# TEST AUTOMATION ENGINEERING

**Presented by Andrew L Pollner**

# About your speaker

## Andrew L Pollner

*President & CEO, ALP International*

*Executive Committee*, ASTQB

*Working Group Chair*, ISTQB

Advanced Level – Test Automation Engineer

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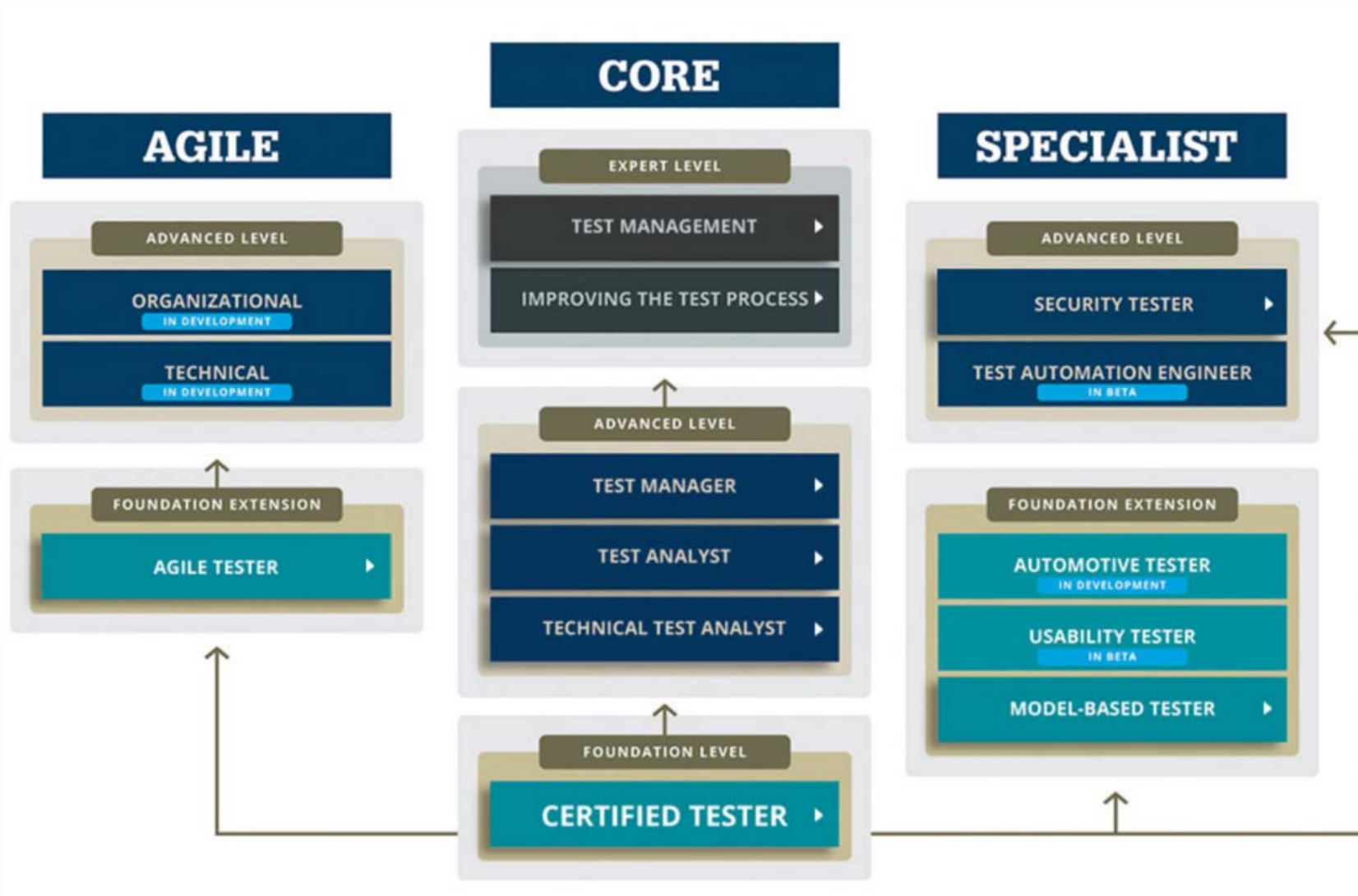Advanced Automated Testing**

# ISTQB Vision

**To continually improve and advance the software testing profession by:**

*Defining and maintaining a Body of Knowledge which allows testers to be certified based on best practices, connecting the international software testing community, and encouraging research*

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# About ISTQB

- 2002 Year of founding as a non-profit
- 50 Member Boards
- 72 Countries covered by MBs
- 440,000 Certifications issued worldwide
- 3$^{rd}$ Largest non-IT specific certification (1-PMI, 2-ITIL)
- 14 Certifications in Product Portfolio

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# About ASTQB

*ASTQB is the U.S. board for the internationally recognized ISTQB software testing certification with a mission to promote Software Testing in the United States.*

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# Test Automation Engineering – Brief History

- Originally Slated at the Expert Level
- Expert Level TAE Syllabus GA Released in 2014
- ISTQB Revisits Positioning, Targets Advanced Level
- WG Revises TAE Syllabus at Advanced Level
- Approved as Beta Release in March of 2016
- Approval for GA Release October 2016

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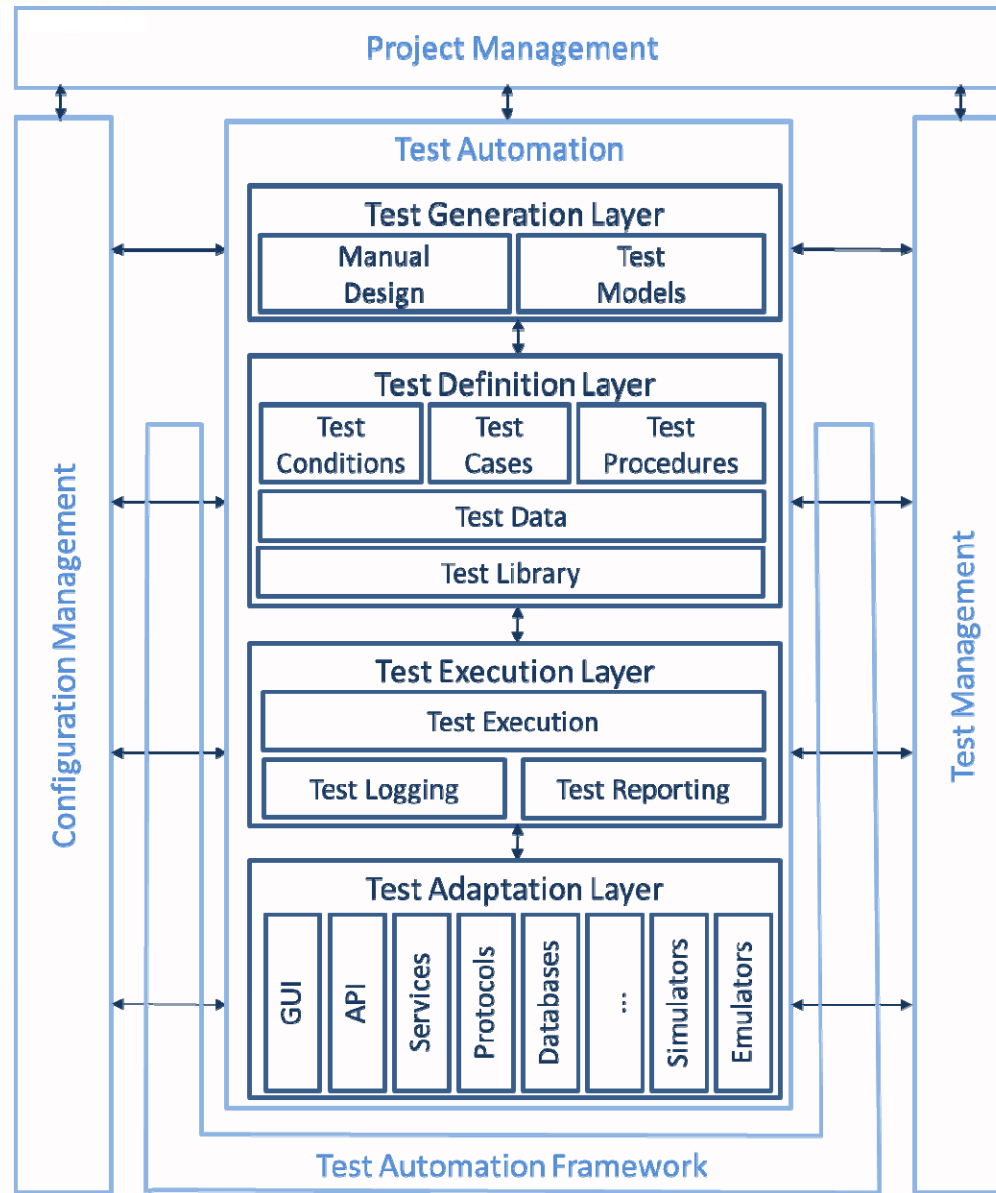Advanced Automated Testing**

# Scope of TAE

- Tasks of a test automation engineer (TAE) in designing, developing, and maintaining test automation solutions.

- Concepts, methods, tools, and processes for automating dynamic functional tests and the relationship of those tests to test management, configuration management, defect management, software development processes and quality assurance.

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# Topic Areas

- Objectives for Test Automation
- Preparing for Test Automation
- Generic Test Automation Architecture
- Deployment Risks & Contingencies
- Reporting & Metrics
- Transitioning from Manual to Automated Testing
- Verifying Test Automation
- Continuous Improvement

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# Generic Test Automation Architecture (gTAA)

- Test Generation Layer

- Test Definition Layer

- Test Execution Layer

- Test Adaptation Layer

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# *Questions?*

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# Contact Info

**Andrew L Pollner**

President & CEO

ALP International Corp.

5425 Wisconsin Ave #600

Chevy Chase, MD 20815

apollner@alpi.com

301 654-9200 ext 404

301 654-9203 fax

www.alpi.com

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