M2M SOLUTIONS

eKANBAN

Electronic KANBAN

MORE POWER, LESS CHAOS
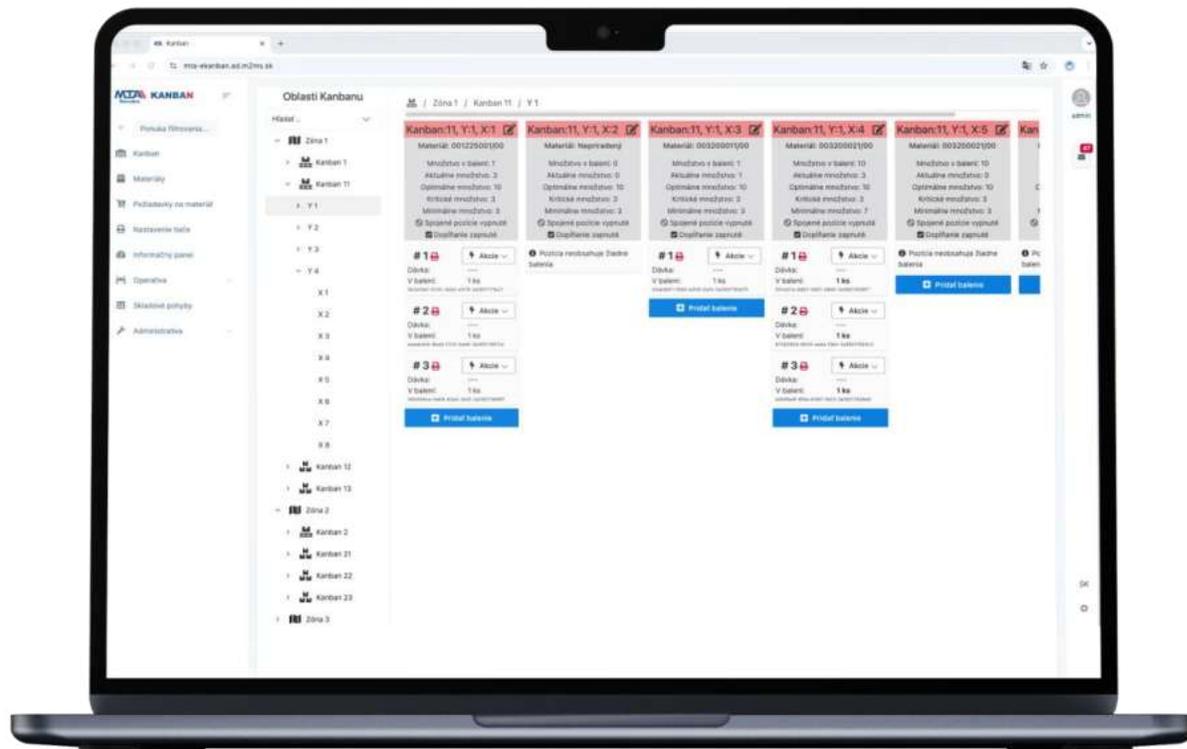
+ 25% — higher worker productivity

- 20% — less inventory and more free cash

- 3 — people available for more meaningful work

M2M SOLUTIONS

BASIC ADVANTAGES OF eKANBAN

- Real-time overview of current stocks
- Automatic ordering of material in efficient batches
- Minimization of errors
- Possibility of immediate changes

PROBLEMS

- Cards get lost, causing supply shortages

- When lost cards are found, there is an excessive replenishment of material

- Every change requires manual action (printing new cards, disposing of old cards)

- No online overview of stock levels. Stock levels can only be checked physically and on site

SOLUTIONS

- We replaced the paper Kanban cards with a digital system and scanners. Each package has a unique number

- Automatically communicates with SAP, orders materials and reports shortages

- Inventory is visible in real time on screens, tablets and mobile

- Every change in the system is electronic and immediately functional

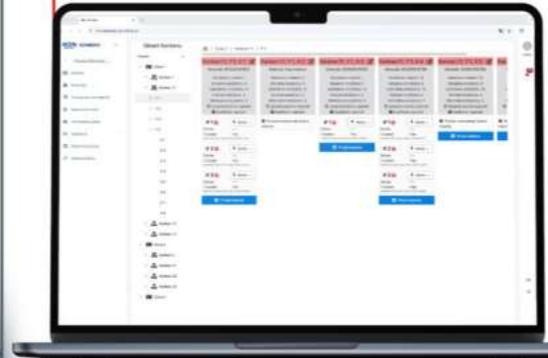- Simplifies work with clear navigation, multilingual environment and error checking

M2M
SOLUTIONS

TRADITIONAL KANBAN

- Physical cards

- Slower work speed (manual tasks)

- High error rate (human factor)

- Cost savings - limited

eKANBAN

- Digital system

- More efficient work (automation)

- Minimal errors

- Cost savings - high

eKANBAN

UNIQUE ADVANTAGES

- **ERROR ELIMINATION** - Track material flow with a unique number on each package

- **AUTOMATIC STOCK OPTIMIZATION** - Automatic material orders directly from SAP with an emphasis on optimal quantities

- **READY FOR FUTURE TECHNOLOGIES** - Easy integration with scanners, autonomous robots, RFID chips and smart camera systems

- **EASY AND FAST IMPLEMENTATION** - Designed for standard replenishment, enabling immediate deployment in warehouses

FIELD-PROVEN, READY TO SCALE

- Ready for expansion to other companies
- Fully integrated with SAP

POST-IMPLEMENTATION EFFECT - SAVINGS

#	ACTIVITIES	SAVINGS			OPTIMISATION OF SPACE
		DIRECT INVESTIGATION	INDIRECT SAVINGS	JOB POSITION	
1	To prevent errors by checking of the picking process		X	All Roles	
2	Significantly reduce activities linked to maintain Kanban process	X		Kanban operators and operators	X (elimination of the Kanban boards)
3	Reduction the activities related to print and maintain Kanban cards	X		Team leader	
4	Elimination of indirect losses caused by losing kanban cards by operators		X	Warehouse Material Flow Operator	
5	Eliminate all hidden costs due to errors caused by the lack of discipline of operators in manual kanban		X	Warehouse Material Flow Operator	
6	Elimination of picking errors, double picking control (optional to use the System Vision)		X	Operators Assembly	
7	Elimination of the time (assembly operators) required for manual data entry of materials (mat. code, batch, quantity) *option with the system Production planning and tracking solution	X		Operators Assembly	
8	Elimination of the time required for handling kanban cards (the need to go to the kanban board and assign the card to the holder	X		Operators Assembly and Warehouse Material Flow Operator	
9	Optimize timely replenishment of goods to the production area	X		Warehouse Material Flow Operator and Logistics Transporter	X (reduction of stocks in production area)

#	ACTIVITIES	SAVINGS			OPTIMISATION OF SPACE
		DIRECT INVESTIGATION	**INDIRECT SAVINGS**	**JOB POSITION**	
10	Speed up the picking process	X		Warehouse Operators	
11	Inventory management in the production area with Real-time inventory status		X	All Roles	X (reduction of stocks in production area)
12	Notification for the operators in the warehouse about material under critical quantity		X	Warehouse Operators and Teamleaders	X
13	Directly inform production and logistics online on time about material shortages, allowing for the effective rescheduling of production in advance without downtime	X		Warehouse Material Flow Operator and Logistics Transporter and Teamleader	X
14	Elimination of inspection activities during the night shifts (team leader and operator) which takes approx. 75 minutes for two employees together (2.5 man-hours per day)	X		Teamleader and Operators	
15	Increase process efficiency	X		All Roles	
16	Significant reduction of space for kanban materials in production area		X		X
17	Optimize internal transport between the pallet`s warehouse and production area	X		Logistics Transporter	X
18	Reduce requirements for operators' paperwork and operators' qualification *option in the future with the system ORS (Operators Resource System)	X		Quality Management	
19	Save training time new employees more than 50%	X		Quality Management	

WHAT WE PLAN NEXT

2027 — Deployment of automatic material identification (camera system, RFID)

2028 — Using data analytics for better inventory planning

2030 — Introducing augmented reality for even easier work in the warehouse

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