,00	KS	11.01.2016	68,00	21 % DPH	68,00 14,28
6 47000150 Samolepka 80 km reflexní	1,00	KS	11.01.2016	50,00	21 % DPH	50,00 10,50
7 44016115 Upínací oko 50/6mm ZBF 50-1	4,00	KS	11.01.2016	25,00	21 % DPH	100,00 21,00
				Cena bez DPH	:	776,00
				DPH	:	162,96
				Cena celkem	KČ	938,96

Město, 04.01.2016 Vystavil : Kožený Jan

Dodavatel : Odběratel :
Razítko a podpis : Razítko a podpis :

Informační systém myGEM www.gemco.cz



- The module **monitors the material** from the formation of the requirement to implement specific production orders = **important process** for every business.
- Using **barcodes** for receiving and dispensing the stock, including the **monitoring of storage places**.
- **Claims management of purchased** items with **relation to claims from customers**.
- **Automatic creation of orders** according to **current production requirements**.

PURCHASE, WAREHOUSES



- Managing data on **purchased** items (batch, storage space, inspections, ...)
- Monitoring of material invoices and cost
- **Monitoring** and **evaluation of the quality** of supplies and suppliers
- **Monitoring** inventory and manufacturing requirements
- **Income and output** from the store using mobile terminals
- **Planned expenditures**
- **Analysis** of stock movements
- **Simulating the impact** of changes in the production plan to supply
- **Claims management** of purchased items
- **Integration of suppliers – WEB portal** for their management
- Possibilities of **stock consignment**

EXAMPLE OF DRAFT ORDERS

myGEM



- Purchase features – **automatic draft order** (material, cooperation) is used to ensure "continuity" of production and optimum stock availability.

Stav materiálu - objednávky (18.08.2011 - 20.09.2012) - akt. týden: 201138 - přepočít: 31.05.2011 10:42

Info	Okna	Zprávy	Údaje							
Položka	Název	Jakost	Poč. stav	MJskl	Požad. sum	Objednat	Objednané	Dodat dne	Min.zásoba	
Období	Rozměr	Norma	Kon. stav	Vyr.	Předběžné	Navržené	Nedodané	Objednat dn	Obj.min.limit	
01600040	Držák pod. kolečka		16,0000	KS	0,0000	4,0000	0,0000	30.05.2011	20,00	
2011-22	5x190x283		16,0000	✓	0,0000	0,0000	0,0000		4,00	
01600050	Držák pístnice spodní		4,0000	KS	0,0000	16,0000	0,0000	30.05.2011	20,00	
2011-22	62x80x8	ADAM	4,0000	✓	0,0000	0,0000	0,0000		16,00	
01600060	Protikus skl.př. L/P		60,0000	KS	0,0000	0,0000	0,0000	30.05.2011	20,00	
2011-22	80x80x12	Panter	60,0000	✓	0,0000	0,0000	0,0000		0,00	
01600070	Otočná část skl.př.		70,0000	KS	0,0000	0,0000	0,0000	30.05.2011	20,00	
2011-22	110x80x12	Panter	70,0000	✓	0,0000	0,0000	0,0000		0,00	
01600080	Kulisa s výřezem		0,0000	KS	0,0000	20,0000	0,0000	30.05.2011	20,00	
2011-22	200x127x4	Pantar	0,0000	✓	0,0000	0,0000	0,0000		20,00	

Návrh	Požadavky	Objednávky	Přijemky	Výdejky	Sklad	Náhrady	Použití TPV	Dodavatel
<input checked="" type="radio"/> Všechny <input type="radio"/> Vyr. zakázky <input type="radio"/> Prod. zakázky <input type="radio"/> Kalkulace								
P	Období	TZ	Vyr. zakázka / Prod. zakázka	Č. položky vyr. zakázky	Název položky vyr. zakázky	Množství	Mn. t	
	2011-04	VZ	11P00200	68000-102000	PŘÍČKA S REAKCÍ	20,0000		

COOPERATION EXAMPLE ORDERS

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Automatic creation of cooperation orders based on the requirements of production.

Objednávky - Kooperace

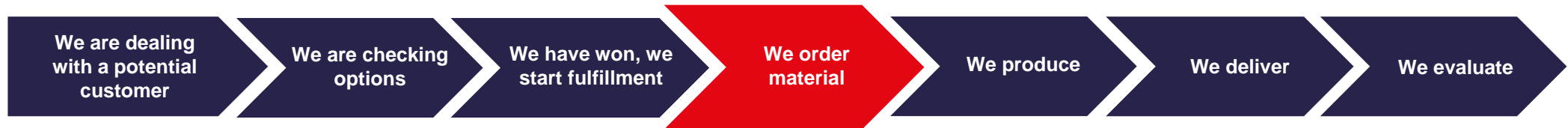
Info Okna Zprávy Údaje										
P	D	K	Číslo objednávky	Číslo partnera	Partner	Dod.	Dodavatel název	Město	Zal	
			1328000007	02954	UNIREG, spol. s r.o.	00	UNIREG, spol s r.o.	Brno		
			1328000008	02954	UNIREG, spol. s r.o.	00	UNIREG, spol s r.o.	Brno		
			1328000009	00038	KÜHTREIBER, s.r.o.	00	Kühtreiber, s.r.o.	Třebíč	12PVV09	
			1328000010	02954	UNIREG, spol. s r.o.	00	UNIREG, spol s r.o.	Brno		
			1328000012	02954	UNIREG, spol. s r.o.	00	UNIREG, spol s r.o.	Brno		
			1328000013	00020	POTISK Palát.s.r.o.	00	POTISK Palát, s.r.o.	Třebíč	13PVV00	
			1328000014	02954	UNIREG, spol. s r.o.	00	UNIREG, spol s r.o.	Brno		

III

Objednávka: 1328000008

P	D	K	Položka	Množství	Mn. dodané	MJ	Mn. na kooperaci	Cena	Pož. datum dod.	Datum dodání	Datum kooperac
			10154+020	3,0000	3,0000	KS	3,0000	80,0000	14.01.2013	16.01.2013	14.01.2013
			10870+040	5,0000	5,0000	KS	5,0000	120,0000	14.01.2013	16.01.2013	14.01.2013
			10892+040	50,0000	0,0000	KS	50,0000	30,0000	14.01.2013		14.01.2013
			10870+040	3,0000	3,0000	KS	3,0000	120,0000	14.01.2013	16.01.2013	14.01.2013
			10892+040	50,0000	0,0000	KS	50,0000	30,0000	14.01.2013		14.01.2013
			10897+040	5,0000	5,0000	KS	5,0000	150,0000	14.01.2013	16.01.2013	14.01.2013

III



- Module for managing mobile terminals is “**native**” applications **myGEM** and works in on-line mode module **Warehouses**.
 - **Income and outflow** of purchased items via **mobile terminals**
 - **Quick outflow** of items from the warehouse terminal using the so-called **outflow batch**
 - **Automatic transfer**, including generating the necessary documents, without manual user creation (transfers, requisitions, delivery notes, ...)
 - Carrying out **incoming** and **final inspections** on products
 - Outflow of items from the warehouse for each contract, for stacker, shipping/loading
 - Ability to perform an **inventory** of warehouses by mobile terminal
 - Change of storage location

BARCODE USE EXAMPLES

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Efficient mobile devices are used for receiving, storing, issuing material and stock-taking. For these devices we have prepared special software modules.

02-001K01 Hyster 4,5 FT 6 ks	02-001K01 Hyster 4,5 FT 6 ks	02-001K01 Hyster 4,5 FT 6 ks
02-001K01 Hyster 4,5 FT 6 ks	02-001K01 Hyster 4,5 FT 6 ks	02-001K01 Hyster 4,5 FT 6 ks

- Printing labels from Microsoft for labelling products



GEMCO Uherské Hradiště		Strana: 1 / 1 Datum: 9.7.2008 Sestava: r_vyd_davka
VÝDEJOVÁ DÁVKA: 00000007		
Plán. datum výdeje: 02.07.2008		
Položka	Název	Množství MJ
B/2, B/3	Zdroj 220/9V 1A	8 ks
B/3	Zástrčka	7 ks
E0006	Tranzistor N-MOS 100V/18A/52m'	42 ks
B/1		
E0007	Diody stabilizační	60 ks
B/1		

- Example outflow batch for picking items from the warehouse using a mobile terminal



- The module is used **to time, quantitative, capacity planning** by type of production.
 - Taking over from the sale, including **automatic generation of documents and barcode labels in one step**
 - Assessment of the **capacitive loads** of individual workplaces and their solutions
 - Evaluation of **summary material requirements** in individual planning periods
 - **Making views, executive plan** (plant, center, workshop) and fault solution
 - **Identifying differences** between the requirements of trade and production (overruns solution ...)
 - Modification of the plan of orders according to the agreed loading (application of the **KANBAN** principle)

MANAGEMENT AND PRODUCTION PLANNING



- Production planning and control of **piece** (custom), **serial** and **mass**
- Use of **transport batches**
- Scheduling, both **progressive** and **regressive**
 - According to throughput times, processing times, ...
 - Depending on the type of capacity, machine, ...
- **Production design / planning of finished** (FVV) and **semi-finished** (PVV) goods based on the requirements of production and sales and the current warehouse state
- Application of the **Synchro MRP** principle (production part planning, semi-finished, assembly according to orders)
- We provide **accommodative** planning for each process

PLANNING EXAMPLES

myGEM

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

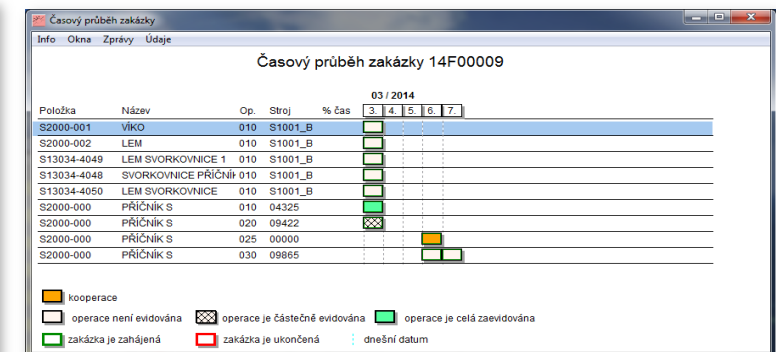
We order
material

We produce

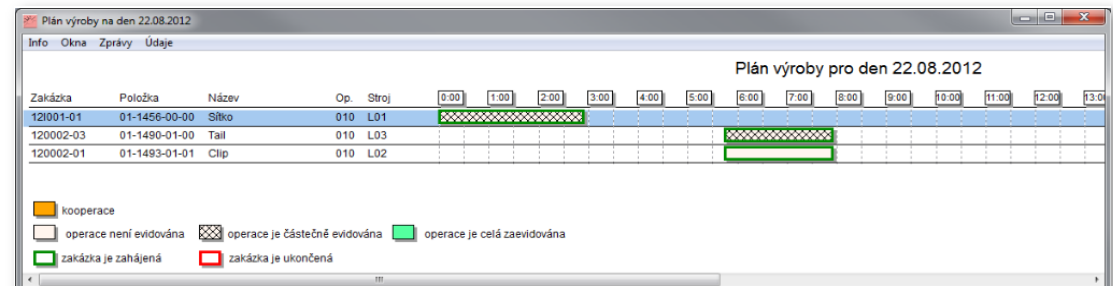
We deliver

We evaluate

- Production can be planned in many ways but each production is specific.



- Used for the production of:
 - mass
 - piece
 - finished products
 - semi-finished products
 - spare parts



PLANNING EXAMPLES



- Specific outputs are customized to customers.

Detailní popis

Info


Klas

Závis


Údaje

Pos	S	R	Pl	Sřídění	Pracovní	Stroj	Op	Dat. zač.	Dat. uk.	Zakázka	Z	MUR	Polozka	Název	Číslo	Technologie	OP 2D	Plán mm	Shodný mm	Měsady	% mm	Pl	str	Sk	str	M		
0			10	111	03331	000	28.06.2016	28.06.2016	16F00000		0	2525-25	2525-25	41838	TECH41		00	5,00	0,00	80,00	0,00	0,00					0,00	0,00
0			10	112	03114	010	06.06.2016	06.06.2016	16F00001		0	01862	KEA01_levé	41773		00	800,00	30,00	0,00	3,71	4,51	0,05					0,05	0,05
0			10	112	03114	010	06.06.2016	06.06.2016	16F00002		0	01862P	KEA01P pravé	41775		00	1 010,00	30,00	0,00	2,87	16,83	0,05					0,05	0,05
0			10	112	04208	010	28.06.2016	28.06.2016	16F00003		0	010304-4048	LEM SVORKOVNICE41841			00	3,00	0,00	3,00	0,00	1,67	0,17K5					0,17	0,17
0			10	116	09422	000	28.06.2016	28.06.2016	16F00000		1	SP2525-25	SP2525-25	41849		00	6,00	0,00	0,00	80,00	0,00					0,00	0,00	
1			10	116	09425	000	18.06.2016	18.06.2016	16F00000		0	011750-LIN	Držák senzoru LIN	41829		01	10 500,00	0,00	0,00	0,00	1,75	0,00K3					0,00	0,00
0			10	116	09425	000	20.06.2016	20.06.2016	16F00008		0	011750_LIN	Držák senzoru LIN	41825		01	31 500,00	0,00	0,00	0,00	5,25	0,00					0,00	0,00
0			10	116	09425	000	28.06.2016	28.06.2016	16F00000		0	2525-25	2525-25	41836		00	5,00	0,00	0,00	80,00	0,00					0,00	0,00	
0			10	116	09425	000	29.06.2016	29.06.2016	16F00001		0	011750_LIN	Držák senzoru LIN	41847		01	11,00	0,00	0,00	0,00	0,00					0,00	0,00	
<div><div>Prázdný OP</div><div>Evidence</div><div>Popis OP</div><div>Partner</div></div>																												
Op. číslo	Prázdný	Prázdný	Prázdný	Jedno	Dat. vstupu	Smlouva	Měsíc/den	Číslo/rok	Číslo/dat. zač.	Sřídění	Prose	Poznámka 1	Poznámka 2	Poznámka 3														
13	Prázdný	Prázdný	Prázdný	Jedno	21.10.2016	Prázdný	21.00	21.00	3.50	3																		
										21.000	210.00	3.50																

- *Detailed plan*

9004 Odlietek BODY 9004		Zmĕna: Z007 Odch.: _____			MZDOVÝ LÍSTEK ěíslo: 13963	
2,00 ks Zaěatek: _____		08.10.2007		Konec: _____		Zak.: 070284-01
Sřř.: 60		Prac.: 01				
Operace: 010		Stroj: UP11				
Os.ě.	Jmĕno	Datum	Dobře ks	Přřprava	Vřřř. ěas	Prostoje

Zobrazení tisku

VÝROBNÍ PRŮVODKA		Zakazka: 07Z219250100		List: 1
		Doprava: Sředečko Množství:		Číslo ML: 18062
Konec přímky, místo, kde země: Fa. Horst Mertz, Lübeck, D. DE				
Zahájil výrobu: 31.08.2007	Vyrobit do: 01.01.2100	Vystavil: Nedoma Jan Zadal: Havlíčková Veronika	31.08.2007	Vyrobené číslo: TKX0222257ABA5968
				
Specifikace výrobku:				
Položka	Provedení	Název	Množství MJ	
6301B-000000	2	PRŮVĚS DONA-M B2, 2500 KG (1 953A,15M)/DE,DK	1 KS	
6301B-000000	0	PRŮVĚS DONA-M B2, 2500 KG (1 953A,15M)/DE,DK	1 KS	
67200-601000	0	DRŽÁK-HAVLÍČK-KOMPLET(J0090K)	1 KS	
Alu nádržky pod kotl plochou 2650mm x 2800kg nosnost, díry pro návěsy do rámu vpravo a vlevo, reiting.bez bočnice 1 – vprádu ***** 6 8 002 06 03 08 Verona Havlíčková *****				

- An example of using barcodes in production: time card, production card



- The module is used primarily for **financial and quantitative evaluation** of the status of work in progress, the **evaluation of planned and actual costs**, fulfilment of performance standards, preparation of documents for wages and **quality monitoring**.
 - Material requisitions (limit sheets), including the dispensing of a bar code
 - Job tickets (work container)
 - Time card **clock-out** via barcode
 - Records during production
 - Conscription of semi-finished products, finished products from production
 - Records of **final inspection** via terminals
 - **Records of non-conformities**, returns, downtime and other work
 - Monthly **closing** in production
 - **Traceability** (batches, serial numbers, ...)

RVE PRODUCTION – RECORDS

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Finished and released operations are monitored online during the implementation process.

Evidence výroby

Info

Oken

Zprávy

Údaje

Záznamy

Záznamy

Souřadnice

Operace

Mzdoměřítky

Kooperace

Nesledy

P	PV	TZ	Zakázka	Projekt	A	B	M	K	%	mm	%	cas	Položka	Provedení	Varienta	Název	Vyrobil	Vyrobeno	Odesláno	Plánováno	Požadováno
			110 25 101 25_A8001_150	Hoffmann	21	30			80	100	100	110 25 101 25 D	A8001_150/700			DI 1102510125	3,00	12,00	12,00	15,00	15,00
			110 25 101 25_A8001_150	Hoffmann	21	30			80	100	100	110 25 101 25 D	A8001_150/700			DI 1102510125	10,00	0,00	0,00	10,00	45,00
			120 35 XXX 25_151022_01	Normodly	21	30			100	0	0	120 35 XXX 25 N	151022_01			Náhrad 120 35 XXX 25 N	0,00	13,00	13,00	13,00	13,00
			160000401	Normodly	21	30			100	0	0	401 8-16-006 K	1			Houbička-Výpřehování K	10,00	0,00	0,00	10,00	10,00
			160000402	Normodly	21	30			100	0	0	402 8-16-006 K	160120			Houbička-Výpřehování K	10,00	0,00	0,00	10,00	10,00
			160000501	Normodly	21	30			100	0	0	120 35 XXX 25 N	151022_01			Náhrad 120 35 XXX 25 N	15,00	0,00	0,00	15,00	15,00
			1600010	Agidos	21	30			0	0	0	OP-VZOR-IMPORT 0				Vzor pro import sestavy z CAD SolidWorks	1,00	0,00	0,00	1,00	1,00
			1600015	Agidos	21	30			0	0	0	OP-VZOR-IMPORT 0				Vzor pro import sestavy z CAD SolidWorks	1,00	0,00	0,00	1,00	1,00
			1600016	Agidos	21	30			0	0	0	OP-VZOR-IMPORT 0				Vzor pro import sestavy z CAD SolidWorks	1,00	0,00	0,00	1,00	1,00
			1600019	Agidos	21	30			0	0	0	OP-VZOR-IMPORT 0				Vzor pro import sestavy z CAD SolidWorks	1,00	0,00	0,00	1,00	1,00
			160001902	Agidos	21	30			17	0	0					00	0,00	0,00	0,00	100,00	100,00
			160001902	Agidos	21	30			100	0	0	Press 01_200A_501 13				Press 01_200A	0,00	4,00	4,00	0,00	0,00
			160002102	Vedení vzduchu - KCP	21	30			100	0	0	100 R1511_P	0			Rampa P	100,00	0,00	0,00	100,00	100,00
			160002201	ZELINGER	21	30			4500	0	0	02000 01000L	0			RGA 01_Jevá	1,00	300,00	0,00	20,00	20,00
			160002202	ZELINGER	21	30			4500	0	0	02000 01000L	0			RGA 01_Jevá	1,00	300,00	0,00	20,00	20,00
			160002202	Agidos	21	30			100	0	0	OP-VZOR-IMPORT 0				Vzor pro import sestavy z CAD SolidWorks	1,00	0,00	0,00	1,00	1,00
			160002701	Agidos	21	30			0	0	0					00	100,00	0,00	0,00	100,00	100,00
			160002701	Agidos	21	30			100	0	0	100 513004-0000	0			LEM SYMBOLIZACE 1	1,00	10,00	10,00	10,00	10,00
			160002701	Agidos	21	30			100	0	0	100 513004-0000	0			LEM SYMBOLIZACE 1	1,00	10,00	10,00	10,00	10,00
			160002701	Agidos	21	30			100	0	0	100 52000-001	0			VNC	1,00	10,00	10,00	10,00	10,00
			160002701	Agidos	21	30			100	0	0	100 52000-002	0			LEM	1,00	20,00	20,00	20,00	20,00
			160002701	Agidos	21	30			100	0	0	100 52000-003	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-004	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-005	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-006	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-007	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-008	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-009	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-010	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-011	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-012	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-013	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-014	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-015	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-016	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-017	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-018	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-019	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-020	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
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			160002701	Agidos	21	30			100	0	0	100 52000-022	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-023	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-024	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-025	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-026	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-027	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-028	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-029	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-030	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-031	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-032	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-033	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-034	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-035	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-036	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-037	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-038	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-039	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00
			160002701	Agidos	21	30			100	0	0	100 52000-040	0			PRC-000 0	1,00	1,00	1,00	1,00	1,00

PRODUCTION VISUALISATION

myGEM

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

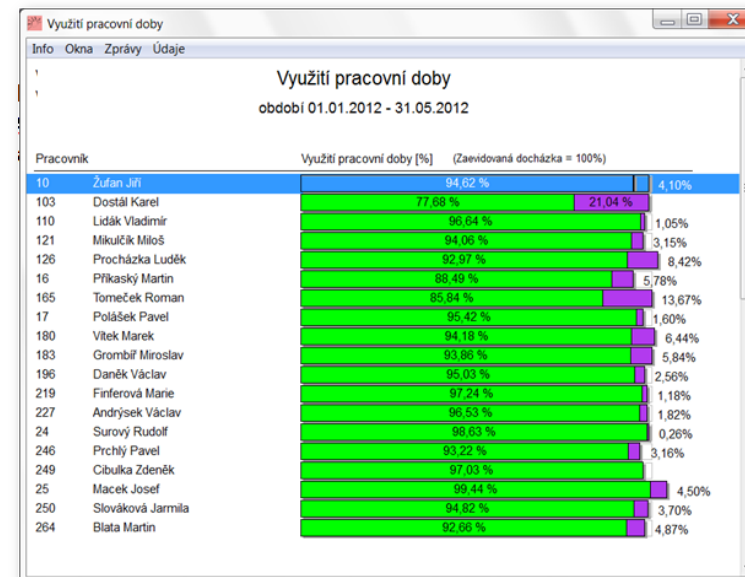
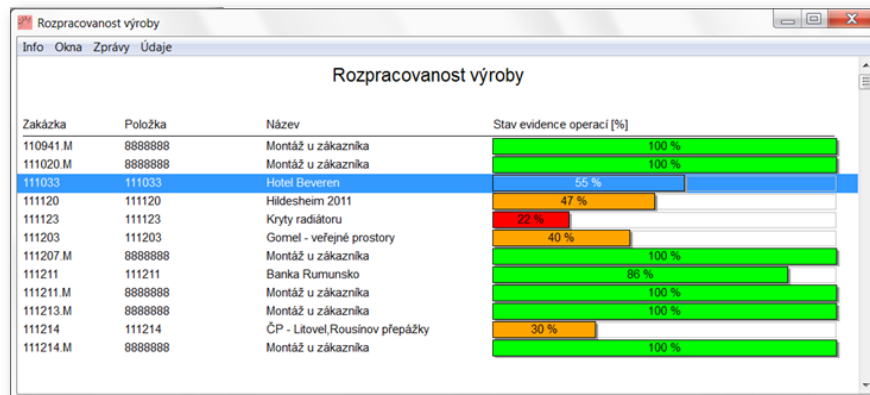
We order
material

We produce

We deliver

We evaluate

- These reports provide a graphical view of the ongoing processes of production, fulfilment of contracts, use of machines and workers, including representation disputes and claims, using **Pareto analysis**.
- It is suitable for obtaining an overview for management, as well as for individuals at workstations, i.e. **display on screens** at workstations etc.



PRODUCTION VISUALISATION

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

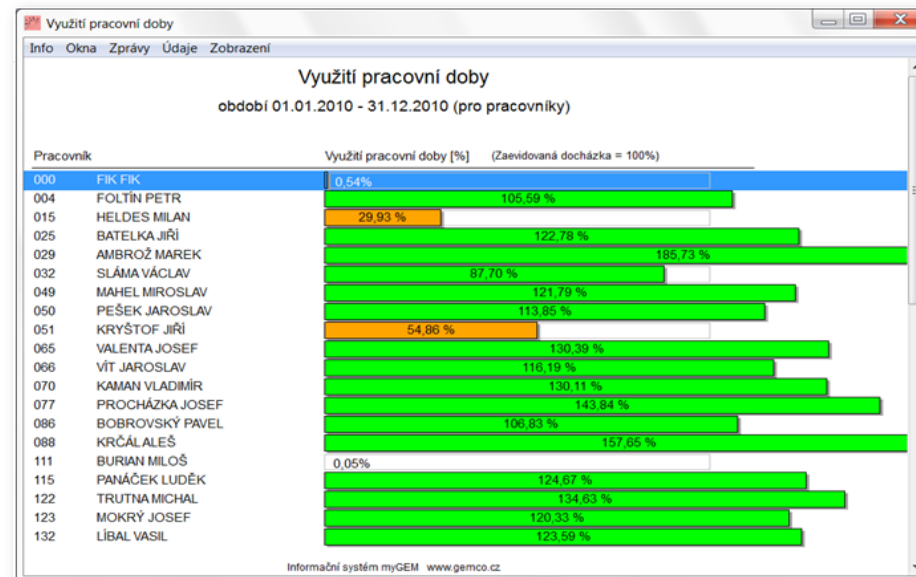
We order
material

We produce

We deliver

We evaluate

- In practice, it is important to monitor the use of working time. Data is evaluated online and presented in various forms.



- Utilisation centre



- Finishing the production in real-time is important for creation of values.
- The overview below shows one of the options.

Odvod hotové výroby

Info Okna Zprávy Údaje

Období 01.01.1900 - 01.01.2100

Období	Množství	Hodnota	hodnota odvodu	hodnota doúčtování odvodu
200905	1,00	32,75 Kč	32,75 / 0,00	
200906	1,03	60 478,94 Kč	60 478,94 / 0,00	
200907	54,25	5 532 184,40 Kč	5 435 349,86 / 96 834,53	
200908	33,01	7 771 487,76 Kč	7 365 535,92	/ 405 951,84
200909	22,00	528 370,10 Kč	504 543,80 / 23 826,29	
200910	32,00	1 645 881,67 Kč	1 534 232,46 / 111 629,21	
200911	31,10	10 839 079,70 Kč	10 769 756,54	/ 69 323,16
200912	0,00	380 923,79 Kč	0,00 / 380 923,79	
201001	65,28	6 767 976,79 Kč	6 533 926,46 / 234 050,33	
201002	0,00	32 144,61 Kč	0,00 / 32 144,61	
201003	65,40	12 154 342,23 Kč	12 130 554,58	/ 23 787,65
201004	41,08	3 267 513,05 Kč	3 358 426,70 / -90 913,65	
201005	58,03	8 451 327,72 Kč	7 996 948,02	/ 454 379,69
201006	44,14	6 451 950,45 Kč	6 437 013,19 / 14 937,26	
201007	0,00	446,21 Kč	0,00 / 446,21	
201008	84,80	16 200 011,31 Kč	16 205 741,72	/ -5 730,40
201009	30,02	2 851 616,10 Kč	2 779 566,82 / 72 049,28	
201011	133,05	25 563 406,74 Kč	14 933 324,16	10 630 082,58

- Output of finished production

DISPLAYING OF TRACKED VALUES

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

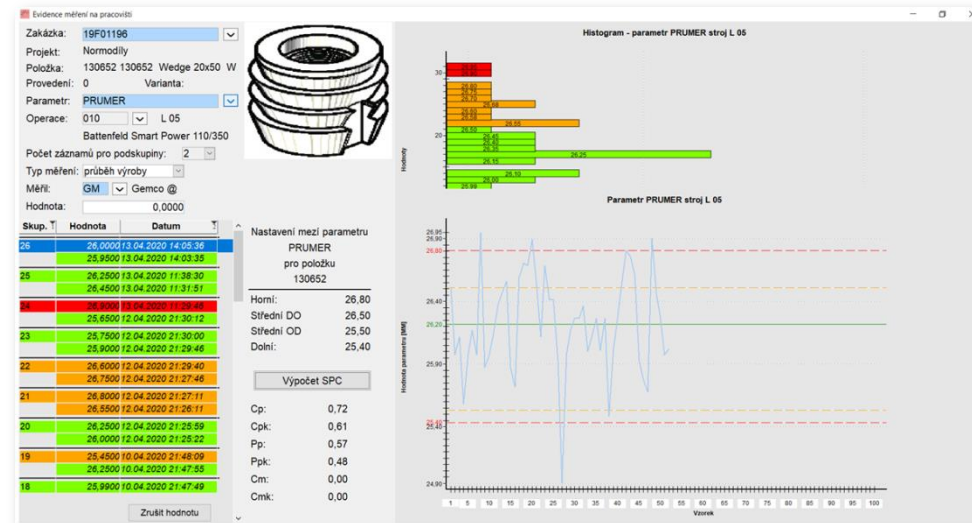
We order
material

We produce

We deliver

We evaluate

- Key values that predict the quality of the process and products are captured and displayed from machines.
- Values are also captured from special single-purpose machines that are part of the automation of the manufacturing process. Standards that use protocol ProfiNET are primarily used here.



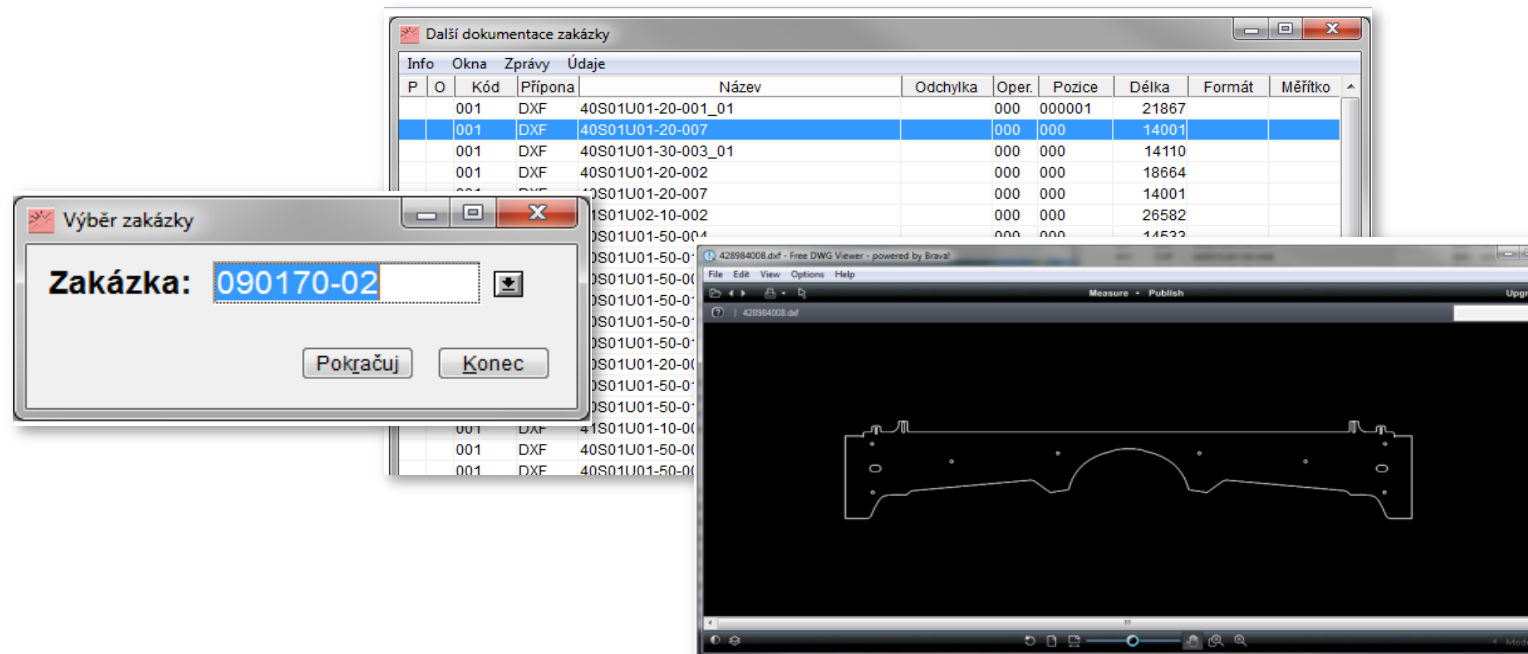
- Online data acquisition from the machine

LINE-SIDE DOCUMENTATION DISPLAY EXAMPLE

myGEM



- To work flexibly and precisely, we provide product data directly to a specific machine.
- The data is subject to change service and eventual deviation management process.



MAINTENANCE AND DIAGNOSTICS OF MACHINES

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

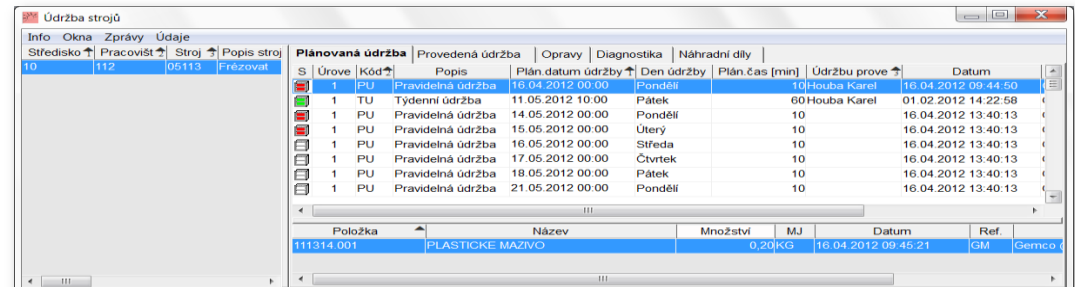
We deliver

We evaluate

- **Machine maintenance** is a simple tool for monitoring the status of **production and maintenance** of machines. The aim is to ensure **maximum equipment life** with higher **safety** and **reduce costs**.

It provides:

- **Maintenance scheduling**
- **Predictive maintenance plan**
- Monitoring and registrations of completed **repairs** (internal/external)
- Machine **diagnostics**
- Data **imports**
- **Control diagrams, ...**



S	Úroveň	Kód	Popis	Plán. datum údržby	Den údržby	Plán. čas (min)	Údržbu provede	Datum
1	PU		Pravidelná údržba	11.05.2012 10:00	Pátek	60	Houba Karel	01.02.2012 14:22:58
1	PU		Pravidelná údržba	14.05.2012 00:00	Pondělí	10		16.04.2012 13:40:13
1	PU		Pravidelná údržba	15.05.2012 00:00	Úterý	10		16.04.2012 13:40:13
1	PU		Pravidelná údržba	16.05.2012 00:00	Středa	10		16.04.2012 13:40:13
1	PU		Pravidelná údržba	17.05.2012 00:00	Čtvrtek	10		16.04.2012 13:40:13
1	PU		Pravidelná údržba	18.05.2012 00:00	Pátek	10		16.04.2012 13:40:13
1	PU		Pravidelná údržba	21.05.2012 00:00	Pondělí	10		16.04.2012 13:40:13

Položka	Název	Množství	MJ	Datum	Ref.
111314.001	PLASTICKE MAZIVO	0.20KG		16.04.2012 09:45:21	GM, Gemco



- **Attendance records** provides Login/logout workers using chips or barcodes in the system, and automatic calculation of hours worked (according to set criteria).
- Hours worked on specific orders (registration payroll cards / operations) are also tracked in a similar manner.

Evidence ML

Pracovník: 17 Polášek Pavel

Zakázka: DOCH

Operace:

Odchod 12:20

Evidence ML

Pracovník: 001 Novák TEST Jan

Zakázka: 101215-101215.001
STŮL KONFERENČNÍ

Operace: 020 Lakovna

☐ 0 - ukončení evidence
☐ 1 - pozastavení evidence
☐ 2 - pokračování evidence

Doba práce: 3 min

RVE BARCODES – OUTPUT CONTROL

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Records of final inspection via barcode or QR code scanning of controlled products.

Evidence výstupní kontroly

Výrobní číslo: 11BEZV0018

Položka: 14660-000000 Provedení: 0
PODVOZEK EUROWAGON 2,5x7,3m B2 2600kg

Zakázka: 1100585-01 Operace: 020

Pracovník OTK: 029 AMBROŽ MAREK

Množství: 1,00

Datum OTK: 22.09.2011

Poznámka:

Hodnoty vážení do POS: ☐ Vážení

☒ Uvolnit ☐ Neuvolnit

Výrobní číslo / dávka	Zakázka	Položka	Provedení	
11BEZV0015	1100585-01	14660-000000	0	POD
11BEZV0018	1100585-01	14660-000000	0	POD

☐ Tisk štítků



WE PLAN THE LOADING

myGEM



- It is a planning of loading.
- Breakdown of individual orders for **distribution** according to size, cars term.
- **Waybill** – the accompanying document for the employee distributing products to individual customers and also **provides the basis for production planning** (when applying KANBAN).

GEMCO

PLÁNOVANÝ NÁKLADOVÝ LIST č. NL900004

Datum nakládky:	11.03.2009	Týden:	200911
Předpokládaný čas nakládky:		Pořadí auta:	
SPZ vozidla:		Poznámky pro řidiče:	
Řidič:			
Přepravní společnost:			

Smlouva	Popis zboží	VIII	Objednané množství	Objednávka	KW obj dod	Lokace	Množství na dodání	M.
Semaco progresivní obrábění s.r.o. - 790 01 Jeseník								
090035	5-600001, Výrobek-finál		1,00		00 10		1,00	ks
Trans Tech Tooling,s.r.o. - 613 00 Brno								
080448	99000001, Plachta		1,00		00 46		1,00	ks
090034	00125M -VČ - F - Agados, Výrobek 0125M -VČ - F - Agados		1,00		00 11		1,00	ks
080445	001, Polštář		2,00		00 45		2,00	ks
	674 01							
AUTO DOBROVOLNÝ V.M. s.r.o. - 59401 Velké Meziříčí								
090041	0125M -VČ - F - Agados, Výrobek 0125M -VČ - F - Agados	0033	2,00		00 13		1,00	ks
090041	0125M -VČ - F - Agados, Výrobek 0125M -VČ - F - Agados	0034	2,00		00 13		1,00	ks
Electro Comp. - 68601 Uherske Hradište								
080165	Adi-p02, produkt 02	0032	50,00		00 13		1,00	ks
080165	Adi-p02, produkt 02	0033	50,00		00 13		1,00	ks

SUPPLY DISCIPLINE

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

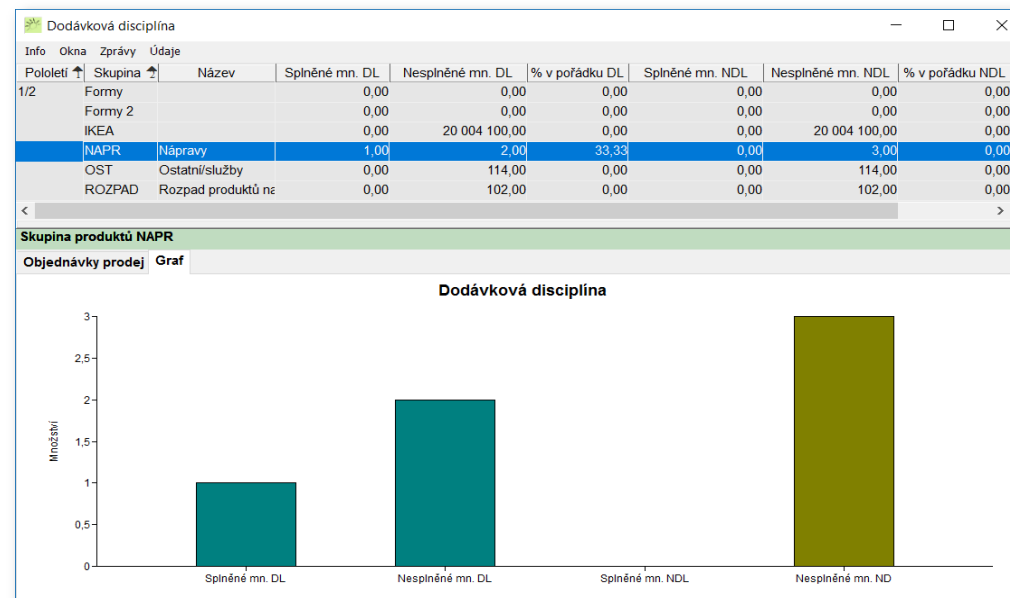
We order
material

We produce

We deliver

We evaluate

- **OTD = On Time Delivery** is a timely delivery to the customer, the parameter is an important supplier rating indicator.
- In the case of a problem with deadlines, it is necessary to present an action plan to improve deliveries.



We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- Documents are delivered as standard in printed or electronic form (EDI) to the delivery.

DELIVERY NOTE			
Supplier : SPOLČNOST s.r.o. Úlice 23 PSC Město Česká republika ID : 111111111 VAT: CZ111111111		Date : 05.01.2016 Contract No. : 1515617 Order No. : 1 Invoice No. : 1201600007 Cancel shipping note No.:	
Tel: +420 111 222 333 Fax: +420 111 222 334 E-mail: obchod@spolcnost.cz		Customer: Industrial Engineering s.r.o. Svatopluka Cechu 1934/58 612 00 Brno Česká republika ID : 29186676 VAT: CZ29186676 Tel: 724602054 Fax: E-mail:	
Consignee : Industrial Engineering s.r.o. Svatopluka Cechu 1934/58 612 00 Brno Česká republika ID : 29186676		Name: Fax:	
Description of goods		Order No.	Contract No.
1 320039-001600 Canvas VZ 32 ALU "EXPRESS" / 1,60 m complete with cons.		1515617-01	1,00 pcs
2 327336A-000000 Trailer VZ 32 B2 ALU EXPRESS, 2000 kg, corner posts, open front VIN: TKX3220EAB9399 + nearest hole is 0,08mm			1,00 pcs
Confirmation: the goods properly delivered			
Supplier : _____ (date, signature, name)		Customer : _____ (date, signature, name)	

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• Delivery note

INVOICE							
Supplier : SPOLČNOST s.r.o. Úlice 23 PSC Město Česká republika ID : 111111111 VAT: CZ111111111 Firma zapísaná v OR u KS v Brně, odd.C, vložka 0000. Tel.: +420 111 222 333 Fax: +420 111 222 334 E-mail: obchod@spolcnost.cz				INVOICE No. : 1201600912 Delivery note : 16EXTD00528, 16EXTD00529 Contract No. : 1610053 Order No. : Advance payment :			
Bank : ČSOB Account num: 99988777 / 0300 SWIFT : CEKO CZ PP				Customer : MONTY, spol. s r.o. Lidická 434/15 36001 Karlovy Vary - Drahotovice Česká republika ID : 47714664 VAT: CZ47714664 Tel.: 353 566 517 Fax: 353 566 517 E-mail: monty.gemco@monty.cz			
Consignee : MONTY, spol. s r.o. Lidická 434/15 36001 Karlovy Vary - Drahotovice Česká republika ID : 47714664				Payment type : Terms of payment : 14 days Type of transport : Place of destination: Date of issuance : 04.10.2016 Expiration date : 18.10.2016			
Item	Description of goods	Customs code	Origin	Quantity	Unit price	Unit price/ Delivery note	Total price
Order No.						Rabat	Weight Net(kg)
1	NP275-00000 - 001 - 9 PRIVE'S HANDY 7 M, 780 KG-PLACHTA 1,33 M AKCE+OP.KOLEČKO		HANDY T	1,00pcs	17 200,00	12 230,74 16EXTD00529	12 230,74 139,00
	NP27500-000000 Canvas HANDY 7 / 6,92 m complete			1,00pcs	4 455,00	3 136,32	3 136,32
	VIN: TKXHA1175GANB3433						
2	NP275-00000 - 001 - 8 PRIVE'S HANDY 7 M, 780 KG-PLACHTA 1,33 M AKCE+OP.KOLEČKO		HANDY T	1,00pcs	19 772,00	13 919,48 16EXTD00528	13 919,48 139,00
	VIN: TKXHA1175GANB3432						
						31 652,70	
Rounding						0,30	
Total						31 653,00	
Amount to be paid :						31 653,00 Kč	
Město, 04.10.2016				Gemco @:			
Signature, stamp				Signature, stamp customer			

Page: 1 / 1 Informační systém myGEM www.gemco.cz

• Invoice

MES PRODUCTION PARAMETERS

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

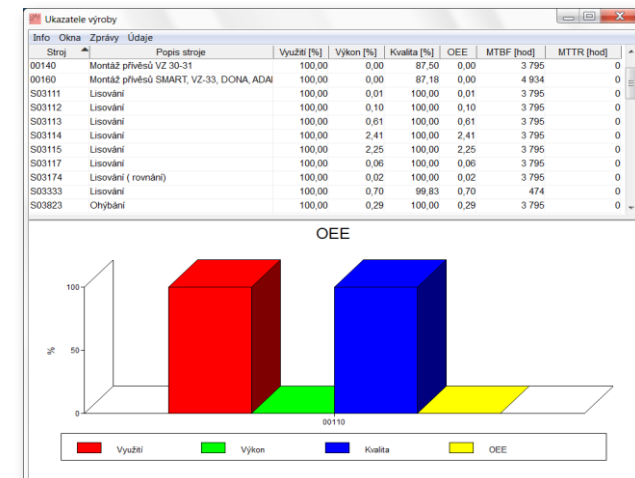
We order
material

We produce

We deliver

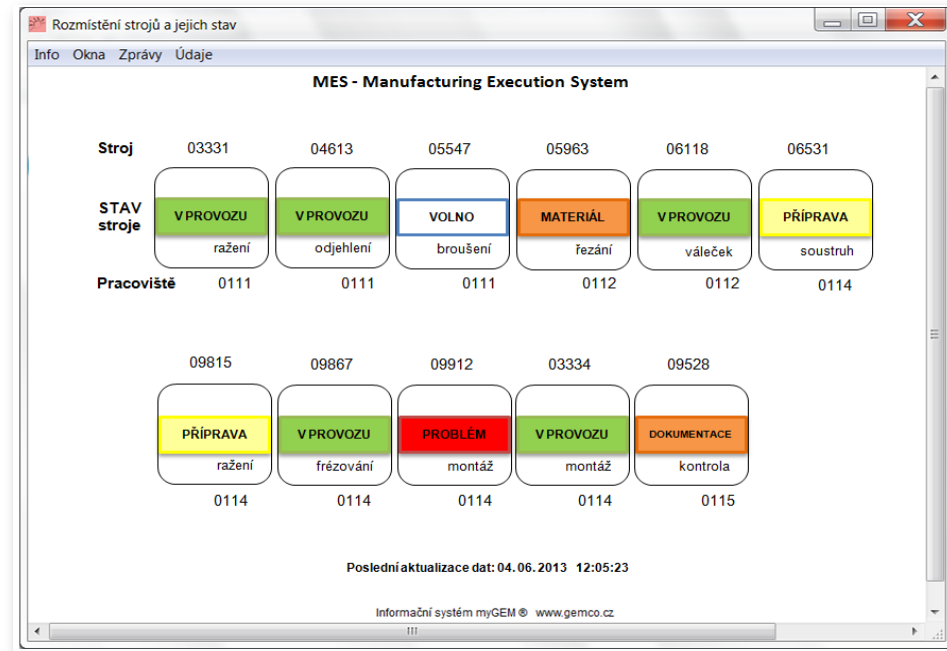
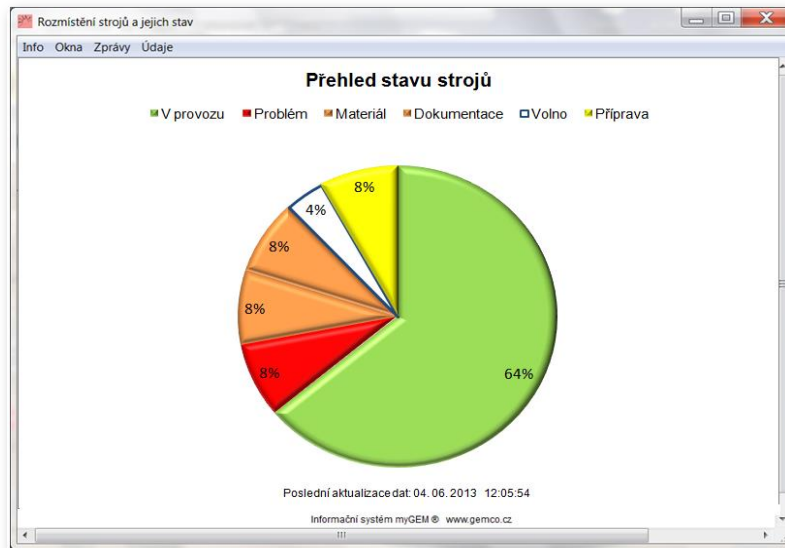
We evaluate

- We monitor a number of parameters, among standards belong:
 - **OEE – Overall Equipment Efficiency**
 - **MTBF – Mean Time Between Failure**
 - **MTTR – Mean Time To Repair**
 - **Utilisation** of machinery and equipment in %
 - **Performance** of machinery and equipment in %
 - **Production quality** in %





- For production planning and the security of deliveries in time, it is necessary to ensure reliable operation of all equipment.
- Visualisation and overviews about machines are the basis of predictive maintenance.



ECONOMIC EVALUATION OF THE CONTRACT

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

We order
material

We produce

We deliver

We evaluate

- The order is evaluated after realization, more detailed evaluation is solved in the Planning and Controlling module.
- Evaluation can be done from many perspectives and dimensions. These tasks are always tailored to specific requirements.

Ekonomické vyhodnocení

Info

Okna

Zprávy

Údaje

Ekonom. objekt

Smlouva

Objednávka

Odběratel

Položka

Proveden

Název

Ident

Množství

Náklady úplné

Fakturace

Rozdíl

1516105

7816/11397

AGADOS GmbH

32T330/A-000000

0

PRÍVĚS VZ-32 EXPRESS ROH SLOUPKY B2 AL +

10,00

343 616,04

1516106

SE-order 4186

Westbay Trailers AB

6702N-000000

19

PRÍVĚS ADAM 12 B2, 3000 KG (2.1x4,15M) - VALN

1,00

99 397,12

1516109

1067

AUTOVIA s.r.o.

3407C-000000

2

PRÍVĚS ATLAS B2,2700kg R.H. P.ČELO,PR. PODL.

1,00

78 252,11

1516111

1069

AUTOVIA s.r.o.

41T090/A-000000

0

PRÍVĚS VZ-41 EXPRESS ROH SLOUPKY B1 AL +

1,00

39 721,21

1516113

1071

AUTOVIA s.r.o.

3011B-000000

001

PRÍVĚS VZ-30 B2 + POČ. HRAZDA, 2700 KG

1,00

38 994,28

1516114

1072

AUTOVIA s.r.o.

3363A-000000

0

PRÍVĚS VZ-33 B2 + POČ. 2700 KG - 10"

1,00

49 965,06

1516115

1073

AUTOVIA s.r.o.

3364C-000000

0

PRÍVĚS VZ-33 B2 + POČ. 2700 KG- VK

1,00

46 225,86

1516116

1074

AUTOVIA s.r.o.

41T090/A-000000

0

PRÍVĚS VZ-41 EXPRESS ROH SLOUPKY B1 AL +

1,00

39 721,21

1516117

1075

AUTOVIA s.r.o.

41T350/A-000000

0

PRÍVĚS VZ-41 EXPRESS ROH SLOUPKY B2 AL +

1,00

47 938,10

1516118

1076

AUTOVIA s.r.o.

41T350/A-000000

0

PRÍVĚS VZ-41 EXPRESS ROH SLOUPKY B2 AL +

1,00

47 938,10

1516122

1077

AUTOVIA s.r.o.

41T350/A-000000

0

PRÍVĚS VZ-41 EXPRESS ROH SLOUPKY B2 AL +

1,00

47 938,10

A

Zakázka

Středisk

Datum za

Datum uko.

Množství

Náklady skut.

Režie výrobní

Náklady výroby

Režie správní

Režie prodejní

Ost. náklady

Náklady úplné

U

1516105-02

M

15.12.2015

15.01.2016

10,00

256 277,84

2 986,55

259 264,39

0,00

0,00

0,00

259 264,39

Přehled odvodu

Doklad

Množství

Datum

1510003995

1,00

15.12.2015

1510004020

1,00

16.12.2015

1510004055

1,00

18.12.2015

1510004055

1,00

18.12.2015

1510004055

1,00

18.12.2015

1510004055

1,00

18.12.2015

1610000011

1,00

05.01.2016

1610000011

1,00

05.01.2016

1610000027

1,00

06.01.2016

1610000027

1,00

06.01.2016

Přehled expedice

Dodací list

Mn. exped.

Faktura

Mn. faktur.

Cena bez DPH (Kč)

Cena bez DPH

Měna

Prodej. zakázka

16EXZD000005

1,00

2201600001

1,00

34 361,60

1 271,71 EUR

1516105-02

16EXZD000005

1,00

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1 271,71 EUR

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16EXZD000005

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1,00

34 361,60

1 271,71 EUR

1516105-02



- Most companies have a credit at the banks, which usually require reports of key indicators.
- We provide the following indicators as a standard:
 - **Current liquidity**
 - **Return on sales**
 - **Short-term liquidity**
 - **Long-term debt**
 - **Total debt**
 - **Inventory turnover from sales**
 - **Maturity of payables/receivables**
 - **Expenses**
 - **Average daily sales**
- Option for reporting on other indicators according to **user definition**.

STAV FIRMY

We are dealing
with a potential
customer

We are checking
options

We have won, we
start fulfillment

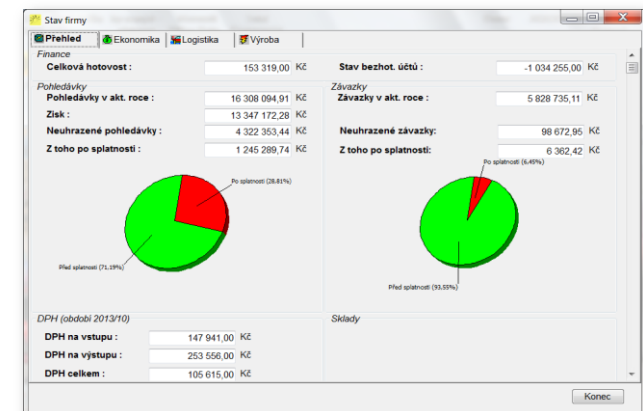
We order
material

We produce

We deliver

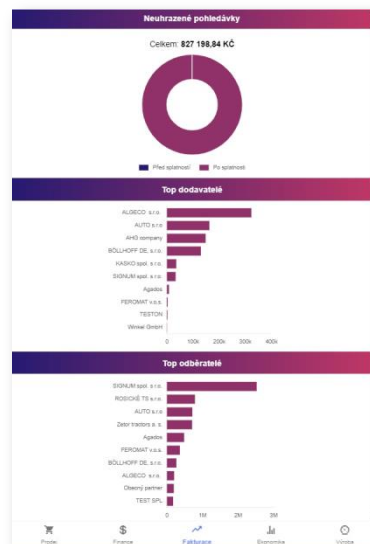
We evaluate

- **Quick overview of the current status of the company**, designed especially for leadership. The option of viewing on devices such as tablets, mobile phones, etc.
- It offers:
 - **General overview – status:**
 - cash
 - cashless accounts
 - assets and liabilities, including maturity
 - profit
 - VAT
 - inventory
 - **Economics – status:**
 - selected accounts
 - financial flows
 - costs and revenues
 - economic results





- **Logistics** displays a detailed overview of:
 - the status of individual stocks,
 - top 10 (customers/suppliers),
 - real-time expedition.
- **Production** provides an overview of **current contracts** and their **state of development in %**.



SOME BENEFITS



Current overview
of processes and
business parameters that
are important for
management (sales
analysis, supply
discipline, workplace
efficiency ...)



**Extensive use of
barcodes and mobile
technologies**
online receipt, dispatch,
moving materials,
products, transaction
logs, expeditions ...



**Fast mastering of
software solution =
security of investment**



**Integration of web
applications and
partners**
(EDI, web portal solutions
for communication with
suppliers, customers ...)



**The tool for managing
all realisation
processes**
from offer /demand,
contract, TPV, purchase,
detailed planning,
production records to
expedition



**Cost savings and higher
performance!**
Optimizing the staff in
selected areas, integrating
suppliers, improving
warehouse management,
expeditions ... and
significantly boosting
company performance with a
suitable software application!



**Quality data, the
starting point for
improvement!**
process data provide
valuable information for their
further development; e.g.
workplace efficiency and
analysis
of waste resources
(downtime, manipulation ...)



**... and many other
solutions!**

AGADOS, spol. s r.o.

- **The entire realisation process** from trade, development to delivery is **fully covered** by the information system.
- **Fulfillment of individual requirements** with **product configurator**.
- **Increase of production by 100%** with minimal increase in technical and workers' personnel.
- Fast communication with the client – **interconnection myGEM to the web** – for new products and spare parts.
- **Saving workers** when processing COC sheets, technical cards and communication on central records.
- Gradual **shortening of deliveries**.
- And many others ...

REFERENCES



■ **AGADOS, spol. s r.o.**



■ **EBZ Hoffmann s.r.o.**



■ **DFK Cab, s.r.o.**



■ **EUROWAGON, s.r.o.**



■ **4 COILS TECH s.r.o.**

and many other companies ...

- Examples of **myGEM product security** solutions:
 - compatibility with the latest valid version of operating systems (MS Windows, Windows Server, Oracle Linux) and new versions of databases
 - implementation of TLS 1.3 security protocol for safer communication and higher performance with web services for communication with external entities
 - implementation of OAuth 2.0 authentication, multi-factor login
 - direct SOAP and REST API support for communication with modern web services
 - support for generating 64-bit applications
 - new tools for CI/CD (acceleration of software delivery time)
 - use of new, more secure encryption algorithms
 - support for the security of multi-layer applications using the latest valid versions of .NET CORE
 - increasing the security of one's own database against attacks by attackers – e.g. monitoring possible attacks
 - and many other tools and rules...

MYGEM LEARN

- **The supplier provides training throughout the use of myGEM.**
- Training takes place according to regularly posted dates or at the user's request.
- The training is designed to develop the knowledge of existing and new myGEM users.
- The trainings are divided into several levels:
 - **beginner**
 - **self-employed clerk**
 - **specialist**
 - **trainer**
- The effectiveness of the training is supported by the fact that the training takes place on specific model data, which allows to present and understand exactly the meanings, contexts and importance for the smooth running of the whole process.
- The trainee will receive suitable materials in the form of presentations, instructions for specific functions (if needed) and a certificate of competence achieved.
- The supplier also keeps track of **the list of trained workers and their achieved competencies for a specific client.**
- The mentioned procedure helps a lot in the **development and sustainability of the myGEM system.**

- The quality of our work is regularly audited by independent certification companies.



WE ARE LOOKING FORWARD TO COLLABORATE WITH YOU!

- We are an experienced team and we work for you!



GEMCO

www.gemco.cz

