

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**



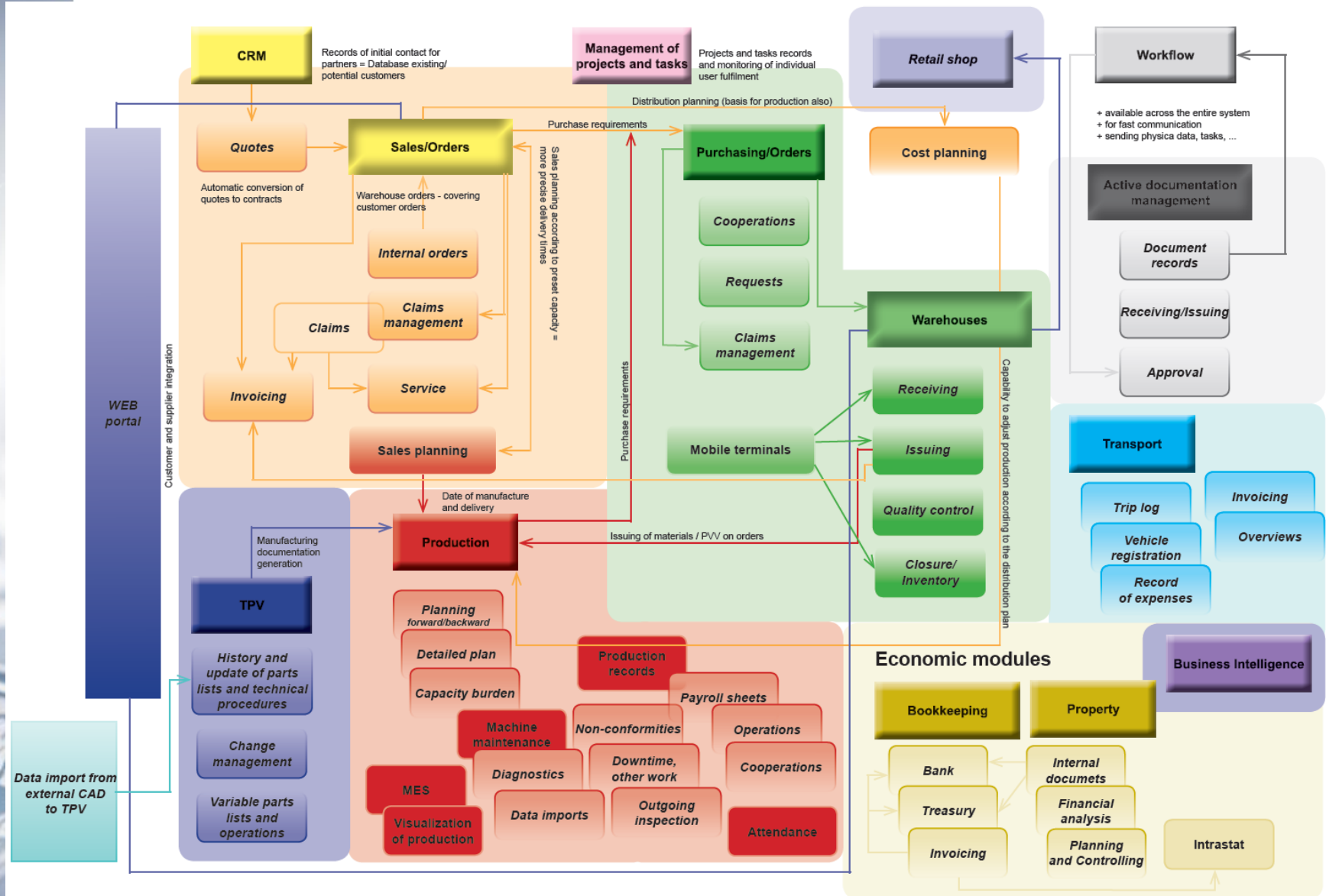
**Solutions**



**Dynamics**

- Analysis
- Consultation and training
- ERP myGEM

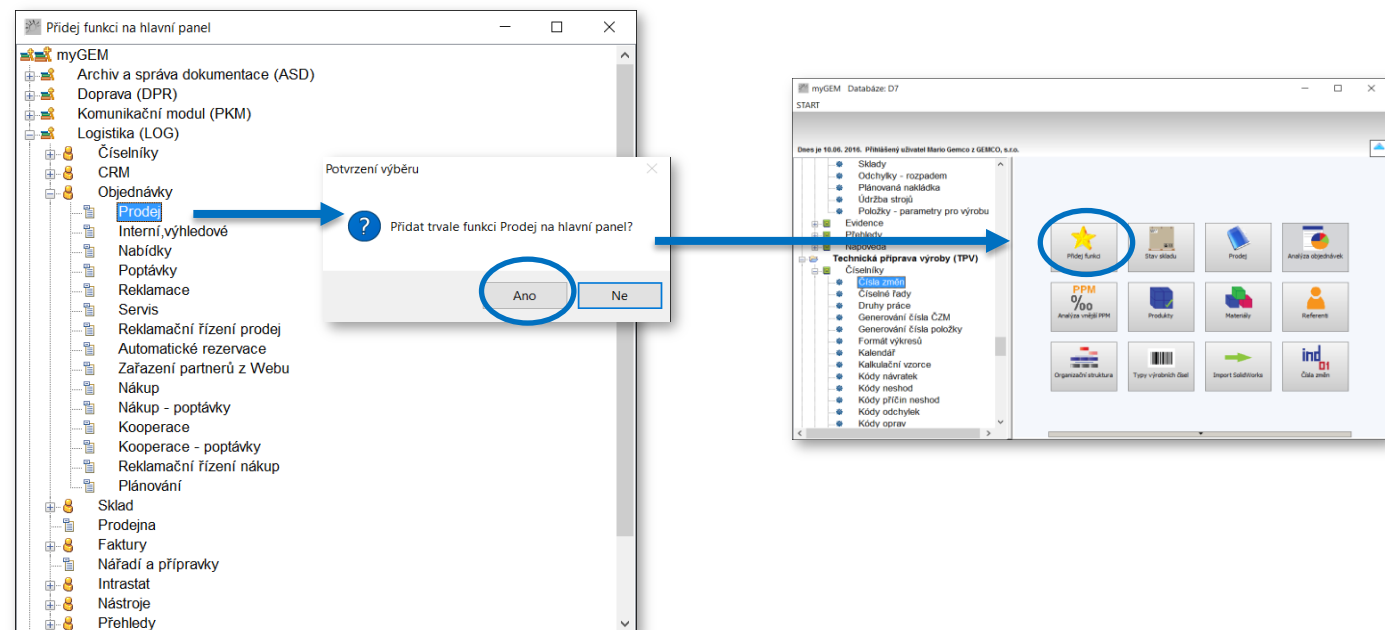
# myGEM DIAGRAM



- 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 (MES)
- ...

# WORKSPACE

- 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



## ■ 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 Silver partner**.



- 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“

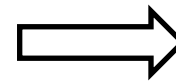
- It is about the basic environment in which users work. For its work high-performance object-oriented tools for enterprise application development are used.



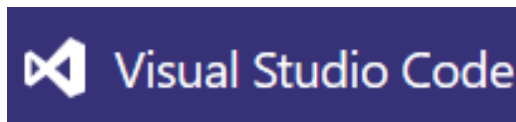
# TECHNOLOGY myGEM = INVESTMENT PROTECTION

- „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.

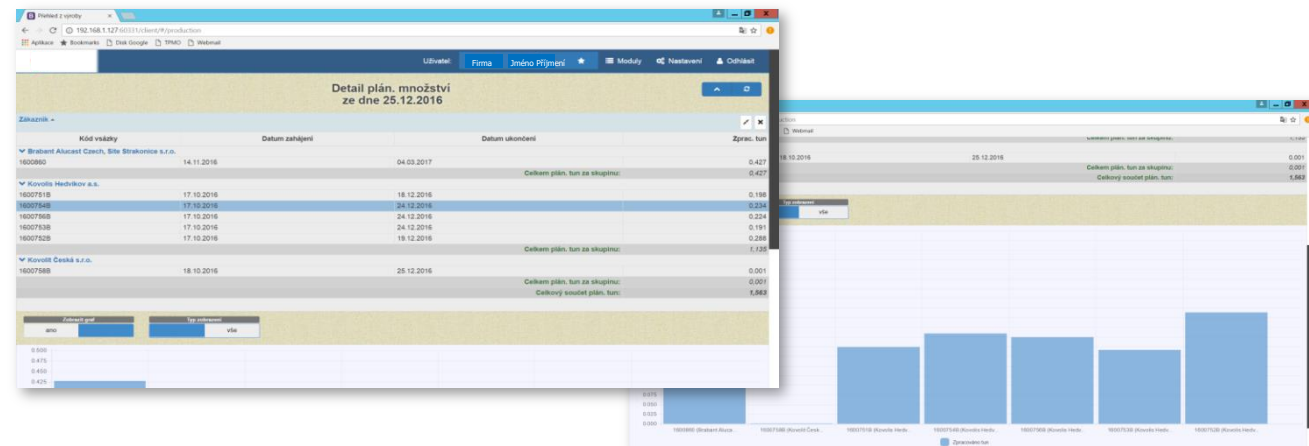




- **Product Configurator – rapid creation of virtual product according to the specific customer needs**
- **Loading and packaging solutions**
- **COC sheets (Certificate Of Conformity)**
- **Technical cards printed online, exporting to a central database**
- **Dispensing dose and mobile terminals, barcodes 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.



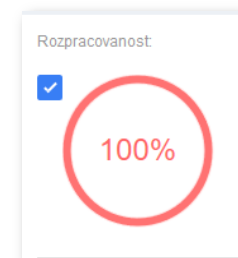
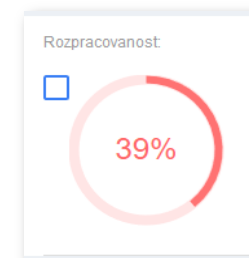
- An example of using Project and Task Management on Mobile.

The screenshot shows the login screen for 'myGEM projekty'. It includes a form with fields for 'Uživatelské jméno' (Username) and 'Heslo' (Password). There is a 'Přihlásit' (Login) button and a checkbox for 'Zapamatovat údaje' (Remember me).

• Log in

The screenshot shows the 'Úkoly' (Tasks) window. It lists tasks with their status, priority, and due date. The tasks are: 'Ost0205 Vytvoření návody Ekonomické ukazatele', 'EV90028 Zpracovat manuál EVST', and 'TS0002 Regresní testování'. Each task has a 'Zahájeno' (Started) button.


• Task Management window



• Editing of task completeness



- 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**.



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

- **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

myGEM

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- 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

Info	Ozna	Zprávy	Údaje	Součástky
P	OV	SZ	Aktivní	SND SP
F	SRO		<input checked="" type="checkbox"/>	001292
S	SRO		<input checked="" type="checkbox"/>	001309
S	SRO		<input checked="" type="checkbox"/>	001388
S	SRO		<input checked="" type="checkbox"/>	001407
S	SRO		<input checked="" type="checkbox"/>	001428
S	SRO		<input checked="" type="checkbox"/>	001429
S	SRO		<input checked="" type="checkbox"/>	001695
D	SRO		<input checked="" type="checkbox"/>	0117.500
D	SRO		<input checked="" type="checkbox"/>	0120.900
D	SRO		<input checked="" type="checkbox"/>	0400.390
D	SRO		<input checked="" type="checkbox"/>	0400.810
S	SRO		<input checked="" type="checkbox"/>	0400.820
S	SRO		<input checked="" type="checkbox"/>	0400.830
D	SRO		<input checked="" type="checkbox"/>	3232.010
F	SRO		<input checked="" type="checkbox"/>	32505U01
S	SRO		<input checked="" type="checkbox"/>	32505U01-30-001_02
D	SRO		<input checked="" type="checkbox"/>	32505U01-30-003
S	SRO		<input checked="" type="checkbox"/>	32505U01-30M001
D	SRO		<input checked="" type="checkbox"/>	4201.490
D	SRO		<input checked="" type="checkbox"/>	4501.970
D	SRO		<input checked="" type="checkbox"/>	4823.180
S	SRO		<input checked="" type="checkbox"/>	5000121
S	SRO		<input checked="" type="checkbox"/>	5003671
S	SRO		<input checked="" type="checkbox"/>	5004778
D	SRO		<input checked="" type="checkbox"/>	6013.010
D	SRO		<input checked="" type="checkbox"/>	6020.012
D	SRO		<input checked="" type="checkbox"/>	6104.797
D	SRO		<input checked="" type="checkbox"/>	6351.780

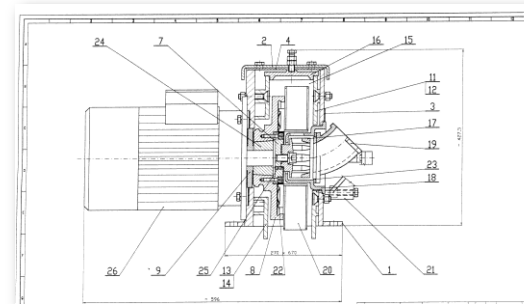
  

Kusovník	Operace	Nářadí	Inverzní kusovník	Variantní kusovník
P	SZ	Op	Op	Op
2	Z	KRO 000001	32505U01-30-001	1.0000000
2	Z	KRO 000002	001428	1.0000000
2	Z	KRO 000003	001429	1.0000000
2	Z	KRO 000004	001407	1.0000000
2	Z	KRO 000005	001388	1.0000000
2	Z	KRO 000006	001695	1.0000000
2	Z	KRO 000007	001309	1.0000000

Kusovník	Operace	Nářadí	Inverzní kusovník	Variantní kusovník
P	SZ	Op	Op	Op
3	TRO 010	00	116	09422
3	TRO 020	00	112	26356

- Bills of Materials items, operations



- Enclosed documentation

TPV - Historie položky "51242" s provedením "0"

Info	Ozna	Zprávy	Údaje	Variantní kusovník	Variantní operace	Další dokumentace
P	SZ	Op	Op	Op	Op	Op
0	M	KUK 000004	30513	Průchodka závitky EURO NT	1.0000000	1.0000000
0	M	KUK 000005	30514	Průchodka prům. 30	1.0000000	1.0000000
0	Z	KUK 000006	10477	Plášťový spoj AEK-802-009	1.0000000	1.0000000
0	Z	KUK 000008	10186	Plášťový spoj AEK-24	1.0000000	1.0000000
0	Z	KUK 000009	10413	Plášťový spoj AEK-801-003	1.0000000	1.0000000
0	Z	KUK 000010	10350	Plášťový spoj AEK-802-003	1.0000000	1.0000000
0	M	KUK 000011	32403	Ventil plynový 24V s filtrem	1.0000000	1.0000000
0	Z	KUK 000013	11493	Trafo hlavní KIT 400 CUAL vyráběné	1.0000000	1.0000000

- Item history

# TPV EXAMPLE

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".

Info	Okna	Zprávy	Údaje	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	01.01.2013	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				SEROVE_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

Info	Okna	Zprávy	Údaje	Součástky	Položka	Provedení
P	OV	SZ	Aktivní	SND	SP	
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				000NSO	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

Info	Okna	Zprávy	Údaje	Součástky	Položka	Provedení
P	OV	SZ	Aktivní	SND	SP	
S	SRO				6V9 804 475 N	240113TM01 Buegen
S	SUK				6V9 804 475 VD	240113TM01 dokument
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



- 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

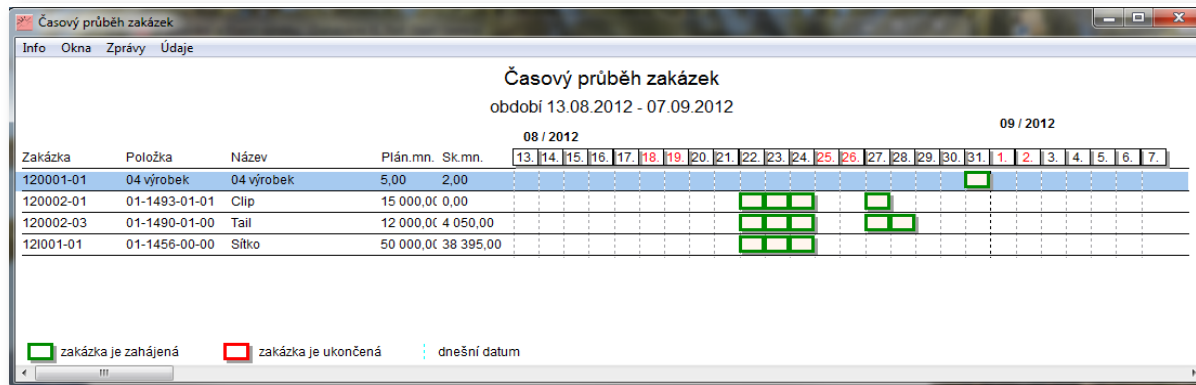
We order  
material

We produce

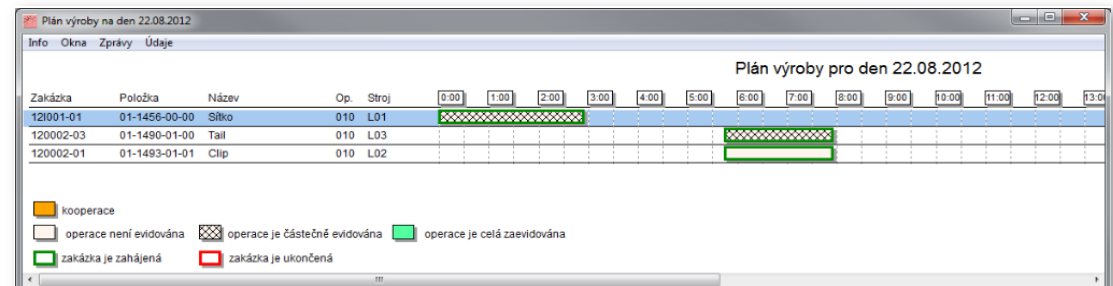
We deliver

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



# PRODUCTION VISUALISATION

We are dealing  
with a potential  
customer

We are checking  
options

We have won, we  
start fulfillment

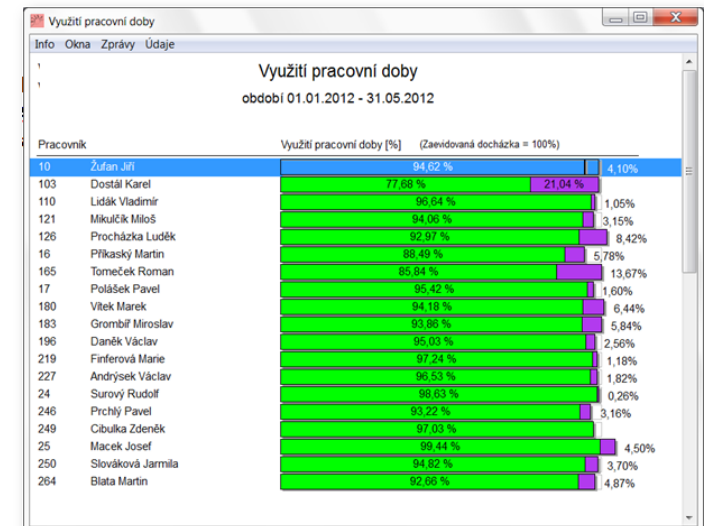
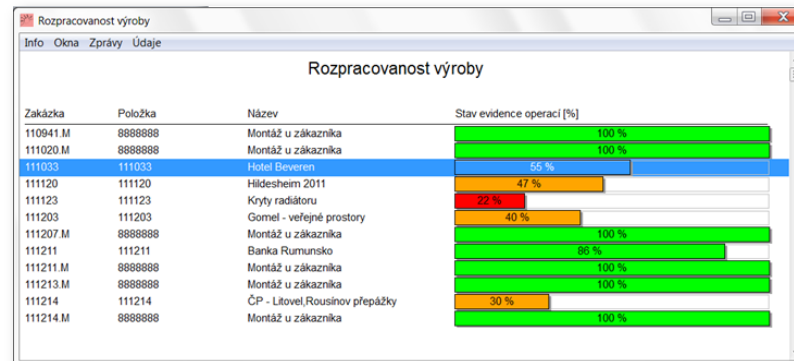
We order  
material

**We produce**

We deliver

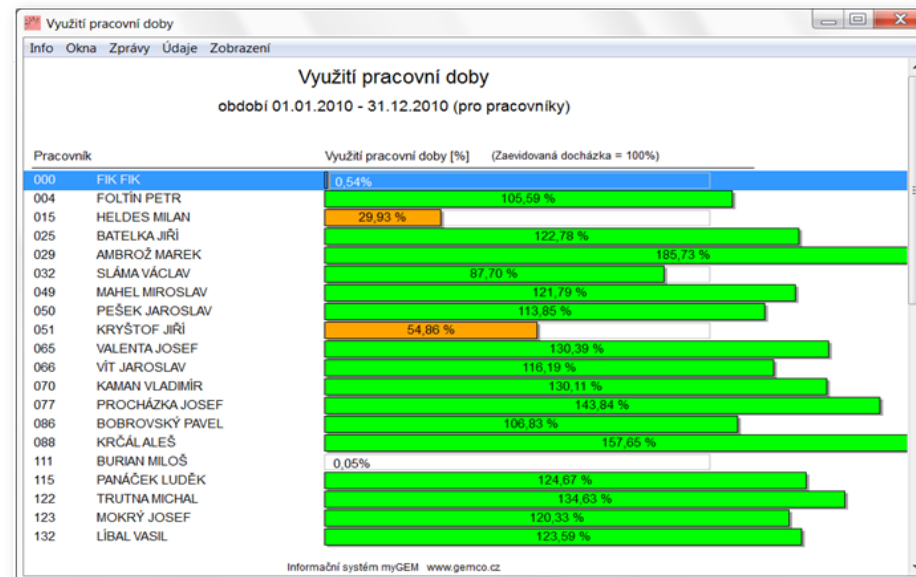
We evaluate

- 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.





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



- Utilisation centre

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

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

Odvod hotové výroby  
období 01.01.1900 - 01.01.2100

Období	Množství	Hodnota	
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	1 645 861,67 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

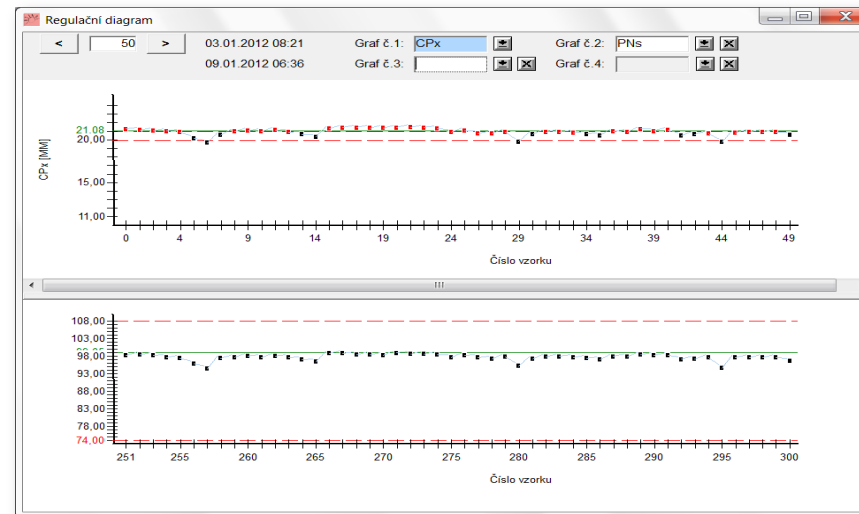
- Output of finished production

# DISPLAYING OF TRACKED VALUES

myGEM



- 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.



- *On-line snímání dat ze stroje*

# MES PRODUCTION PARAMETERS

We are dealing  
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customer

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options

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start fulfillment

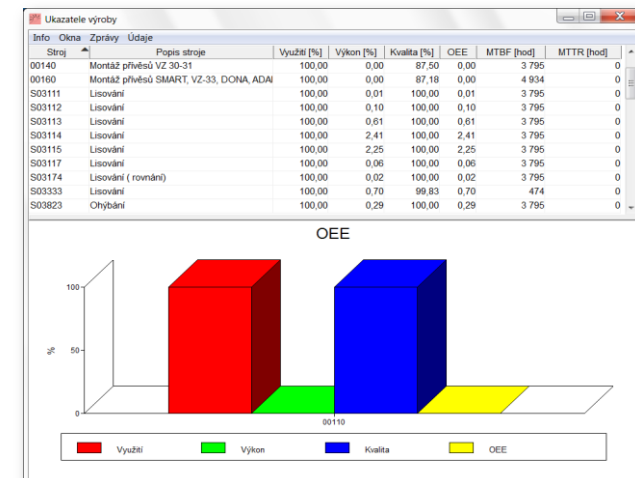
We order  
material

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 %





# MES OVERVIEW OF PRODUCTION MACHINES STATUS

**myGEM**

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start fulfillment

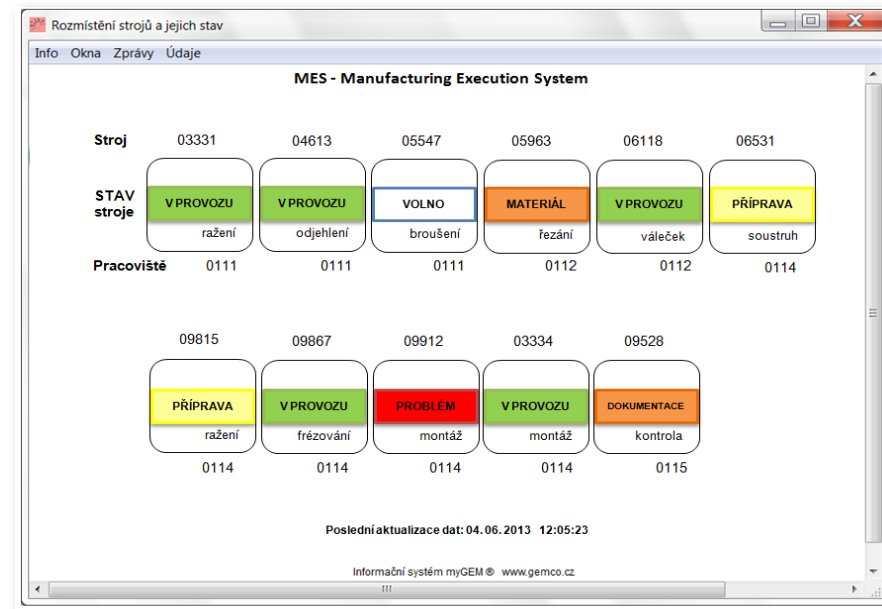
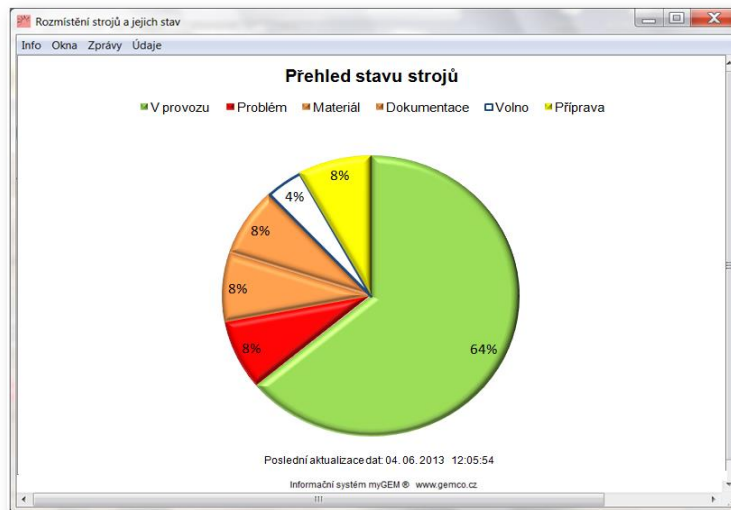
We order  
material

We produce

We deliver

We evaluate

- 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.



# EXAMPLES OF OTHER MODULES

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



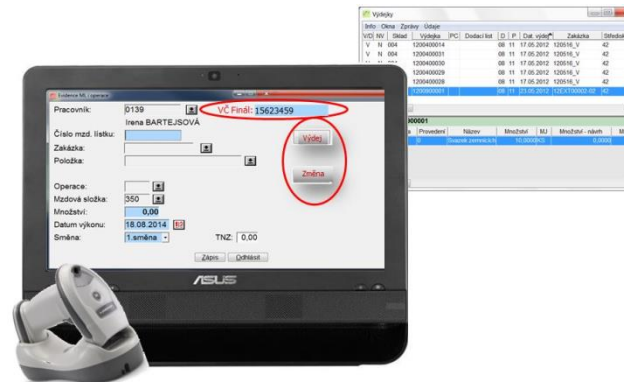
- This is the effective use of mobile devices such as tablets in production and the sharp reduction in paper documentation. Documents and myGEM functions for each **role** are available on the device, for example: **production manager, foreman, labourer, inspector, warehouse worker, expedition worker**, 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

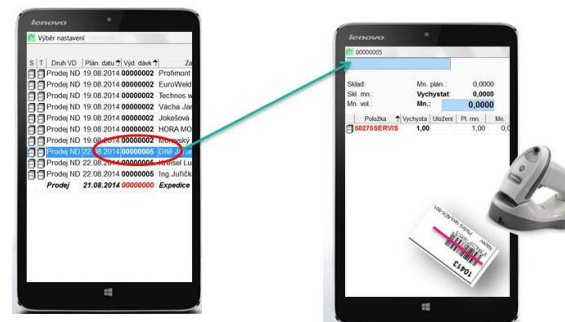
- In common practice happens that documents are created in more systems. It can be mentioned as an example PLM for the graphic editors CATIA, SolidWORKS. To make production work with the right data, we have developed simple **communication between the various external editors and the TPV module**. Each 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](http://www.kardex-remstar.cz)

# 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.

## 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 ...



# SOME BENEFITS

- **Current overview**
  - of processes and business parameters that are important for management (sales analysis, supply discipline, workplace efficiency ...)
- **Fast mastering of software solution = security of investment**
- **The tool for managing all realisation processes**
  - from offer /demand, contract, TPV, purchase, detailed planning, production records to expedition
- **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 ...)
- **Extensive use of barcodes and mobile technologies**
  - online receipt, dispatch, moving materials, products, transaction logs, expeditions ...
- **Integration of web applications and partners** (EDI, web portal solutions for communication with suppliers, customers ...)
- **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!**

... and many other solutions!



- AGADOS, spol. s r.o.



- KOVOVÝROBA HOFFMANN, s.r.o.



- EVEKTOR, spol. s r.o.



- EUROWAGON, s.r.o.



- MESIT asd, s.r.o.

and many other companies ...

WE ARE LOOKING FORWARD TO COLLABORATE WITH YOU!



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