

GBA Workshop, Minneapolis, August 2019

Alina Siemsen, Project Manager – Portfolio Development Aon's Assessment Solutions



### **Your Global Assessment Partner**







**30M**Assessments per year



**120** Countries



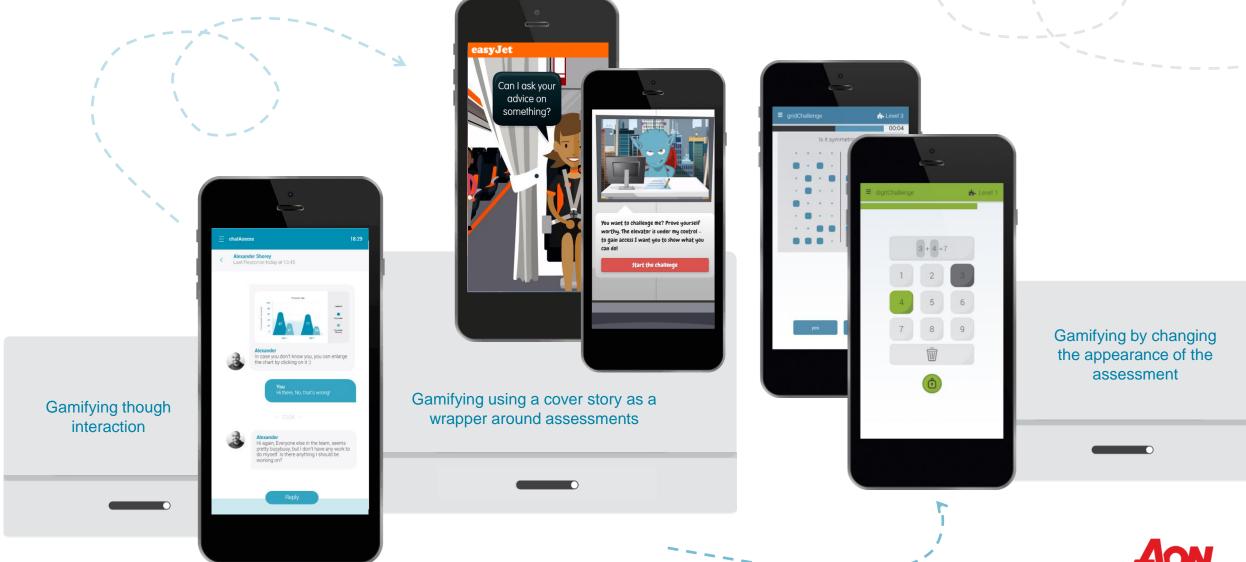
**40** Languages



**2,000**Global Talent colleagues



### Gamification in Assessments – where we started



## smartPredict – Our Gamified Cognitive Suite

Gamified approach to assessing cognitive capabilities



Choose among four challenges in the suite:

- motionChallenge: Complex planning capability
- gridChallenge: Working memory
- switchChallenge: Deductive logical reasoning
- digitChallenge: Basic numerical comprehension











#### **Overall Impression of the Company**

91% better than or equal to traditional assessment

#### **Perception of Fairness**

88% better than or equal to traditional assessment





#### **Holds Attention**

96% of users are motivated to do well 93% better than or equal to traditional assessment

#### **Engages Participants**

94% better than or equal to traditional assessment



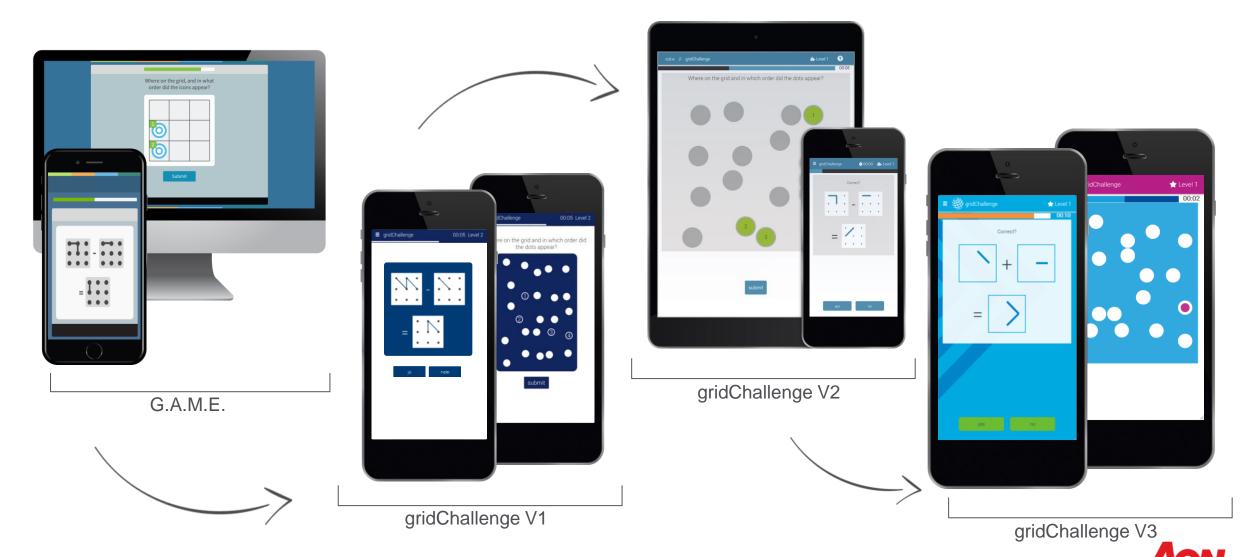


#### **Predicts Performance**

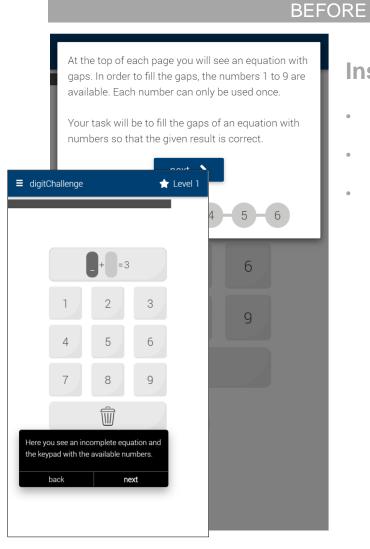
88% better than or equal to traditional assessment 2x as likely to be above average in customer interaction ratings and 1.5x in critical thinking performance



# Continuous development of smartPredict



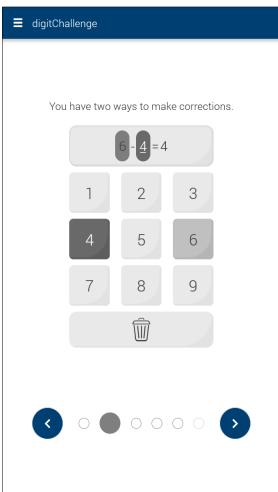
## Instruction Update



#### Instructions before:

- Long texts with very detailed descriptions
- Focused on explaining every detail of the test
- Required the candidate to interact with the assessment during the instructions

### AFTER

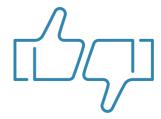


#### **New tutorial:**

- Less text
- Animations explain how to complete the assessment
- Compact and enganging
- Straight forward and clean user interface
- Easy to understand



## Continuous development means continuous research



### **Applicant Reactions**

- → Original vs. Gamified Versions
- → Desktop vs. Mobile ←
- → New vs. Old Instructions ←
- → Branding vs. Standard



#### Equivalency

- → Desktop vs. Mobile
- → Original vs. Gamified Versions ←



### Adverse Impact -



- → Gender
- → Ethnicity

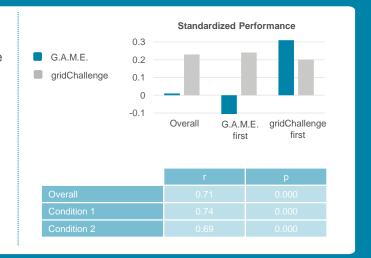
# Equivalence Study G.A.M.E./gridChallenge

#### **Performance Equivalence**



An **equivalence study** was conducted between May 2019 and June 2019 to determine the equivalence of performance between the G.A.M.E. and gridChallenge assessments provided by an MTurk sample. A total of 306 participants provided complete and usable data for both assessments (68%).

Results indicate a **strong relationship**. While there is no commonly agreed upon standard of equivalence, a correlation of r = .71 generates fairly strong **evidence of equivalence**.



Results prove that G.A.M.E. and gridChallenge **measure the same construct**.

gridChallenge and G.A.M.E. have a different look and feel but capture similar information. Therefore, it is fair to assume that the technical documentation that has been done for G.A.M.E. can be applied to gridChallenge, and vice versa.



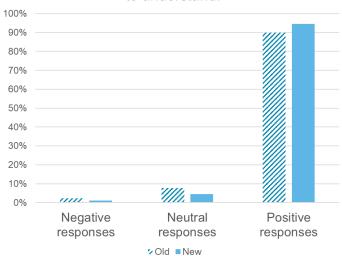
## Research Study Adverse Impact and Mobile/Desktop Equivalence



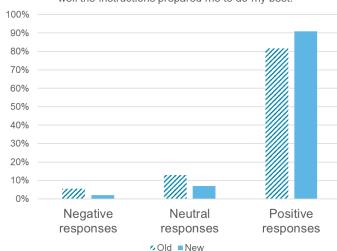


## User acceptance study results

### The instructions for this activity were easy to understand.



If I were completing this activity as part of a job application process, I would feel comfortable with how well the instructions prepared me to do my best.





Overall Applicant Reactions: the reactions are positive to a larger extent than the previous study on the old instructions



Adverse Impact Analyses: No evidence of adverse impact for age or race/ethnic subgroups; preliminary evidence indicates potential for adverse impact for gender

#### **Study Design**

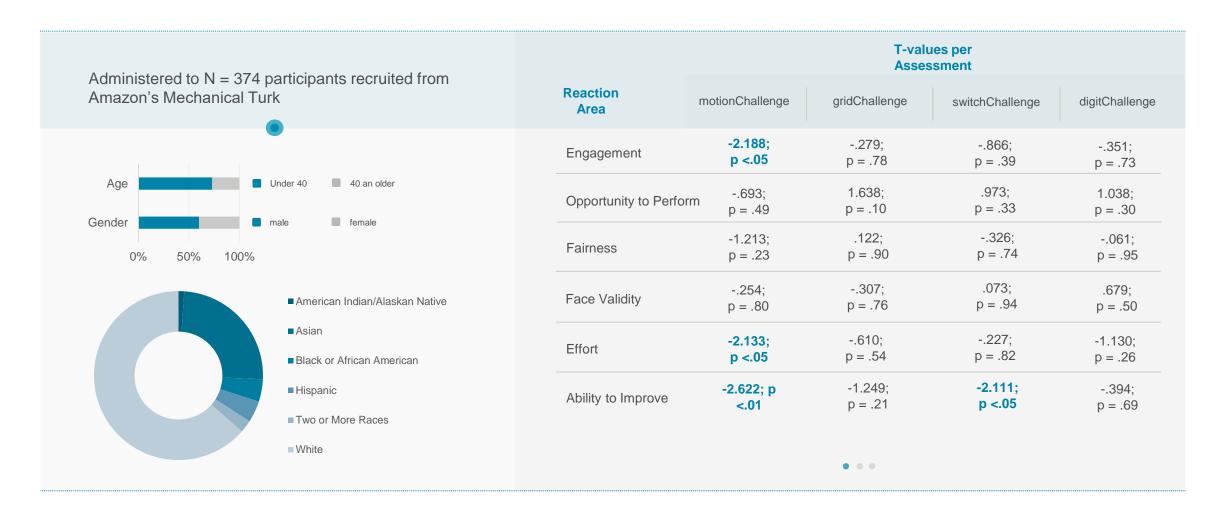
A total of 211 participants completed digitChallenge with new instructions an applicant reactions questionnaire directly afterwards.

The results were compared to a previous study (smartPredict Applicant Reactions Results, July 2018).





### Applicants Reactions Desktop vs. Mobile



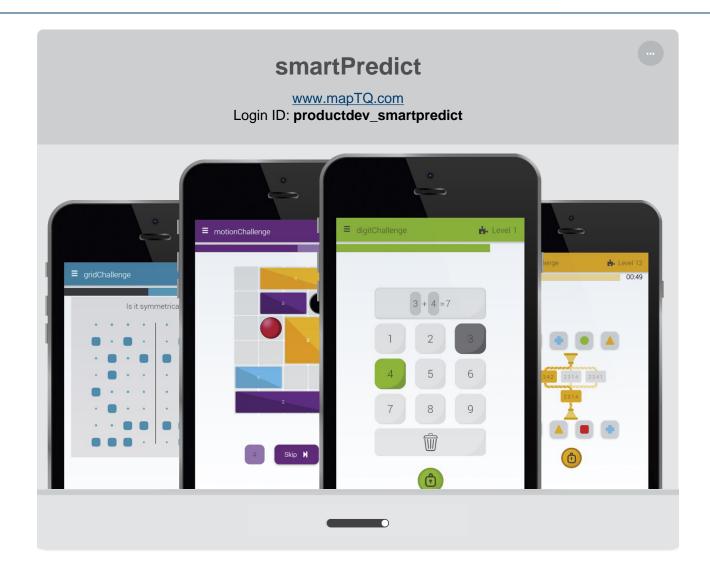


## Logins



Try it yourself!

- Use the link and enter the Login ID
- Feel free to enter a pseudonym for name and e-mail address when asked for it.







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