



NOKIA

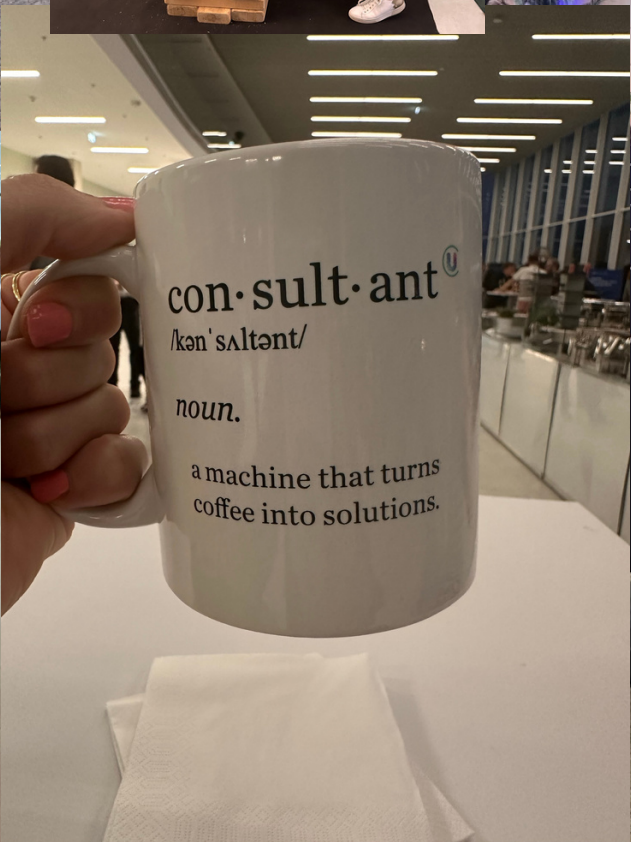
*Hungarian Software
Testing Forum*

HUSTEF

3-5 October 2023









Make your impact with testing

TESTING IS ABOUT
GIVING FEEDBACK !



When technology meets art &
innovation :

MAGIC CAN HAPPEN !



-Observability- Characteristics of valuable outcome

- NO PRE-AGGREGATION
- ARBITRARY WISE EVENTS
- EXPLORATION OVER STATIC DASHBOARDS

Obervability is a tool and each technique has its use cases and challenges



**Without stakeholders, we have
no mandate to test**

WHAT COULD POSSIBLY GO WRONG ?



Motivational leadership tips !

WE DON'T NEED TO PRETEND THAT ALL IS WELL ...

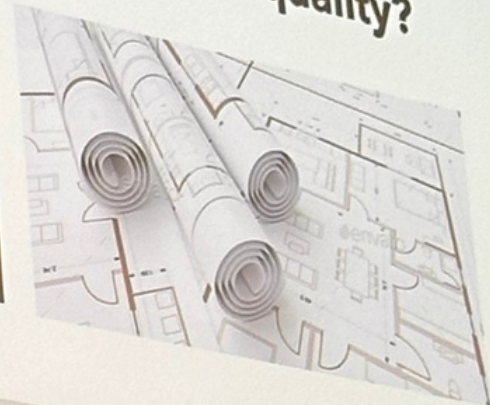
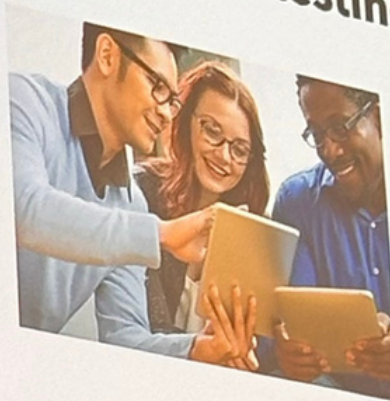


Gergely
ÁGNECZ

OTP BANK

The main question:

How can we achieve better test distribution, more accurate testing and higher quality?



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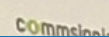
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 **NOKIA**

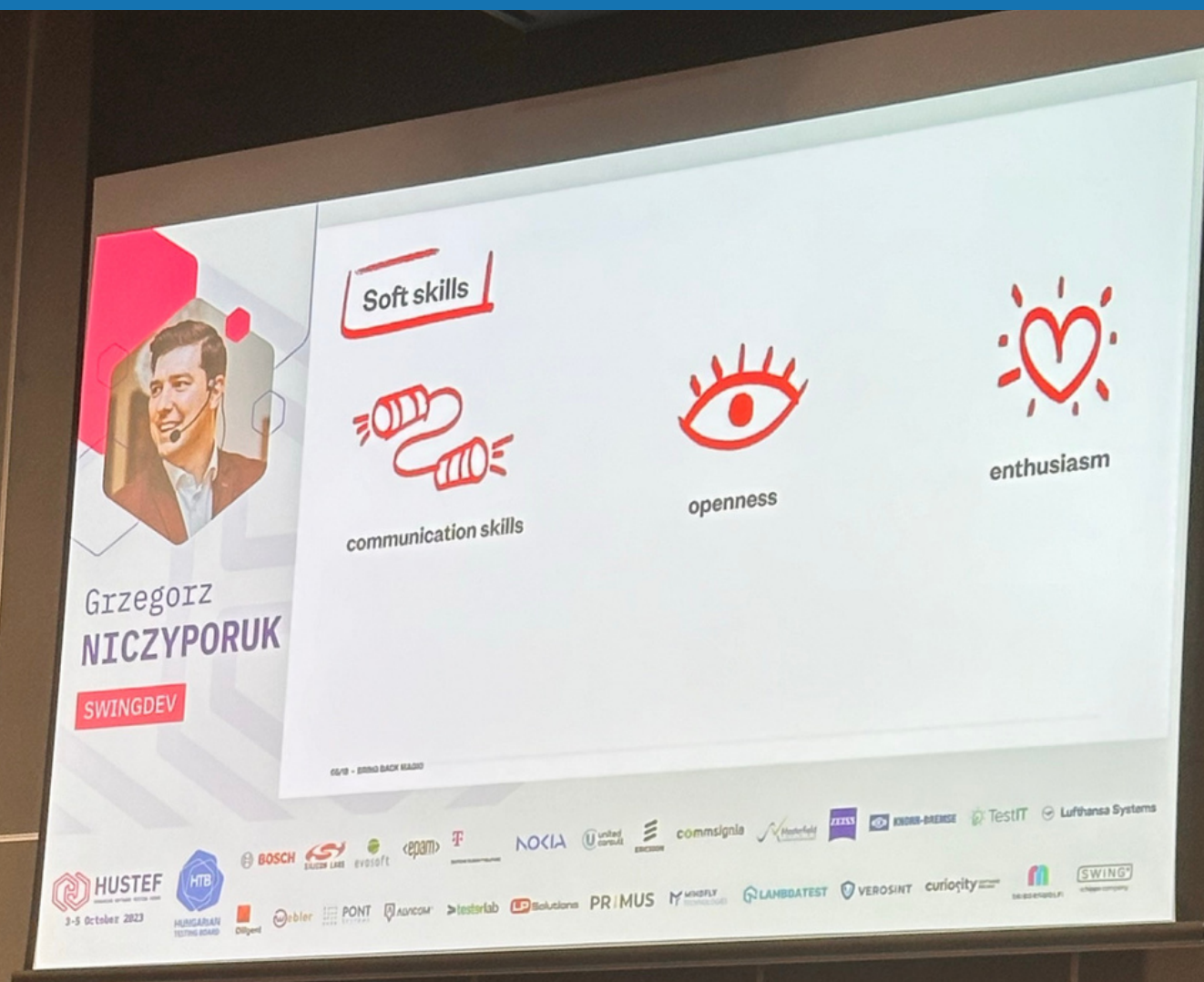
 **united
consult**



 **commsignia**

Where there is always room to improve ? ==> Play with the testing Pyramid

- **Unit Testing:** Spend less time & TDD needs expertise and time (avoid TDD)
- **Component and Contract Testing:** For unreachable cases & Early feedback
- **UI based testing:** Test on high level, cost of fancy UI



Magician skills into Software Testing

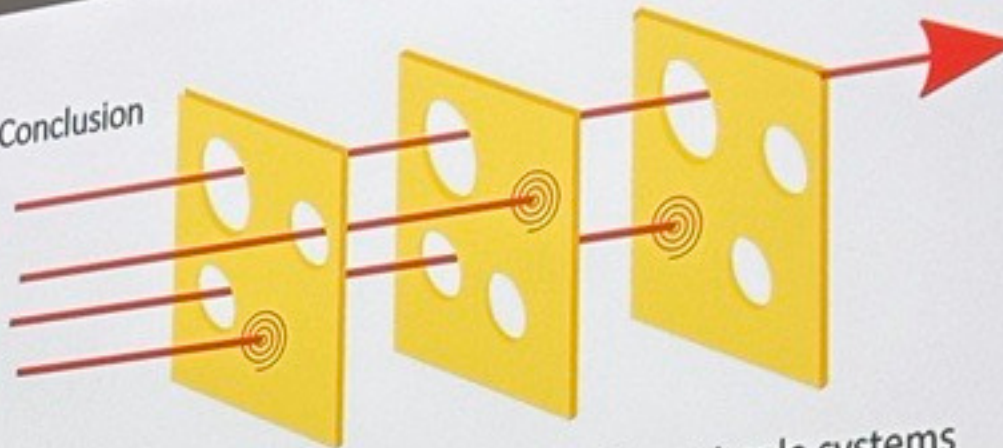
IT'S A PEOPLE BUSINESS; "IF YOU LEARN TO WORK WITH PEOPLE YOU ARE 90% SUCCESSFUL!"



Andrew
BROWN

EXPLEO GROUP

Conclusion



1. Complex systems fail in different ways from simple systems
2. The Swiss Cheese Model can help us think about failure & defences
3. Removing minor bugs may be important (3rd power effect)
4. We need to better prepare teams to respond to failure
5. Please read **How Complex Systems Fail** by Richard Cook

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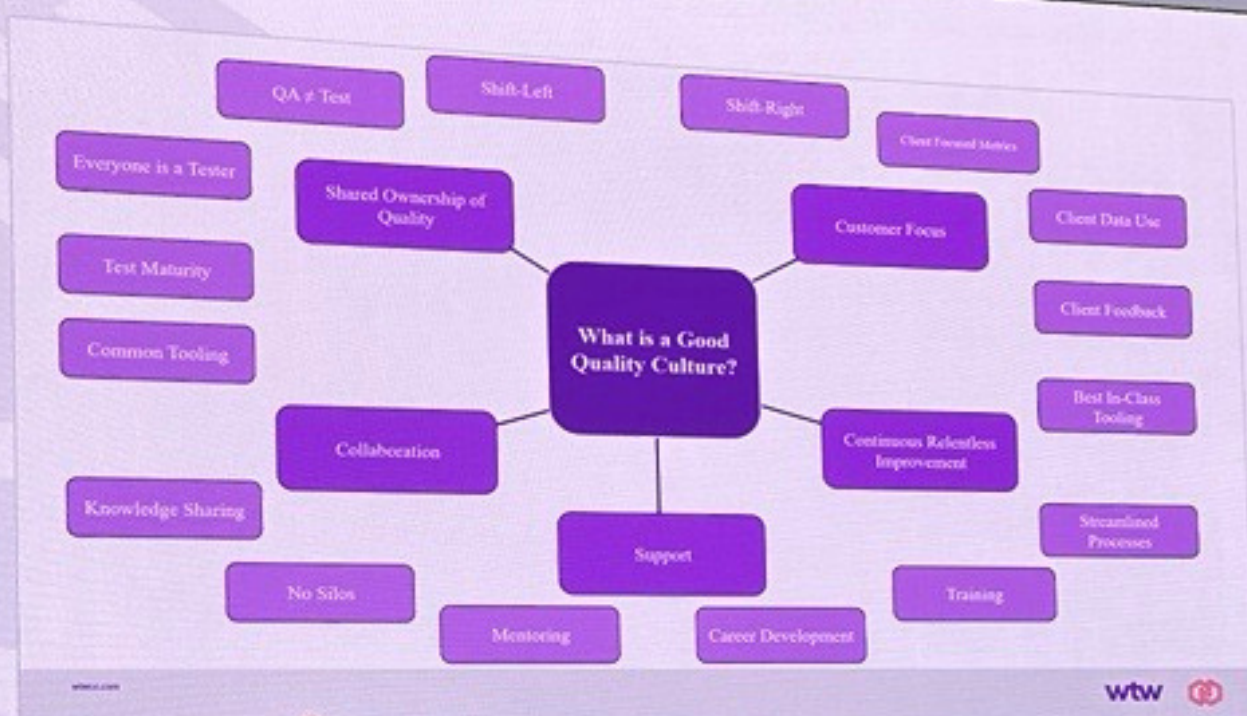
Testing and QA cannot find every problem

FAILURE IS ALWAYS A POSSIBILITY: WE SHOULD PREPARE FOR IT ...



Steve
JEFFERIES

WTW



wtw

Two important questions:

- WHAT IS THE EXPECTED LEVEL OF QUALITY?
- HOW FAR AWAY FROM THIS WE ARE?

Risk Identification

Initial notice of a risk with the rule of three

1. Three concepts
2. Three words
3. Three techniques

For example, State Transition Testing, Control Flow Testing and Data Combination Testing

GIVEN the system is in state X
WHEN unwanted event is fired
THEN the effect is

GIVEN the application is at flow diversion point A
WHEN path # is taken
THEN the effect is

GIVEN the software is running
WHEN data [M, N, O, P] is combined
THEN the effect is

Use techniques that
fit you / your project

The rule of 3

TELLING

Pick 3 : our brain works this way ! not too much

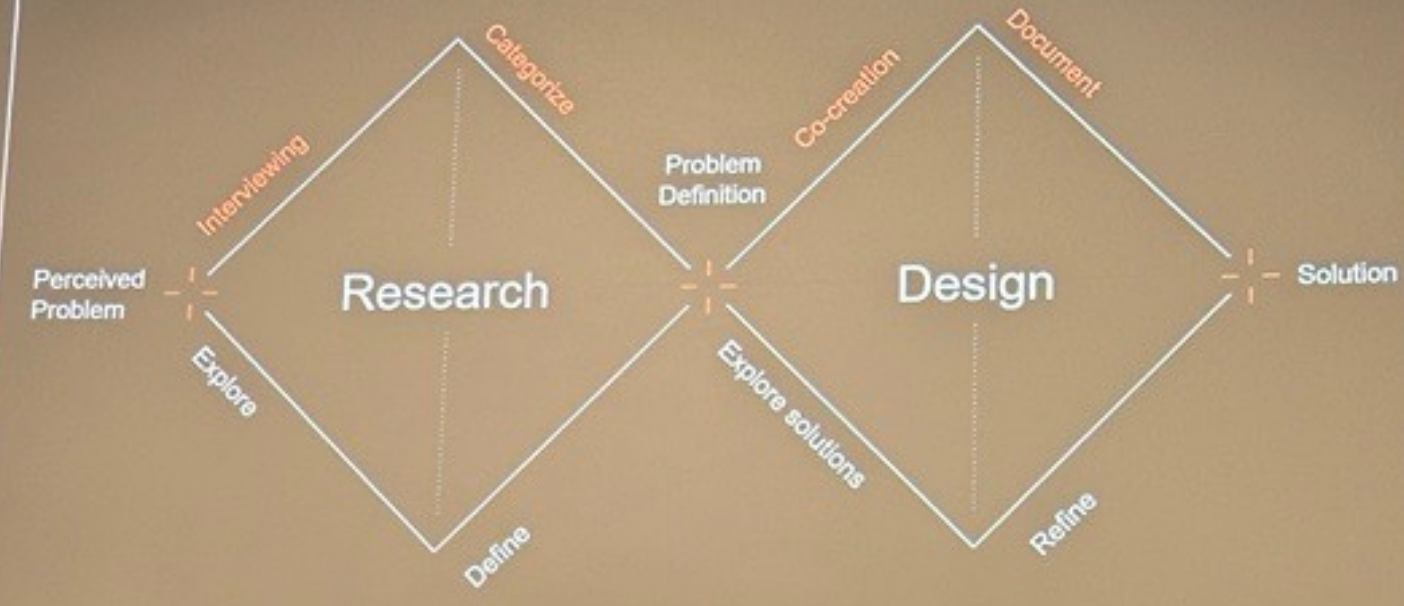
3 WORDS, 3 LEVELS, 3 TECHNIQUES



Jani
GRÖNMAN

HIDDEN TRAIL

Double diamond: a diverge - converge model for researching the context and solutions



Perceived Problem

Interviewing

Explore

Define

Research

Problem Definition

Co-creation

Document

Design

Explore solutions

Refine

Solution

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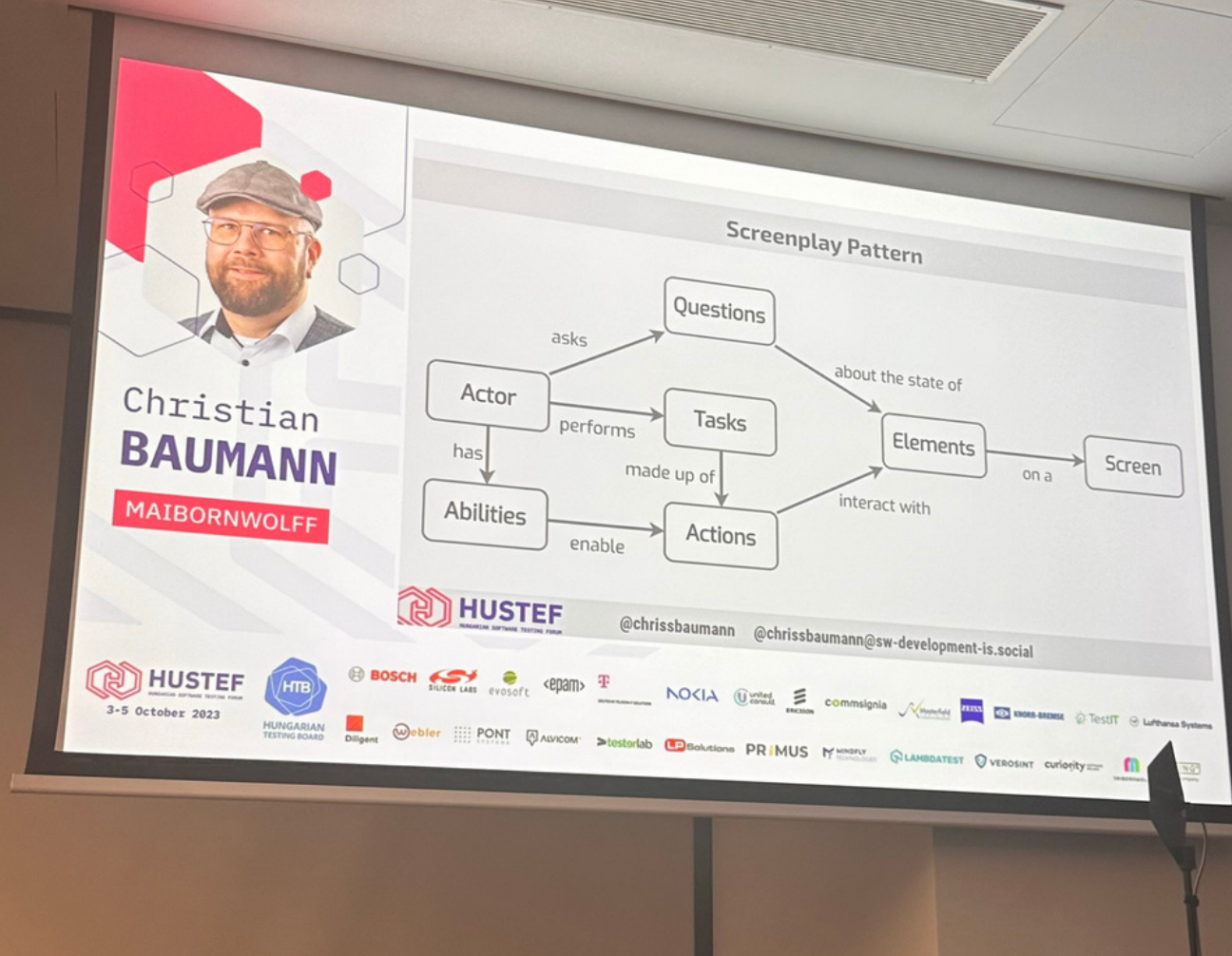
LAMBDATEST

VEROSINT

curiosity

SWING

QA assessments : you can't deliver value without understanding



Design patterns to boost your test automation

DESIGN PATTERNS IS A COMMON WAY OF BUILDING THINGS THAT SOLVE A KNOWN PROBLEM

CREATIONAL

BEHAVIORAL

STRUCTURED

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