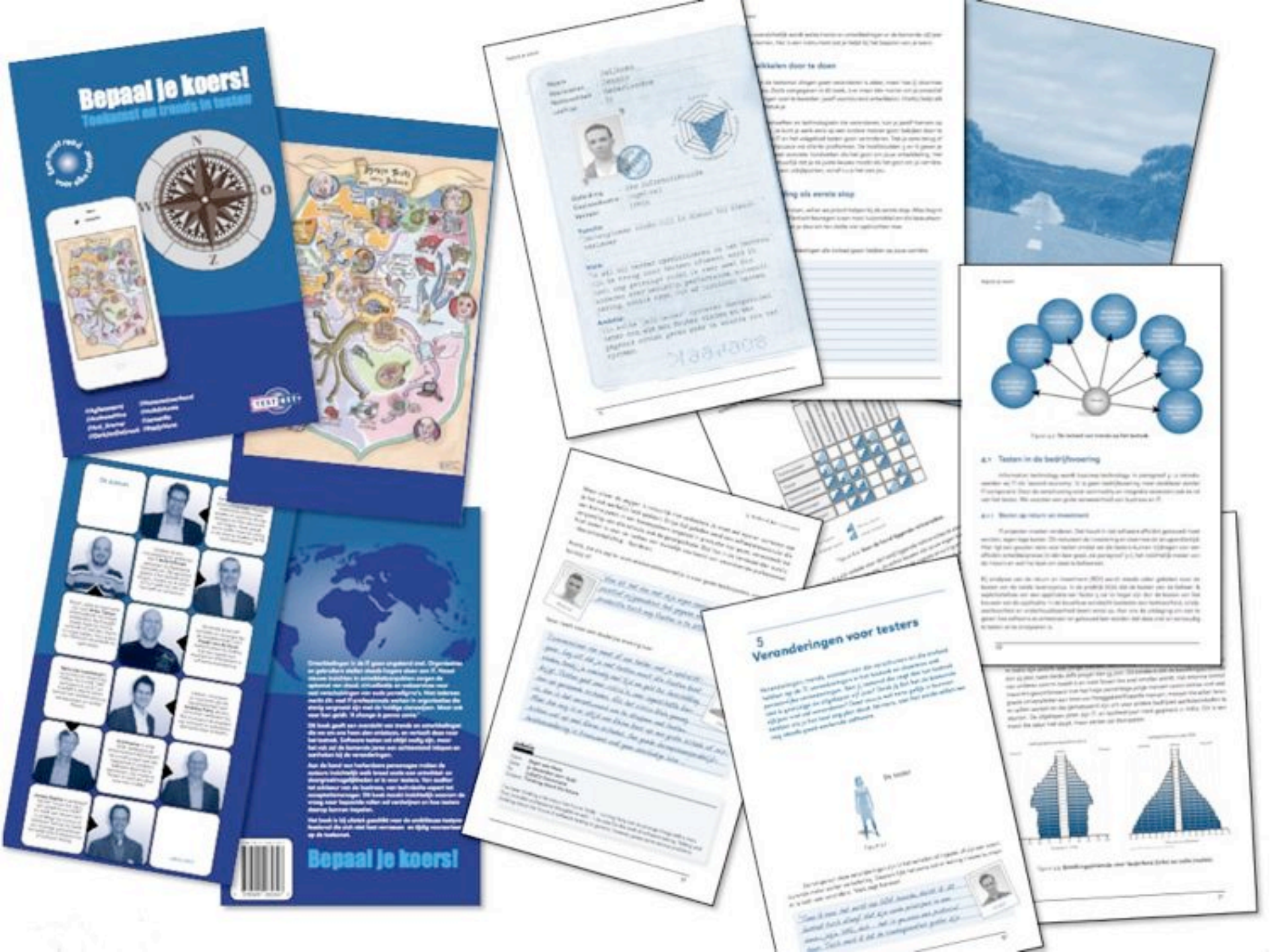
Set your Course

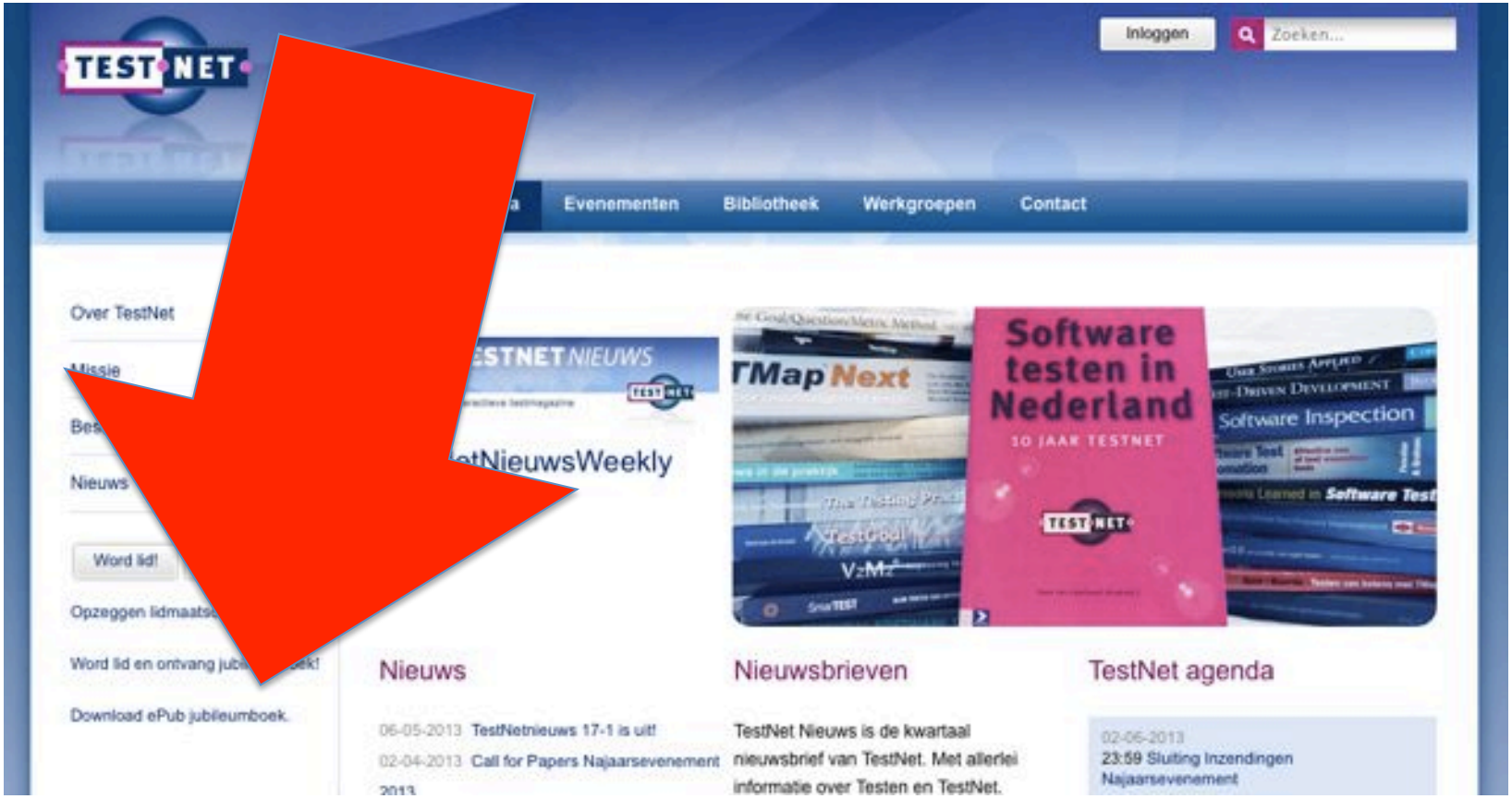
Future Roles and Trends in Testing

Huib Schoots
codecentric

Bepaal je koers!
Toekomst en trends in testen
Een must read voor elke tester
N
O
Z
W
@Agiletesterl
@AndreasPrins
@Ard_Kramer
@DerkJanDeGroot
@HansvanLoenhoud
@HuibSchoots
@JeroenRo
@PepijnVorst
TEST NET


Bepaal je koers!
Toekomst en trends in testen
Bepaal je koers!
5
Veranderingen voor testers

https://www.testnet.org



Main message

- Times are changing, are you?
- IT is changing fast
- Adapt or …

Trends in the world

- BRIC countries
- Demographic changes
- “Property” changes in “use”
- Compliance
- Ecological awareness
- New energy sources
- Technological improvement

Trends in the way we work

- DEVOPS
- Agile
- Continuous Integration / Delivery / Deployment
- Flexible working
- BYOD
- Self steering
- Visual thinking

Trends in IT

- Cloud
- Appification
- Mobile
- Open source
- Social media
- Collaborative apps
- Geographic data
- Big data

Discuss

- What are the most important trends that will impact our craft?
- What are the skills testers need to cope with the change ahead?
- What makes you a Hero or Zero?
- What do you need to do to Qualify or Disqualify?

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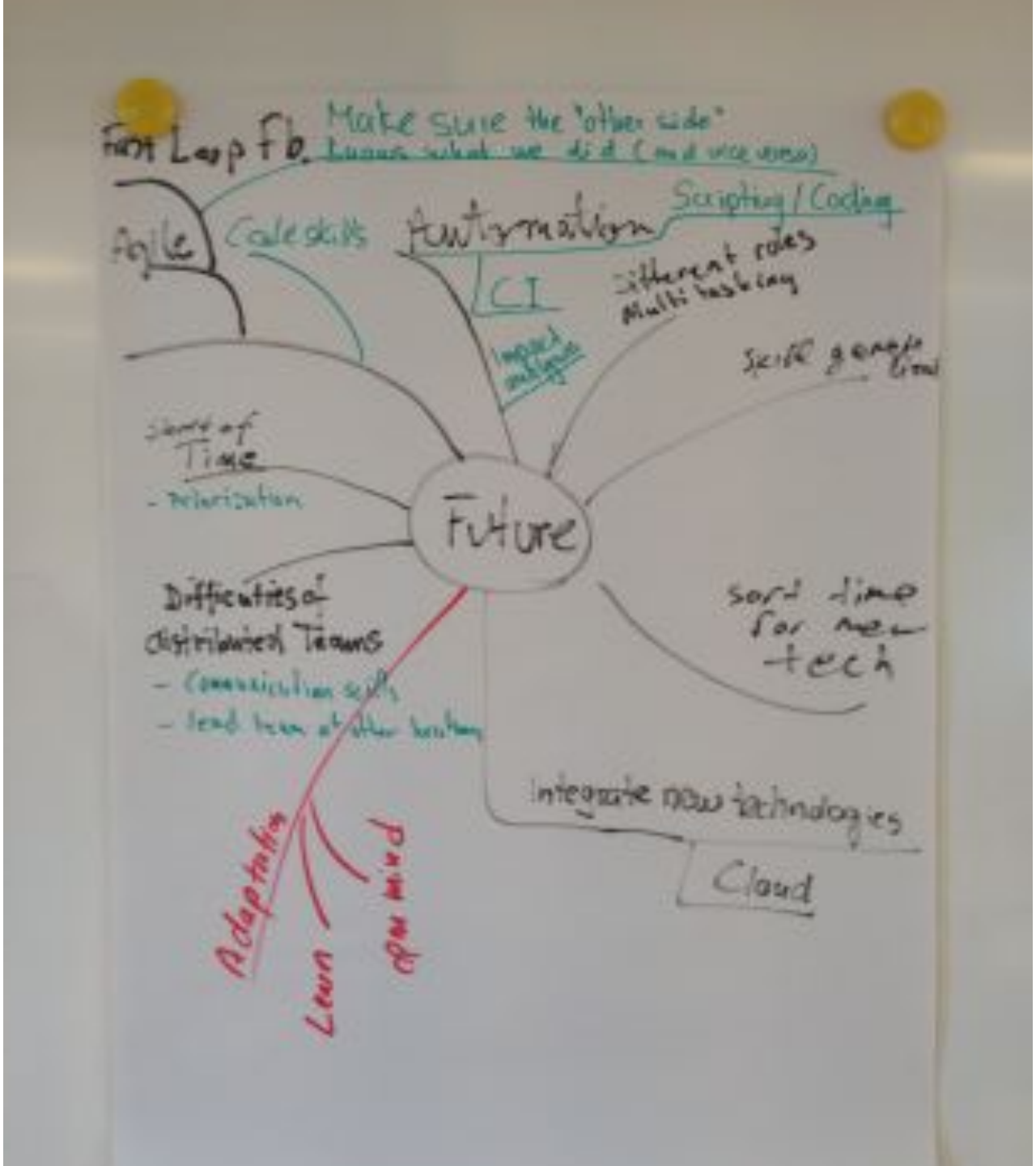
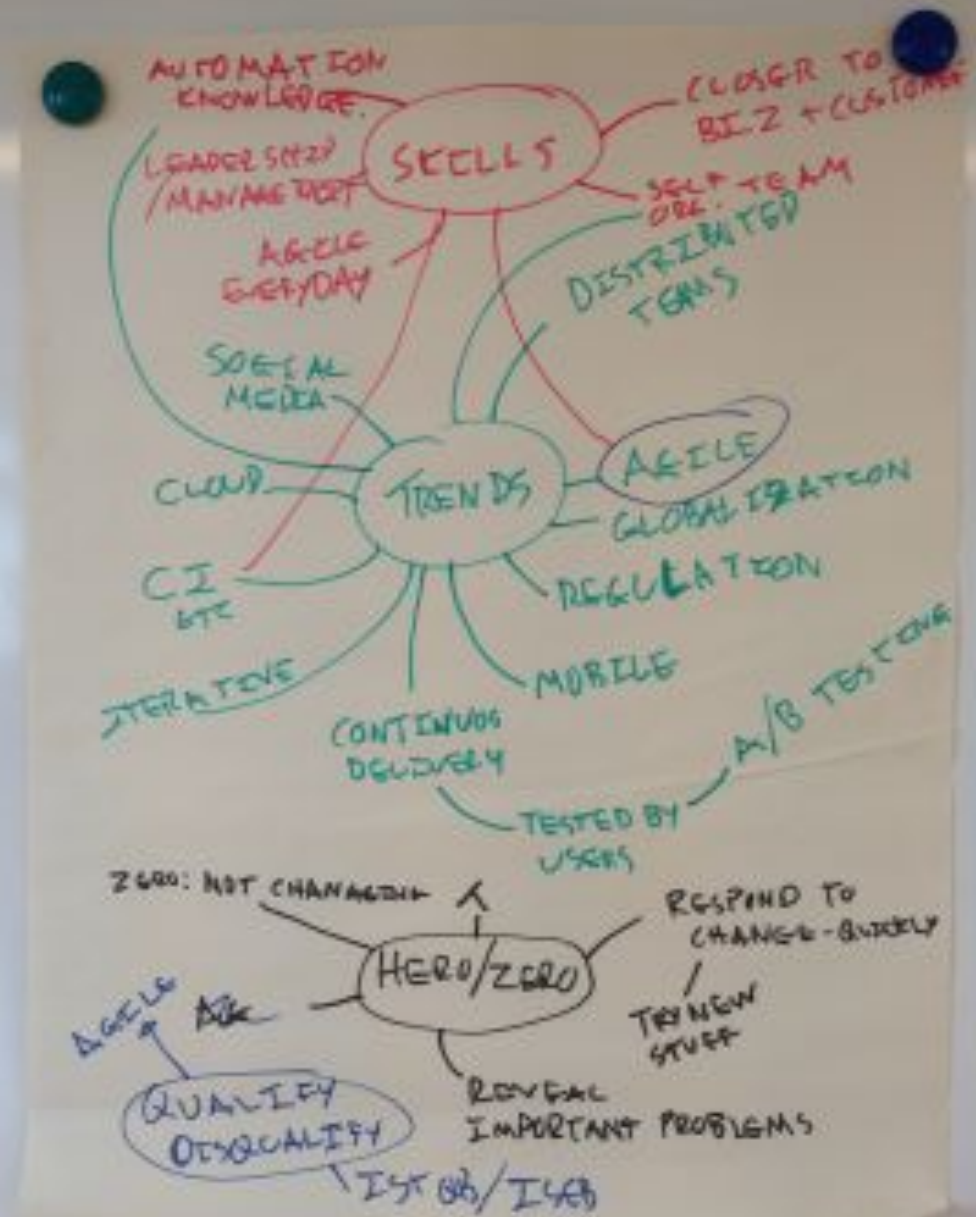
1 [OUR] TRENDS
AGILE (SCRUM) +?
CHANGES GOING WRONG.
BIG DATA - HEURISTICS
CLOUD SERVICES
MIGRATING INTO
PROCESSES
MACHINE LEARNING
ARTIFICIAL INTELLIGENCE
RADICAL CHANGE
NOT PREDICTABLE
VERY VARIED
WHAT ORACLE(S)
& HOW TEST / VALIDATE?
SYSTEM & SOFTWARE
ARE COMPONENTS TESTED?
WHOLE SYSTEM TESTED?
WE DON'T KNOW - SYSTEM -

WORK ENVIRONMENT
PROCESSES - NOT BENEFITTING
- SHORT DAILY FOCUS.
2 SKILLS.
FAST PROBLEM-SOLVING & DECISION-MAKING
ABSTRACTION LEVEL
AUTOMATION
e.g. Story / Unit tests
BRAIN. - ADAPTABILITY
- CREATIVITY
COMMON LANGUAGE
3 HERO / ZERO
CERTIFICATION?
4 QUALIFY / DISQUALIFY

- TRADITIONAL MANUAL TESTING IS BEING REPLACED BY AUTOMATED AND/OR END-USER TEST
  - ↳ CROWDSURF
  - ↳
- FULLTIME TESTERS GETS MORE SPECIALIZED
  - T SHAPED SKILLS
- PEOPLE ARE LESS LOYAL
  - → TO PRODUTS ⇒ FOCUS
    - LESS ON FUNCTIONS
    - MORE ON USERS
  - → WHAT'S THE CATCH FOR THE USER
    - ANALYZE TRENDS & COMPETITION
- MORE CROSSFUNCTIONAL TEAMS (AGILE)
  - → CROSSFUNCT. SKILLS
- WILL PEOPLE WANT TO PAY LESS FOR SW
-

- SOFTWARE CHANGES FAST
  - LEARN TO COPE
  - BACKWARD COMPATIBLE USER TECH
  - FEAR OF CHANGE
- MANY DEVICES
  - ↳ LONG TIME
  - ↳ SIMULATIONS
  - ↳ EMULATIONS
- WHAT IS IN A TESTERS TOOLBOX?


Fast Loop Fb.
Make sure the "other side"
Agile
Code skills
Automation
Scripting / Coding
CI
Different roles
Multitasking
Skill gamble
Time
- Polarization
Future
Difficulties of
distributed Teams
- Communication skills
- lead team at other location
sort time
for new
tech
Integrate new technologies
Cloud
Adaptation
Learn
Open mind


AUTOMATION KNOWLEDGE
SKILLS
CLOSER TO BIZ + CUSTOMER
LEADERSHIP / MANAGEMENT
SELF TEAM ORG.
AGILE EVERYDAY
DISTRIBUTED TEAMS
SOCIAL MEDIA
CLOUD
TRENDS
AGILE
GLOBALIZATION
CI
REGULATION
MOBILE
ITERATIVE
CONTINUOUS DELIVERY
A/B TESTING
TESTED BY USERS
ZERO: NOT CHANGING
HERO/ZERO
RESPOND TO CHANGE - QUICKLY
TRY NEW STUFF
AGILE
AGILE
QUALIFY
DISQUALIFY
REVEAL IMPORTANT PROBLEMS
IST QB/IQB

Cloud solutions

Cross platform

Test in Prod.

Push product to market ~~BEFORE~~ tested.

offshore / nearshore

Flexible mindset

General. systems / infrastructure knowledge (x platform)
visualization

Patience

"Development skills"

Discipline

Communication

Knowing the problem

WHAT makes you a HERO/ZERO

3. HERO
Emotion
Enthusiasm
Flexibility
Adapt

ZERO
certification (Believe in certification only

WHAT do you do to QUALIFY/DISQUALIFY

4. QUALIFY
Agreement
Contract
Clear vision / understanding
Result delivery / visualization

DISQUALIFY
Ethics
Harm