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We test mobile apps and websites. We call that crowdtesting.

Testing software the crowdsourced way – How to enhance software quality by utilizing real people and real devices Q

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## Successful with a strong technical background

Formation	<ul> <li>✓ Founded 10/2011</li> <li>✓ Origins in the enterprise software testing market (automated testing of service desks)</li> </ul>	
Business objective	<ul> <li>Conducting of functional, exploratory and usability testing</li> <li>(Delivering testing services from the cloud)</li> </ul>	
People	<ul> <li>Head office in Munich, local offices in NL, UK and HU</li> <li>Strong experience in project management of usability and functional testing projects</li> </ul>	0
Local coverage	<ul> <li>D/A/CH, NL, UK and HU</li> <li>Others on request</li> <li>Broad range of different test panels and software testers</li> </ul>	



### What is Crowd testing?





#### **Organizational Blindness**

Have you really tested everything?

Highbury & Islington to Good service West Croydon Additional information For the benefit of passengers using Apple iOS 6, local area maps are available from the booking office. Transport for London MAYOR OF LONDON



### **Device diversity**

#### Do you really have access to every device?





#### Target group relevance

Do you know your target group?





#### Insufficient tests in practice

Time pressure, lack of detail and project prioritization



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Test

# How do we end up with user issues and bugs?

QA, Market Analysis and Time Constraints



**Organizational Blindness** So is everything really fine? Unbiased users can help you test differently.



**Device Diversity** Do you actually have all of these different devices ready to test?



**Target Group Relevance** Target groups have different expectations and abilities.



Lack of Resources

Due to time pressure, lack of personal details and priority of other projects.



#### Process

## The smart solution: Crowdtesting



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#### **Tester & Devices**

#### Our Testbirds Crowd covers all terminal devices and target groups.



#### **Terminal Devices and Systems**

- ✓ All combinations of devices, browsers and operating systems
- ✓ Mobile: iOS (4, 5, 6), Android, Windows Phone (8), Blackberry OS
- Desktop: Windows, Mac OS, Linux, FF, IE, Safari, Chrome, Opera Facebook Apps, Rich Client-Applications, regular Desktop Software and many others
- ✓ Device is not under lab conditions but under real environments e.g. at home, underground, shopping...
- ✓ Testers are in different countries: D/A/CH, UK, US, NL, HU plus many more...



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# The options of crowdsourced testing



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### How can crowd testing help? 2 examples.

	Hotel booking- Evaluation of 3 prototypes	eHealthplatform – End-to-end testing
Tester	<ul> <li>✓ 20 Testers</li> <li>✓ profile: 50 % female, 50 % male, 25 years and up, large cities, Smartphone)</li> </ul>	<ul> <li>✓ 30 Testers (profile: 25 % female, 75 % male, 55 years and older,</li> <li>✓ Type-2-diabetes mellitus)</li> </ul>
Devices	✓ Apple iPhone 2G, 3G(S), 4(S) with iOS versions 4.x, 5.0, 5.1 und Beta 6	<ul> <li>✓ Blood sugar monitoring devices</li> <li>✓ Different browsers</li> <li>✓ Tablets with Android and iOS</li> </ul>
Duration	✓ 5 days	✓ 12 days
Results	<ul> <li>Management summary</li> <li>20 detailed test reports, broad usability feedback and also an specific report stating the optimal solution</li> </ul>	<ul> <li>Management Summary</li> <li>Detailed list of all defects</li> <li>30 detailed test reports for the eHealthplatform</li> </ul>

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# Case Study CeBIT2GO App



- Live version of the CeBIT App:
  - Registering process
  - Events & presentation
  - 🕴 Fair guide
- 20 testers: iOS & Android
- BugAbility<sup>®</sup>
- End-to-end test with test tickets



# Case Study CeBIT2GO App – Functionality

- Various crashes
- Navigation with no content
- Several buttons without functionality
- Ticket registration not possible (!)
- English error messages



Bugs (Severity)



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# Case Study CeBIT2GO App – Usability



#### Negative feedback

- Landing page is quite empty and not well used
- Only very specific, no general information is available

#### Recommendations for action

- Add more functionality ,
   e.g. search functionality , news feed
- Supplying general information





# Case Study CeBIT2GO App





Comparison of QA and crowd testing: A Supplement.



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# Upshot: Crowd testing is an excellent supplement to QA.





#### Your contact



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Just call me, if you have any questions!



