



This project is co-financed by the  
European Union and the Republic of Turkey  
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finanse edilmektedir

***Gamze Ugur Tuncer***

***QiTASC***

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# Description of the Organization

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## QiTASC: Quality Improving Tools And Services Company

"key task"

### Providing & keeping high quality

- ✓ Automating and validating the digital processes and scenarios end-to-end
- ✓ Developing the necessary tools required to keep high quality

[www.qitasc.com](http://www.qitasc.com)

# Research Interest: Team and Activities

## Functional Testing, Acceptance & Verification

### We have

- end-to-end test automation since 2012
- a strong team of IT and Telco professionals in Vienna and Düsseldorf
- a cooperation with the technical university of Vienna (TU-Wien)

TelCo, IoT,  
M2M &  
Mechatronics

Charging  
& Finance

Retail &  
Logistics

ICT &  
eCommerce

### We absolutely believe in testing early and often

- test driven development & continuous integration are our cornerstones
- intaQt® an **IN**telligent **T**est **A**utomation & **Q**uality-assurance **T**ool

# Quality Assurance and Testing

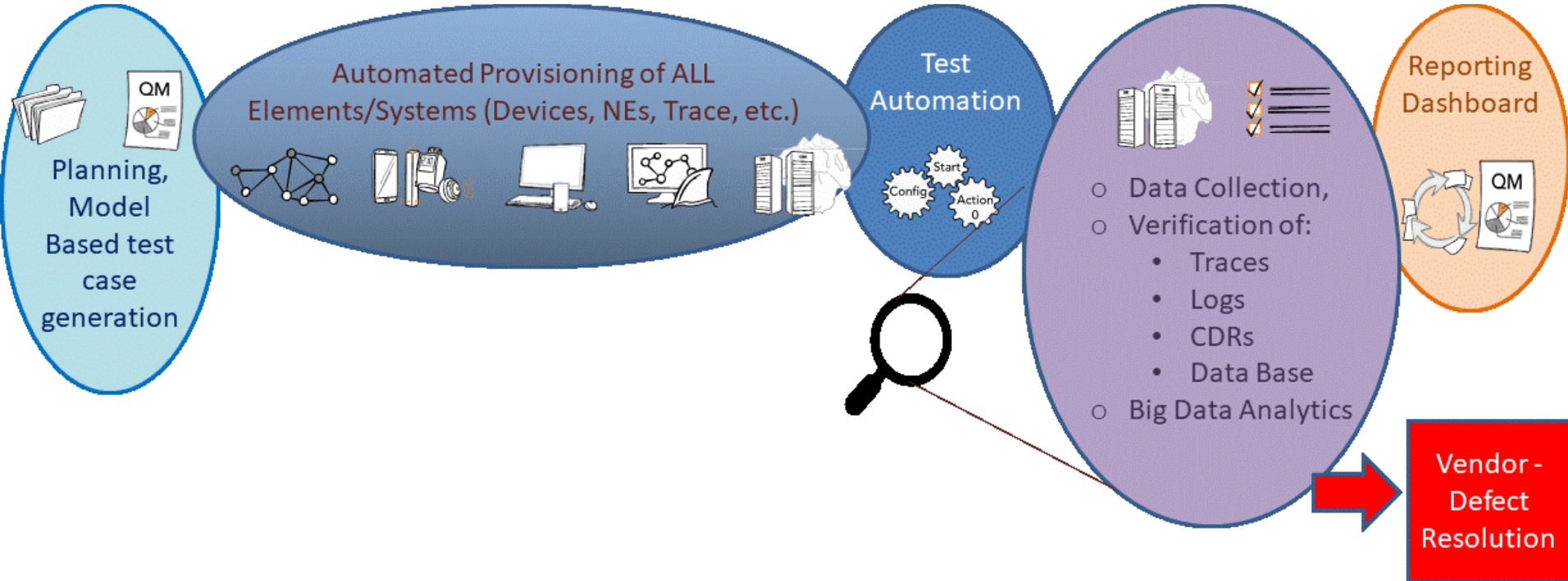
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**‘Customer focused’ digital transformation**  **‘Quality at Speed’**


- digital systems grow increasingly **complex** & businesses become more **reliant** on them
- **Efficiency** and **speed** at QA and testing activities
- **Automation** is key for: quality improvements/better time to market/reduced QA expenses

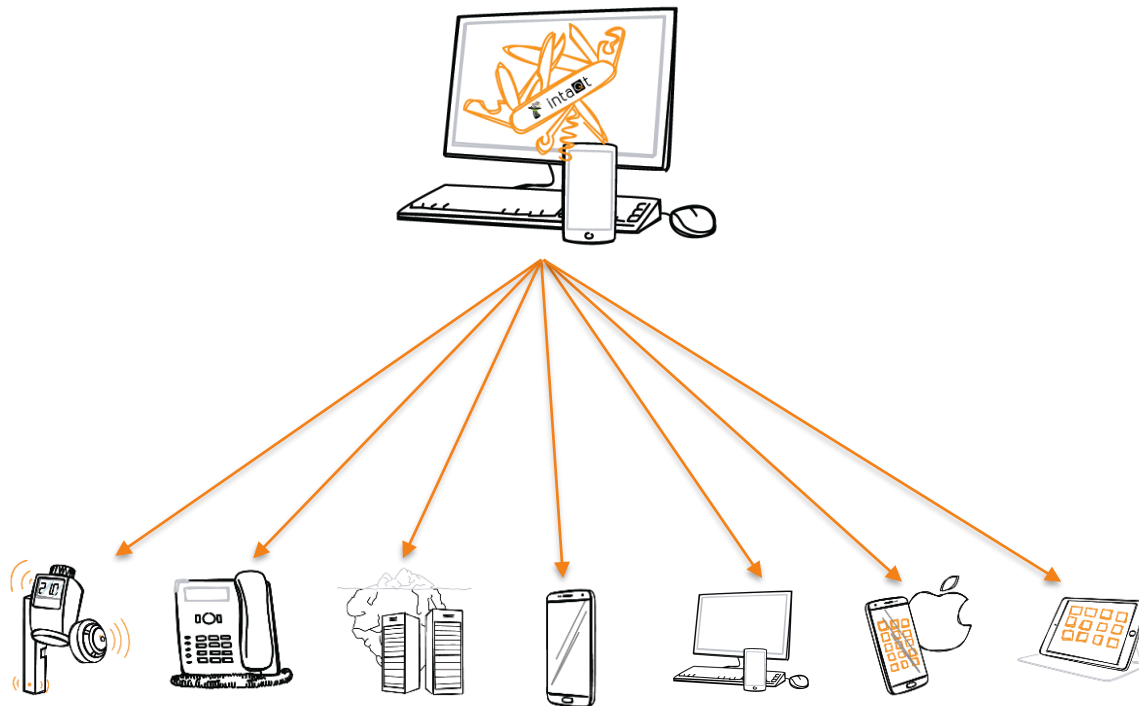
# QiTASC Definition of Test Automation

- **better coverage in automation**, rather than just **shortening** of testing times



# intaQt: INtelligent Test Automation & Quality-assurance Tool

- end-user satisfaction  end-to-end testing
- integrating different technologies in one use case
- **Complex and multi-context systems can easily be automated by intaQt**



# Example: Automated Quality Assurance Applications in the Rise of IoT and 5G

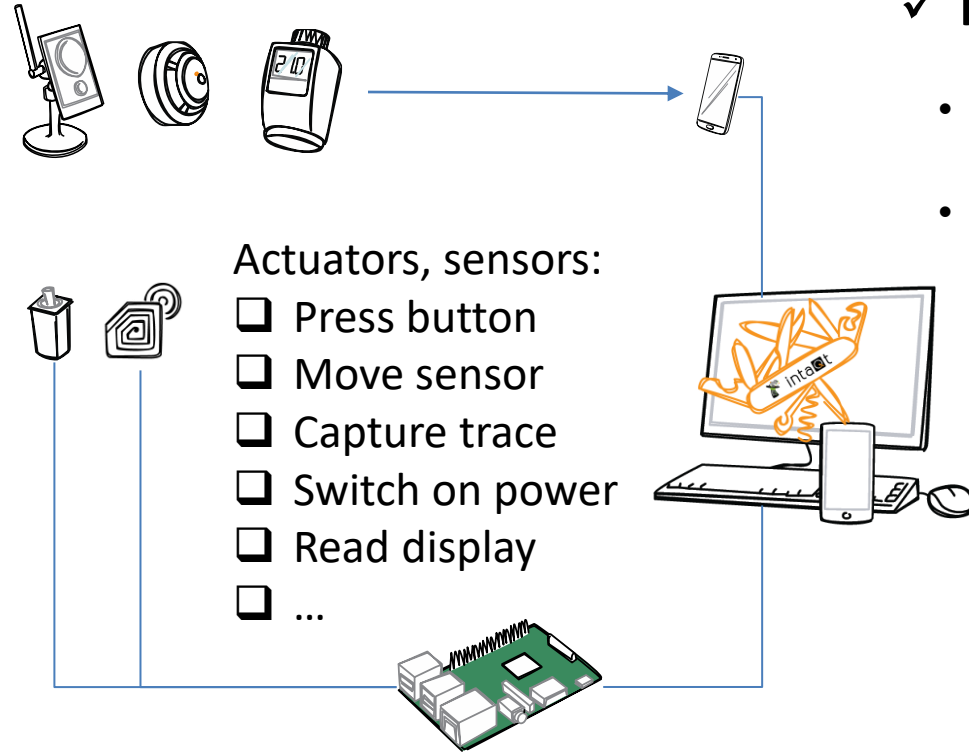
## Problem and Need

1. acceleration of Industry 4.0 & 5G possibilities, swift technological developments take place in IoT area
  - smart factories, smart cities operated by digital systems and IoT devices
  - increasing customer attention on smart home systems
    - more complicated systems and processes to be tested
    - shorter time to market, high quality and profit
  - **Requirement: Increasing the efficiency of IoT tests**
  - **Solution: Automated Quality Assurance Concept in IoT Systems**

# IoT Device Automation Set up

Does device work properly? Does it communicate with its App correctly?

IoT Devices



Electronic layer to control actuators, sensors, etc.

## ✓ IoT test automation is uniquely challenging

- IoT Device automation requires physical interaction
- QiTASC has developed housings in which we integrate actuators, sensors, motors, fans, etc. to enable interaction with the IoT devices.

IoT Device automation requires an electronic layer and a mechanical layer.

- ✓ easier to repeat the tests
- ✓ quicker to find defecets
- ✓ quicker to go live



# Project Idea

We would like to be testing partner in related industry or research projects and bring in value about test automation.

- ✓ HORIZON-CL4-2022-TWIN-TRANSITION-01-06: ICT Innovation for Manufacturing Sustainability in SMEs (I4MS2) (Made in Europe Partnership) (IA)
- ✓ HORIZON-CL4-2022-TWIN-TRANSITION-01-07: Digital tools to support the engineering of a Circular Economy (Made in Europe Partnership) (RIA)
- ✓ HORIZON-CL4-2022-RESILIENCE-01-21: Leveraging standardisation in Digital Technologies (CSA)

**We provide intaQt Test Automation Framework and know-how to increase efficiency in quality assurance activities.**

## •Objective

- to optimize end-to-end quality assurance activities in digital products and services via enhancing test automation framework, e.g. in telecommunication, smart manufacturing, smart buildings, smart city applications etc..

## •Expected results

- increased efficiency in testing framework via automation
- Decreased time to market, increased profit margins



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