Special Interest Group in Software Testing

April 2015

Sydney

Leanne Howard

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ISTQB
International Software Testing Qualifications Board

Agenda

5:30pm ANZTB update

5:40pm "Career progression of the Tester" by Steve Toms

6:15pm Networking & Refreshments

6:45pm "People first accessibility testing" by Sarah Pulis

7:20pm Close

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ISTQB
International Software Testing Qualifications Board

Who is ANZTB?

- ANZTB is a national board of the ISTQB, representing and supporting software testing professionals in Australia and New Zealand
- ANZTB offers:
  - Accreditation and on-going audit of training providers to supply courses which meet the ISTQB's syllabi.
  - Facilitation of certification of individuals according to ISTQB standards.
  - Promotion of testing as a worthwhile career path for IT testing professionals throughout Australasia.

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ANZTB Team

Board Members

1. Steve Toms, Chair – Sydney
2. Chris Carter, Board Member & Former ISTQB President – Sydney
3. David Fuller, Accreditation Chair – Sydney
4. Graeme Mackenzie, Treasurer – Wellington
5. Ian Ross, Governance Officer & Vice Chair – Christchurch
6. Carol Cornelius, Examination Chair – Wellington
7. Marie Walsh, Marketing Chair & Training Provider Liaison Officer – Brisbane
8. Sarah Benstead , SIGiST Coordinator – Perth
9. Nigel Saunders, Accreditation Chair – Auckland

Associate Members

1. Leanne Howard – Sydney
2. Cheryl Downes – Melbourne
3. Veronica Belcher – Brisbane
4. Stanley Johannes – Christchurch
5. Anne Carter - Adelaide
6. Tracy Merlino – Melbourne

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What does ANZTB offer?

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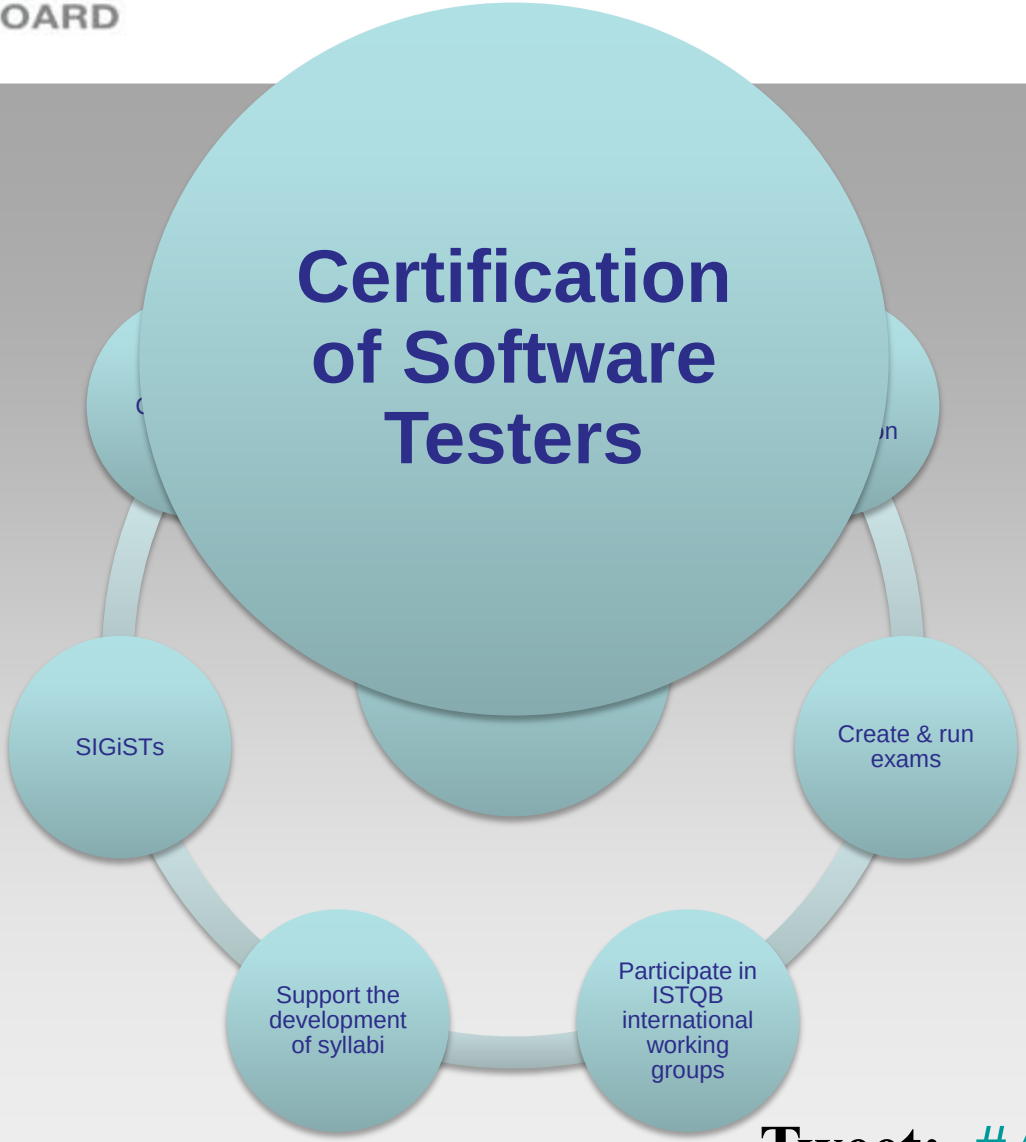
Certification of Software Testers



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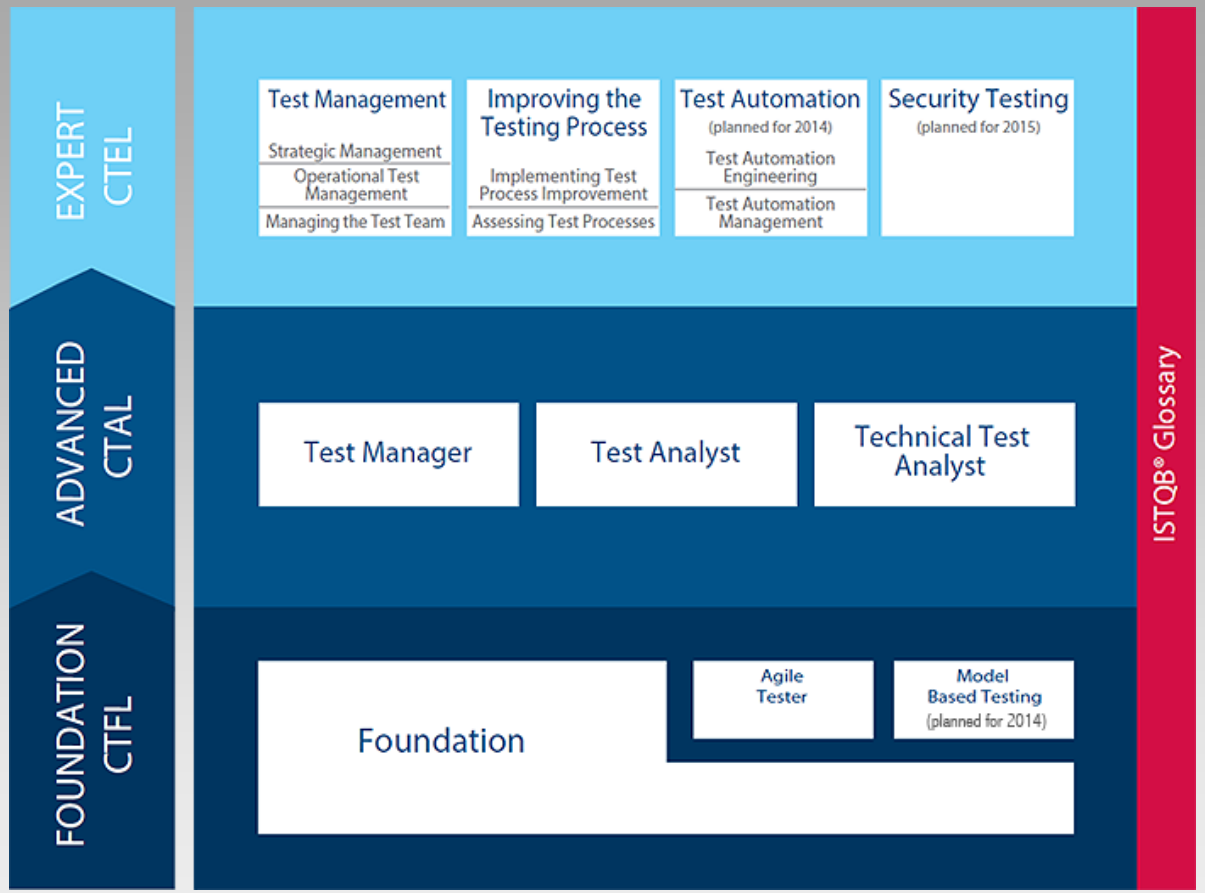
Certifying Software Testers Worldwide



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Why take ISTQB certification with the ANZTB?

- Automatic inclusion on the ANZTB certified testers list
- http://anztb.org/certifiedtesters.php
- Employers can check qualification levels

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Certified Testers in Australia & New Zealand

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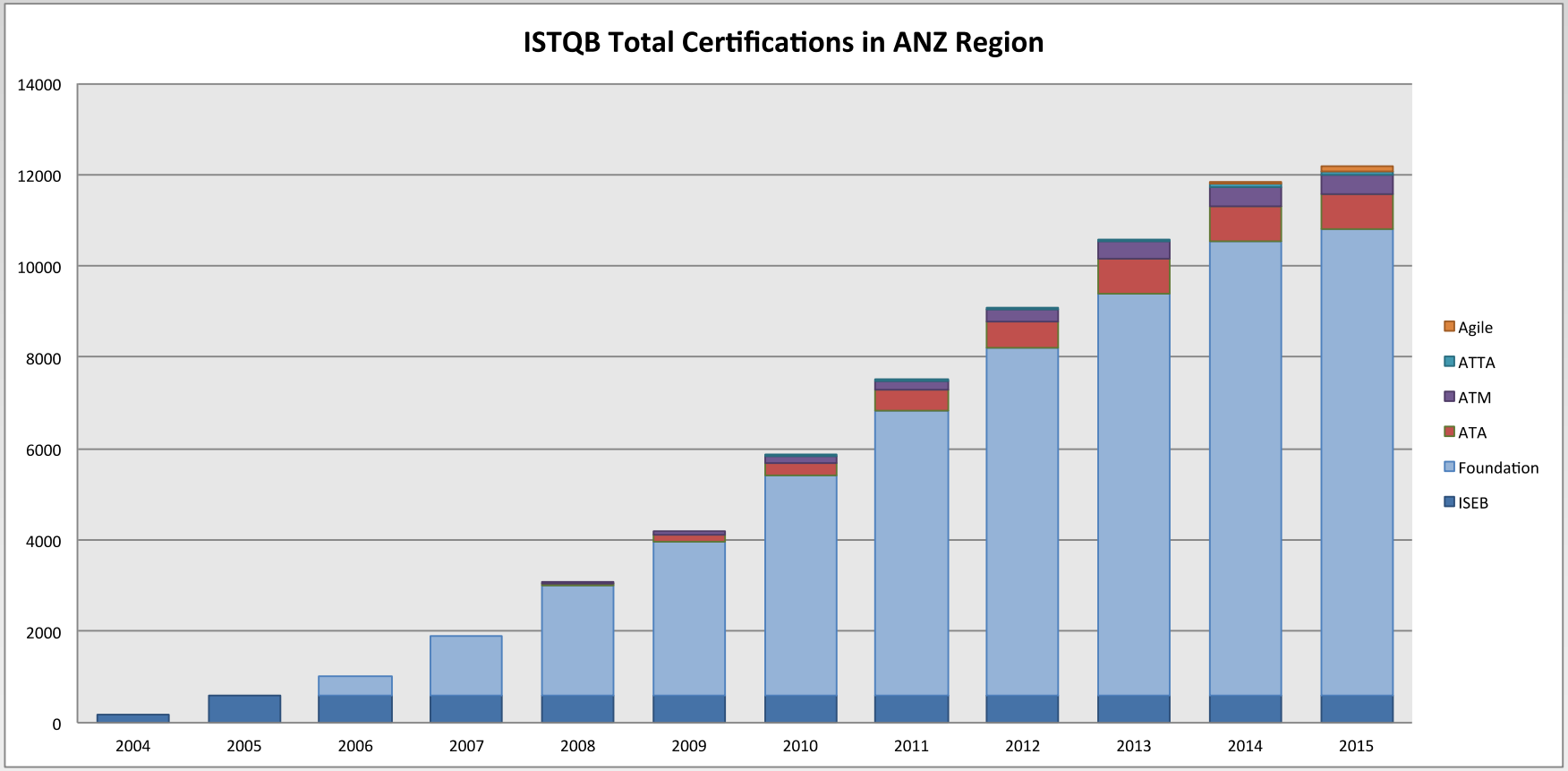

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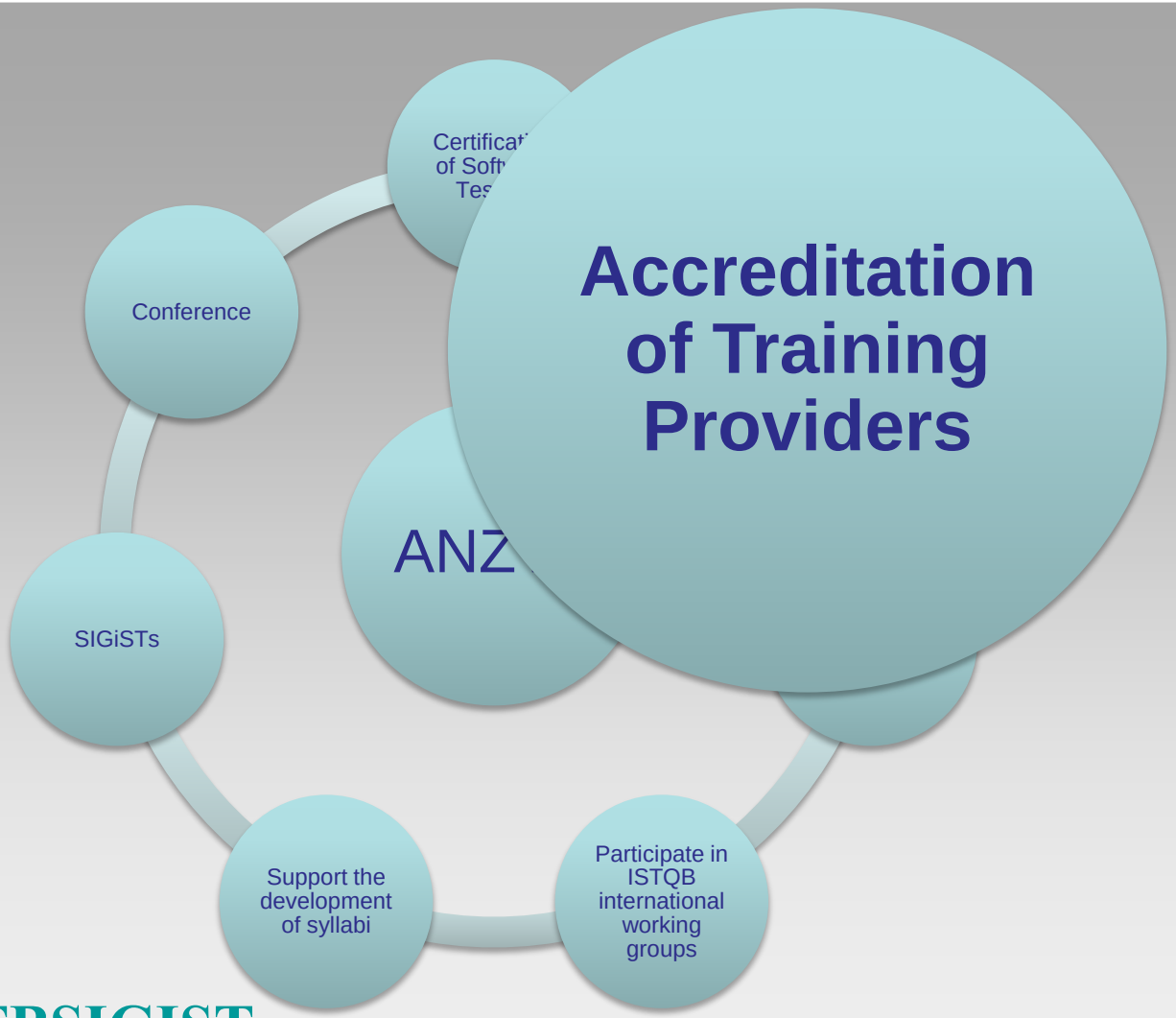

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Training Provider Accreditation

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- ANZTB accreditation of training providers is globally recognised which means our training providers have met the terms of ISTQB

- Accreditation ensures
  - Training materials conform with the current syllabi
  - Trainers have relevant experience and skills in both software testing and training
  - Organisations have access to facilities adequate for delivering training.

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ANZTB Accredited Training Providers

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http://anztb.org/trainingproviders.php

AJQ Business & Technology Consulting

Altec

Disqover

Get Skills Ltd

K.J. Ross & Associates

Knight Errant

Logitrain

Planit Test Management Solutions

Revolution IT

So Testing & Training

Software Education

The Testing Consultancy

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Exams are written in:

- Wellington
- Auckland
- Brisbane
- Melbourne

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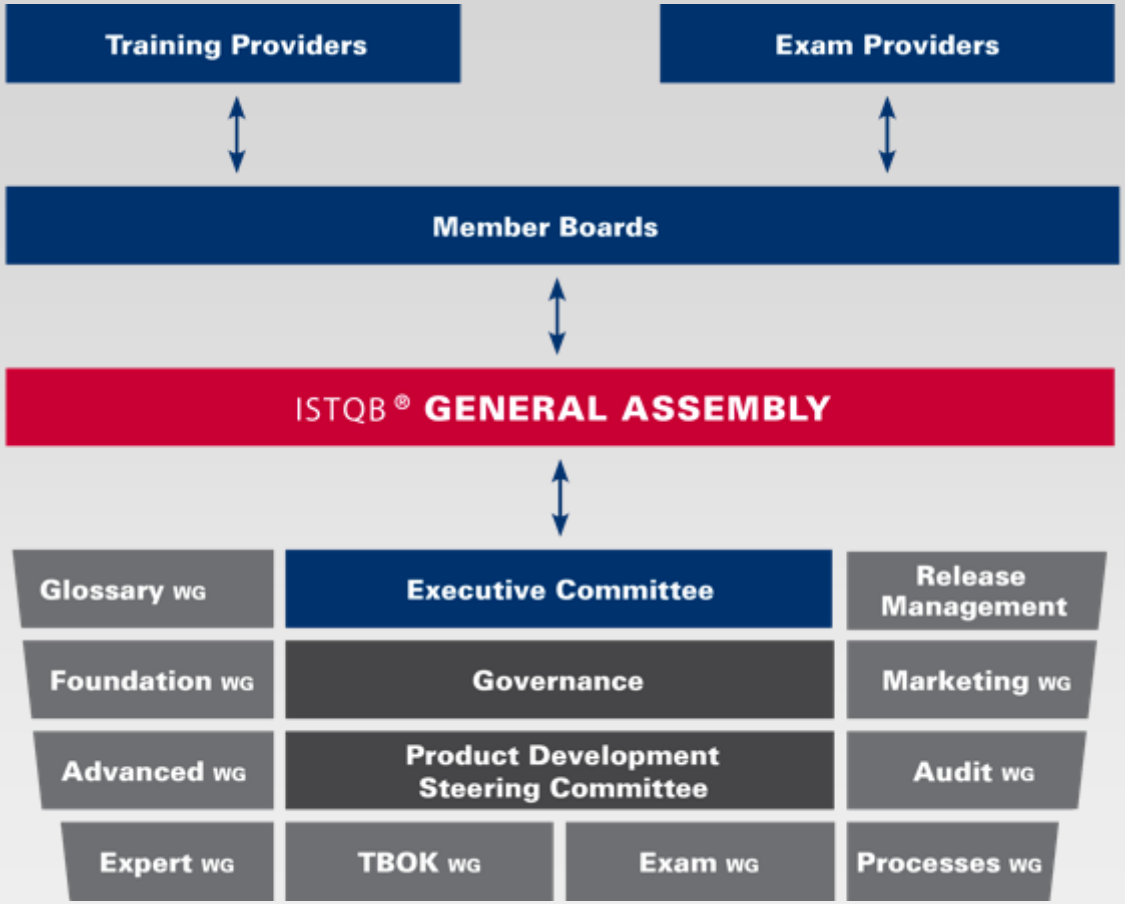
ISTQB Working Groups

The ISTQB® Working Groups ensure the development and the spread of the knowledge according to the most up-to-date needs of the profession.



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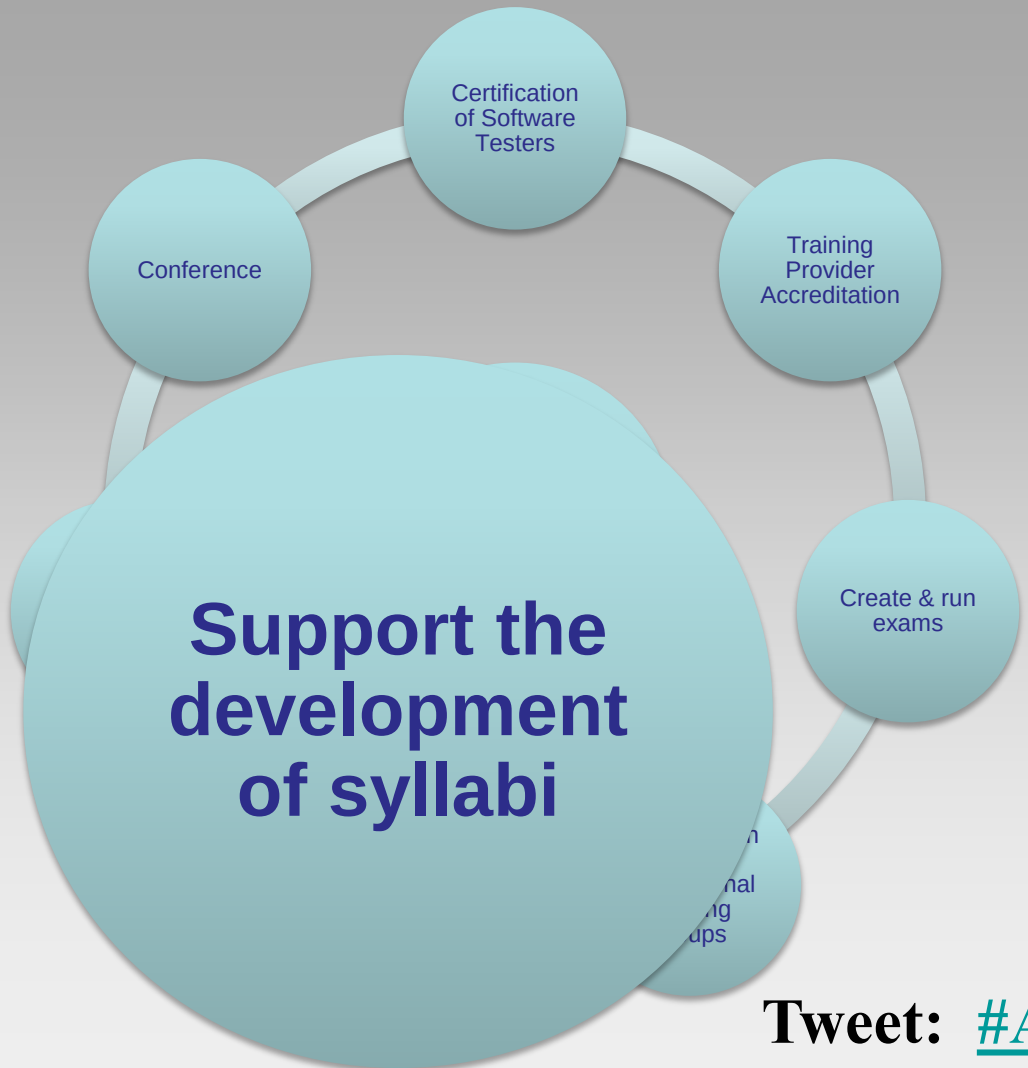

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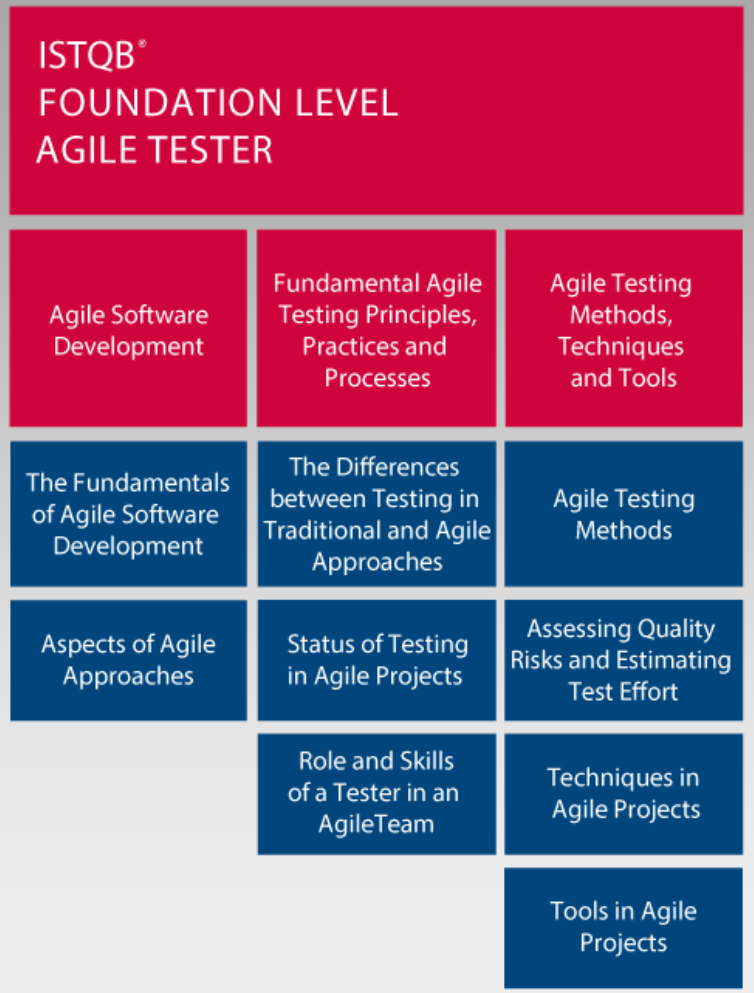
Foundation Level Extension Syllabus Agile Tester – Released June 2014

ANZTB members were involved in the co-authoring and reviewing of the new Agile Tester Syllabus



New syllabus & supporting documents can be downloaded from:
http://anztb.org/downloads.php

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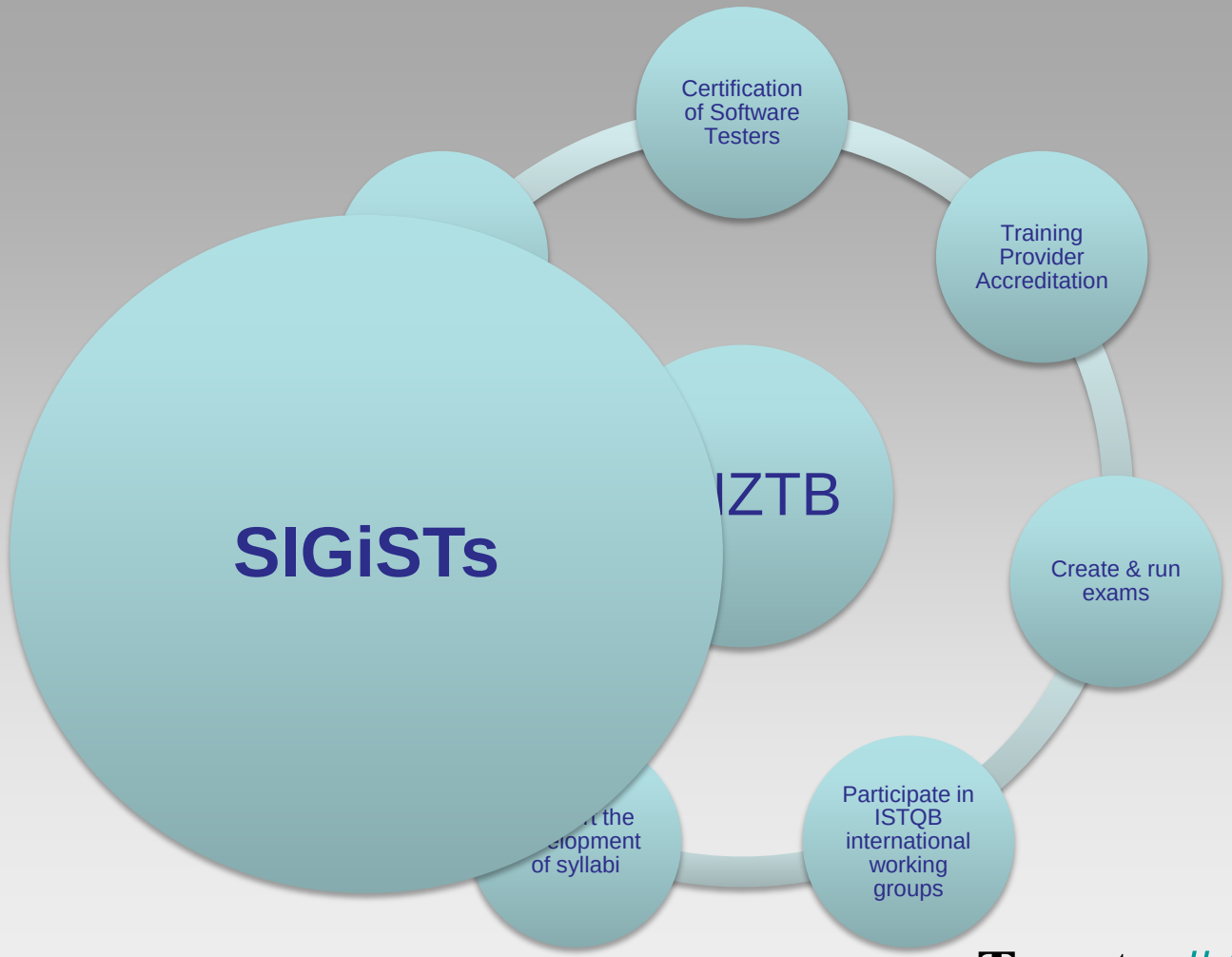

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ANZTB SIGiSTs

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SIGiSTs are run 3 to 4 times a year across Australia and New Zealand in the following cities:

- Adelaide
- Brisbane
- Christchurch
- Perth
- Wellington
- Auckland
- Canberra
- Melbourne
- Sydney

- Up to 30 SIGiSTs per year and growing
- Past presentations are available on the ANZTB website
- If you would like to be involved – please speak to your facilitator

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Special Interest Groups

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- The aim of our Specialist Interest Groups is to:
  - Discuss White Papers
  - Discuss Technology or Technique changes
  - Share Information
  - Network

SIGiSTs are sponsored by ANZTB and are in no way linked to any particular training provider or third party.

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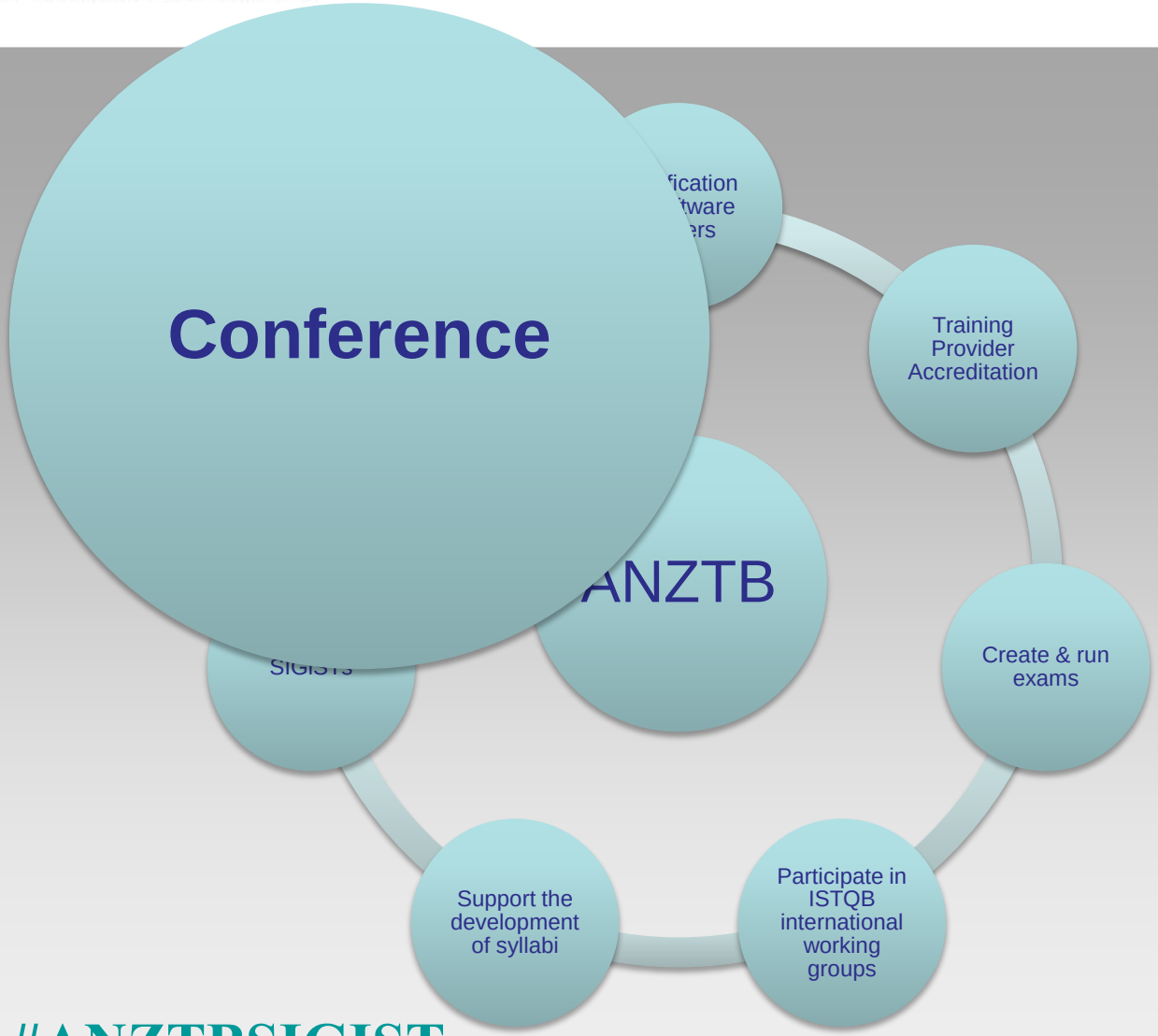

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ANZTB Test 2015 Conference

ISTQB International Software Testing Qualifications Board

Advancing Expertise in Software Testing

When: May 2015

Where: Auckland

This one-day event will feature local and international testing experts, discussing the latest advances in the profession.

More details and registration see the website

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"Career progression of the Tester"

Steve Toms

How did you become a tester?

- I started off as a developer, like many people way back then …

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How did you become a tester?

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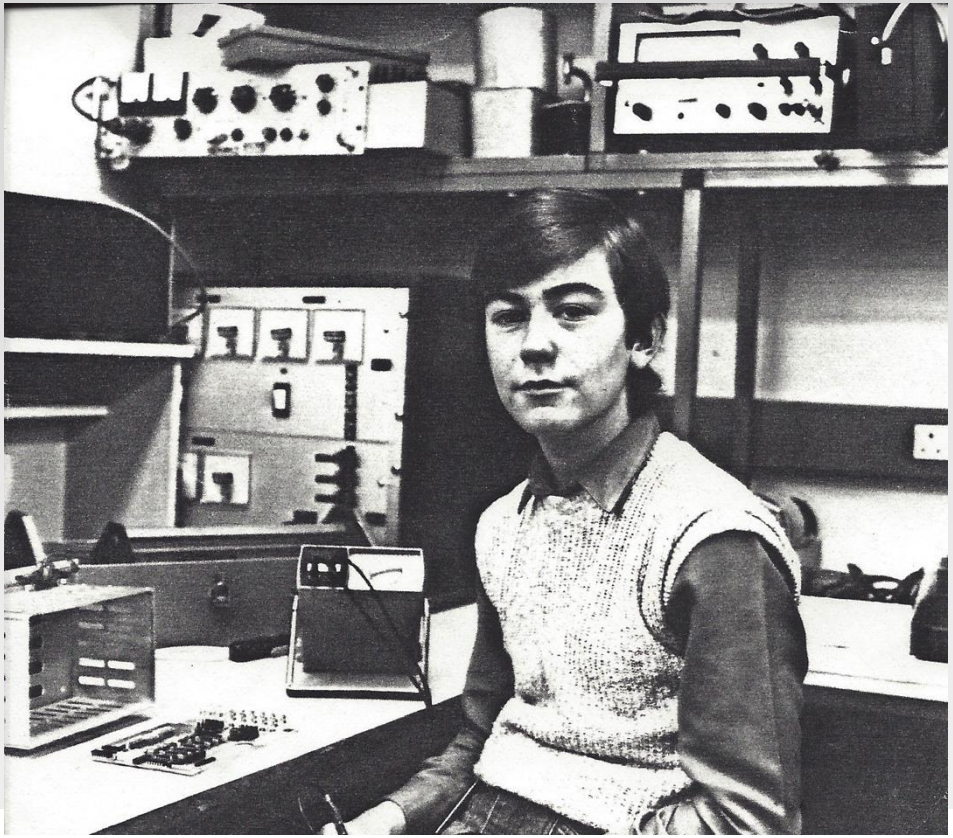
- I started off as a developer, like many people way back then …



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How did you become a tester?

- How about you?

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Employment Type

- Does your employment type affect how quickly your career progresses?
  - Full Time
  - Contractor
  - One Company for life
  - Many different organisations / domains
    - Aerospace and Defence
    - Automotive
    - Olympic games
    - Finance
    - Telecomms
    - Media
    - Gaming Software

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Recruitment

- How do you change employer? Which works best?
  - Recruitment Agency
  - Word of Mouth
  - Seek
  - LinkedIn

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Different Roles in Testing

- Do these follow a path?
  - Test Analyst
  - Senior Test Analyst
  - Test Lead
  - Automation Test Analyst
  - Performance Test Analyst
  - Security Tester
  - Test Manager
  - Program Test Manager
  - Test Consultant
- Any more?

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Evolving Market

- Off-shoring
- Continuous Integration
- Agile
- More Complex systems

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How do you keep up?

- SIGISTs (of course)
- Conferences (we can help out there too!)
- Training Courses (our Training Providers can assist there)
- Expand your skills beyond testing
  - ITIL
  - PRINCE
- Learn New Techniques
  - Agile
  - Automation
- … and of course Certification

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ISTQB Certification

- Foundation
  - Agile Extension
- Advanced Certification
  - Advanced Test Analyst
  - Advanced Technical Test Analyst
  - Advanced Test Manager
- Expert
  - Improving the Testing Process
  - Test Management
  - Test Automation Engineering
  - Security Testing (in progress)

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How does Certification help

A recent worldwide ISTQB survey had the following top responses:

- What's in it for me?
  - Career path development
  - Test skills development
  - Recognition from colleagues
  - Increased income

- What's in it for my current (*or next*) employer?
  - Testing quality improvement
  - Employee career path development
  - Company image improvement
  - Customer's demand
  - Employee incentive
  - Company policy

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Discussion

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Networking & Refreshments

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"People first accessibility testing"

Sarah Pulis

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People first accessibility testing

- Sarah Pulis, Head of Accessibility Services

The degree to which a system is usable by as many people as possible…

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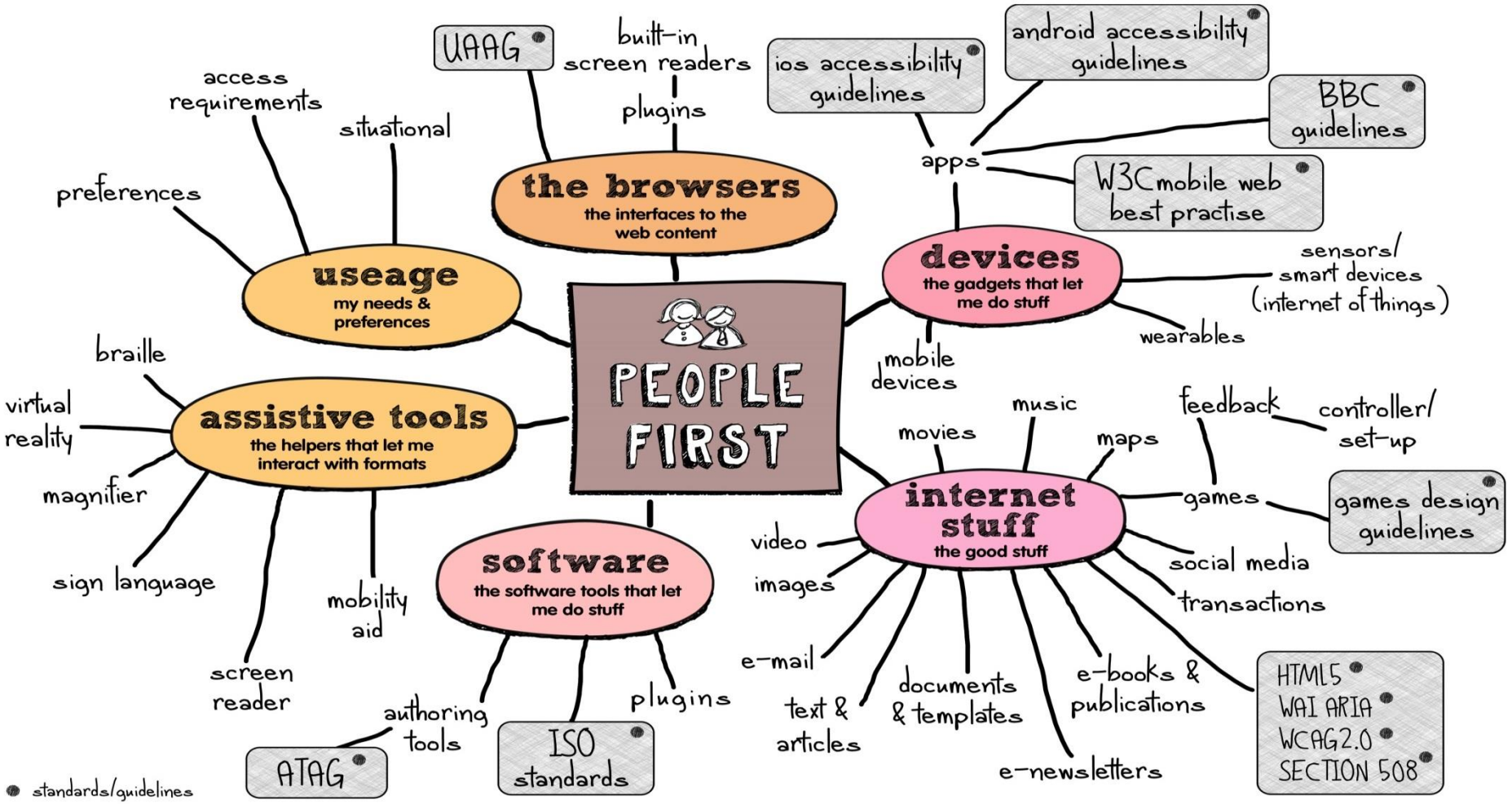
pwc

Accessibility Landscape



If you can't **see**

If you can't **clearly see**

If you can't **hear**

If you can't **move**

If you can't **understand**

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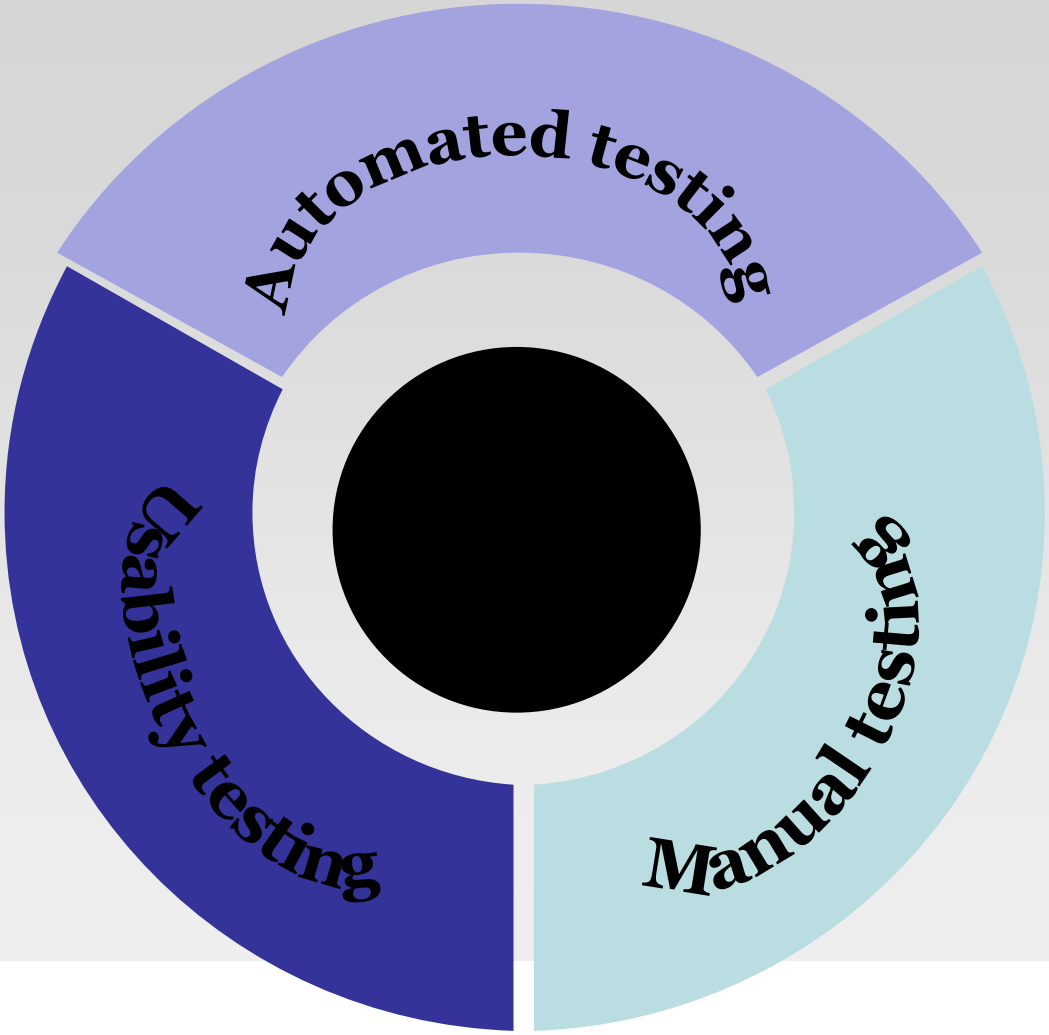
Automated testing
Manual testing
Usability testing

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01 *Automated testing*

- Definitively test for approximately 25% of accessibility issues
- Approximately 30% can be tested for but requires human verification
- The rest can only be tested manually by a human.

Web Accessibility Testing: What Can be Tested and How, Karl Groves

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02 *Manual testing*

- Critical for identifying issues that cannot be identified via automated testing.
- Can include code inspection, changes to software (e.g. high contrast, text resize), assistive technologies (e.g. screen reader or speech recognition software), keyboard access.

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03 *Usability testing*

- Shows the true experience of the user. How easy or hard is it for a user to complete a task?
- Best done once all technical accessibility issues have been addressed for most meaningful results.

Accessibility Spot Check

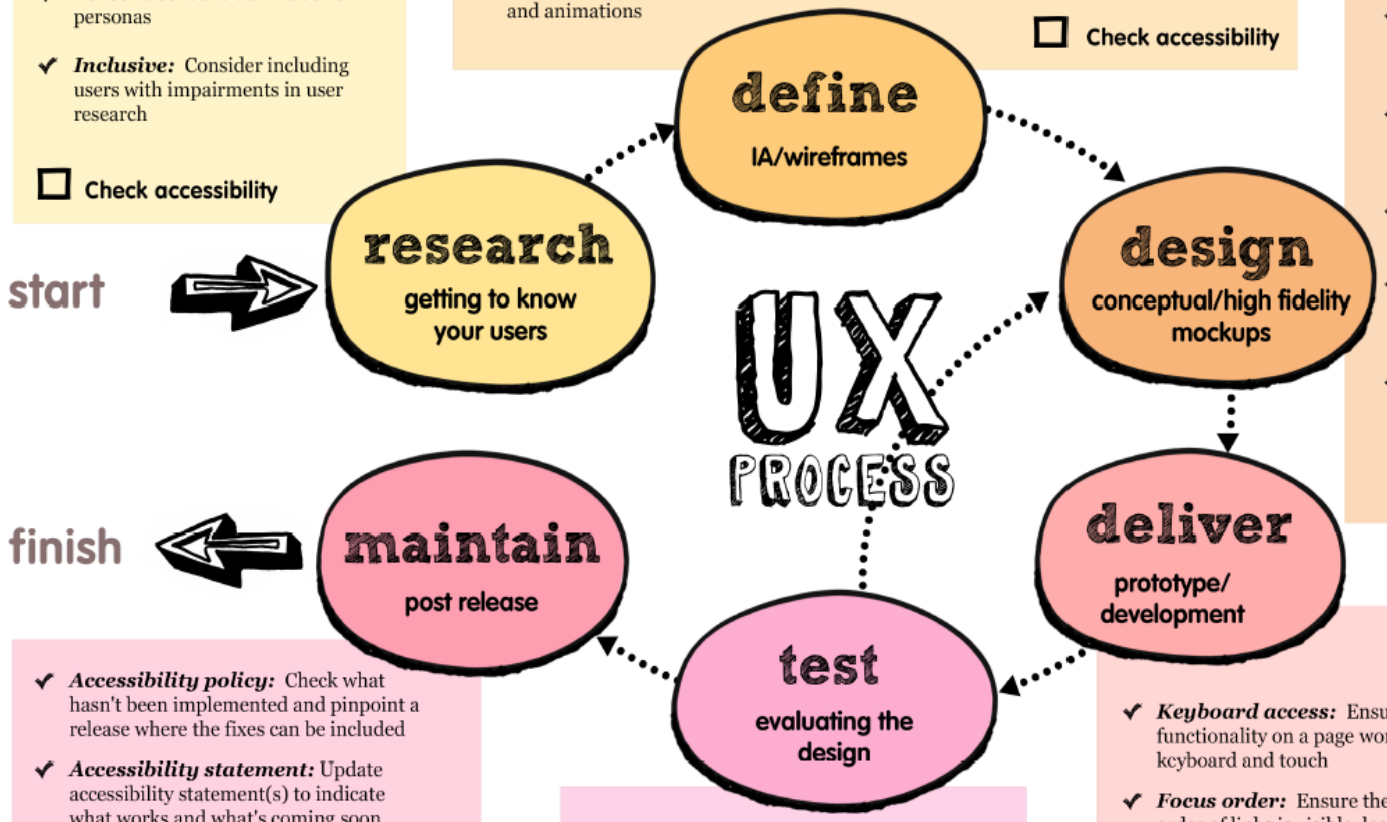
pwc

- ✓ ***Skip links:*** Include skip links in your wireframe
- ✓ ***Headings:*** Use headings correctly (h1>h6)
- ✓ ***Fields:*** Label fields clearly, provide examples of field formats to minimise input errors and give clear error feedback
- ✓ ***Hypertext:*** Make hypertext links clear, concise and informative
- ✓ ***Movement:*** Avoid flashing movement and animations
- ✓ ***Stop/pause:*** If an element moves on its own, provide a way to turn it off or pause it
- ✓ ***Text Equivalent:*** If any element has video or audio, indicate how text equivalents can be displayed
- ✓ ***Reading order:*** Make sure the reading order of the page makes sense

☐ Check accessibility

- ✓ ***Personas:*** Consider inclusive personas
- ✓ ***Inclusive:*** Consider including users with impairments in user research

☐ Check accessibility



- ✓ ***Contrast:*** Ensure your text and backgrounds have good contrast
- ✓ ***Graphic text:*** Use graphic text in moderation and ensure it is used with good contrast and clear fonts
- ✓ ***Navigaton:*** Provide consistent navigation that clearly indicates where a user is within a system
- ✓ ***Colour:*** Ensure you don't use colour as the only way to convey information
- ✓ ***Icons:*** Use icons to supplement text that are consistent, easy to see and intuitive
- ✓ ***Balance:*** Ensure your typography is clear, scannable and uses white space effectively

☐ Check accessibility

- ✓ ***Accessibility policy:*** Check what hasn't been implemented and pinpoint a release where the fixes can be included
- ✓ ***Accessibility statement:*** Update accessibility statement(s) to indicate what works and what's coming soon
- ✓ ***Updates:*** Ensure all updates, including new content & features maintain accessibility

☐ Check accessibility

- ✓ ***Inclusive:*** User test with participants with impairments - including older people

☐ Check accessibility

- ✓ ***Keyboard access:*** Ensure all functionality on a page works by keyboard and touch
- ✓ ***Focus order:*** Ensure the focus order of links is visible, logical and intuitive
- ✓ ***Alt text:*** Ensure alt text is clear, concise and descriptive
- ✓ ***Forms:*** Ensure all forms work with assistive technologies in the way the user needs them to
- ✓ ***Tables:*** Code column headings in data tables with the table header <th> element

☐ Check accessibility

Discussion

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Future SIGiSTs

- Volunteers for facilitation of the next SIGiST?
- Volunteers to submit white papers for presentation and discussion?

The SIGiST cannot succeed without your input.

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