

### **VSR|EDU**



# **Current Trends** in Web Engineering

Prof. Dr.-Ing. Martin Gaedke

Technische Universität Chemnitz

Fakultät für Informatik

Verteilte und selbstorganisierende Rechnersysteme



### Beyond traditional user story frameworks

- Scrum:
  - ► As a <user/role>
  - ► I want <functionality/goal/desire>
  - ▶ so that <business value/benefit received>.
- Behaviour Driven Development
  - ► In Order To... <receive benefit>
  - ► As A... <user/role>
  - ► I Want... <goal/desire>
- Hypothesis Driven Development (HDD)\*
  - ▶ We believe <this capability>
  - **▶** Will result in <*this outcome*>
  - ► We will know we have succeeded when <we see a measurable signal>

\* http://barryoreilly.com/2013/10/21/how-to-implement-hypothesis-driven-development/



### **HDD** Example

#### Hypothesis Story Card Example:

- We Believe That increasing the size of hotel images on the booking page
- Will Result In improved customer engagement and conversion
- We Will Know We Have Succeeded When we see a 5% increase in customers who review hotel images who then proceed to book in 48 hours.
- Combining Agile and HDD\*:
  - ► Effective monitoring and evaluation tools are required to measure the impact of testing efforts
  - ► Agile software development focuses on "working software" as the primary measure of progress.
  - ➤ Combining Hypothesis-Driven Development with Continuous Delivery, we define "working software" and "validated learning" as the primary measures of progress.



\* http://barryoreilly.com/2013/10/21/how-to-implement-hypothesis-driven-development/

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Example Backlog (1<sup>st</sup> approach)



### As Student

- (simplified Example...)
- I want to attend the lecture, ...
- Need:
  - ► Acquire new knowledge / Understanding
    - ☐ To be better then competitors
  - ► Freedom
    - ☐ To have a freedom of choice for the job I like
  - ► Protection
    - ☐ To get a well-paid job



## HDD – any ideas? How to proceed?

- We believe <this capability>
- Will result in <this outcome>
- We will know we have succeeded when <we see a measurable signal>

