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Your RPA Challenges

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1. Interoperability: Many business processes are operated via a wide range of different systems (not only Windows or Web)
2. You need to decrease costs for business process automation.
3. Your automations need to be reliable and need to handle unexpected situations to cope with reality and remain resilient.
4. Missing documentation: what has been been done and how?
5. Qualified employees are missing or even worse:
6. Qualified employees leave your company and take the valuable company-, product- and process-know-how!
7. You have very skilled and less skilled employees. What if you could empower the second group as well while motivating them?

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Your Solution: The EMMA Promise

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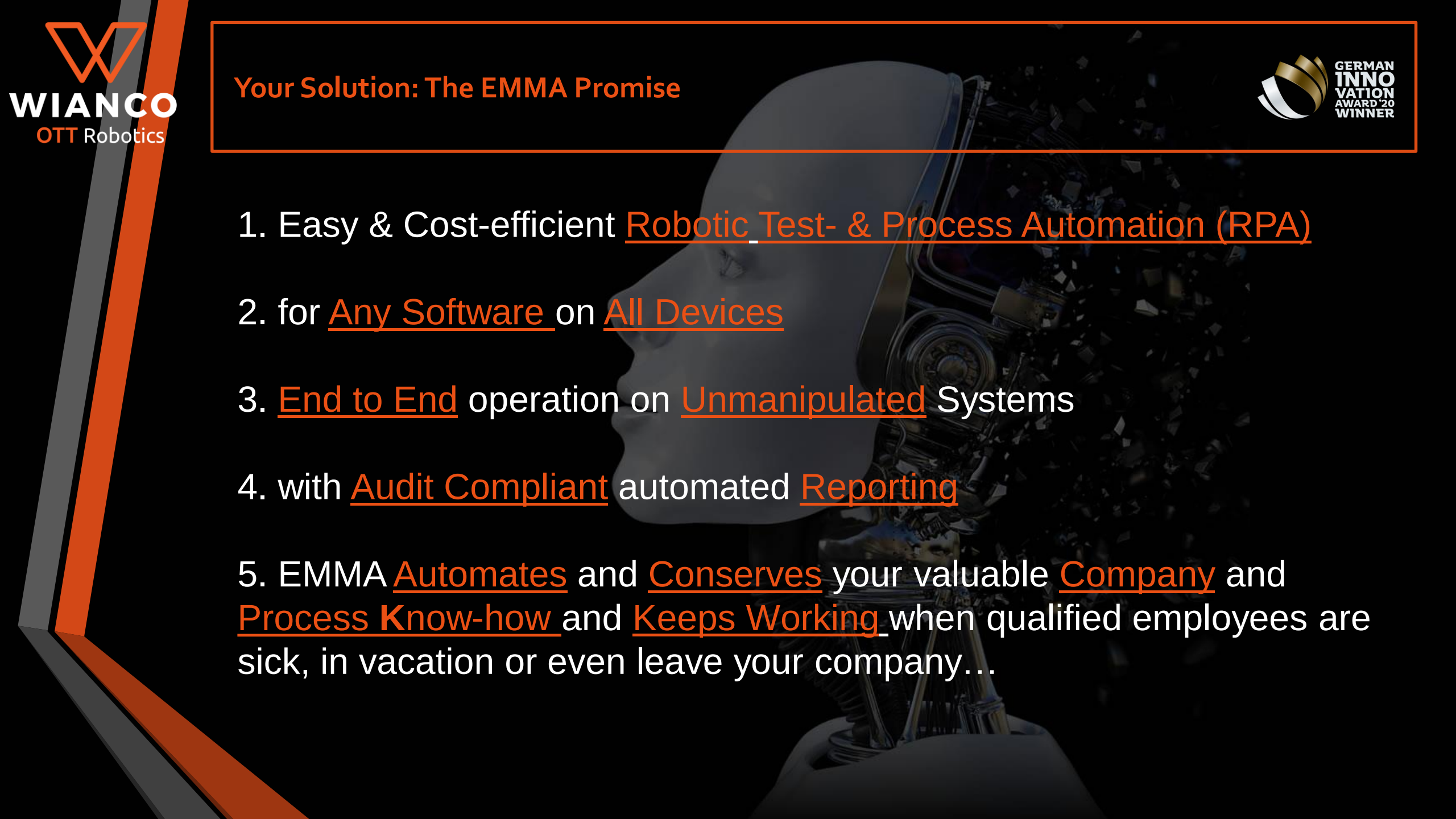
1. Easy & Cost-efficient Robotic Test- & Process Automation (RPA)

2. for Any Software on All Devices

3. End to End operation on Unmanipulated Systems

4. with Audit Compliant automated Reporting

5. EMMA Automates and Conserves your valuable Company and Process **K**now-how and Keeps Working when qualified employees are sick, in vacation or even leave your company…



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EMMA in Action

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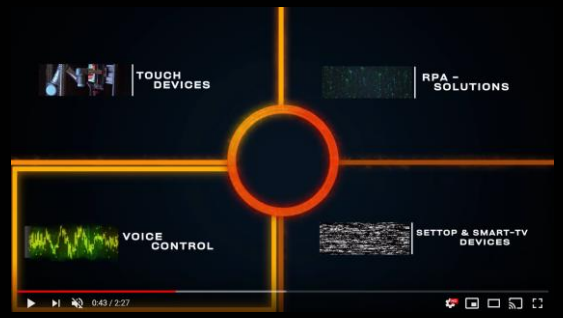
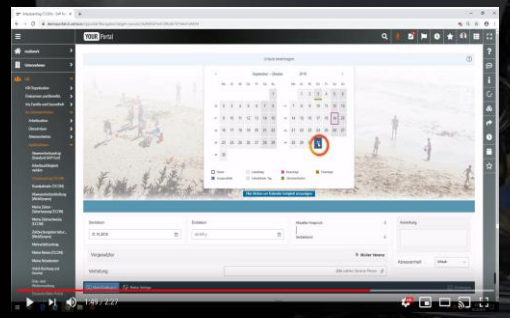
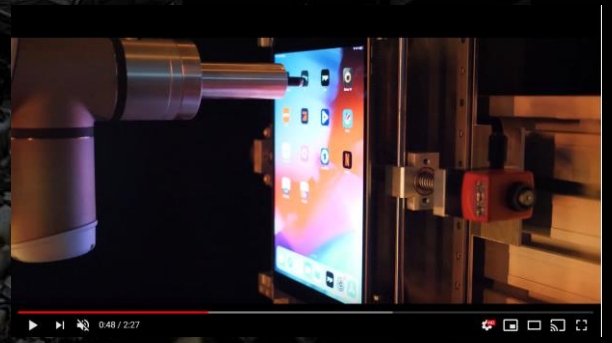
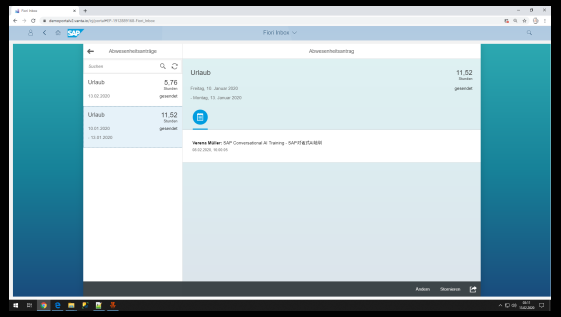
To see a 2 min video of EMMA in Action, please visit:
www.Wianco.com

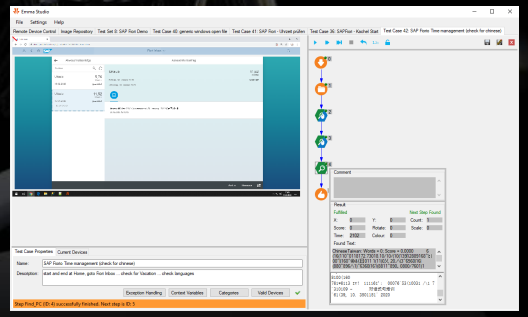
or see the 2 min video on YouTube:
https://www.youtube.com/watch?v=pYn3Ak2yy1U











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How can YOU Save Money and Increase YOUR Productivity?

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- Effective time of manual testing / manual operations on repetitive tasks per working day:
  3,5 hours (NOT including the creation of a meaningful test/RPA plan and resulting reports!) = 3,5 h * 5 days/week = 17,5 h/week
- EMMA tests or automates 24 h * 7 days = 168 h/week

➢ Measured productivity of EMMA: ~ 10 times higher compared to manual processes with fully automated audit compliant documentation of performed actions, which can be automatically sent via email for continuous integration in further operations and reporting processes

➢ Let EMMA **Certify** Your Quality or **Prove** what she did !

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EMMA: Optional Hardware- & Software-based Robot with Artificial Intelligence (AI)

Optional Hardware

EMMA **Body**:
19" Server-Rack

All components aligned in 19" server rack.

EMMA **Eyes & Arm**:

Kinematics operates the displays of touch devices „by hand". Machine Vision by high-resolution **industry camera**

EMMA **Telekinetics**:

The **IR-Transmitte**r within the rack operates Set-Top-Boxes, SmartTVs and Digital Signages

EMMA **Physics**: Premium Hardware

- 19" server, optimized for Audio- and Video Content
- Special Development: Calibration of kinematics, camera and devices
- Infrastructur (HDMI Switch, Power Supply, Network Router)

Software

EMMA **Service**

Management & Scheduling of tests and robotic process automation

EMMA **Studio**

Project creation, operation and analysis of automated tests

EMMA **Configuration**

Configuration of testparameters, optional hardware, devices and environments

Modular **Physiognomie**

- PC – Operation of any System (e.g. PC Clients, Web Applications, Mac OS, Citrix, Linux, ...)
- Touch – Control of any Touch Device (optional)
- Telekinetics for SmartTVs, STBs, OTT Devices, Digital Signages (optional)

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EMMA – Benefits compared to other RPA Solutions

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Classic: Screen Recording Solutions	Classic: Scripting	Common RPA solutions	EMMA
+ No expensive developers needed (manual testers / RPA operators can use screen recording)	+ More options than Screen Recording	+ More options than Screen Recording and Scripting	+ More options than any of the others
+ Fast generation of automation script	+ Independant from position of objects to check (markup check for existance of related elements)	- Only work on Windows systems - No automated audit compliant reporting!	**+ AI and Object Recognition** works, even after major changes of the application elements and structure
- Doesn't work anymore after minor changes: e.g of Button/Text Input/DropDown/Control position/form changes,... → Often already useless right after the creation of the screen recording	- Often: doesn't reveal visibility related bugs (caused by elements hidden by another overlay, memory issues of device, ...)	- No cross-device solution - Missing language detection and translation services, ... - Do not support voice-controlled software, e.g. SAP CoPilot/ SAP Conversational AI	**+ Does not require developers and improves the automation skills of regular employees!** + Works for PCs, Touch Devices, and Voice Controlled Systems with one solution
- Not available for every device type	- Developers required - Not available for every device type	- Developers required - Not available for every device/application type	+ Use of scripts still possible (e.g. network trace), + many more...

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Artificial Intelligence

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Definitions:

- **Intelligence:** The capability to recognize and solve problems.
- **Advanced Intelligence:** Learning from solved problemsand other data to increase the capability to recognize and solve more and different problems.
- **Artificial Intelligence (AI):** made or produced by human beings rather than occurring naturally, especially as a copy of something natural (e.g. human behaviour).
- **Machine Learning (ML):** scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. It is seen as a subset of AI.

Prerequisites:

- **Perception:** ability to use input from sensors to deduce aspects of the world (e.g. Machine Vision)
- **Natural Language Processing** gives machines the ability to read/listen and understand human languages.
- **Understanding** human language is the ability to decide how to proceed with the received information (e.g. using a decision tree or other techniques) and take appropriate actions in order to fulfill desired tasks.

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EMMAs‘ Cognitive Services

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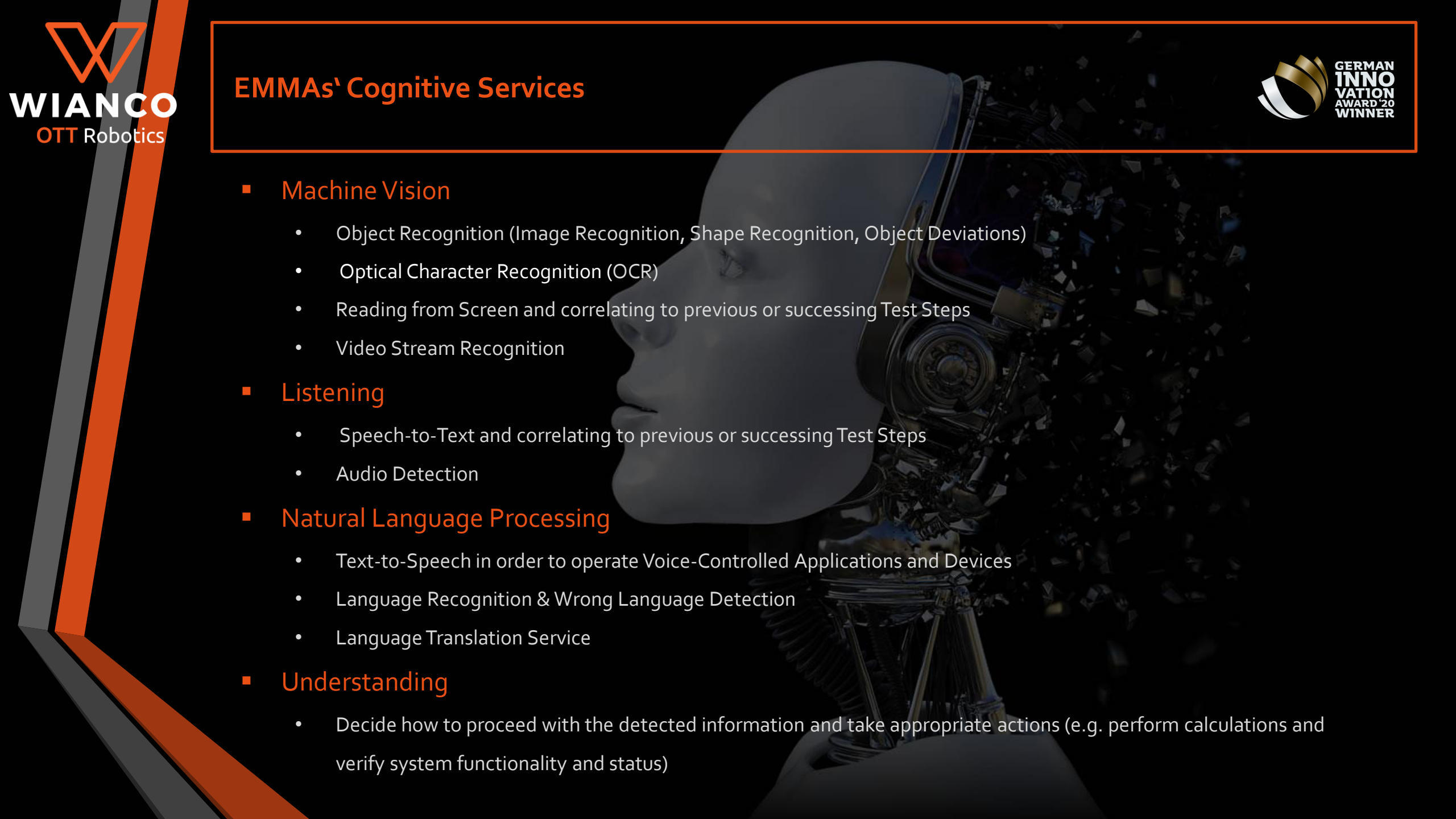

- Machine Vision
  - Object Recognition (Image Recognition, Shape Recognition, Object Deviations)
  - Optical Character Recognition (OCR)
  - Reading from Screen and correlating to previous or successing Test Steps
  - Video Stream Recognition
- Listening
  - Speech-to-Text and correlating to previous or successing Test Steps
  - Audio Detection
- Natural Language Processing
  - Text-to-Speech in order to operate Voice-Controlled Applications and Devices
  - Language Recognition & Wrong Language Detection
  - Language Translation Service
- Understanding
  - Decide how to proceed with the detected information and take appropriate actions (e.g. perform calculations and verify system functionality and status)

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Your Audit Compliant Report – Be Revision Proof

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- EMMA goes far beyond logging about what she does for you: she proves it to YOU and AUDITORS and provides evidence incl. Screen Shots and TimeStamps for every Process Step and Decision!

- 3 different levels of Reporting:
  - Board Member Level
  - Operative Manager Level
  - Full Process Step Level for Debugging, Revision or IT Forensics

- Avoid the past usual communication ping-pong between RPA Consultant and Process Owner and save time and costs

- Go from ordinary Testing or RPA to **Certification of IT and Process Quality**

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EMMA Studio – ERP Automation example e.g. for SAP Fiori Applications

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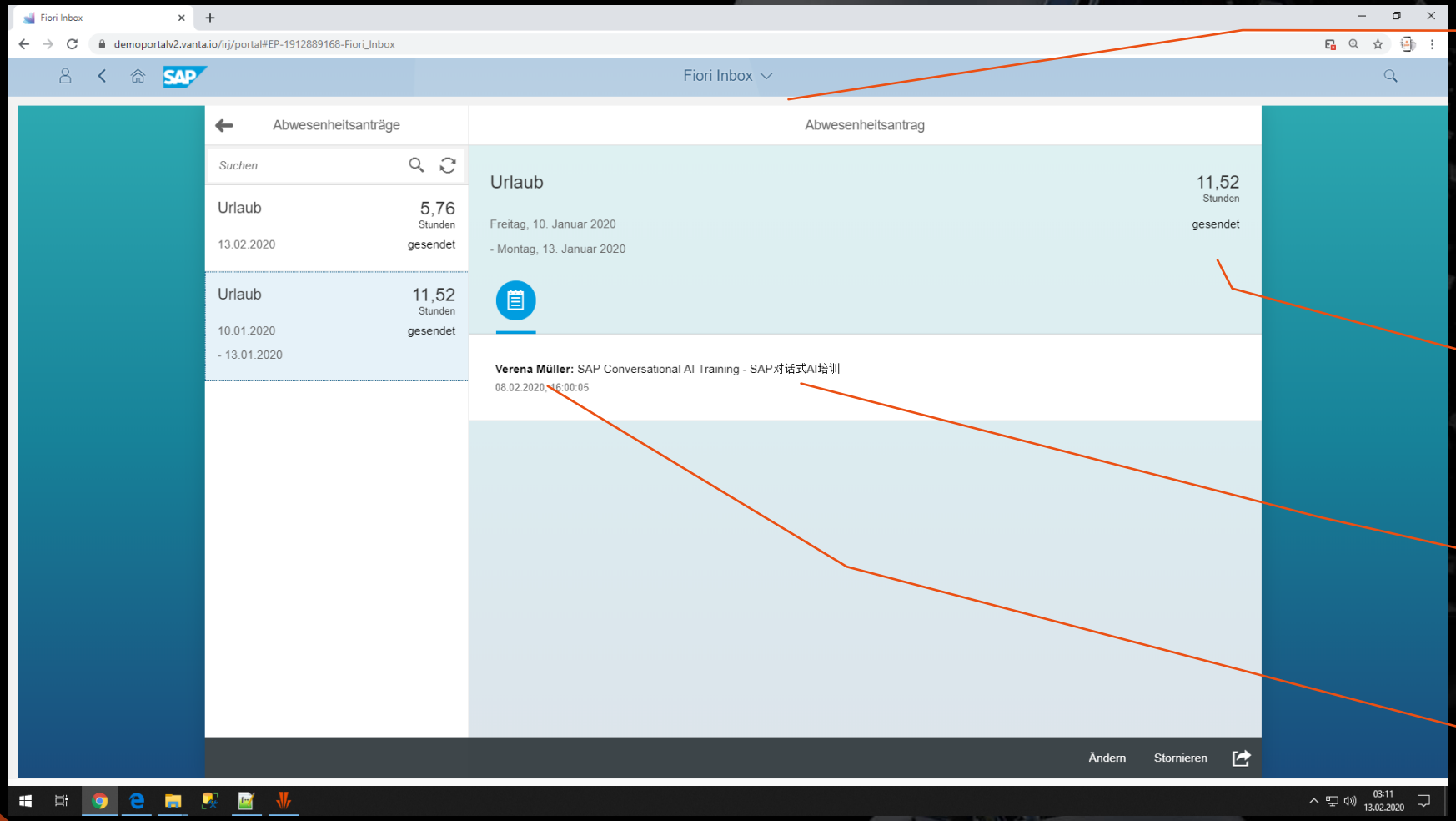

EMMA automates any system interaction like a human does and really **looks** at the screen

E.g. processing a vacation request and checking complete application process flow (e.g. in Banking System, Assurance Portal, ...)

Integrated wrong language detection

EMMA can change user roles and test related process flows before deploying to production

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EMMA Studio – ERP Automation example e.g. for SAP Fiori Applications

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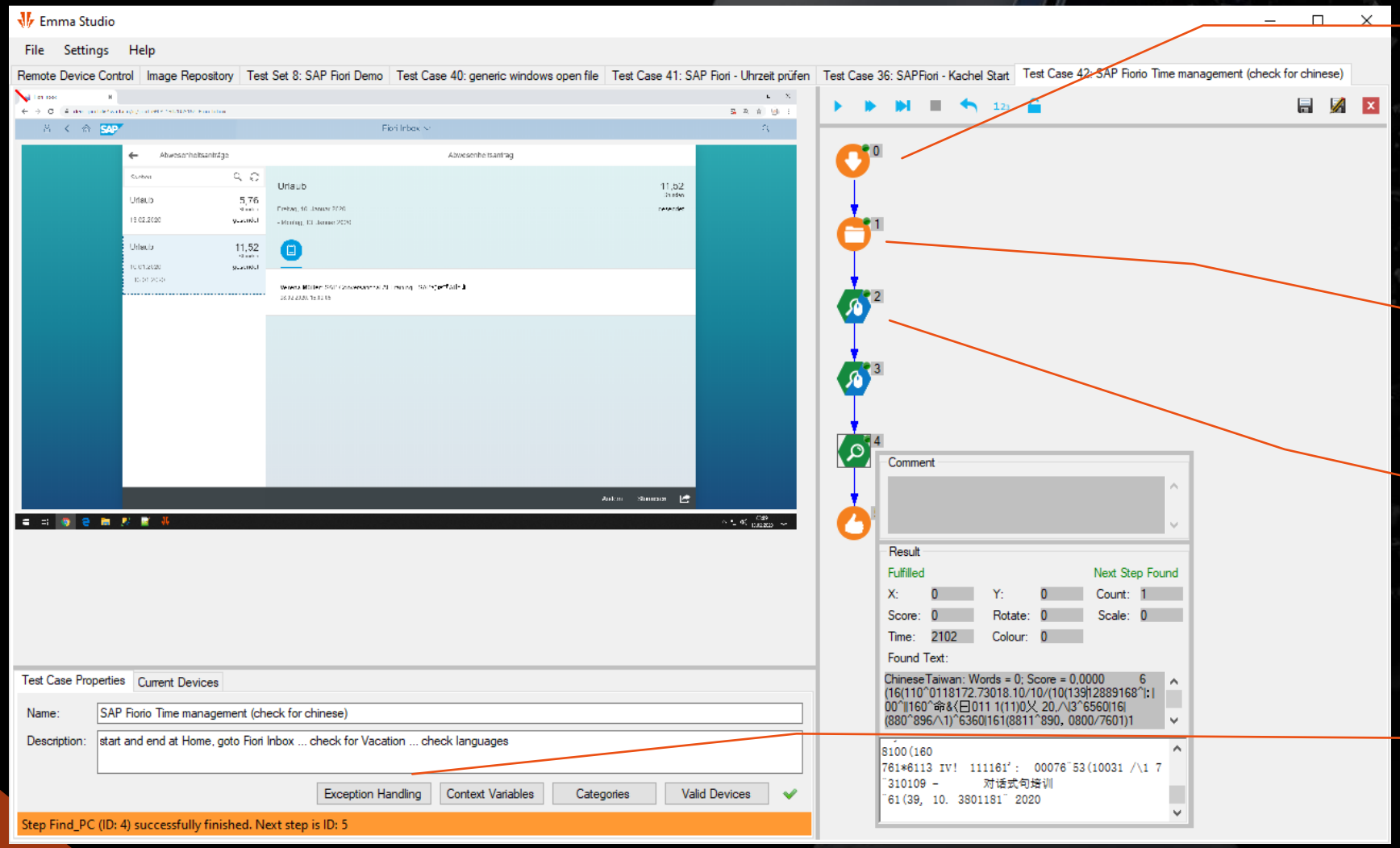

Intuitively configurable processes and related workflows

Nested processes to avoid redundant work (e.g. for Login processes)

Combined „Find & Click" Action to reduce process complexity

Exception Handling for "unexpected system behaviour", e.g. info-, message-, error popups, ...

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EMMA RPA – Examlary Automation Flow (1/2)

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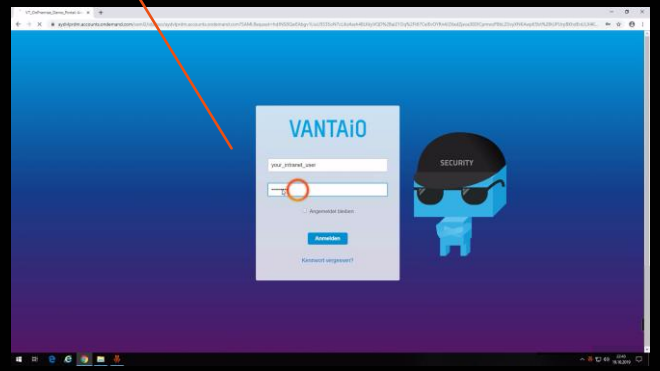
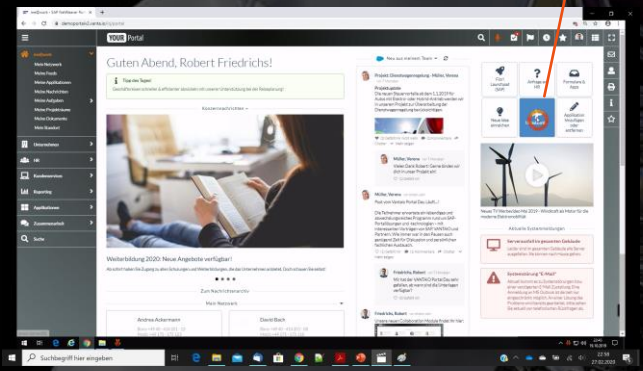
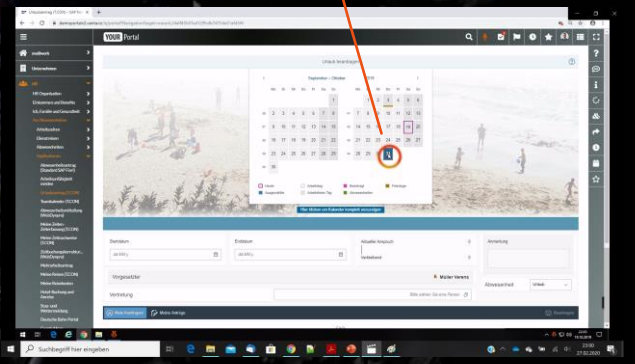
1.) Perform Login



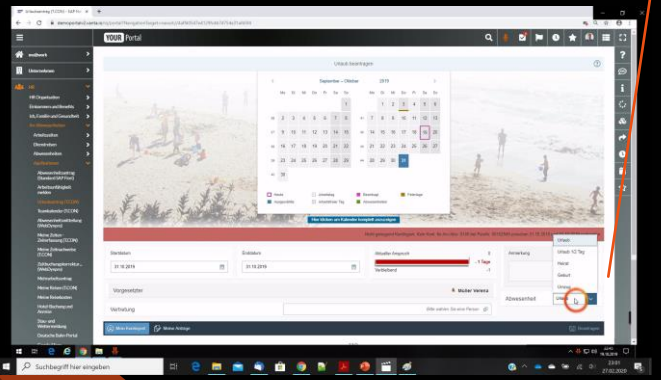
2.) Select Modul



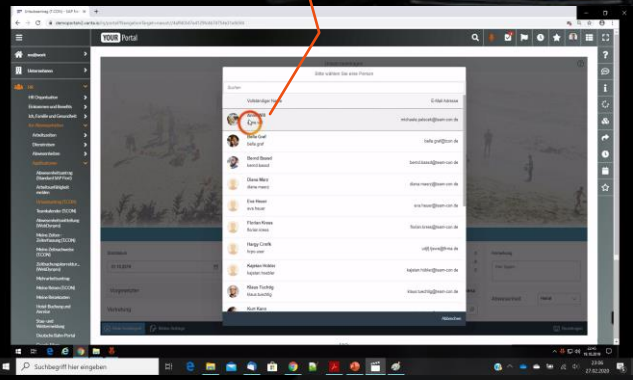
3.) Select Date in Calendar



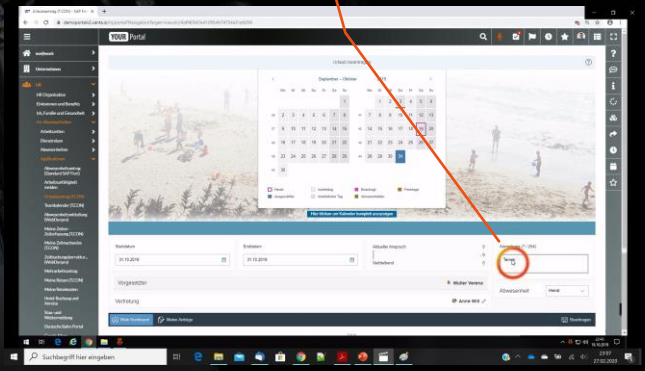
4.) Select Reason from DropDown Options



5.) Select process relevant Person



6.) Enter process relevant Data



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EMMA RPA – Examlary Automation Flow (2/2)

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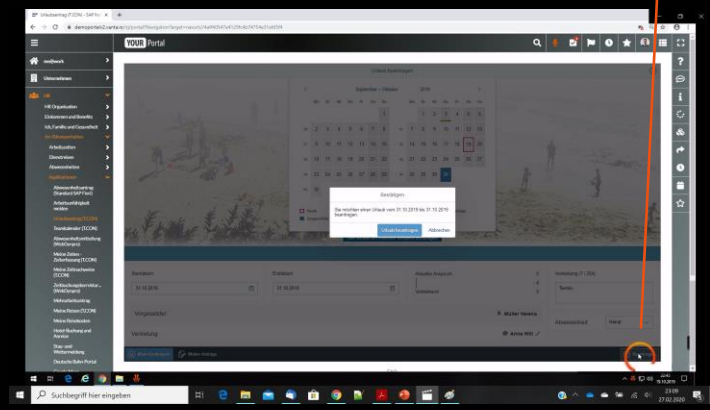
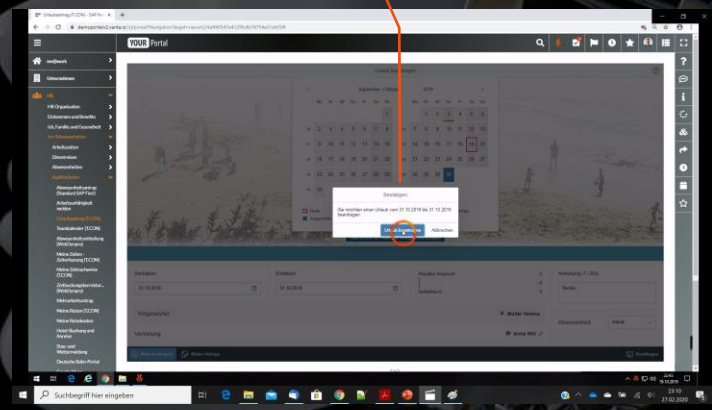
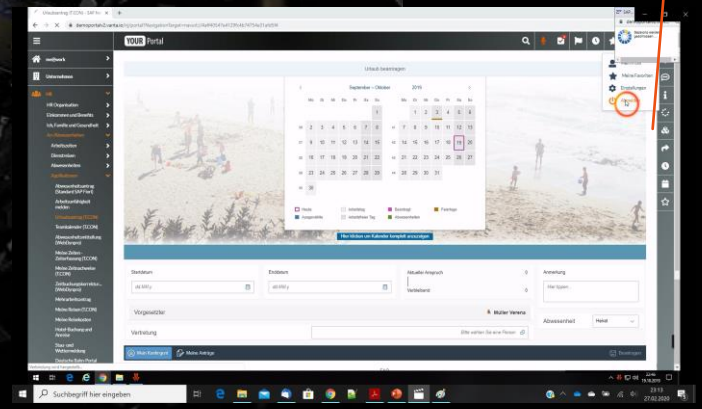
7.) Operate Buttons to proceed in Workflow

8.) Operate Popup Messages based on displayed Text

9.) Finish Workflow, Logout and Close Application







- EMMA is independent from object sizes or positions.
- EMMA can Read and Correlate information from previous steps to later steps.
- EMMA can handle unexpected situations (e.g. close Info-, Message, Warning-, Error Popups).
- If an object changes, you don't have to edit all depending processes.
- No need for developers and skilled engineers. Use the valuable know-how of your employees to automate your processes with EMMA…

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Why is EMMA so advanced?

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1. EMMA sees, what she's doing using Machine Vision and Object Recognition as well as Optical Character Recognition (OCR) and Natural Language Processing
2. She removes the need for qualified RPA engineers or software developers (skills shortage) doing tedious, repetitive jobs for e.g. SAP or Salesforce applications, Assurance Portals, Finance, Accounting or HR Software…
3. EMMA can switch systems and devices within one process in order to check cross system interoperability and correctness (e.g. start Process A on the iPhone and proceed with Process A on the PC or validate the performed tasks by using another system in parallel)
4. Works 24/7 from any location worldwide on any system worldwide
5. Continuous development of AI and Machine Learning capabilities to further RPA (robotic process automation) in order to automate very complex jobs in a company
6. Teams of previously manual operating employees for a certain software system now evolved to offer automation services, using EMMA for other areas in the enterprises and grow the enterprise intelligence by conserving the know-how into EMMA.

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You can get an industrial advantage. Visit, call or email us! Remote Demo available.

Wianco OTT Robotics GmbH

Schlosspark 1
D-64342 Seeheim-Jugenheim
Germany

Michael Wilczynska
- Managing Director -

+49 151 4613 4844
michael.wilczynska@wianco.com
www.wianco.com

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EMMA – Go Automatic.