

The background of the slide is a blue-tinted photograph of an industrial setting. On the left, a robotic arm is visible. In the center, a person's hands are shown holding a tablet computer, with one hand using a stylus to interact with the screen. The screen displays a technical diagram or software interface. The overall scene suggests a focus on industrial automation and digital technology.

# MTM- and EAWS-Practitioner and Instructor Lounge

Thomas Finsterbusch, MTM Academy

Hamburg, 21.06.2022

# Speakers



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# Application of the MTM Process building block systems – PAPER VERSION

Motion Length in <b>cm</b>	≤ 20	> 20 to ≤ 50	> 50 to ≤ 80
Distance Class	<b>1</b>	<b>2</b>	<b>3</b>

Get and Place			Code	1	2	3
			TMU			
≤ 1 kg	easy	approx.	<b>AA</b>	20	35	50
		loose	<b>AB</b>	30	45	60
		tight	<b>AC</b>	40	55	70
	difficult	approx.	<b>AD</b>	20	45	60
		loose	<b>AE</b>	30	55	70
		tight	<b>AF</b>	40	65	80
	handful	approx.	<b>AG</b>	40	65	80
	> 1 kg to ≤ 8 kg	approx.	<b>AH</b>	25	45	55
		loose	<b>AJ</b>	40	65	75
tight		<b>AK</b>	50	75	85	
> 8 kg to ≤ 22 kg	approx.	<b>AL</b>	80	105	115	
	loose	<b>AM</b>	95	120	130	
	tight	<b>AN</b>	120	145	160	

Place		Code	1	2	3
		TMU			
	approx.	<b>PA</b>	10	20	25
	loose	<b>PB</b>	20	30	35
	tight	<b>PC</b>	30	40	45

Motion Length in <b>cm</b>	≤ 20	> 20 to ≤ 50	> 50 to ≤ 80
Distance Class	<b>1</b>	<b>2</b>	<b>3</b>

Handle Tool		Code	1	2	3
		TMU			
approximate		<b>HA</b>	25	45	65
loose		<b>HB</b>	40	60	75
tight		<b>HC</b>	50	70	85

Operate		Code	1	2	3
single		<b>BA</b>	10	25	40
compound		<b>BB</b>	30	45	60

Motion Cycles		Code	1	2	3
one motion		<b>ZA</b>	5	15	20
motion sequence		<b>ZB</b>	10	30	40
re-position and one motion		<b>ZC</b>	30	45	55
tighten or loosen		<b>ZD</b>		20	

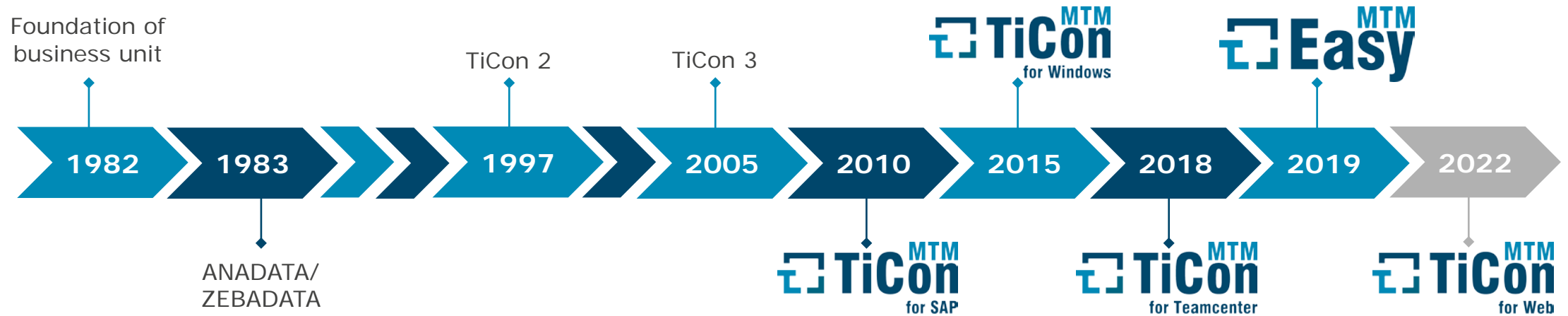
Body Motions		Code	TMU
Walk / m		<b>KA</b>	25
Bend, Stoop, Kneel (incl. arise)		<b>KB</b>	60
Sit and Stand		<b>KC</b>	110

Visual Control		Code	TMU
		<b>VA</b>	15

The image shows three overlapping MTM forms. The top form is 'Arbeitssystembeschreibung' (Work System Description) with fields for 'Aufgabe' (Task), 'Organisationskennzahl' (Organization ID), 'Beobachter' (Observer), 'Datum' (Date), 'Abgabe-Nr.' (Issue No.), and 'Start' (Start). The middle form is 'Zusammenstellung der Prozessbausteine' (Assembly of Process Building Blocks) with a table for 'Prozessbaustein' (Process Building Block) containing columns for 'Nr.' (No.), 'Bezeichnung' (Description), 'Code', 'TMU', and 'A x H'. The bottom form is 'MTM-Analyse' (MTM Analysis) with a table for 'Prozessbaustein' (Process Building Block) containing columns for 'Nr.', 'Bezeichnung', 'A x H', 'Code', 'TMU', 'Code', 'A x H', 'Bezeichnung', 'Abgabe-Nr.', and 'Start'. There are also smaller tables for 'A x H' and 'Gesamt TMU' (Total TMU).



# Business unit "Digital Solution"



- MTM has been developing software since the early 1980s
- TiCon is short for "**T**ime **C**ontrol"
- MTM business area "Digital Solutions":
  - Steady growth to currently 40 employees
  - In-house development and worldwide support from Dresden
  - Over 500 installations worldwide with more than 25.000 users



Made in Germany



# Approved by MTM ASSOCIATION

The **seal of approval** identifies tested software and consulting products in the MTM environment as well as operational excellence in the application of the MTM methods



Overview of already certified products  
[mtm.org/en/brands/sealofapproval/certificates](https://mtm.org/en/brands/sealofapproval/certificates)

## Software

In the case of software products, the correct creation, management and presentation of MTM analyzes is guaranteed in accordance with the rules of MTM ASSOCIATION e. V. evaluated. The spectrum ranges from manual creation and parameterization to automatically generated MTM analyses.

# Use of TiCon in trainings

## In which trainings is the software already used:

- MTM-HWD®
- EAWS®
- ProKon
- MTM- and EAWS-Practitioner

Also possible for further training on request.

## Provision and installation

- Participant books training with MTMA or a One-MTM partner
- In the course on [training.mtm.org](https://training.mtm.org) the installation file is provided
- In the "registration confirmation" e-mail - note on download, installation
- Note on license purchase via [helpdesk@mtm.org](mailto:helpdesk@mtm.org)
- Contact person of the MTM software house sends license file

In MTM-HWD®, testing is performed with TiCon!



# Training.mtm.org

Inhouse-Ausbildung Prüfer



PRÄSENZ  
**MTM-HWD**  
*operated by Company / One-MTM Partner / MTMA*

Bestellt

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 *Online oder Ort*  
 05. - 09.09.2022

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 Teilnehmerliste verwalten	 zum Kurs
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Herzlich Willkommen zu Ihrem Webinar MTM-HWD

In diesem Kurs finden Sie alle benötigten Unterlagen und können diese herunterladen.

**Hinweise für die Prüfung:**

- Sobald die Prüfung gestartet ist, läuft im oberen Bereich des Tests die Zeit ab, die Ihnen noch zur Verfügung steht. D
- **Die Prüfungszeit kann nicht pausiert oder verlängert werden!**
- Übersprungene Aufgaben werden am Ende des Testes erneut angezeigt, damit Sie keine Prüfungsfrage verpassen. E
- Bitte beachten Sie, dass der Internet Explorer von Microsoft für die Prüfung nicht unterstützt wird, da es zu Darstellu

Wir wünschen Ihnen viel Erfolg!

Ihr MTM-Team

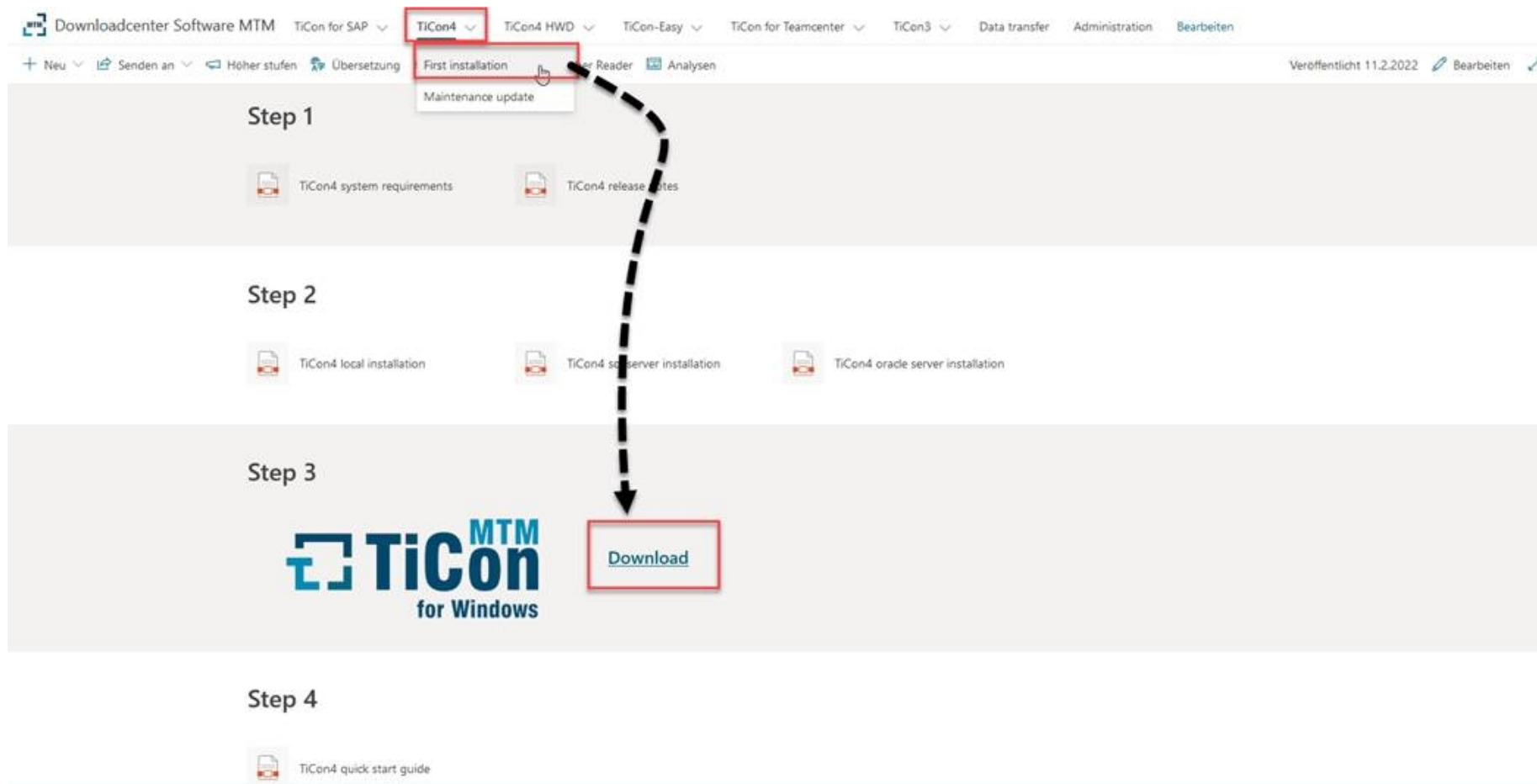
**WEBINAR**

 [Zugang zum Webinar](#)

 [Feedback](#)

 [Installationsdatei](#)

# Download Software for participants



The screenshot shows the 'Downloadcenter Software MTM' interface. The navigation menu includes 'TiCon4', 'TiCon4 HWD', 'TiCon-Easy', 'TiCon for Teamcenter', 'TiCon3', 'Data transfer', 'Administration', and 'Bearbeiten'. The 'TiCon4' dropdown menu is open, showing 'First installation' and 'Maintenance update'. A dashed arrow points from 'First installation' to a 'Download' button in the 'Step 3' section. The 'Step 3' section features the 'TiCon<sup>MTM</sup> for Windows' logo and the 'Download' button. Other sections include 'Step 1' with 'TiCon4 system requirements' and 'TiCon4 release notes', 'Step 2' with 'TiCon4 local installation', 'TiCon4 server installation', and 'TiCon4 oracle server installation', and 'Step 4' with 'TiCon4 quick start guide'.





**Who are the international contacts?**



# Partner of the One-MTM Network



Fondazione Ergo  
Gabriele Caragnano



MTM ASSOCIATION e.V.  
Peter Kurlang



MTM (Shanghai)  
Enterprise  
Li Zhen



Polskie Stowarzyszenie  
MTM  
Miłosz Krężlewski



MTM Hungária  
Egyesület  
Zoltán Dunajcsik



South African  
MTM Association  
Tony Campbell



MTM Benelux  
Jos Valkenburg



MTM Productivity  
Services Corporation  
Michael Mitchel



UKMTM Association  
Simon Taylor



Associação MTM do Brasil  
Mauro Fejio



MTM Austria  
Thomas Gehart

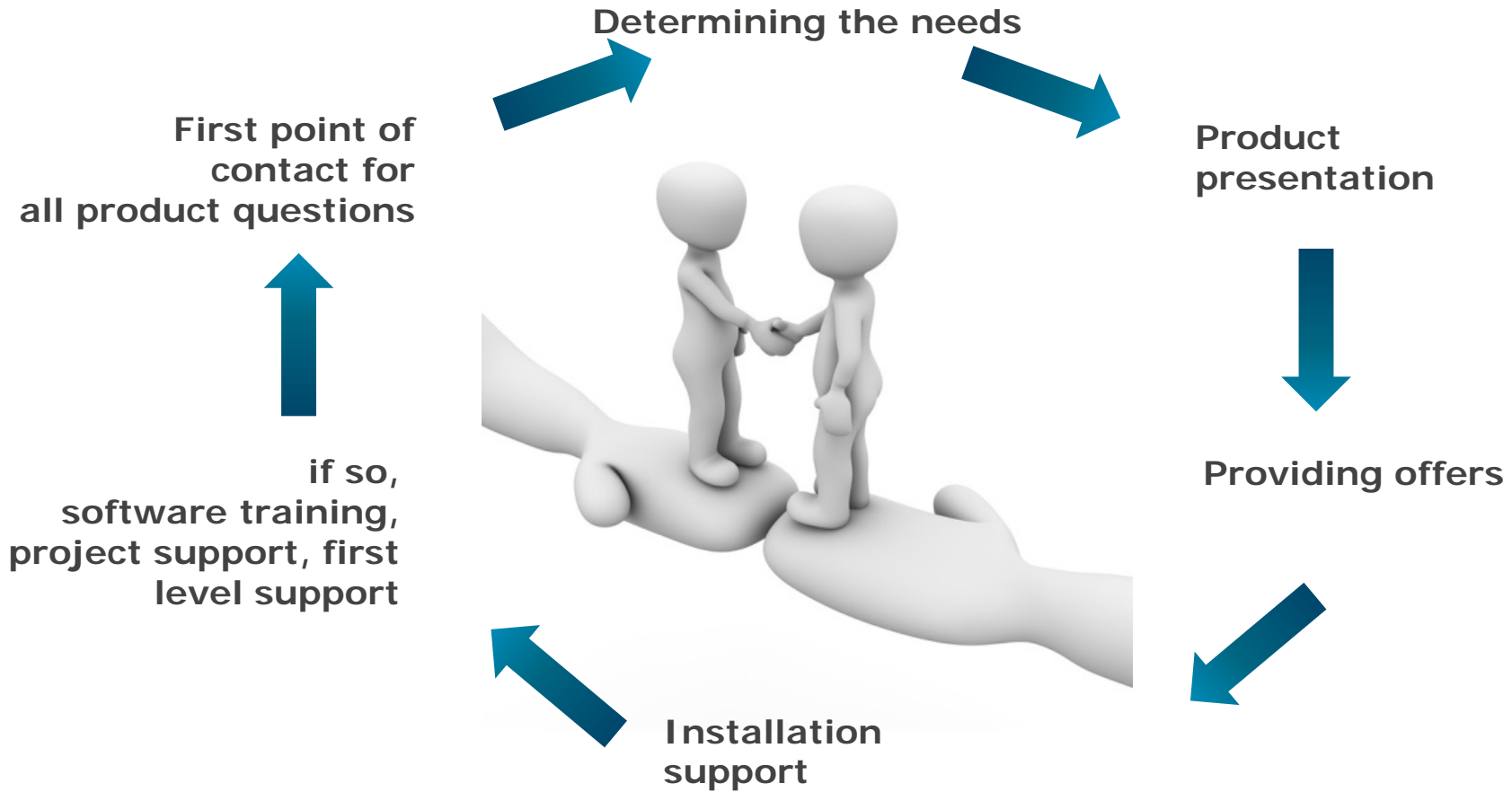


MTM Mx Asociación  
Rubén Avitúa Brocado



MTM pro Českou republiku a  
Slovenskou republiku  
Tomas Krcek

# Sales partner





# Software Partner Portal



## MTM Software Partner Portal

☆ Not following

[Home](#)

[Sales material](#) ▾

[Trainings material](#) ▾

[Webinars](#)

Published 1/25/2021



## Welcome to the MTM Software Partner Portal

Here you will find all sales and training materials as well as all files of the webinars that took place.

Use the menu bar to navigate to the individual pages.

# Solutions from and with MTM

## MTM-Easy

For companies and production areas **without** work measurement standards

- Cloud based solution
- Easy and fast to use
- Pre-defined work content



## TiCon for Web

For companies and production areas **with** work measurement standards

- Cloud based solution
- Transparent time management on database level (without Excel)
- Administration of your own time data



## TiCon

For companies and production areas **with systematic** work measurement standards and **more**

- Work measurement standards according to MTM method
- Numerous modules (Takt, EAWS, ...)
- Customizations possible



Professionalism in work measurement

# Support

Your contact person for questions and problems as well as for the activation of licenses of all TiCon products.

## Support times:

- Monday to Thursday: 08:00–16:00 o'clock
- Friday: 08:00–14:00 o'clock

*(Time zone: Berlin / Local time Dresden)*

[helpdesk@mtm.org](mailto:helpdesk@mtm.org) or TiCon Hotline: +49 351 26999-26.

For customizing inquiries  
please contact support directly!

**Maintenance customers: Access to ticket system of MTM Softwarehaus**



Look into the future



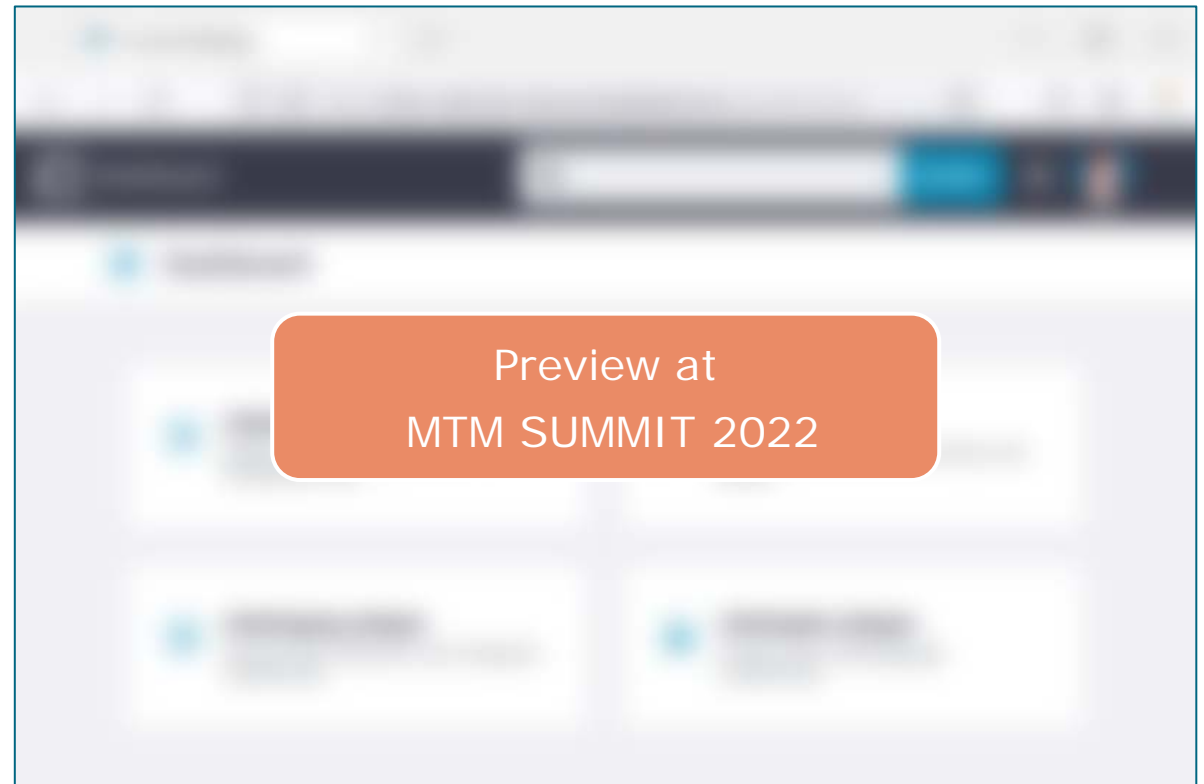
# TiCon for Web

Cloud based solution

No installation necessary

1. Version only with MTM-UAS®

Beta phase from July 2022





# Events of the MTM Softwarehaus

- Newsletter for MTM Software Partner
- Webinars especially for MTM Software partners on current topics
- Annual roadshows
- Software customer presentation and on-site meetings at the MTM SUMMIT



Please ask *your* questions!



# MTM SUMMIT 2022

## Topic:

International Human Work Forum

## Place:

Gastwerk Hotel Hamburg & Online

## Date:

19. – 20. October 2022

## Minutes and Tickets:

<https://summit.mtm.org/>



VIDEO RECORDINGS 2021 WHEN AND WHERE **SCHEDULE** SPEAKERS TICKETS 

### MTM SUMMIT 2022 CONFERENCE SCHEDULE

WEDNESDAY, 19.10.2022

THURSDAY, 20.10.2022

\*All times are Berlin local time.

#### Opening

09:00 – 09:15  Henning Quanz  Henning Quanz, Moderator  
 Prof. Dr. Peter Kuhlmann  MTM ASSOCIATION e. V.

#### Lean Work – digital, efficient, ergonomic [Keynote]

09:15 – 09:45  Prof. Dr. Peter Kuhlmann  MTM ASSOCIATION e. V.

#### Lean before digital – with consistent standardization to intelligently networked IE systems

09:45 – 10:15  Jens Rauschenbach  BMW Group



**Next meeting:**

**16.08.2022 - 14 to 15 pm**

<https://mtm.org/en/events>



A large silhouette of a group of graduates in gowns and caps, standing on a hill and throwing their caps into the air. The scene is set against a bright, hazy sky with a sun or moon low on the horizon, creating a celebratory atmosphere.

[training.mtm.org](https://training.mtm.org)



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