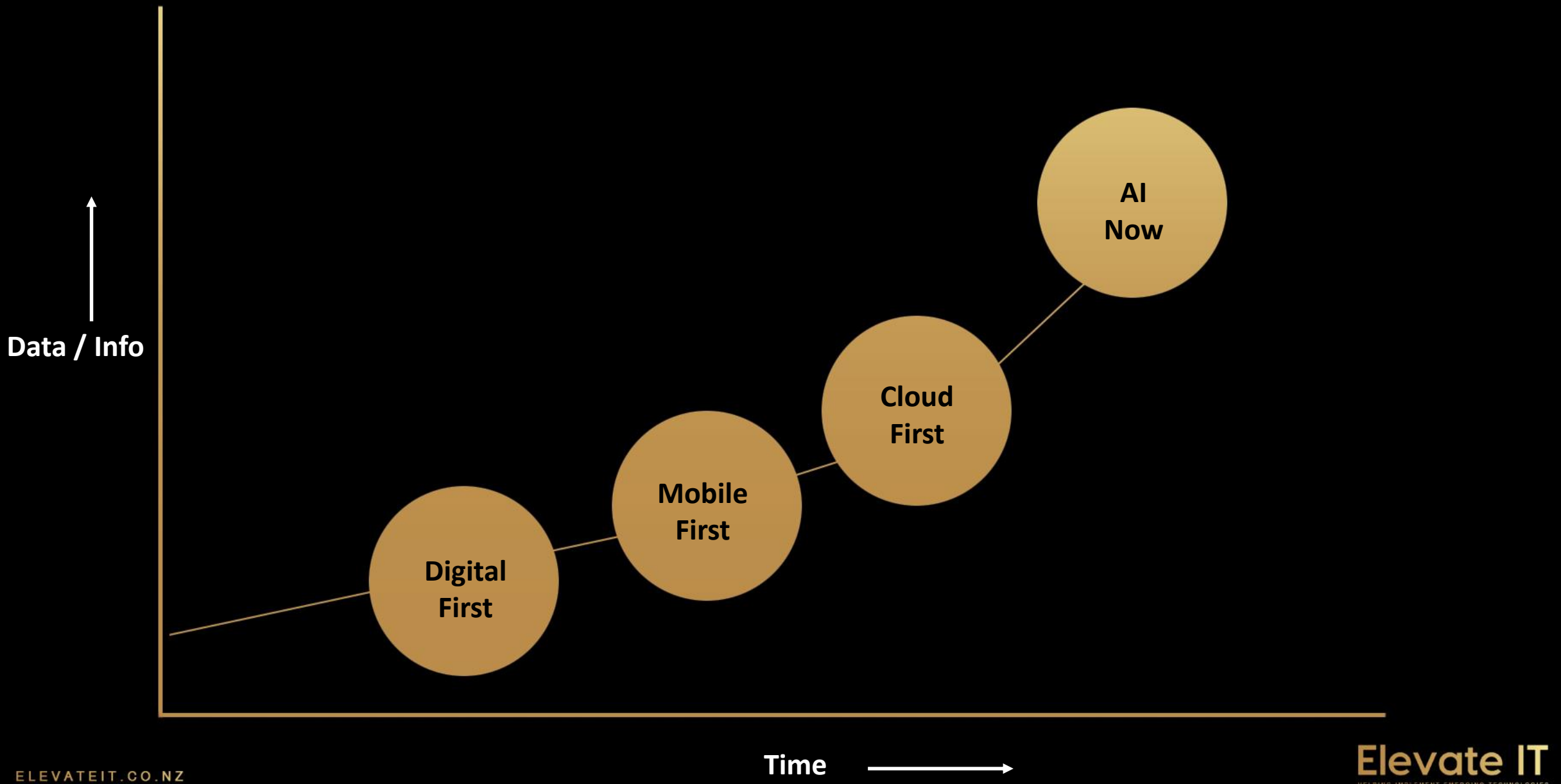
Elevate IT

HELPING IMPLEMENT EMERGING TECHNOLOGIES

A WebTest Limited Company

Are you getting ready for testing AI?

By
Vishav Preet
SIGiST @ GridAKL
14.03.19

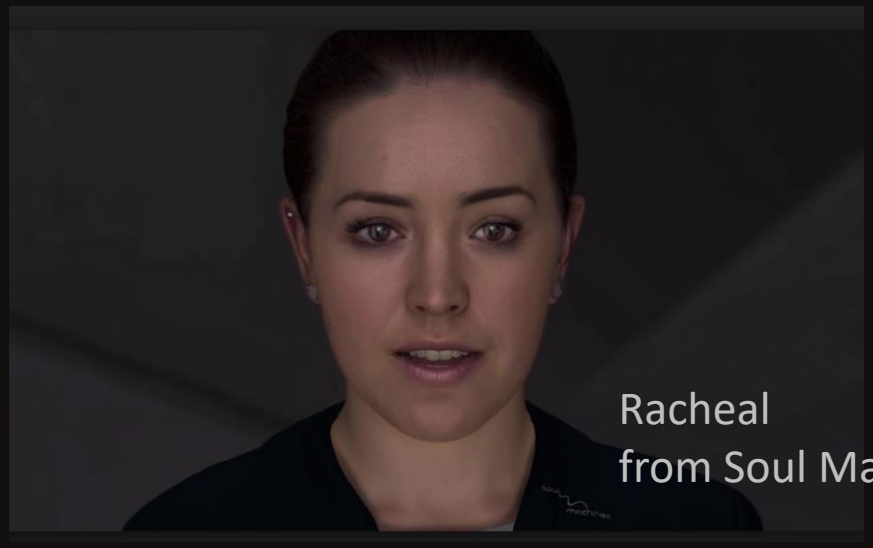

Data / Info
Digital First
Mobile First
Cloud First
AI Now
Time

Science Fiction Movies that predicted the future

Movie: 2001: A Space Odyssey (1968); Technology: tablet computer
Movie: Blade Runner (1982); Technology: video calls
Movie: Star Trek III: The Search for Spock(1984); Technology: mobile phone
Movie: Back to the Future Part II (1989); Technology: wearable tech
Movie: Total Recall (1990); Technology: driverless car
Movie: Minority Report (2002); Technology: gesture-based user interface

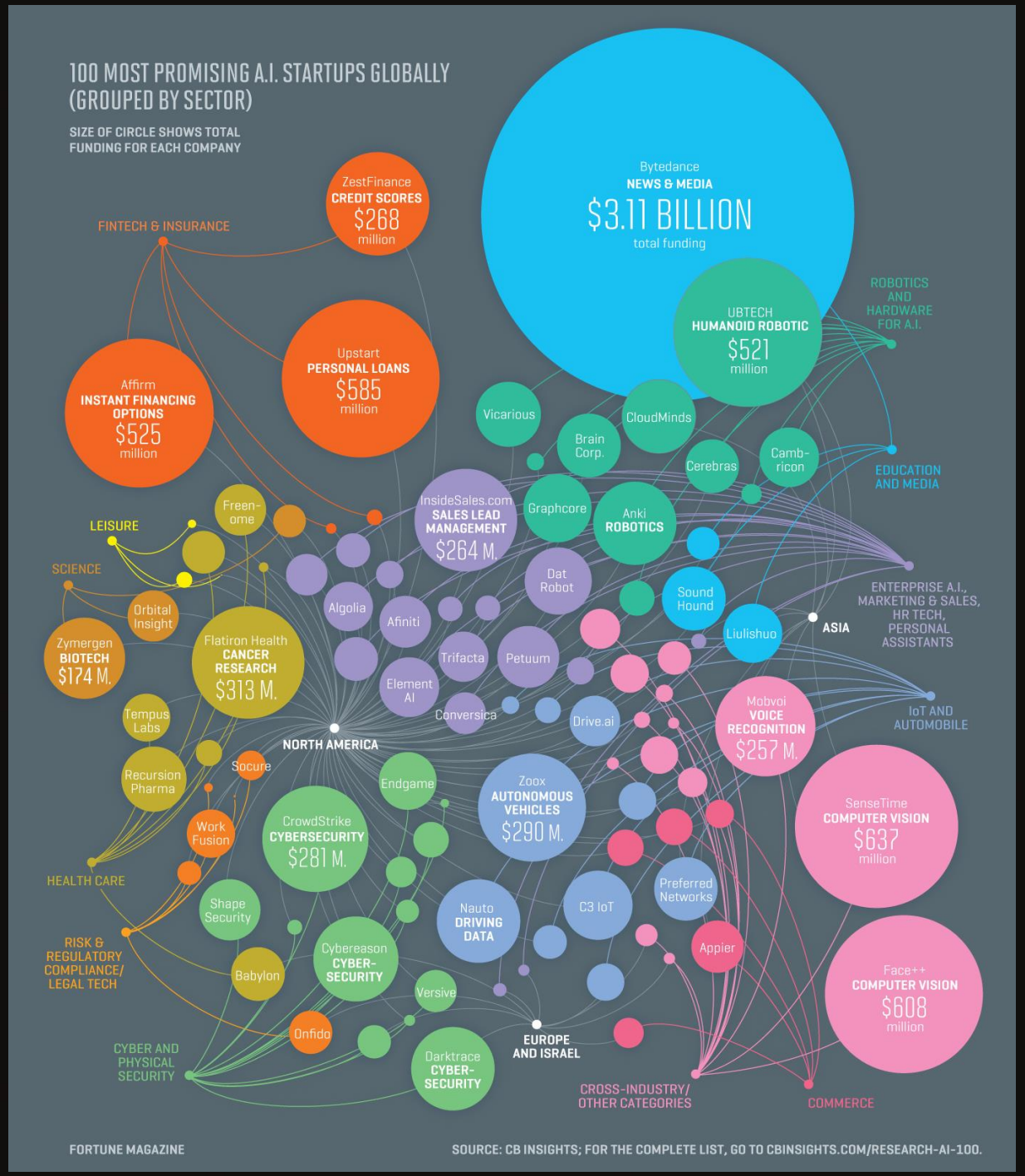
Fast forward 16 years…

FUTURE
INVESTMENT
INITIATIVE
Powered by the Public Investment Fund



Racheal
from Soul Machine

Josie @ ASB



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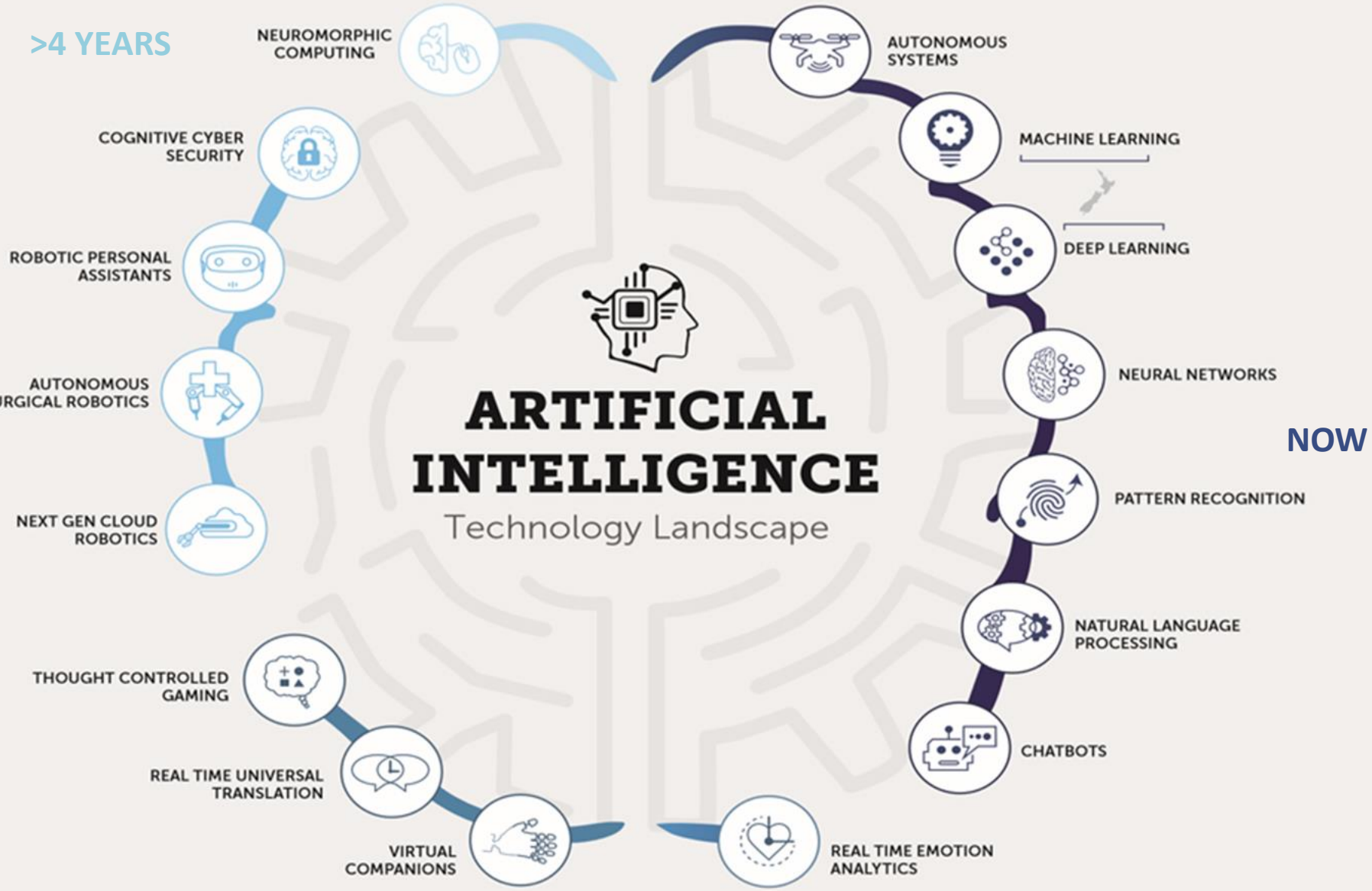
ARTIFICIAL INTELLIGENCE

Technology Landscape



Technology Readiness

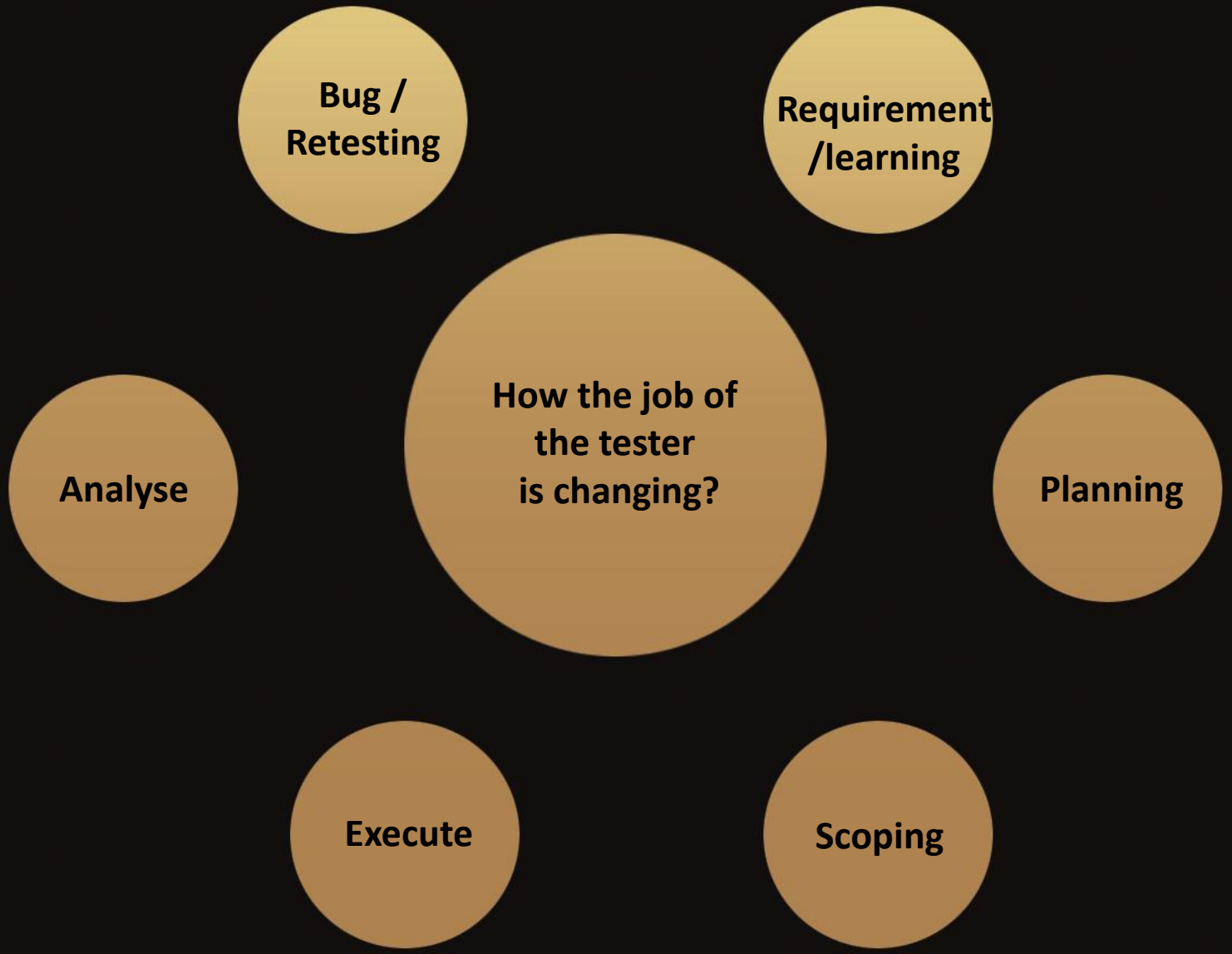
- NOW
- 1- 2 YEARS
- 2- 4 YEARS
- >4 YEARS
- Important technology for NZ business to be exploring

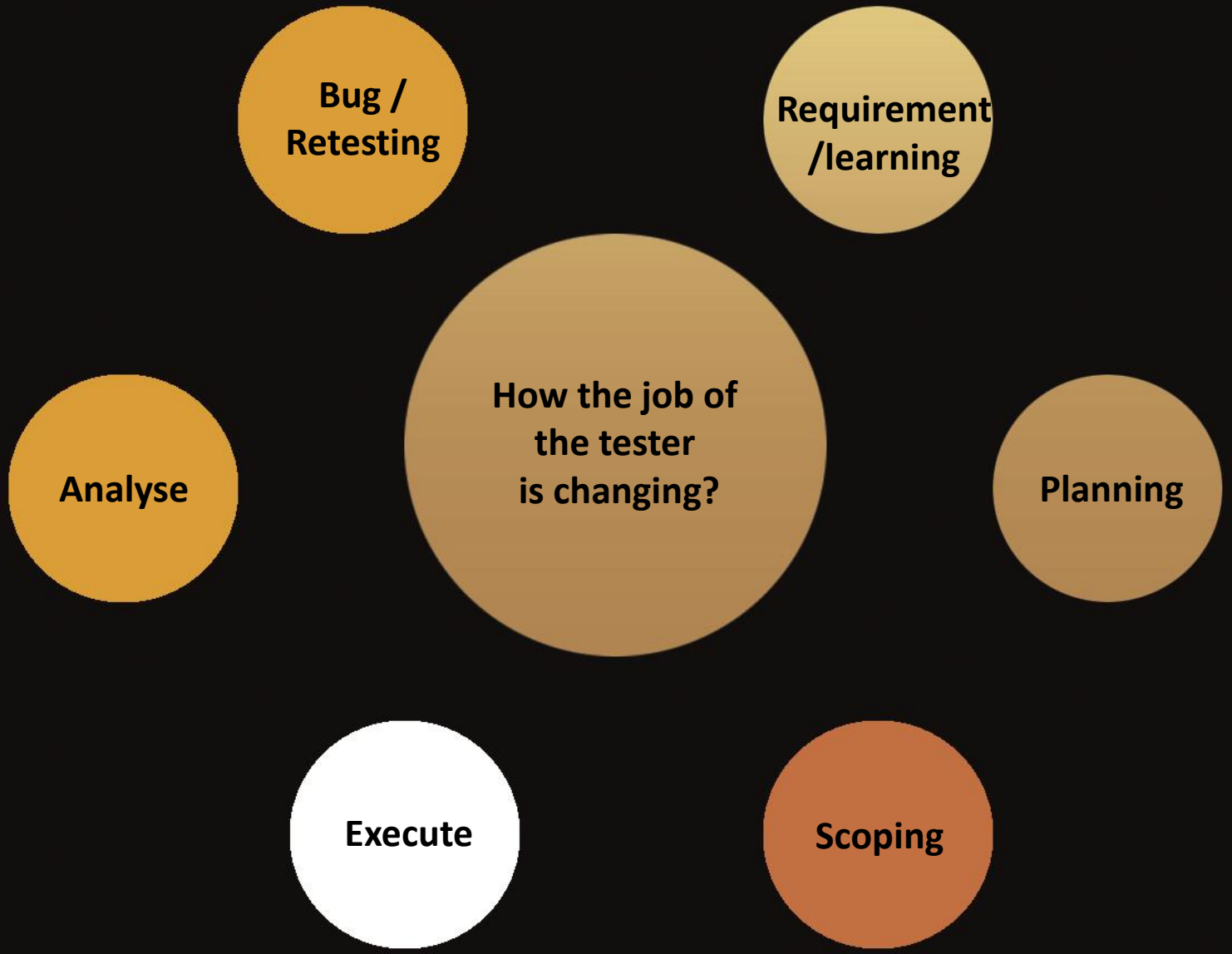
Sources:
Frost & Sullivan "Artificial Intelligence- R&D and Applications Road Map" (Dec 2016), Harvard Business Review- The competitive landscape for Machine Intelligence (Nov 2016), Shivon Zilis and James Chan "The State of Machine Intelligence, 2016" (2016), Stanford University. "Artificial Intelligence and Life in 2030" (2016), https://en.wikipedia.org/wiki/Artificial_intelligence (2017)

CallaghanInnovation

Self
Driving

How automation is changing the testing?


Bug / Retesting
Requirement /learning
How the job of the tester is changing?
Analyse
Planning
Execute
Scoping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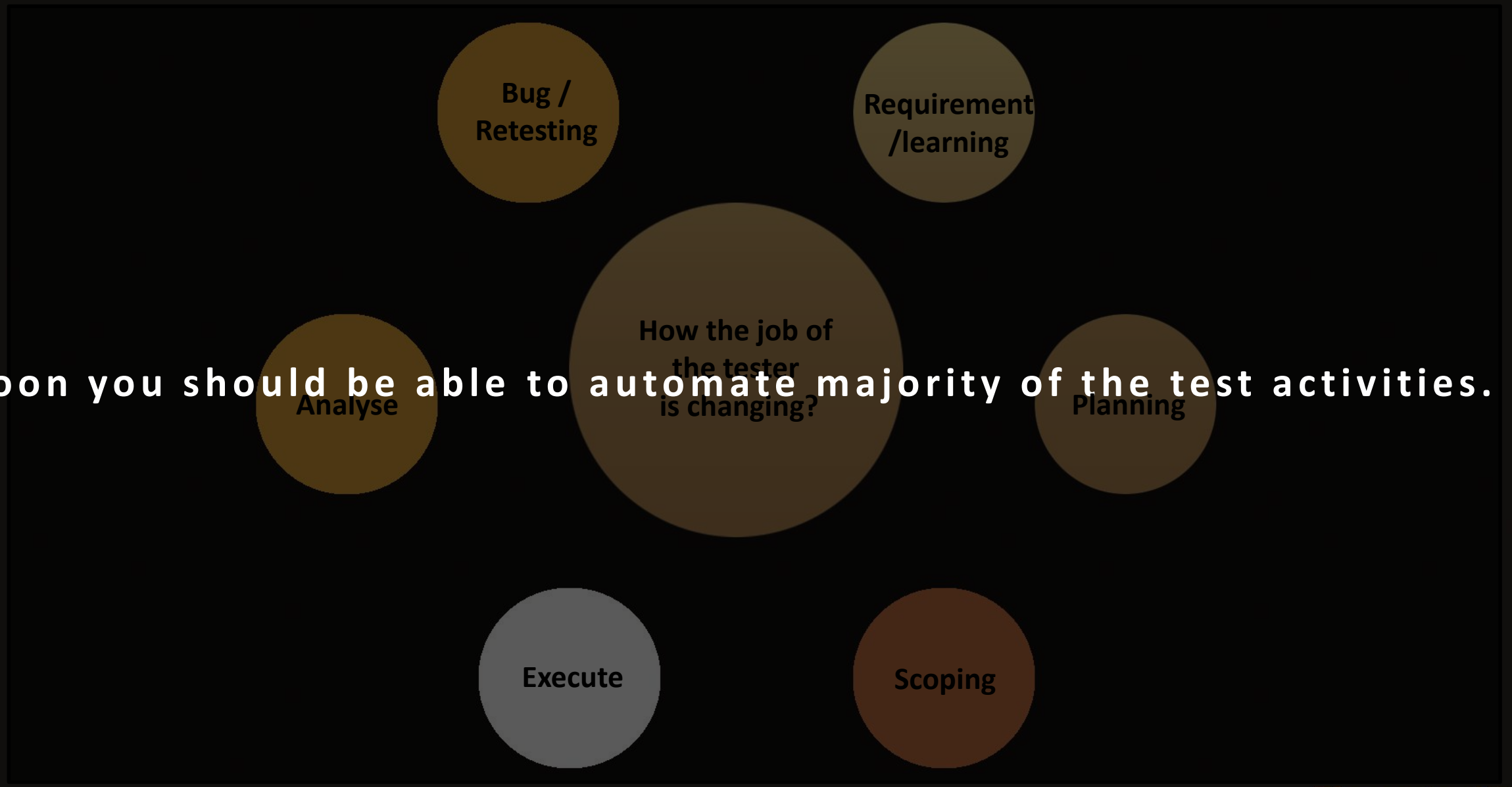
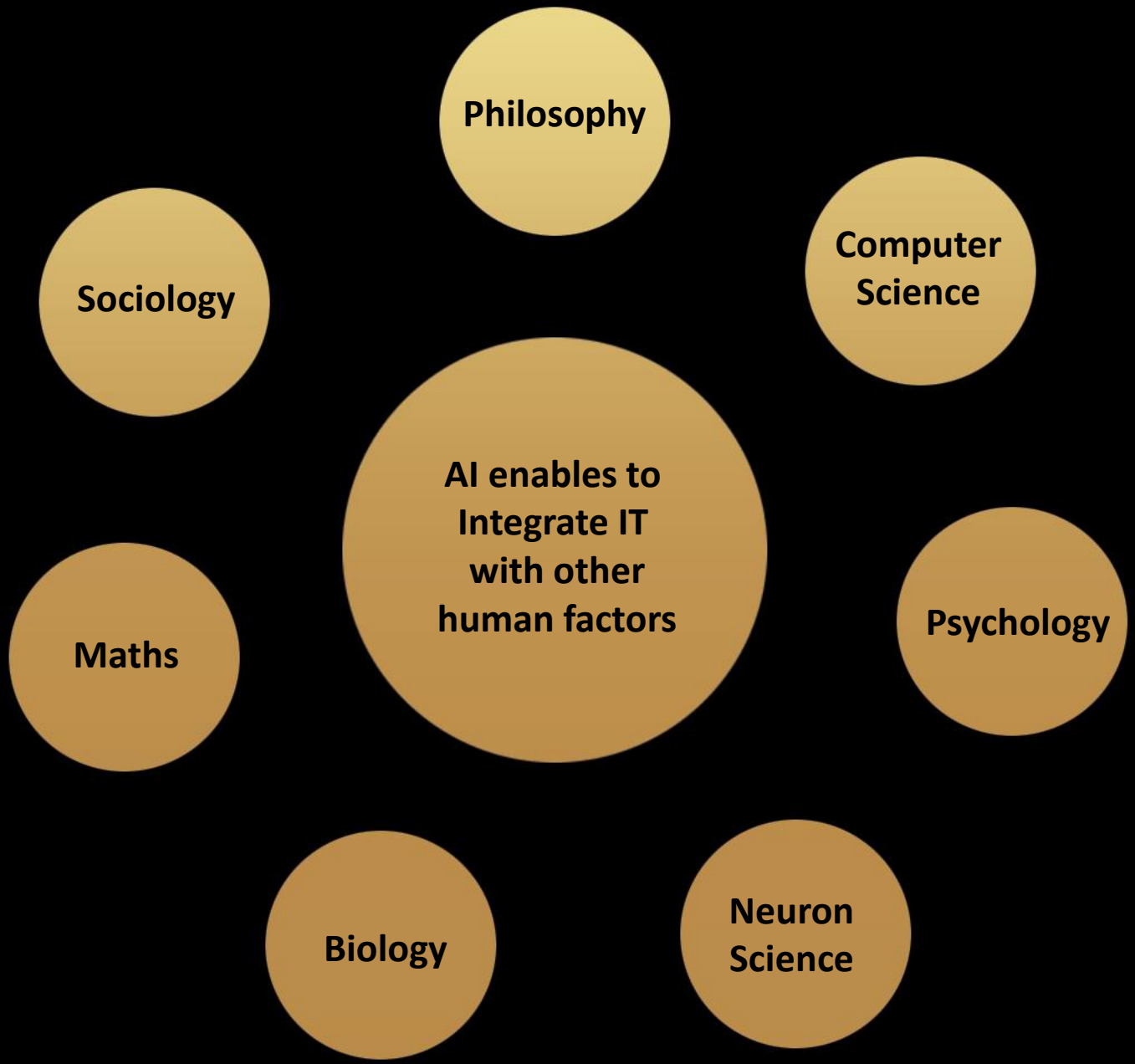
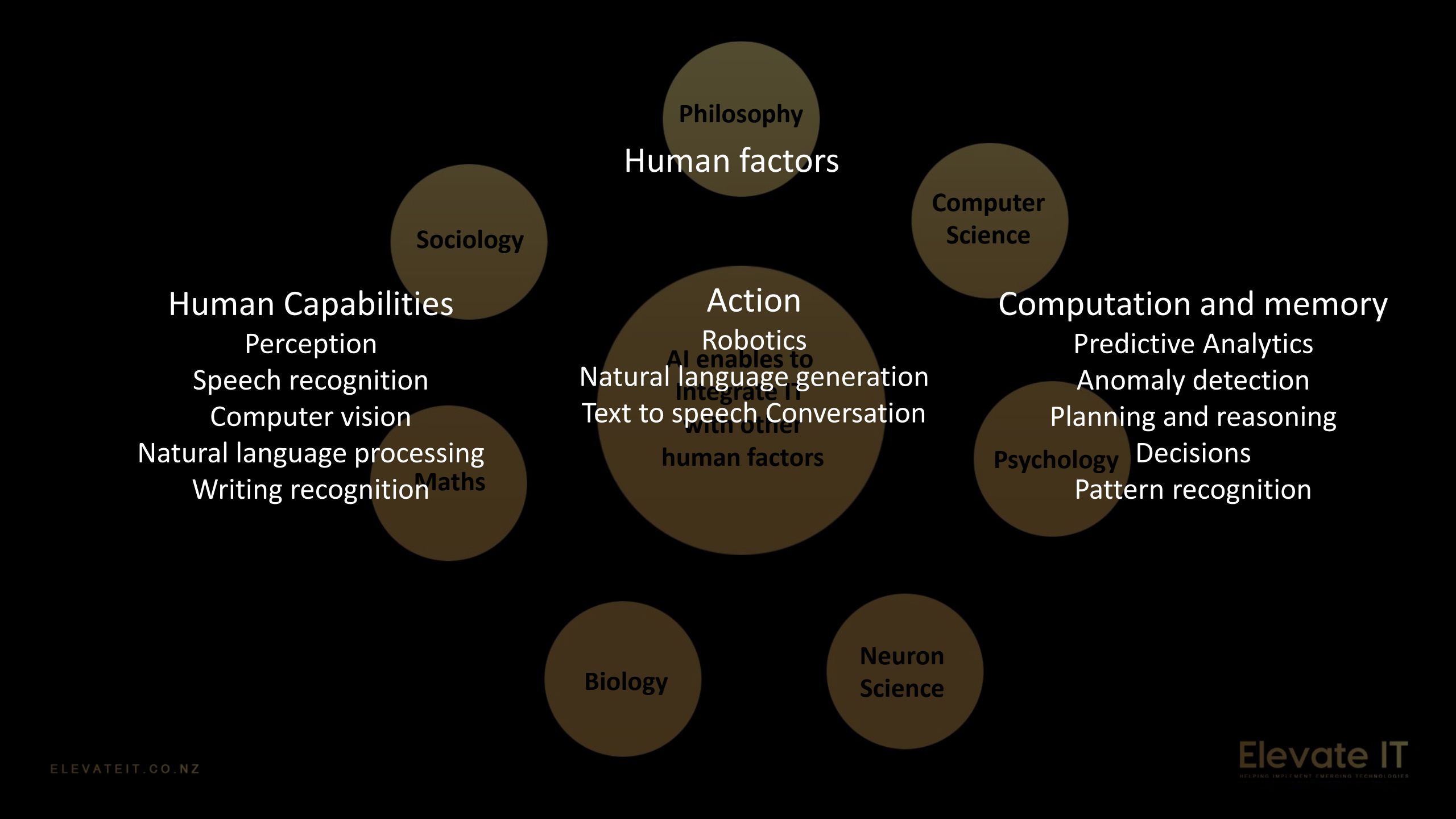


Soon you should be able to automate majority of the test activities.

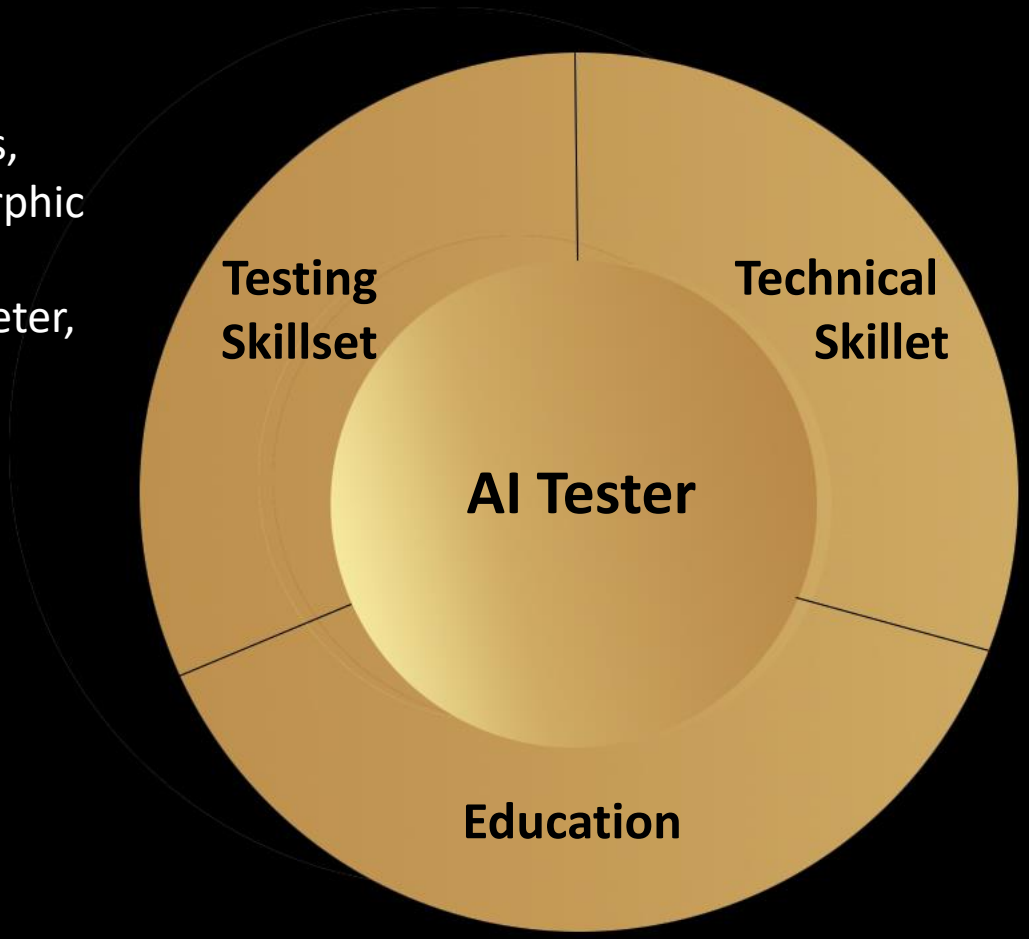
How AI systems are different ?


Philosophy
Sociology
Computer Science
AI enables to Integrate IT with other human factors
Maths
Psychology
Biology
Neuron Science


Philosophy
Human factors
Sociology
Computer Science
Human Capabilities
Perception
Speech recognition
Computer vision
Natural language processing
Writing recognition
Action
Robotics
Natural language generation
Text to speech Conversation
AI enables to integrate IT with other human factors
Computation and memory
Predictive Analytics
Anomaly detection
Planning and reasoning
Decisions
Pattern recognition
Maths
Psychology
Biology
Neuron Science

What type of Skills will help To Test AI systems?

Testing Skills
ISTQB Techniques – Risk Analysis, Validation Techniques, Metamorphic Testing, A/B Testing
Tools – SoapUI, Junit, Spock, JMeter, Cleverhans



Frameworks
TensorFlow, Caffe, Torch, MXNet etc.
Programming Languages
Python, C#, R, Scala, JS etc.
BigData
Redis, SAP Hana, Hadoop, DMTK, MongoDB, Cassandra

Mathematics Probability, Linear algebra, Calculus, Statistics
Economy, Computer hardware, Philosophy, Ethics, Psychology, Social Science

AI in New Zealand

Artificial Intelligence in New Zealand 2018

New Zealand has a thriving AI industry working with AI technologies at all levels. This ecosystem map - based upon ongoing AI Forum research - shows who's investing in, working with and thinking about Artificial Intelligence in New Zealand in 2018.

Things are moving very rapidly and we know this map will constantly evolve - if you've got a suggested addition, please let us know at *mapping@aiforum.org.nz* and we'll publish regular updates.

Produced By: AI Forum New Zealand

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DESIGN BY FLUX NZ.COM

Version 1.4 October 2018

Thanks

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