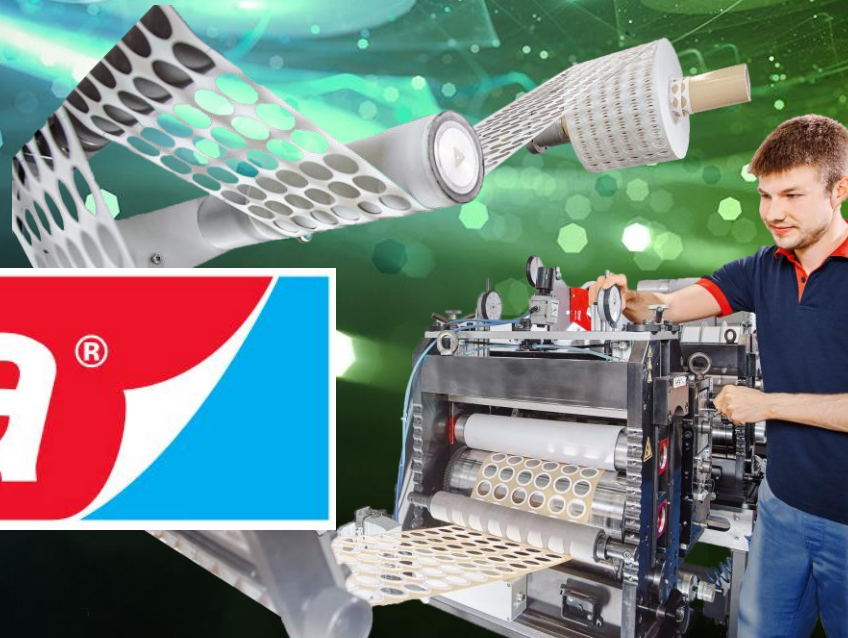


theurer.com

Increasing material efficiency with ERP and AI planning

presented by

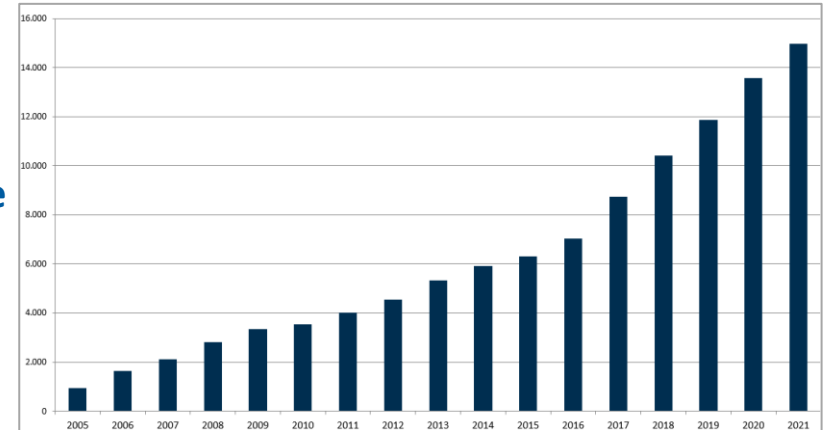


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ERP/MIS Software for the Print & Packaging Industry

C3 ERP/MIS by theurer.com

- The leading industry software for the printing and packaging industry.
Roll manufacturing & Converting
- Focus: labels, flexible packaging, films, cardboard packaging
- 200+ customers in over 30 countries and more than 16,000 users
- 60 employees at 2 locations in Freiberg near Stuttgart
- Steady growth: Company and installed base
- First version 1996: POS - C1 ... C3 –
C3.2012 ... C3.2020



References



All4Labels
GLOBAL PACKAGING GROUP



permapack



KLEINER
FLEXIBLE PACKAGING



Rottaprint®

CCL



ETIKON

Hagmaier
Etiketten & Druck

Tovenca
Topflight International



selloplast
WINE & FOOD PRINTING LABELS

Aleithe
Haftetiketten GmbH

STÄUDLE

inovalabel
labels & labeling technology

BISCHOFF
label engineering

insignis
etiketten

robos
labels

AL PACK
GROUP

CySa-Pak
Flexible Verpackungen

Ródenas & Rivera
TRANSFORMACIÓN DE PLÁSTICOS



PROMATERIS

boran
packaging



delo

Why Material Efficiency?

Material costs are the largest cost type in many Industries.

Great potential to reduce costs.

High return with low investment.

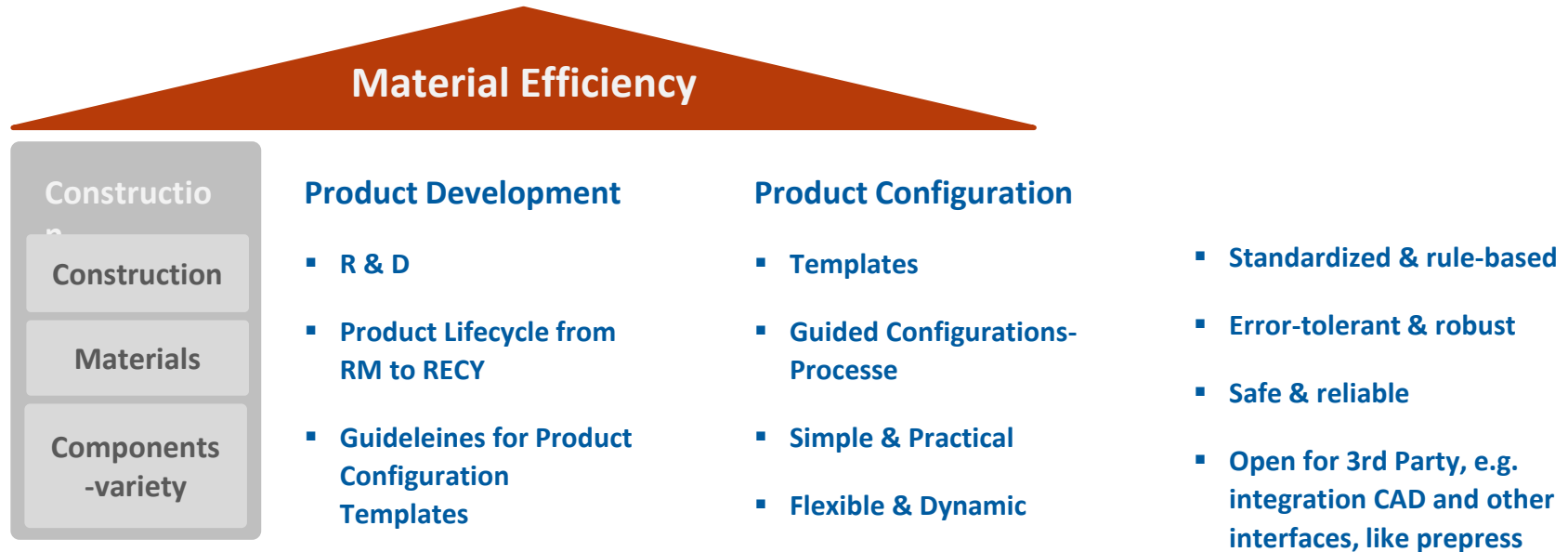
50 % Films & Plastics

47 % Packaging

61% Paper & Board

38% Printed Products

Material Efficiency & Construction



Product / Variants configuration

Guided configuration process
through all product criteria

One leads to another

Decision tables taking dependencies
into account

e.g. when using die-cutting tools
or laminating, this could mean a
reduction in machine speed and a
higher calculated price

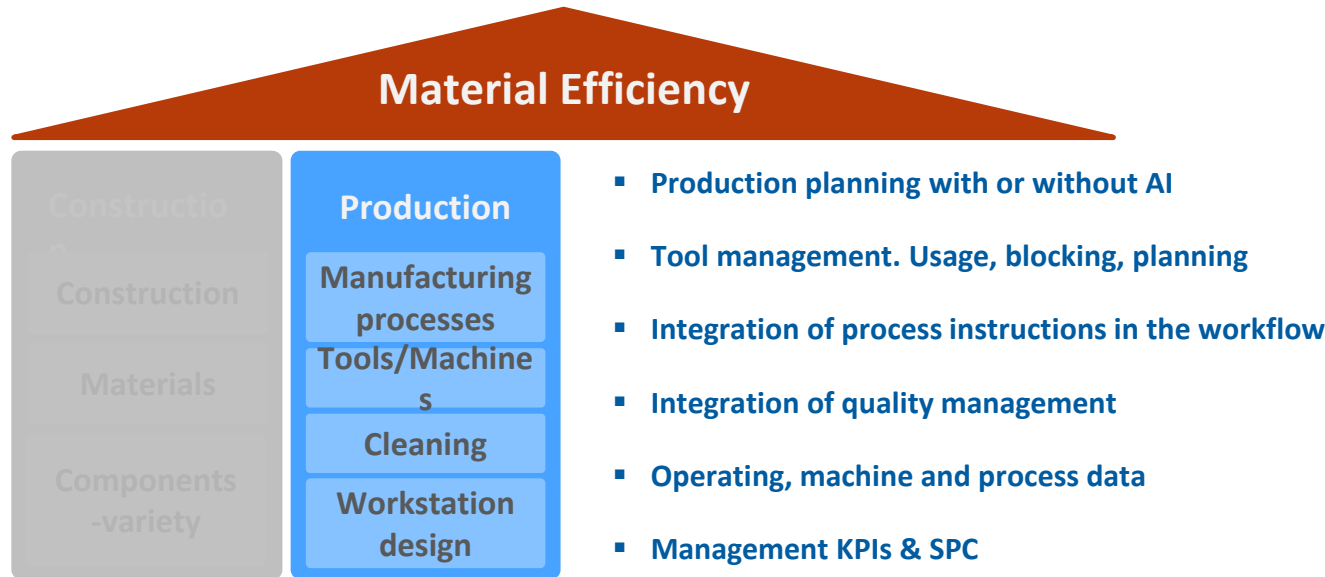


Estimate: 289

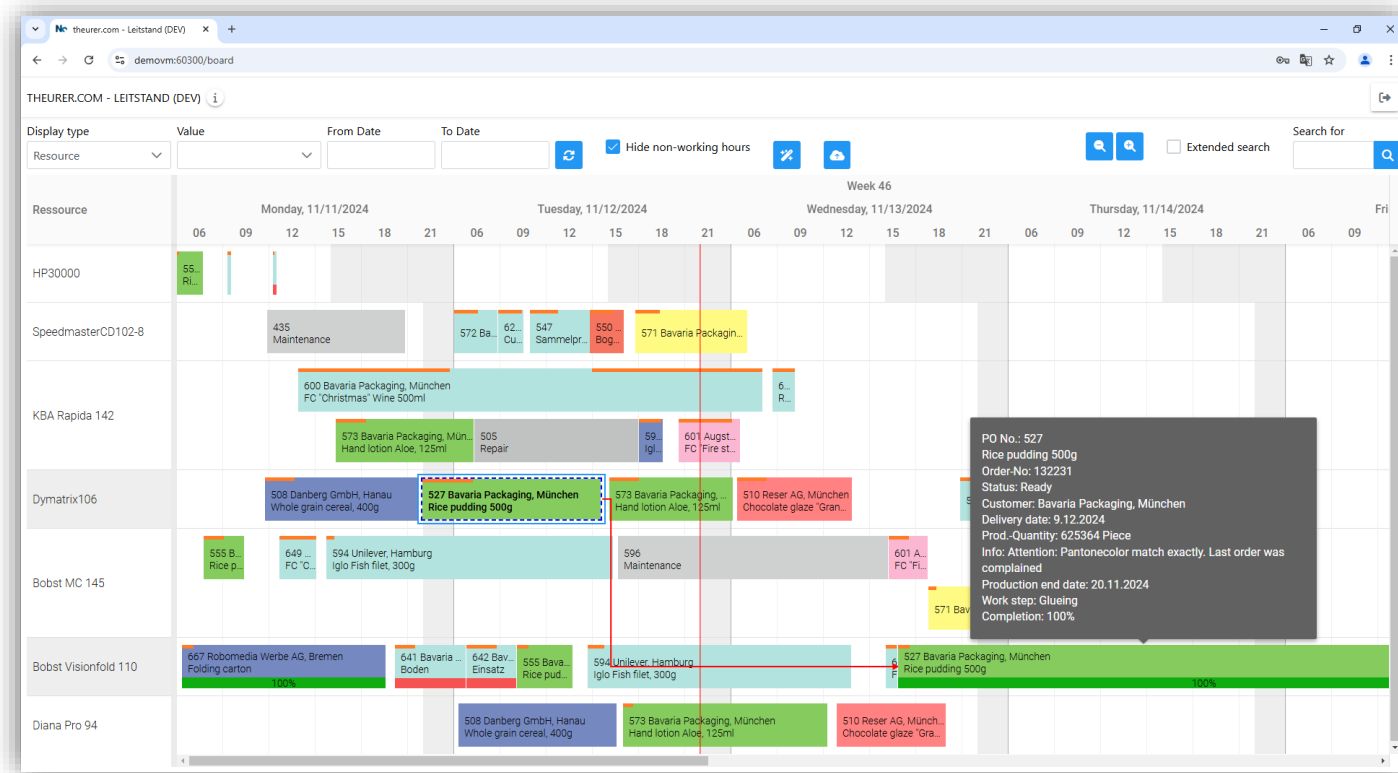
- Data entry
 - Product
 - Variant 1: MA-2200-6
 - Quantity
 - Direct costs
 - Variant 2: HP Indigo
 - Variant 3: GA RCS-330
 - Special material prices
 - Production variants
 - dispatch costs
 - Results
 - Info
 - Graphical summary
 - dispatch costs
 - Material/article costs
 - Ink costs
 - Production costs
- SKU
 - Colors Front
 - Number Inks Front: 2
 - Print process type 1: Any
 - Ink type 1: STDFLEXO
 - Ink 1: PANTONE 138 C
 - Print process type 2: Flexo
 - Ink type 2: FDS TDPANTONE
 - Ink 2: PANTONE 109 C
 - Color Back
 - Label
 - Varnishing: No
 - Select Varnish: GOLDGLITTER
 - Varnish Description: Sense varnish
 - GOLDGLITTER: Goldglitter varnish
 - MAGNETFARBE: Magnetic ink
 - MATTLACK: Varnish matt
 - RELEASELACK: Release varnish
 - RUBBELFARBE: Peel off silver
 - UVGLOSSYVARN...: UV varnish glossy
 - UV-Relief: 3D structure varnish
 - UV-Schreibfeld: Signature field varnish
 - UV-Sichtfenster: Window varnish glossy
 - UV-SoftTouch: Soft-touch varnish
 - Adhesive
 - Substrate: ECRP48
 - Face material description: Thermo Eco
 - Shape: Rectangle
 - Corner radius in mm: 1
 - Number of webs: 1
 - Sales Qty. Unit: Piece
 - Tolerance in mm: 2
 - Cutting die preselection
 - Mark Andy 2200 ? ☒
 - Indigo? ☒
 - Gallus? ☒
- Mark Andy
 - HP Indigo / Digicon
 - Gallus RCS
 - Cutting die selection?: Existing
 - Tolerance in mm: 2
 - Cutting die: SZ-50x40-3x5

No.	Width	Hei...	Inch	Along	GapAc...	Teeth	GapAlong	Shape	Across
SZ-49x38-3x7	49	38	11.5	7	3	92	3.73	Rectan...	3
SZ-50x40-3x5	50	40	8	4	2	25	3	Rectan...	3
SZ-50x40-3x8	50	40	10	6	3	80	2.333	Rectan...	3
 - Finishing
 - Used final web width: 333
 - Number up: 60
 - Rotoflex
 - 100% Inspection
 - Winding
 - Core article no.: KRN-76x2x1000
 - Core Ø: 76
 - Max.roll Ø: 150
 - Input Ø / labels/ meters: Piece
 - Labels per roll: 3000
 - Roll Ø: 172
 - TT-Imprint
 - Labeling: EPSMA-Roll-Label
 - Packaging
 - Carton/Pallet: KRT024
 - Rolls per carton: 5
 - Pallet: KUNSTSTOFFPALETTE
 - Carton per pallet: 45

Material Efficiency & Production

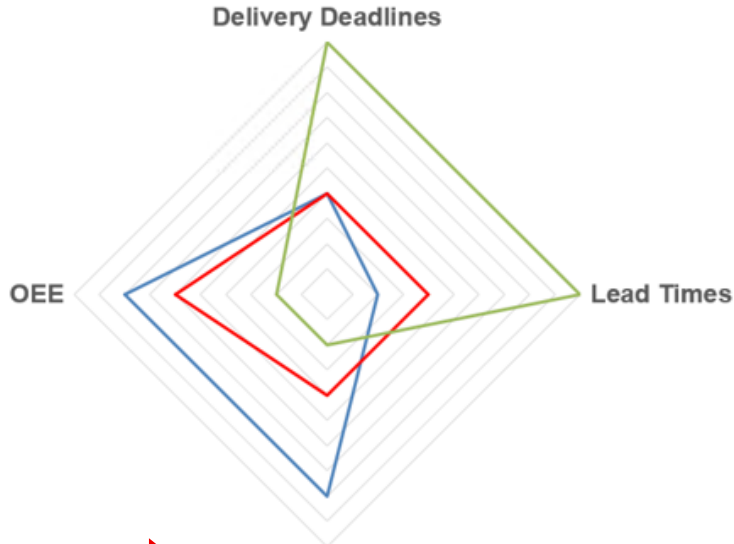


PPS | Scheduling Board in the Browser

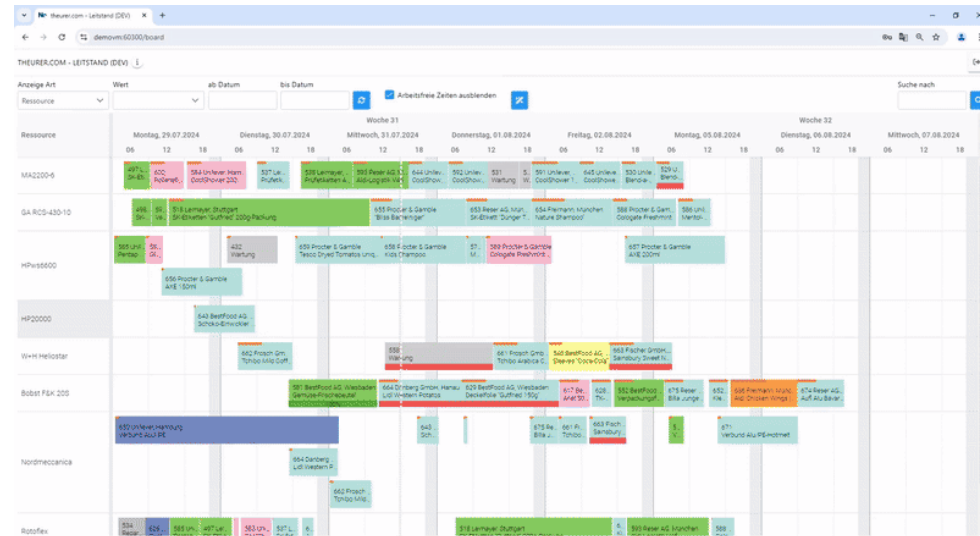


Optimization with Artificial Intelligence

Balancing Conflicting Targets

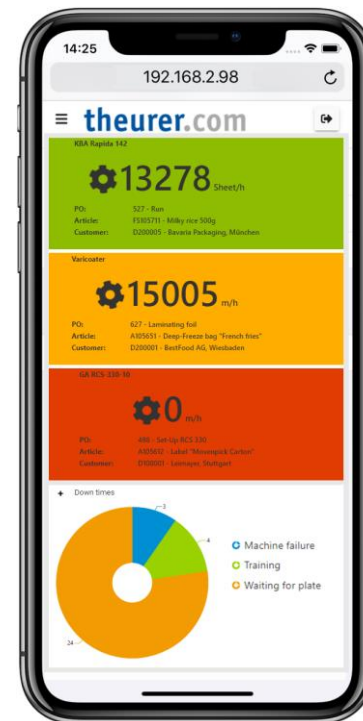
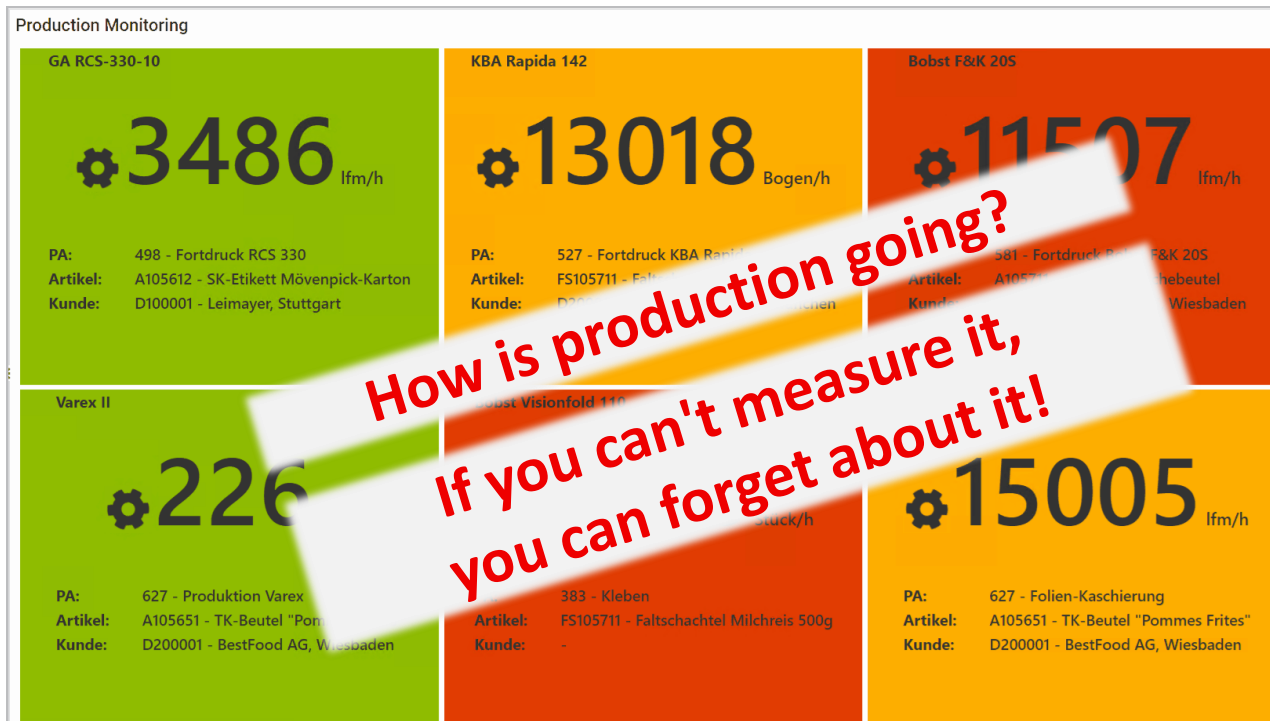


Saved Setup times



Set-up = changeover scrap = material savings = Money saving

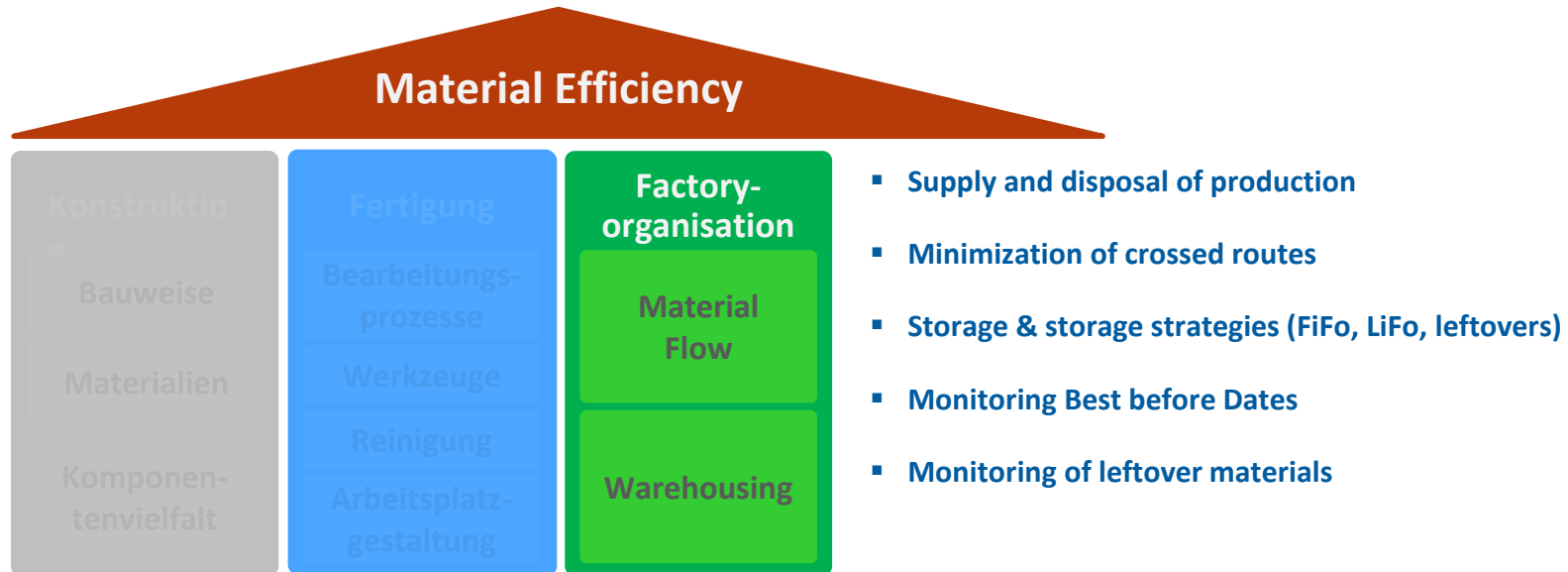
SFC | Machine Integration (DMI – Direct Machine Interface)



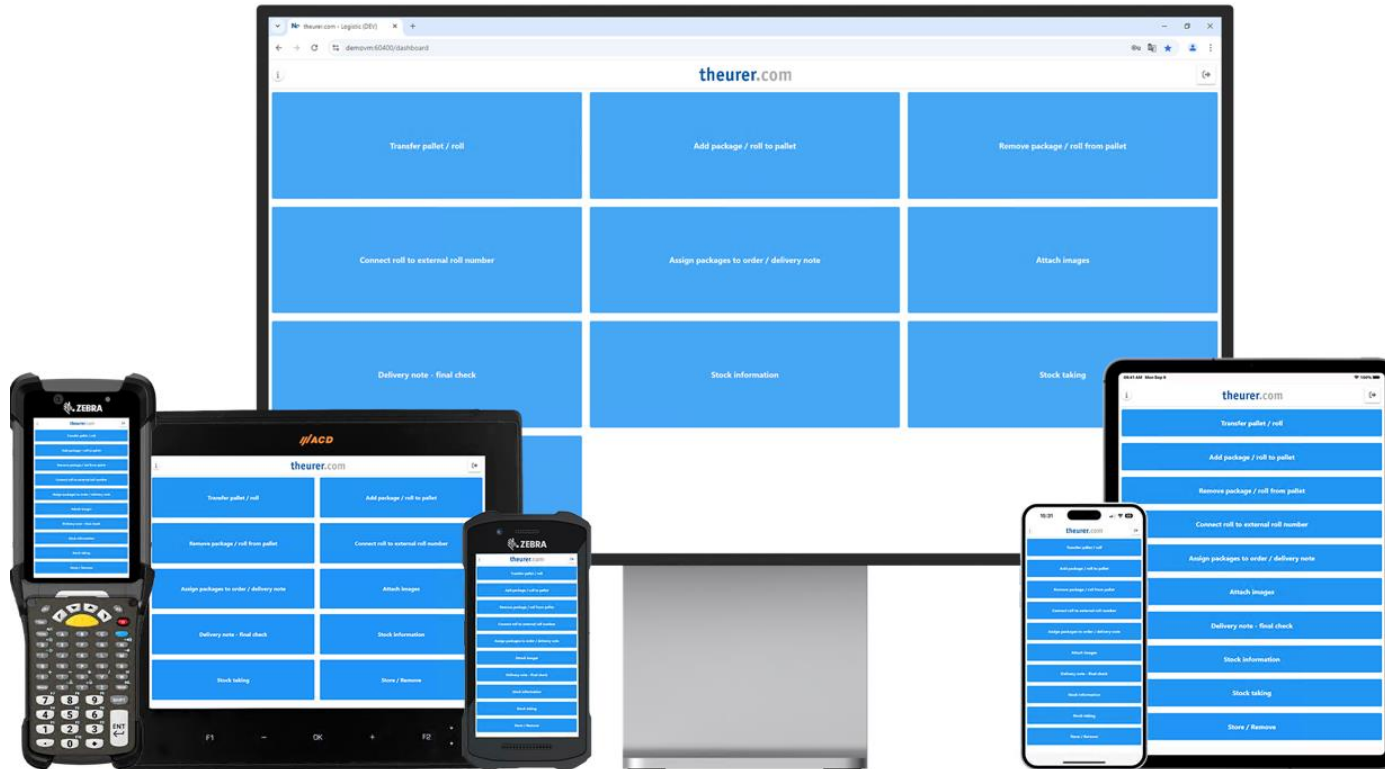
Material Efficiency. KPIs.



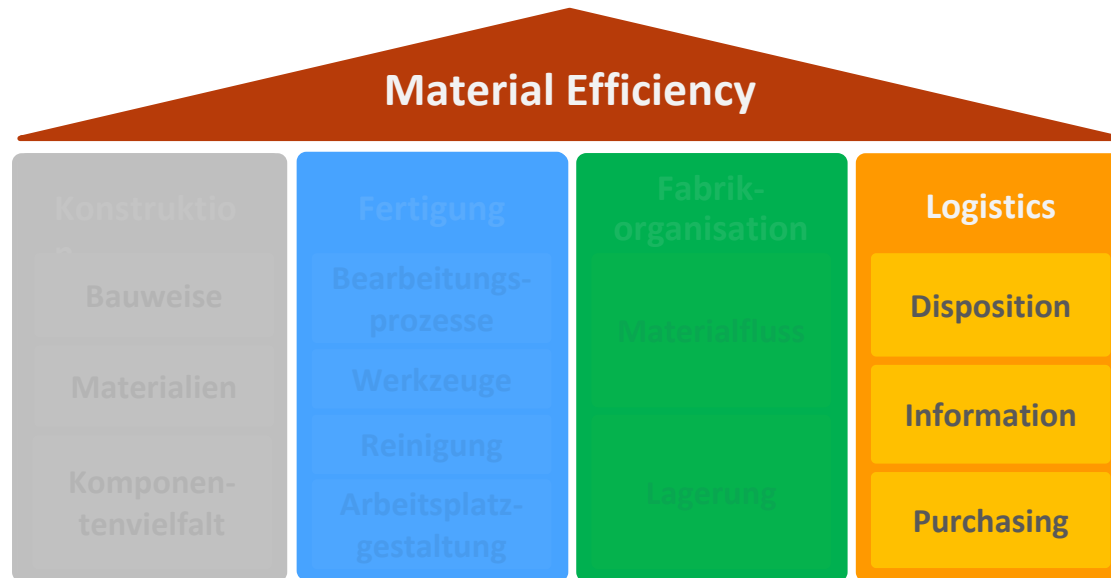
Material Efficiency & Factory Organisation



Material efficiency. Logistics App



Material Efficiency & Logistics



- Correct quantity “Fact-based dispo”
- Right time
- Right quality and price
- Shortages and forecast for order proposals
- Facts and figures, KPIs

Material. Availability & Shortages & MRP & Duration

MIS [Shortages]

Article no.	Description	Accou...	Goods group	F Qt...	Minimum...	Free i...	In stock	Stock...	Demand	St...	Short...	Time of ...	Buffer...	Orde...	Plan...	Order...	Purchas...	Ø 6 Mo...	Quantity...	Delivery ...	Delivery q...	Order Qua...
CGLRP51-0150	Castgloss	K1000...	L Label substr...	m	0	0	0	0	7.391	7.391	0		-4	0	0	7.391	531,04 €	0 m	2	0	1.108,65	
CGLRP51-0333	Castgloss	K1000...	L Label substr...	m	0	0	0	0	835	835	0			0	0	835	399,97 €	0 m	2	0	278,06	
ECORP48-0166	Thermo Eco	K1000...	L Label substr...	m	1.000	0	0	0	10.134	0	0			0	0	0	0,00 €	0 m	2	0	0	
ECORP48-0190	Thermo Eco	K1000...	L Label substr...	m	1.000	0	0	0	0	0	0			0	0	0	0,00 €	0 m	2	0	0	
ECORP48-0220	Thermo Eco	K1000...	L Label substr...	m	1.000	0	0	0	0	0	0			0	0	0	0,00 €	0 m	2	0	0	
ECORP48-0250	Thermo Eco	K1000...	L Label substr...	m	2.000	0	16.045	0	66.695	50.650	0		-4	2.000	8.000	52.000	0,00 €	0 m	2	2.000	13.000	
ECORP48-0300	Thermo Eco	K1000...	L Label substr...	m	0	0	0	0	34.881	34.881	0			0	0	34.881	6.016,97 €	0 m	2	0	10.464,3	

Availability for ECORP48-0250

ArticleNr	Description	Target	Planned Quantity	Current inventory	Replacement time [Days]
ECORP48-0...	Thermo Eco RP 48		0	16045	2

Termin Beleg

03.10.2022	548
03.10.2022	518

Close

Thermo80PE-0400
Thermo80PE-1500
VELER100-1000

Varianten Lager

Varianten Klasse Artikel Prod. Auftrag

Rollen ECORP48

Material/Artikel Menge Vorlage Format

Es gibt für diese Ansicht keine Einträge.

ID Nr	Bezeich. 1	Bezeich. 2	Breite	Verfallsdat.	Charge	Lagerort	Bestand [lftm]	reserviert [lftm]	Menge [m]	btWarenC
R10012	Thermo Eco	RP 48	210			M 9.2	2000	0	420	ECORP48
R10001	Thermo Eco	RP 48	250			ZW.1	2010	0	502,5	ECORP48
R10002	Thermo Eco	RP 48	250	16.11.2024		ZW.1	2000	0	500	ECORP48
R10003	Thermo Eco	RP 48	250							
R10004	Thermo Eco	RP 48	250							
R10005	Thermo Eco	RP 48	250							
R10007	Thermo Eco	RP 48	250							
R10008	Thermo Eco	RP 48	250							
R10009	Thermo Eco	RP 48	265							
R10010	Thermo Eco	RP 48	275							
14841600	Thermo Eco	RP 48	333							

Rolle Nr: R10002

Artikel-Nr	Rollen/Serie...	LagerOrt	Verpackung	Ak...	verbaut in	Info
ECORP48-0...	R10002	ZW.1		X		

Rolle Beleg-Zuordnung EPSMA Vorgänge Dokumente

Artikel-Nr	ECORP48-0250	Lagerort	ZW.1
Serien-Nr	R10002	Menge Original	2000 lftm
Extern Roll ID		Menge Lager	2000
NVE (Versandseinheit-Nr)		Menge bestellt	2000
Charge			

order for article ECORP48-0250

☒ Order directly
☐ Disposition/purchase propo
☐ Price inquiry

Purchase qty. 52.000,00 m

Delivery target date

Sum up items

Suppliers K100009 UPM Raflatrac, Ratingen

Open orders

Apply Cancel

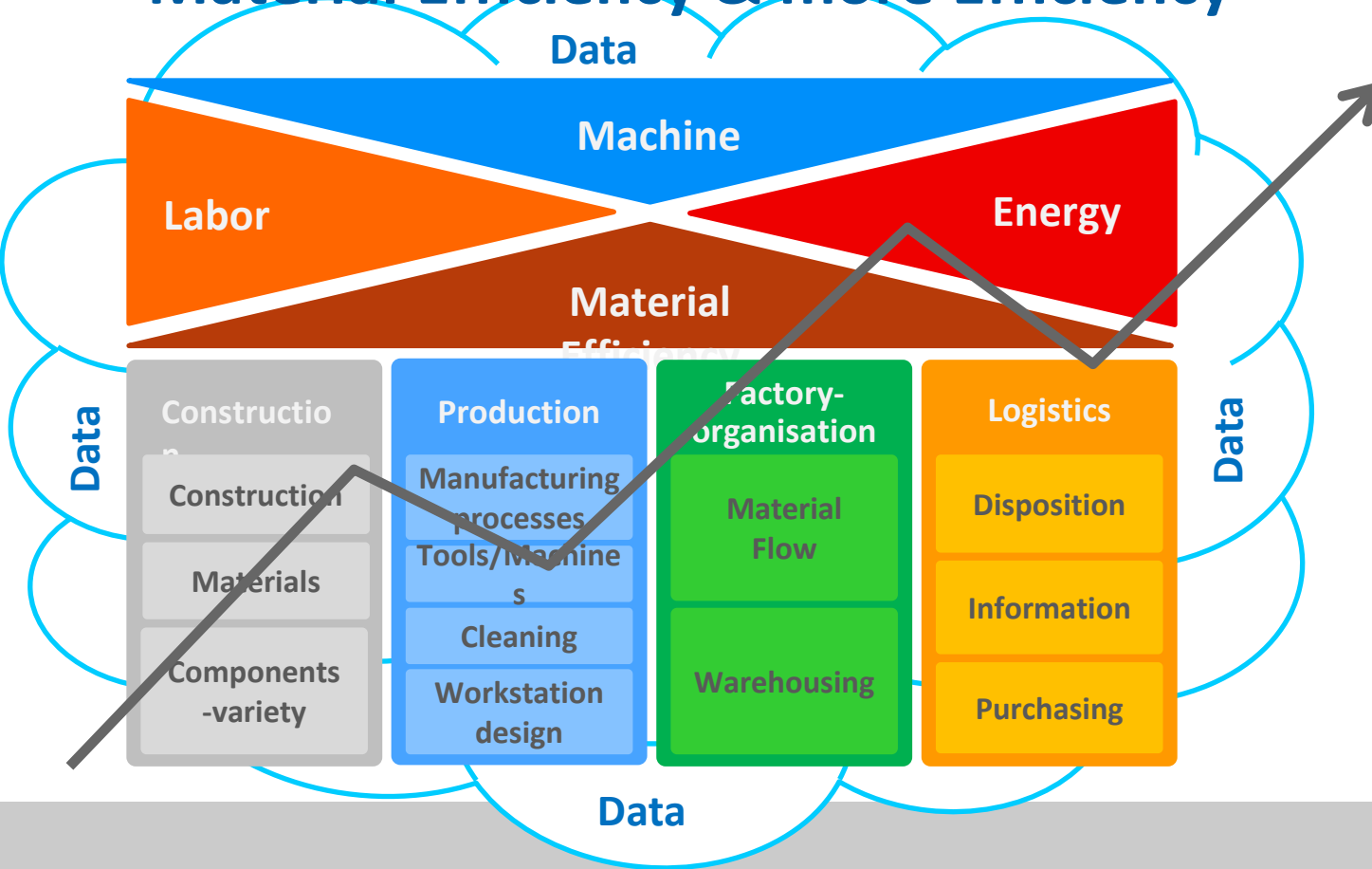
ERP/MIS + Lean Methods Toolbox

- KPI systems
- OEE. Plant efficiency
- 5S
- SMED. Setup time optimization
- CIP
- SPC. Statistical process control
- Value stream mapping
- Activity structure analysis
- Potential analysis



- Throughput time analysis
- Total Productivity Management
- KAIZEN & Six Sigma
- Kanban
- ABC/XYZ Analysis
- Multi-Snapshots
- Maintenance Optimization
- Training & Coaching

Material Efficiency & more Efficiency



Material efficiency = high & fast returns.

Thank you very much!

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