















SIMCENTRIC AT A GLANCE



SIMULATIONS

We are a Simulation Technology company



GLOBAL

We have a global customer base



PRODUCTS

We develop only commercial off-the-shelf (COTS) products



IP

We focus on the development of software which adds to our own IP



SRI LANKAN BASE OF OPERATIONS

All research, development, maintenance and support is done at our Sri Lankan office



COMMERCIAL USERS















MILITARY USERS















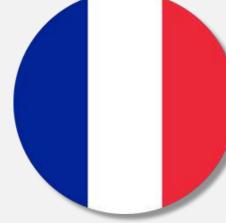










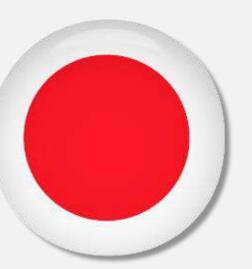










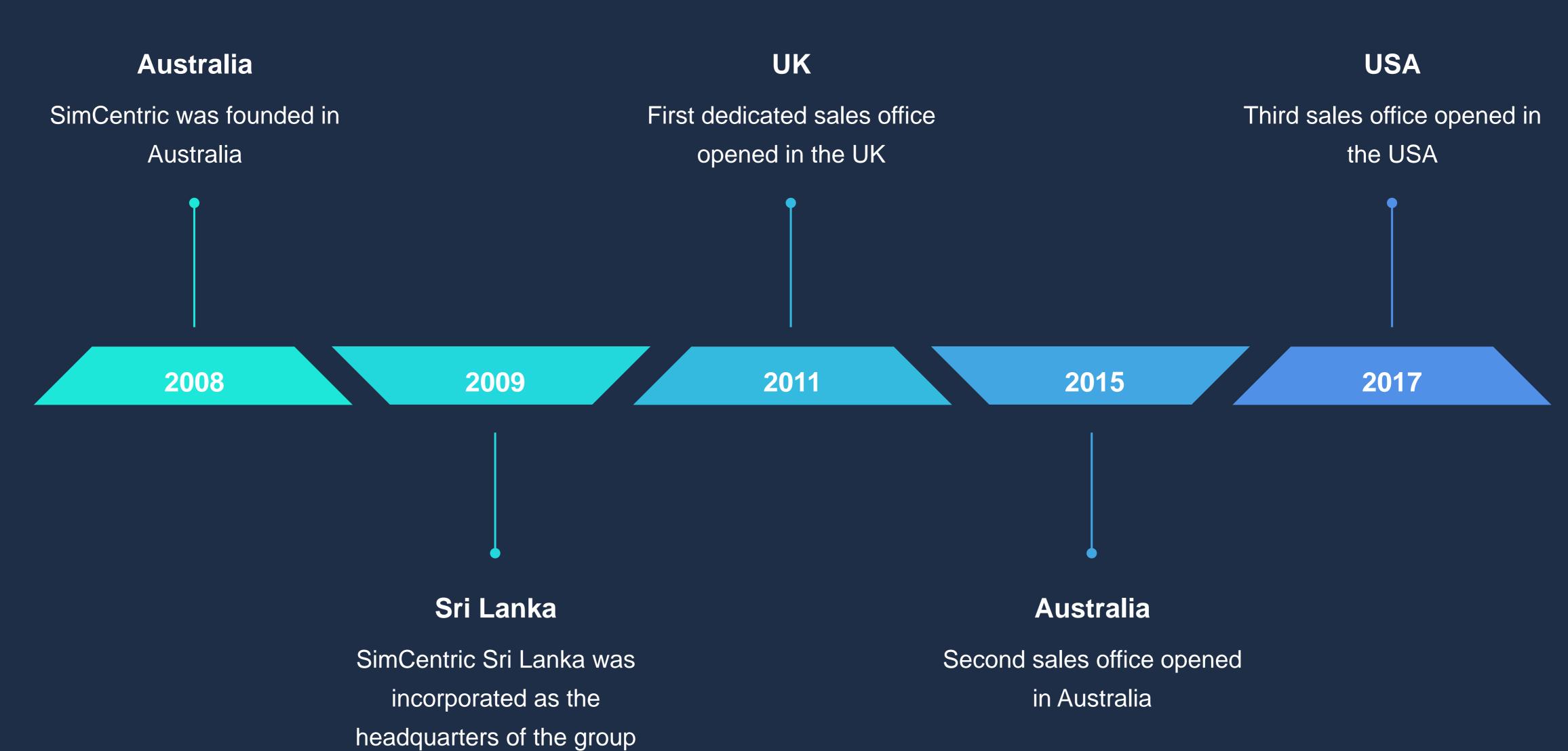






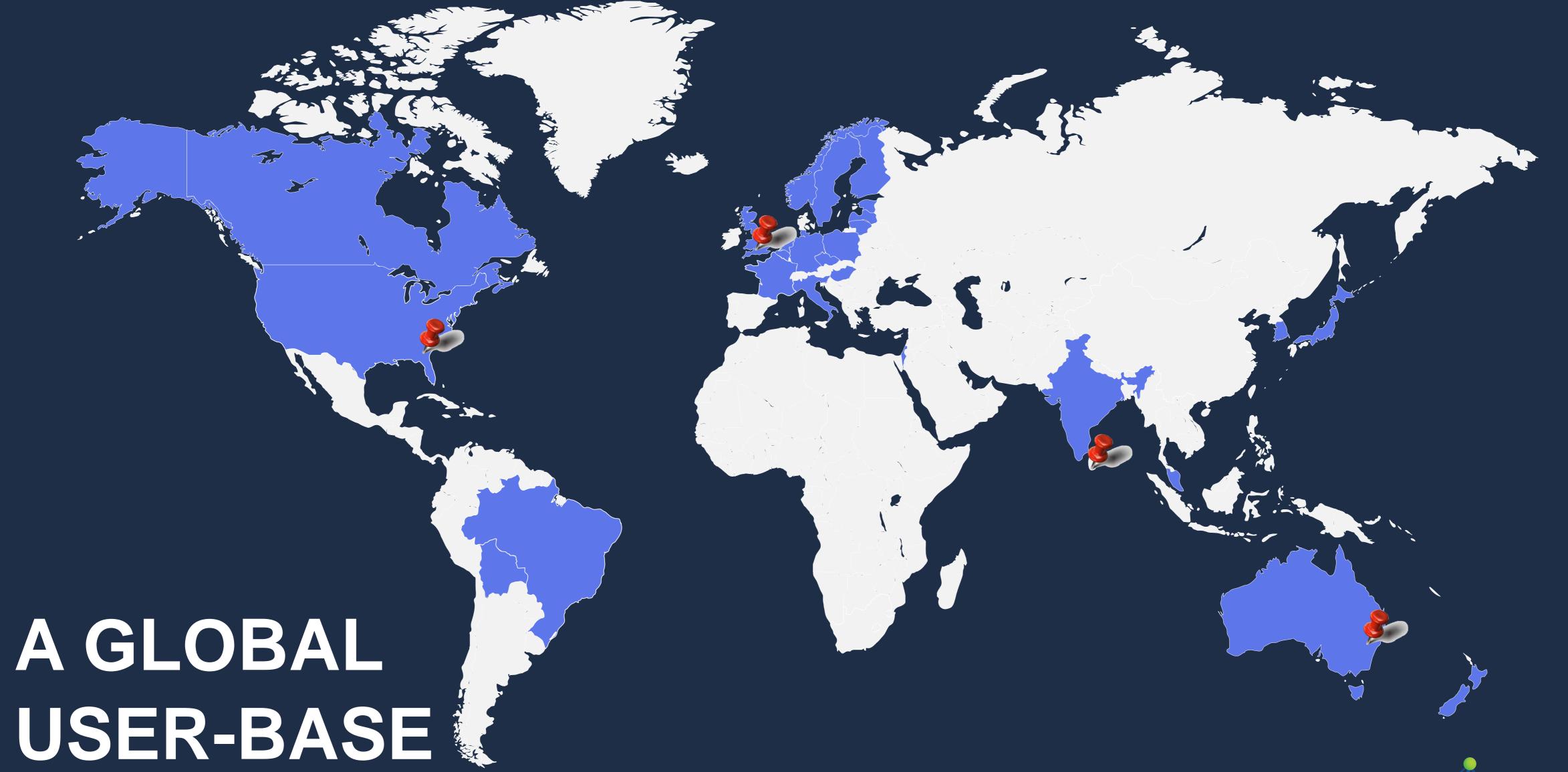


THE SIMCENTRIC GROUP











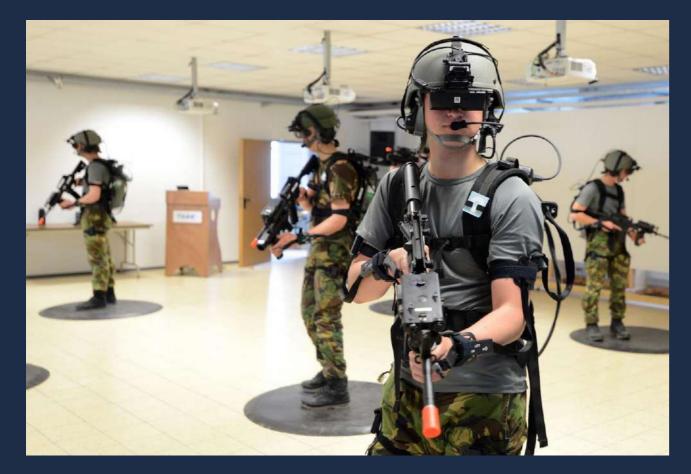


HOW OUR PRODUCTS ARE USED

SIMULATION BATTLE LABS



VR AND AR SYSTEMS





PART OF LARGER SIMULATOR SYSTEMS



360° OR 180° DOMES





PRODUCTS



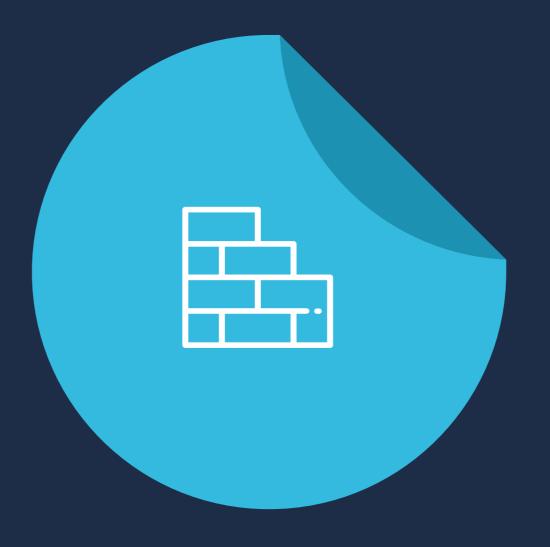
SPECIALISED SIMULATORS

Specialized simulator environments and sandboxes for training call-for-fire, call-for-airstrike and gun-range safety



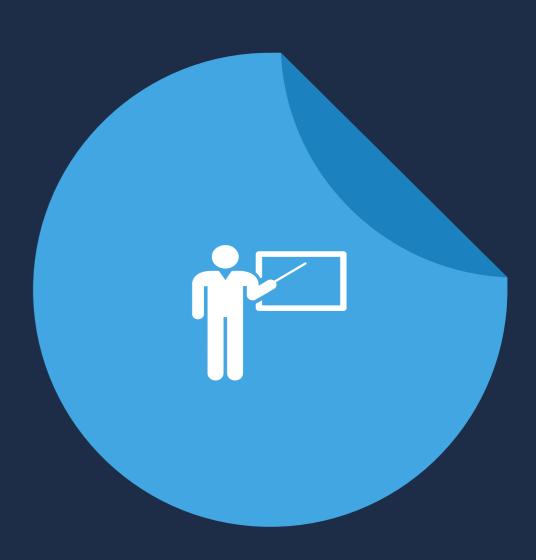
SIMULATOR ADD-ONS

Bolt-on add-ons to add crowds and traffic to any simulation environment



SIMULATION MIDDLEWARE

Execution engines, application programming interfaces (APIs) and tools for building simulations

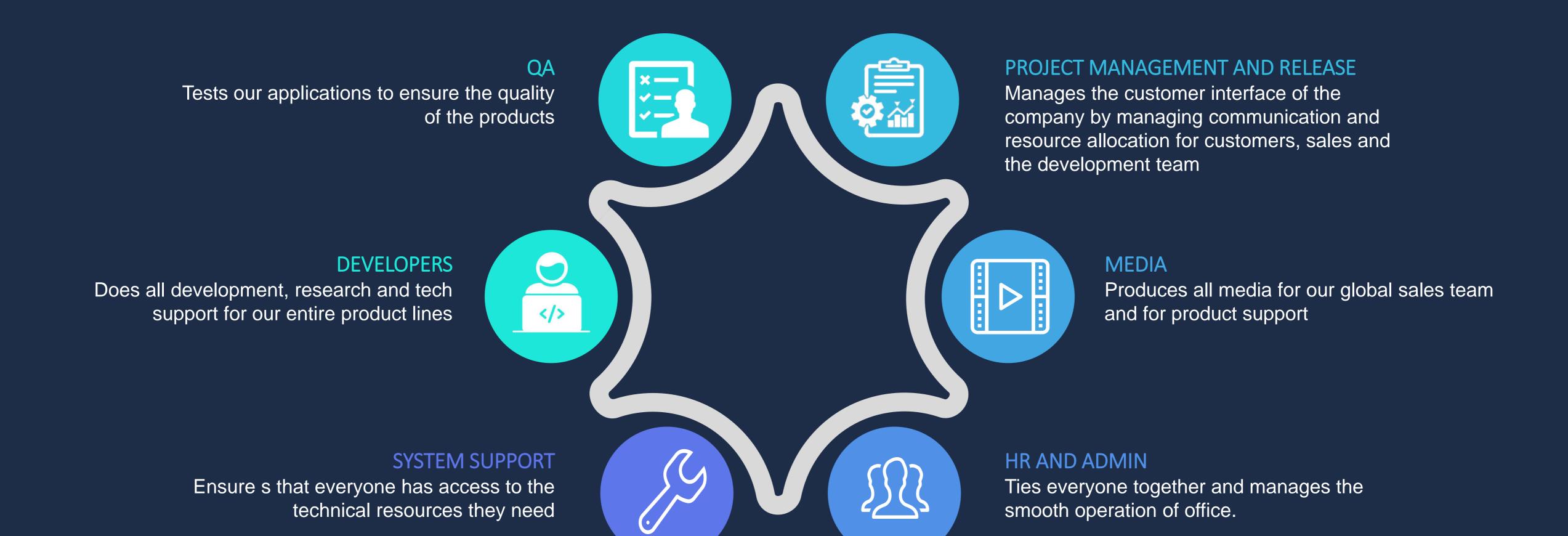


TEACHING TOOLS

A suite of teacher tools to assist simulation instructors with conducing training or evaluation sessions



THE LOCAL TEAM





OUR TEAM





TENGRIAT A GLANCE



UNMANNED VEHICLES

We build a platform for building and controlling unmanned vehicles



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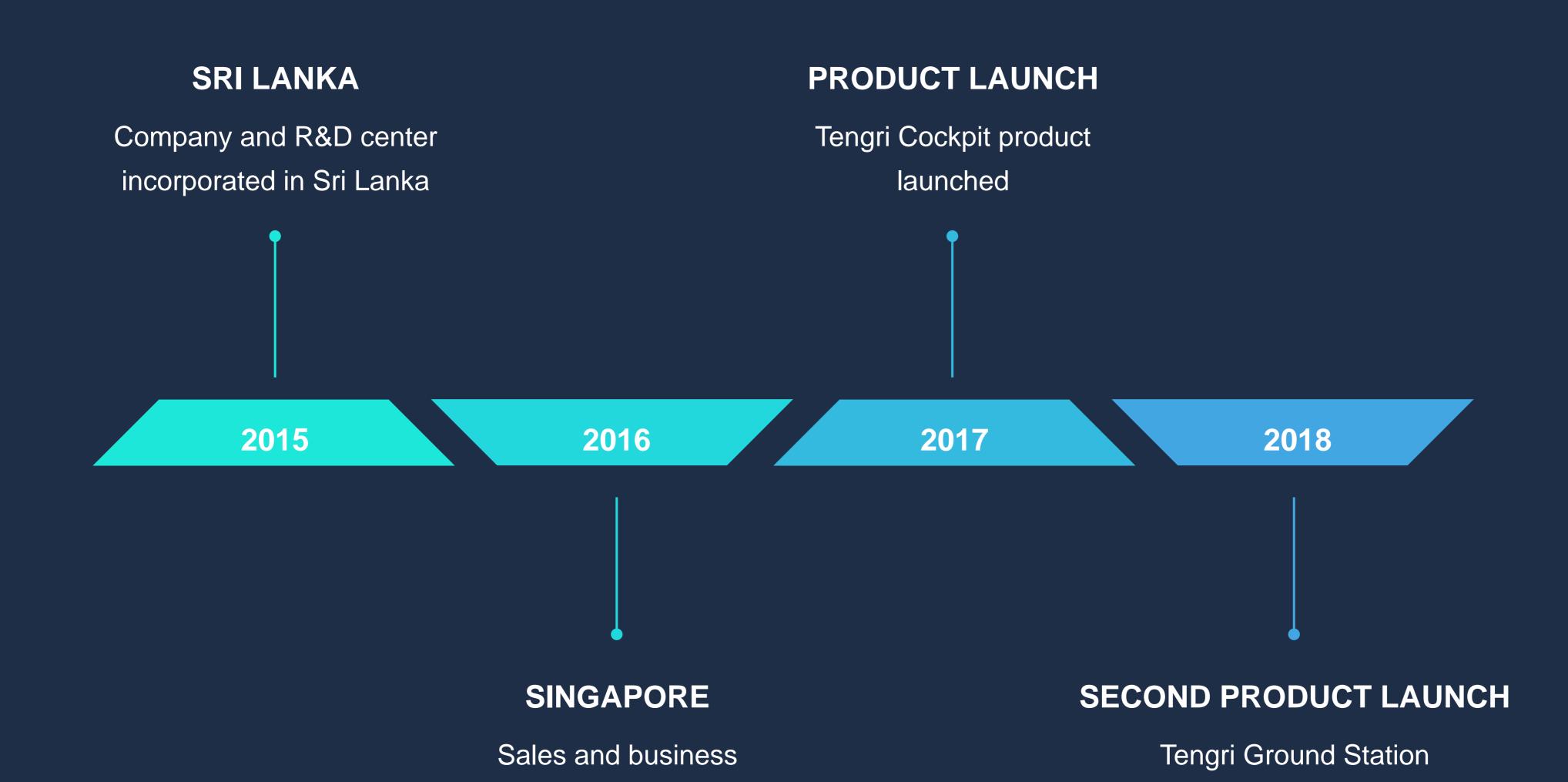
SRI LANKAN BASE OF OPERATIONS

All research, development, assembly, maintenance and support is done at our Sri Lankan office

launched

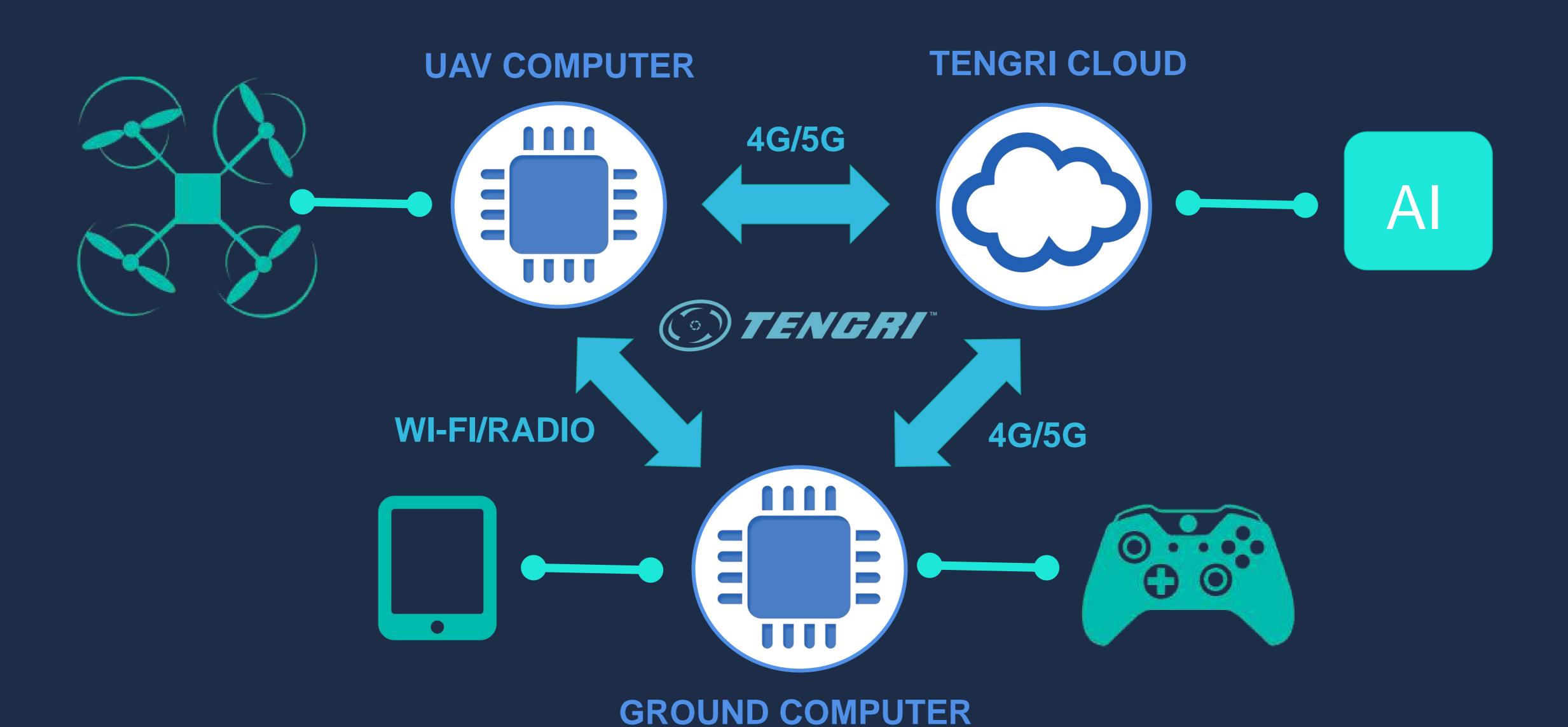


TENGRI UAV



development office opened

TENGRI THE TENGRI UAV PLATFORM





TENGRI THE TENGRI UAV PLATFORM





UAV COMPUTER

LAUNCHED IN 2017

GROUND COMPUTER

LAUNCHING NOVEMBER 2018





TENGRI TARGET APPLICATIONS



MAPPING



FIRST RESPONDERS



SURVEYING





INDUSTRIAL INSPECTION





ARTIFICIAL INTELLIGENCE

ACADEMIA

106
Al Journals

10% of CS publications

tagged as Al

Al Conferences

361

561Al Related Conferences

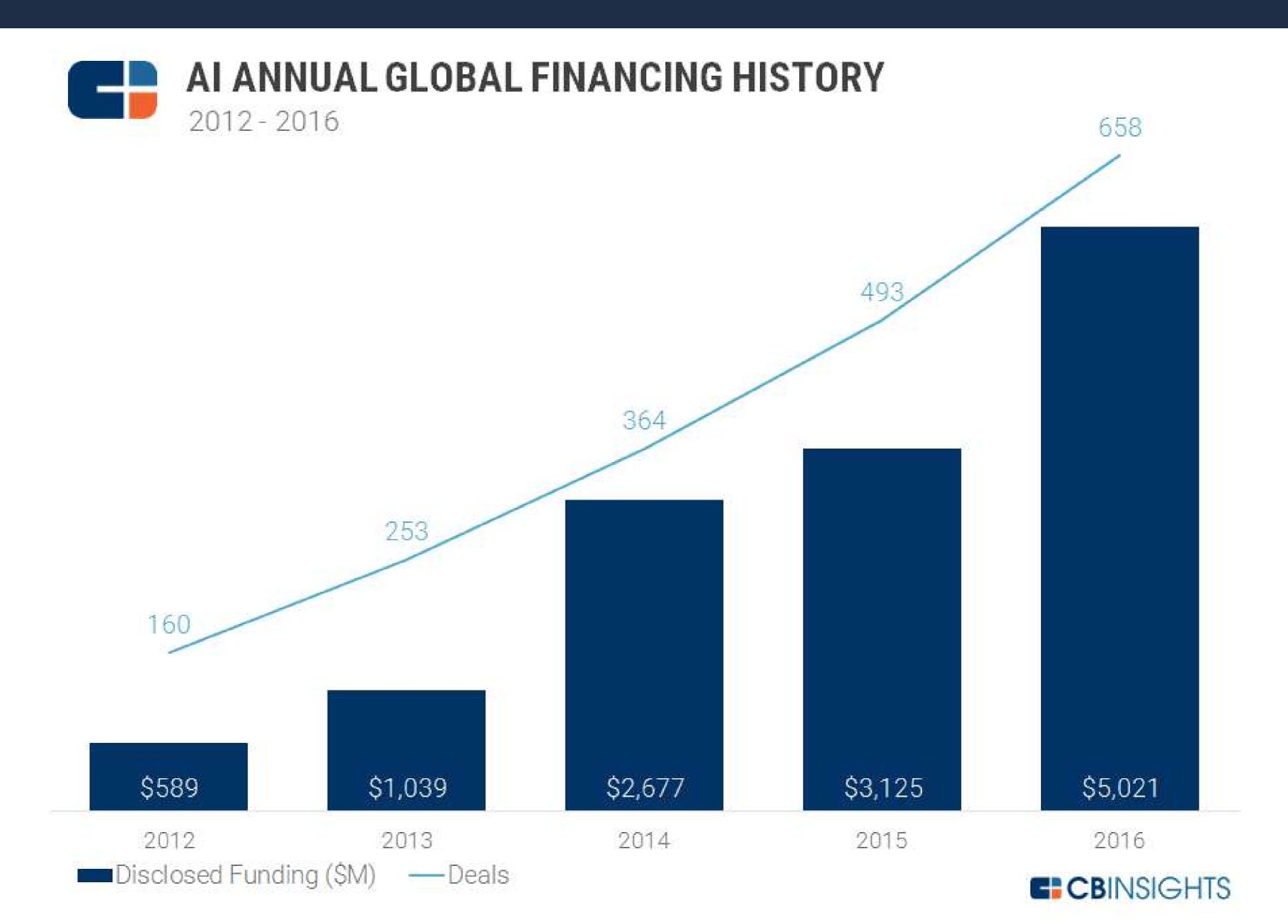
20%
of CS publication tagged
as AI related

7125Al related organizations

172
Al Related Journals

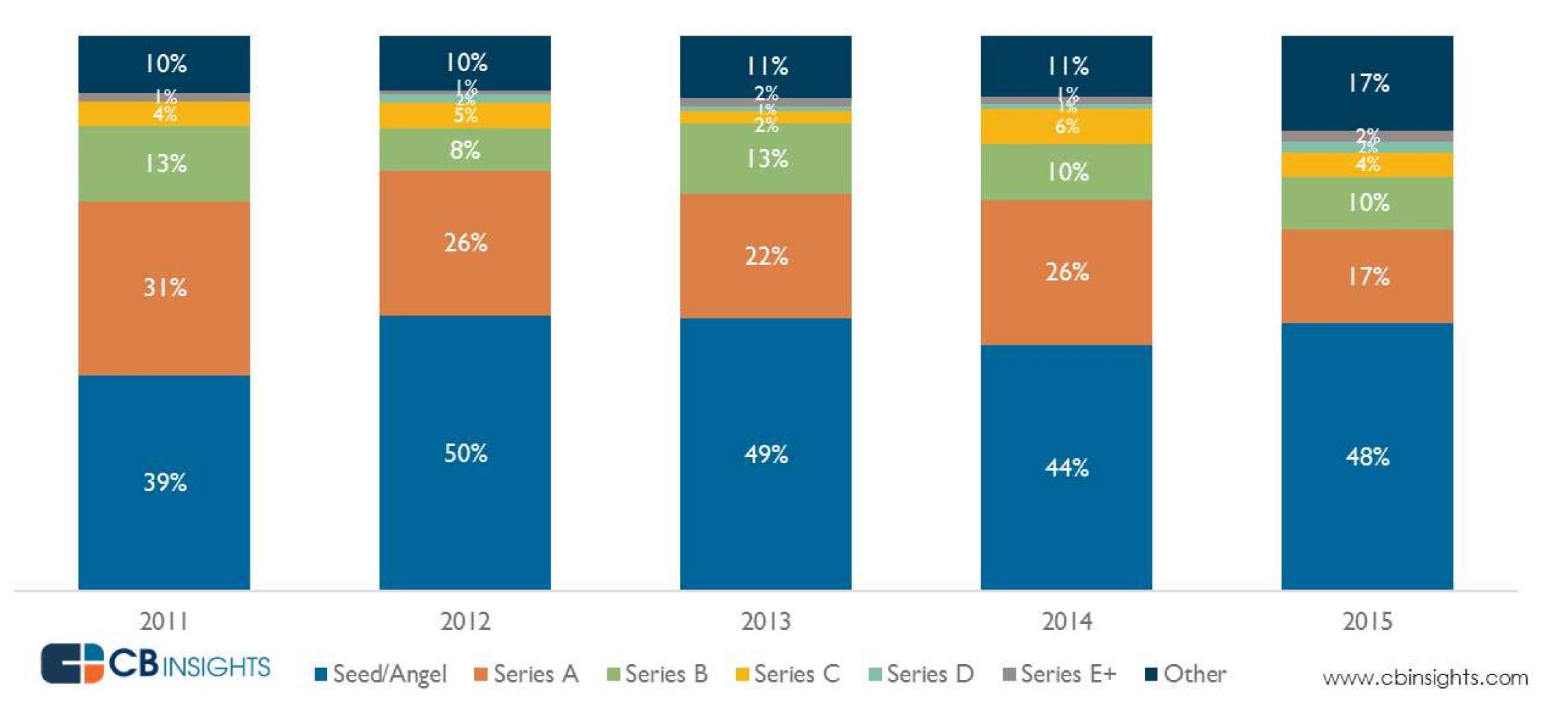
1/3
of NSF funding for AI or
AI related research

"How Big is the Field of Artificial Intelligence", Luke Muehlhauser & Jonah Sinick, Machine Intelligence Research Institute (MIRI), January 2014



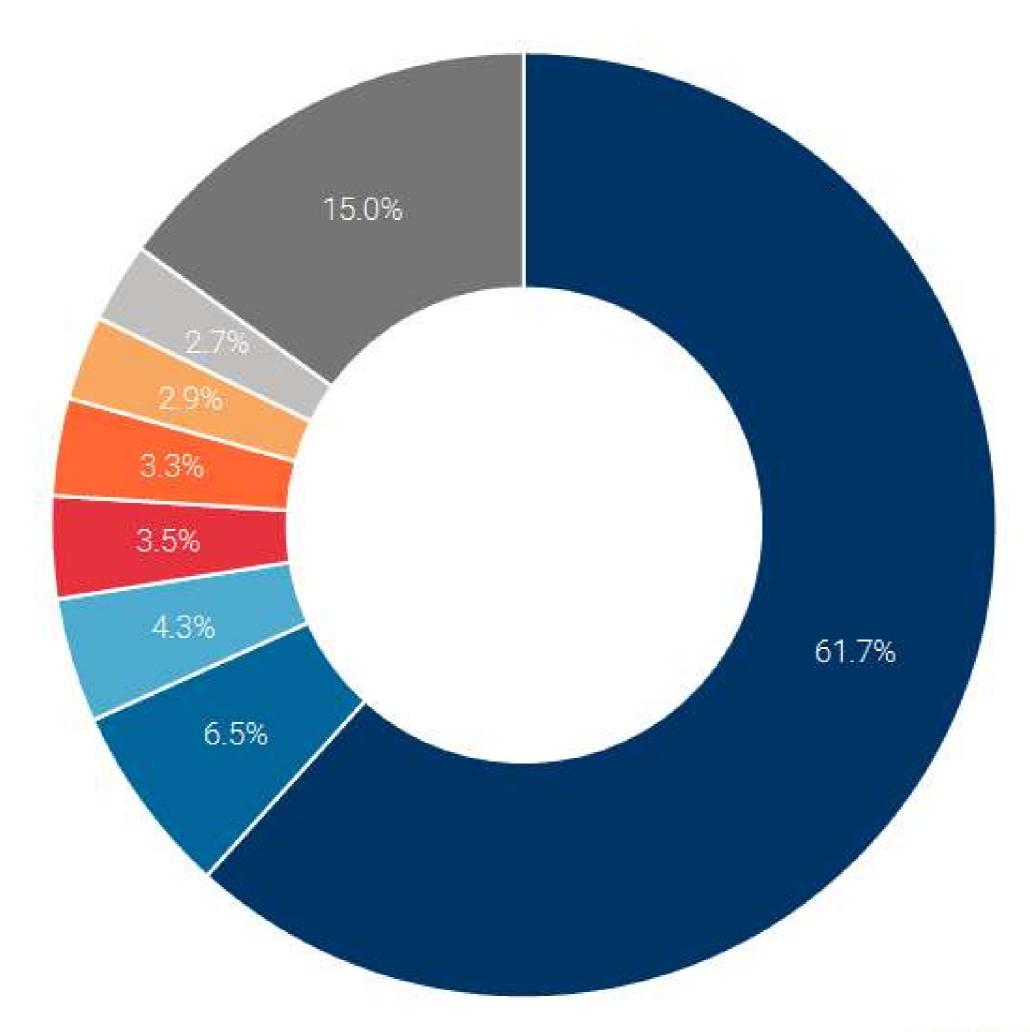
Artificial Intelligence: Deal Share By Stage

2011-2015



AI GLOBAL DEAL SHARE

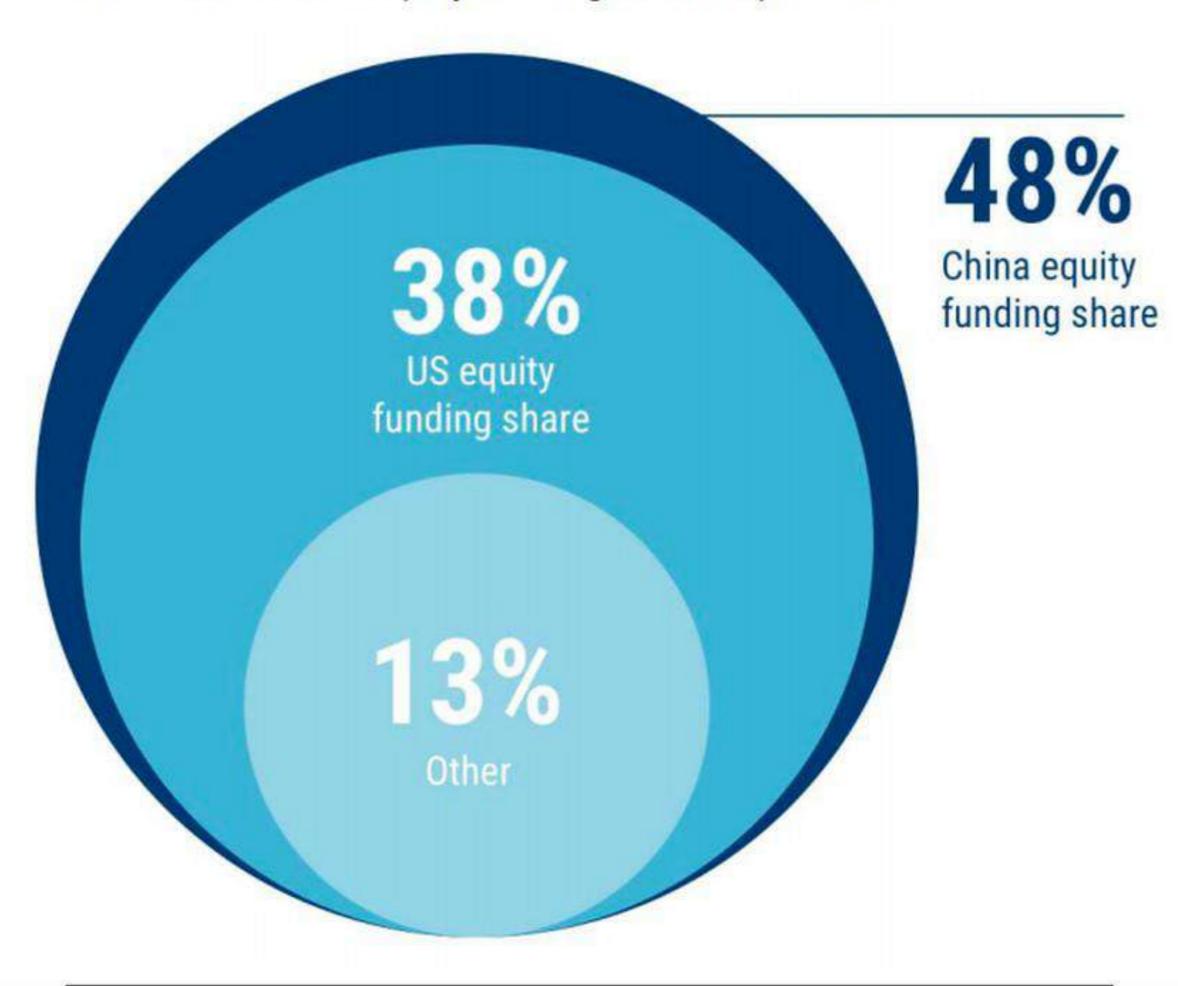
- United States
- United Kingdom
- Israel
- India
- France
- Germany
- Canada
- Other





China dominates global AI funding

US vs. China total equity funding to startups in 2017



INVESTMENTS (2012-2017)

ACQUISITIONS (2012-2017)

	defined Crowd Natural Language Understanding Made Easy	② Evi
		ENOVAURIS VOCALIA EMOTIONT TURI TUPLE TUPLE TINIT. AI R E G A I N D
cisco	□prospero Paxata 🏠 💯 exabeam Moogsoft*	**** MindMeld
F		JIBBIGO Ófoce.com Wit.ai Masquerade Zurich Eye
ge)	** tamr stem SmartAssist ** ** MACHINE MANUFACTURING ANALYTICS Predixion PingThings MedAware MAANA HealthReveal FORFINE STEW AYASDI ARTERYS	BITSTEW SYSTEMS WISE.IO
	Orbital Insight MODSY MindMeld Mighty Ai LATTICE Lemonade fullstory FRAMED digit Mobvoi	DNN research Dark Blue Labs Pactory Dark Blue Labs Wision Factory Pactory Pact

INVESTMENTS (2012-2017)

ACQUISITIONS (2012-2017)



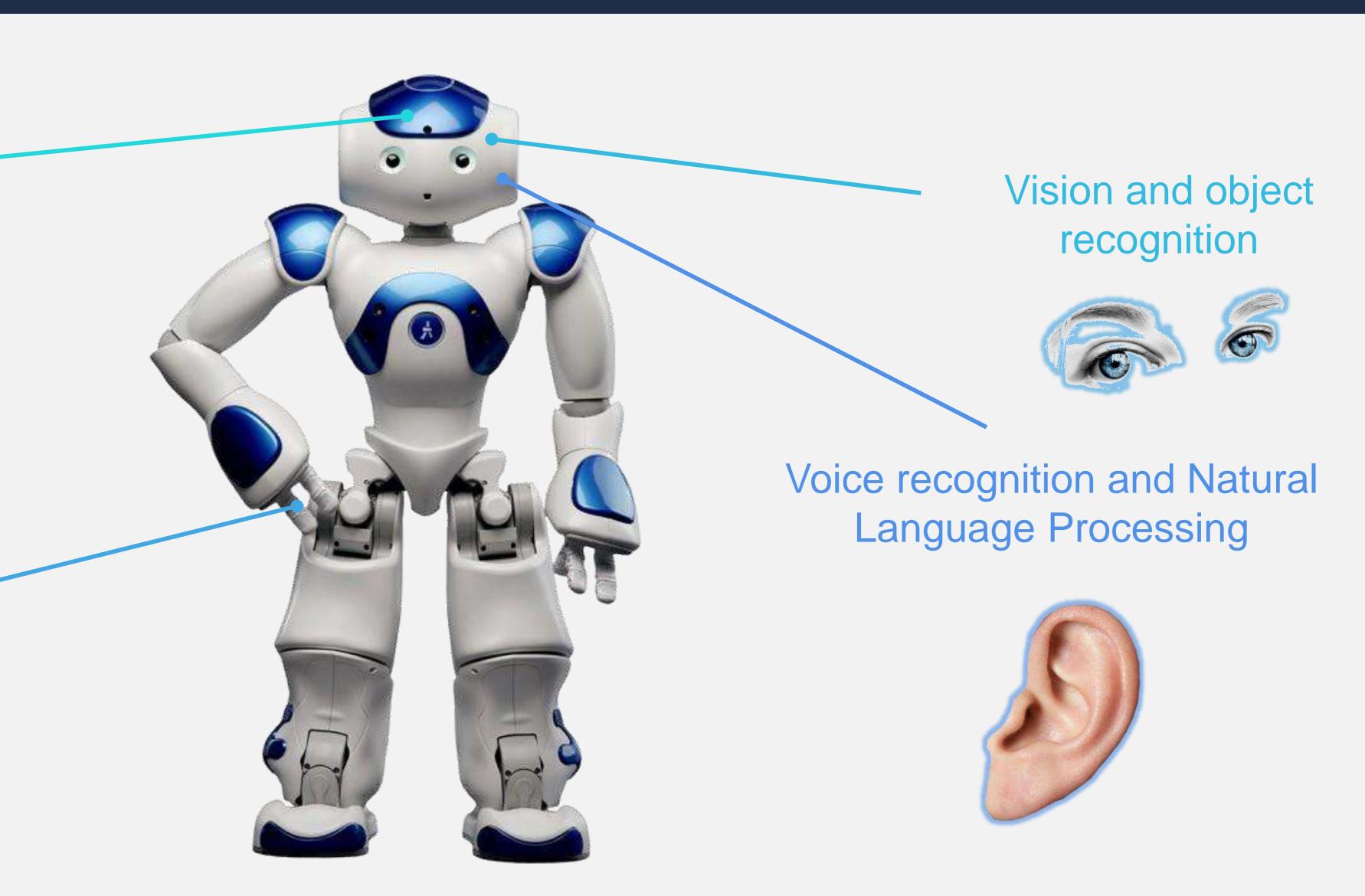
AUTOMATION

Cognitive reasoning and knowledge representation



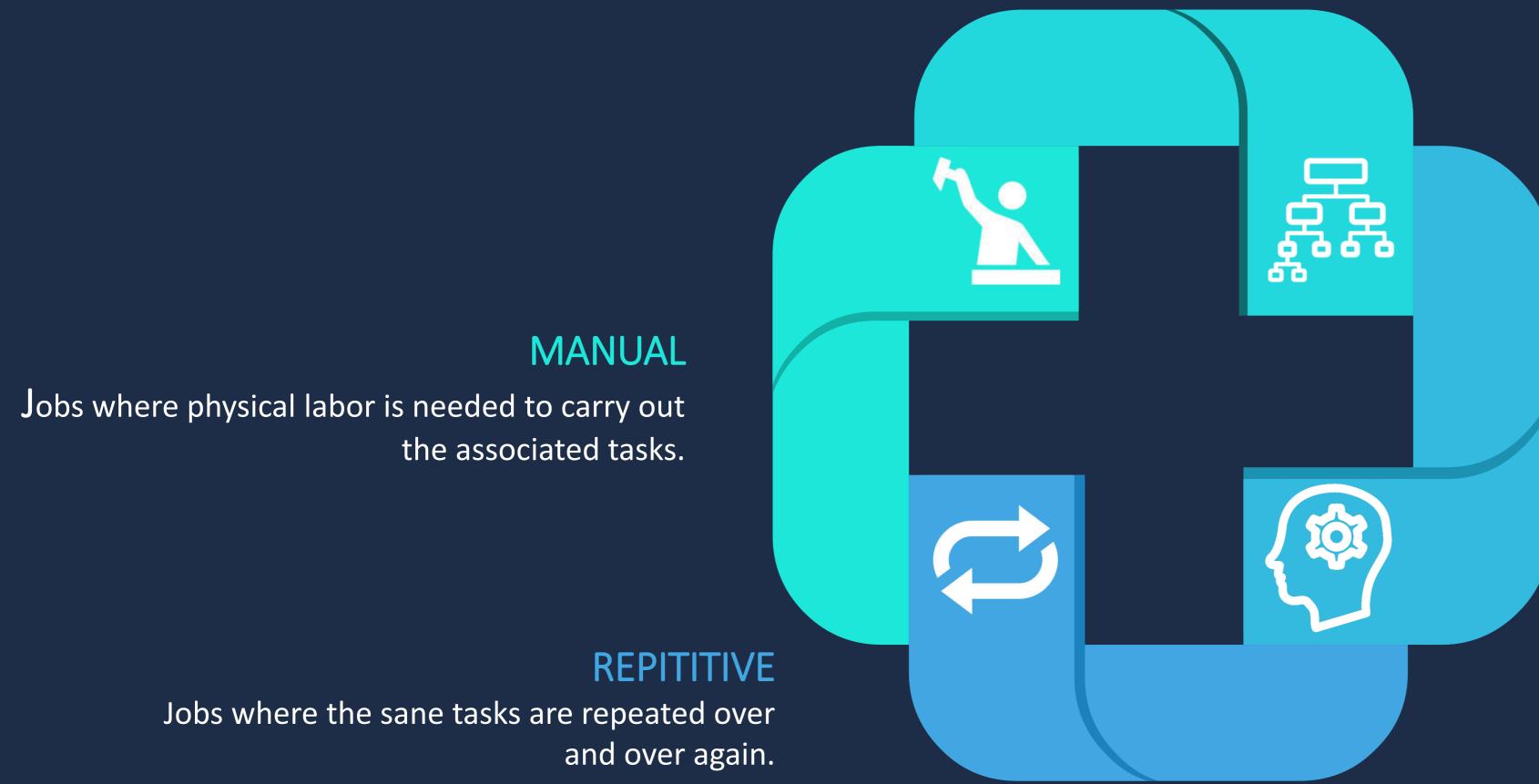
Robotic actuator control





REPLICATING HUMAN SKILLS

AUTOMATION

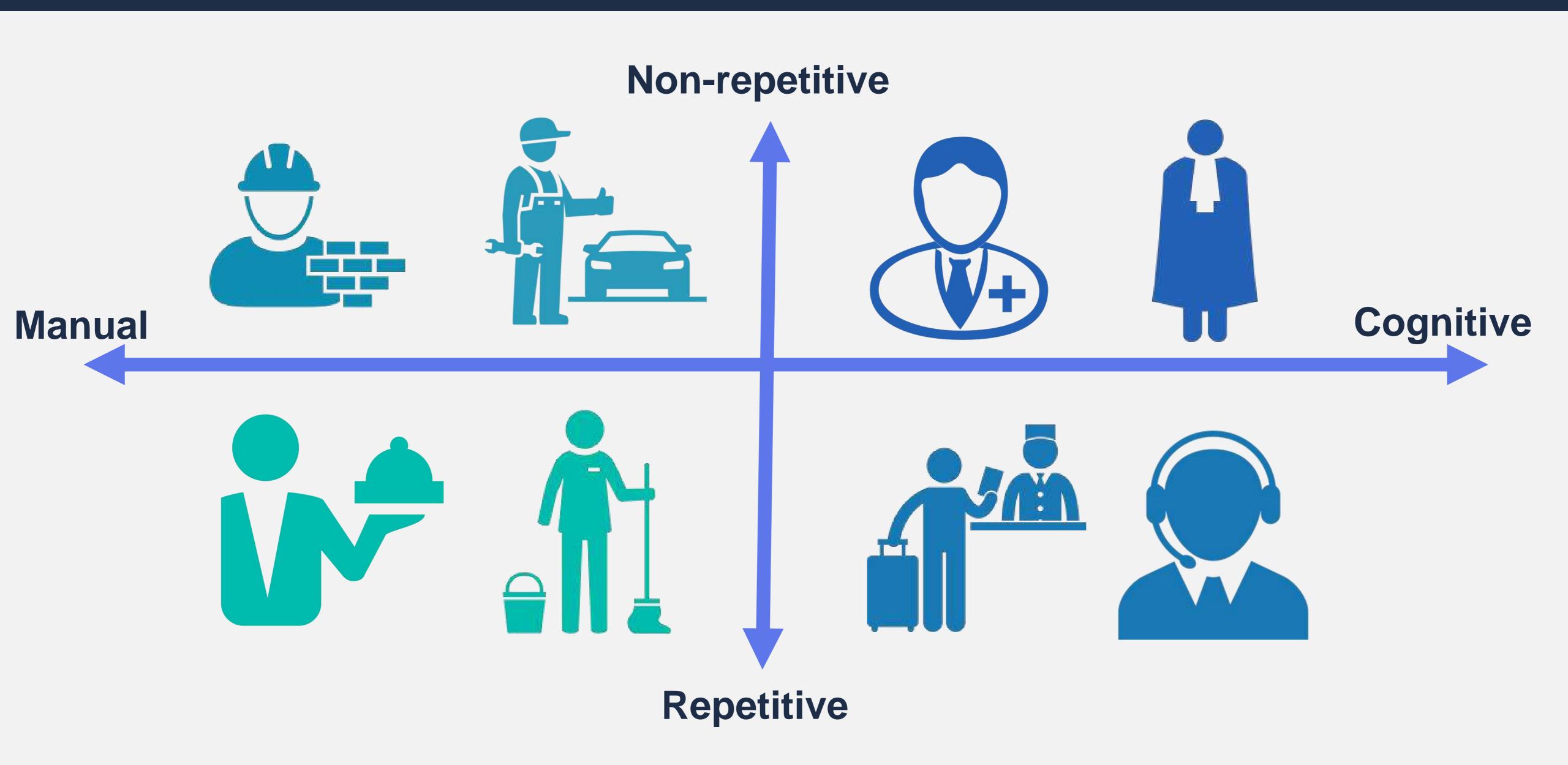


NON-REPITITIVE

Jobs where the tasks carried out over a day vary depending on the task.

COGNITIVE

Jobs where knowledge and thought are needed to complete the associated tasks.



AUTOMATION RISK

Automated for the people

Automation risk by job type, %

Food preparation

Construction

Cleaning

Driving

Agricultural labour

Garment manufacturing

Personal service

Sales

Customer service

Business administration

Information technology

Science & engineering

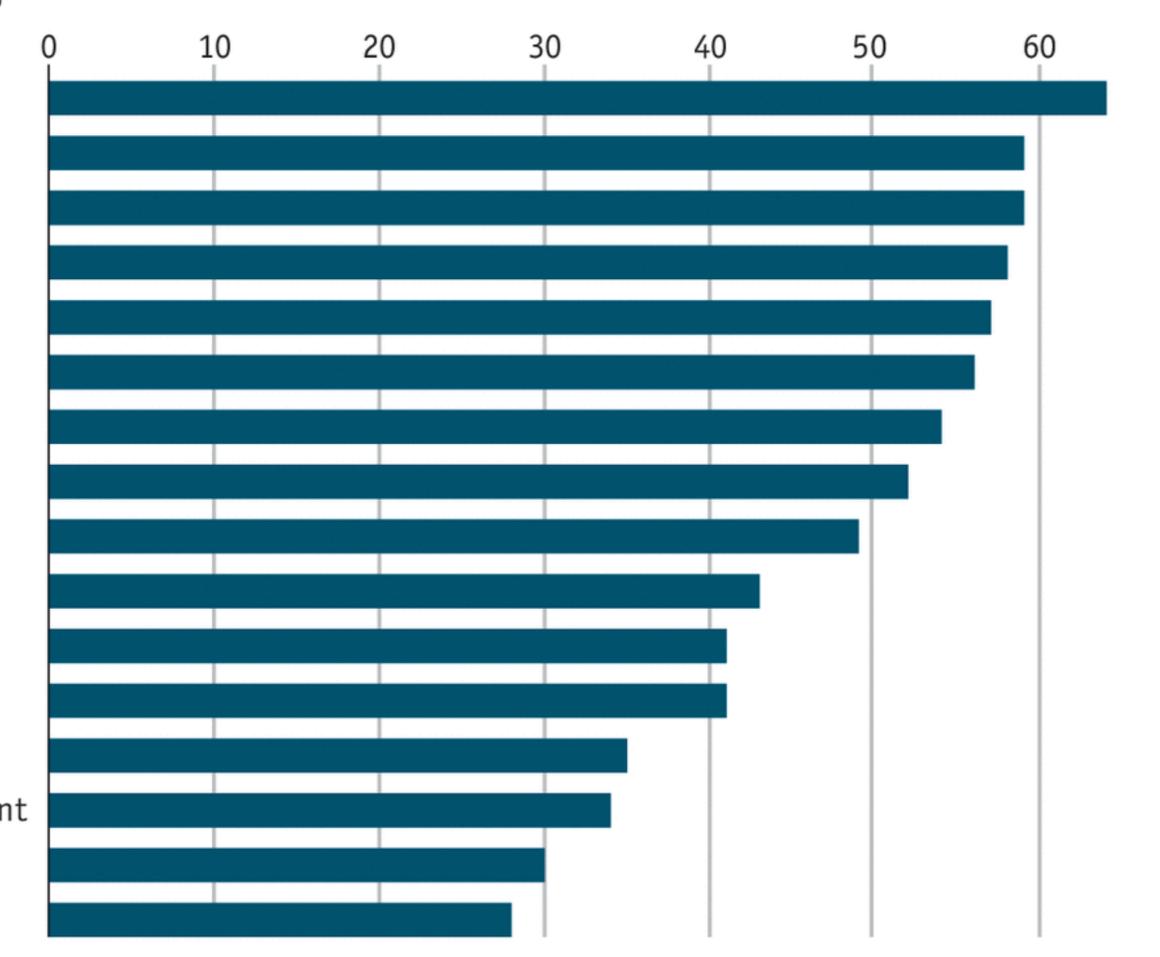
Healthcare

Hospitality & retail management

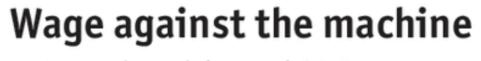
Upper management & politics

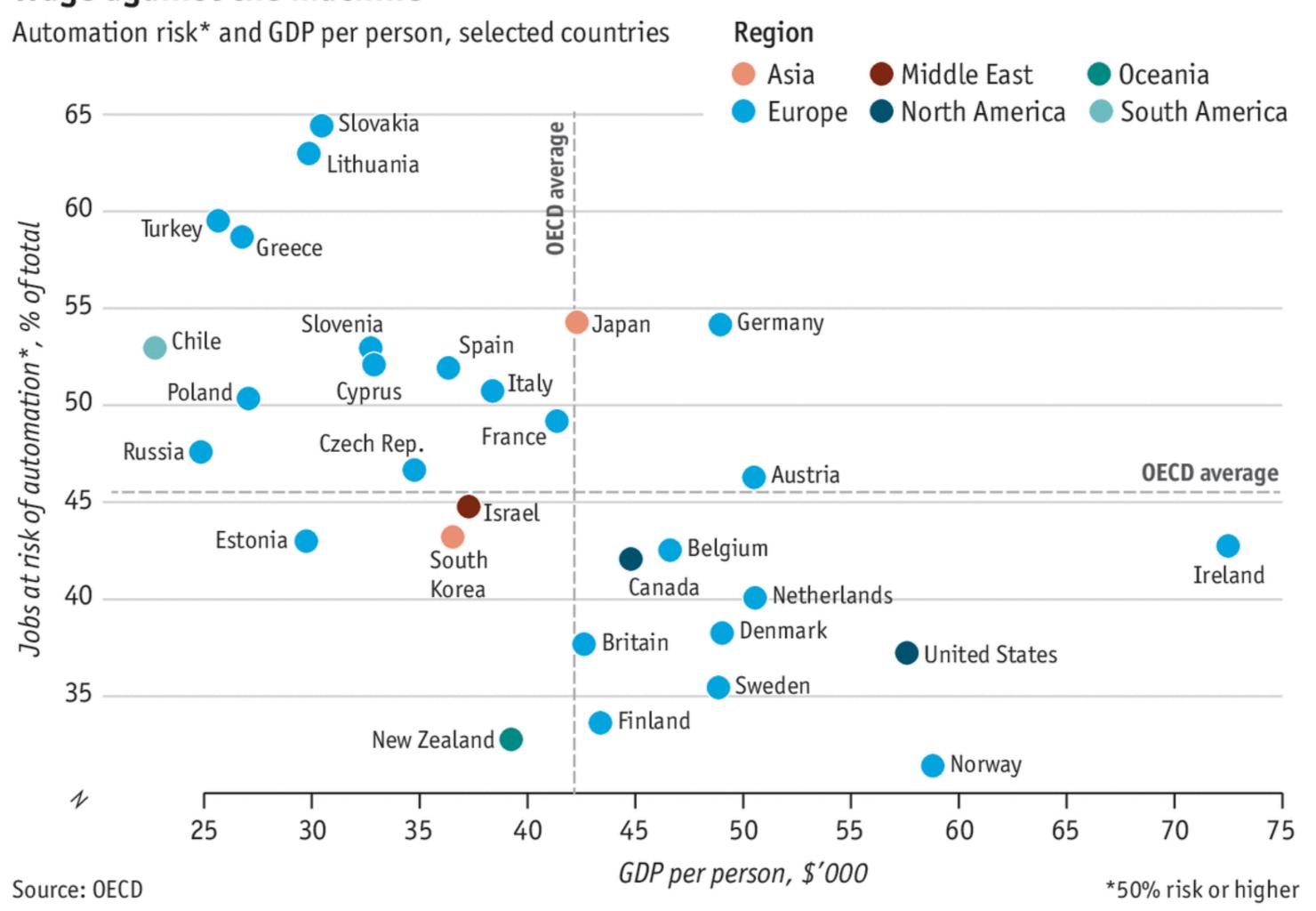
Teaching

Source: OECD



AUTOMATION RISK



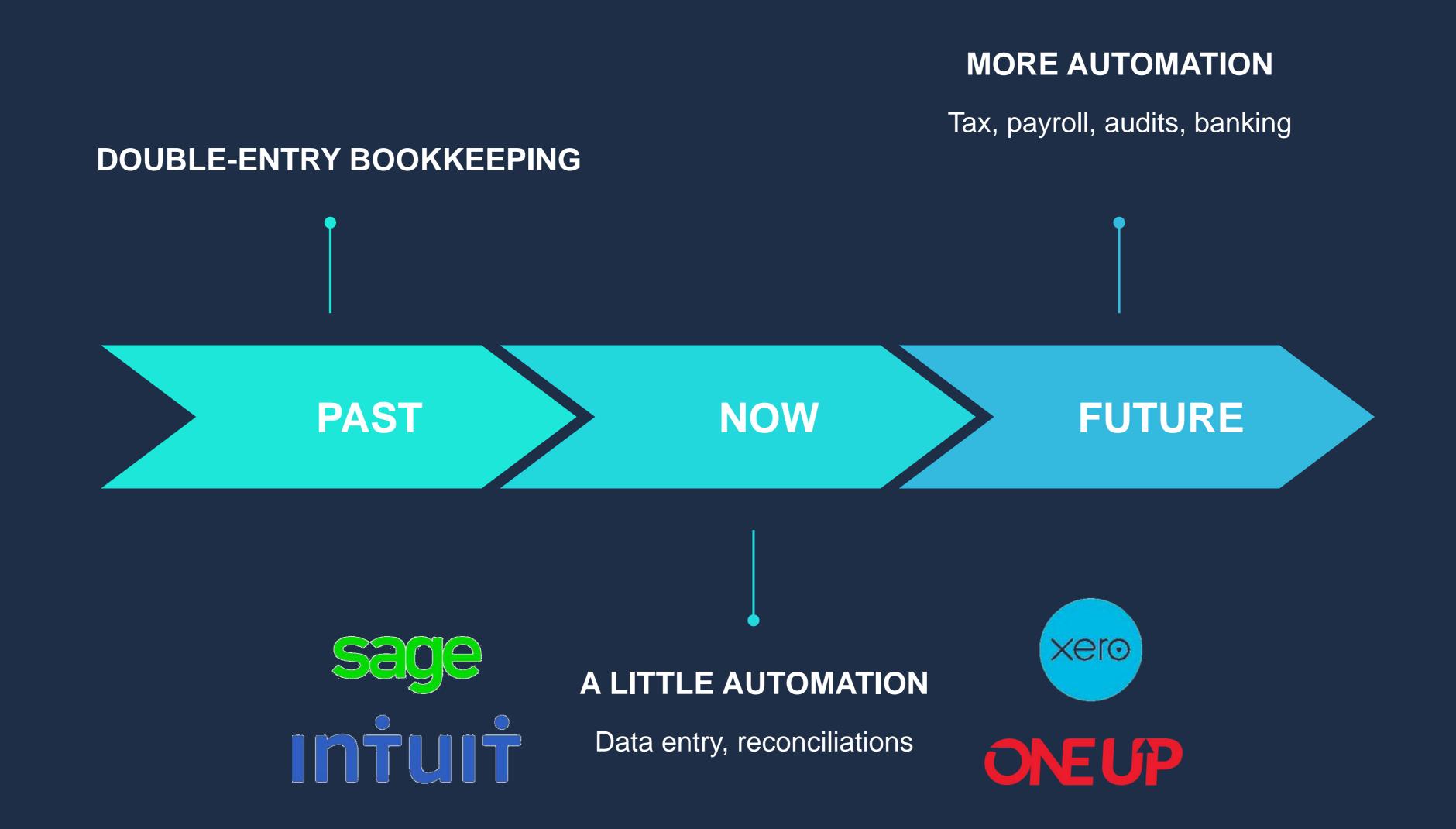


AUTOMATABLE EMPLOYMENT

	MGI (2017c)	World Bank (2016)
Argentina	48%	65%
China	51%	77%
Costa Rica	52%	68%
Ethiopia	50%	85%
India	52%	69%
Malaysia	51%	68%
Nigeria	46%	65%
South Africa	41%	67%
Thailand	55%	72%

^{*} McKinsey Global Institute. (2017c). Where machines could replace humans — and where they can't (yet). **World Bank. (2016). World Development Report: Digital dividends. Washington, DC: World Bank.

ACCOUNTING - TODAY AND THE FUTURE



AI IN ACCOUNTING

RECENT EXAMPLES

1

RECONCILIATION OF FEES, PRICING AND TRANSACTION DATA

Data from 200+ financial advisors was reconciled into a single database.

Data automatically obtained from pdfs, excel, emails and websites

2

BROKER DEALER RECONCILIATION

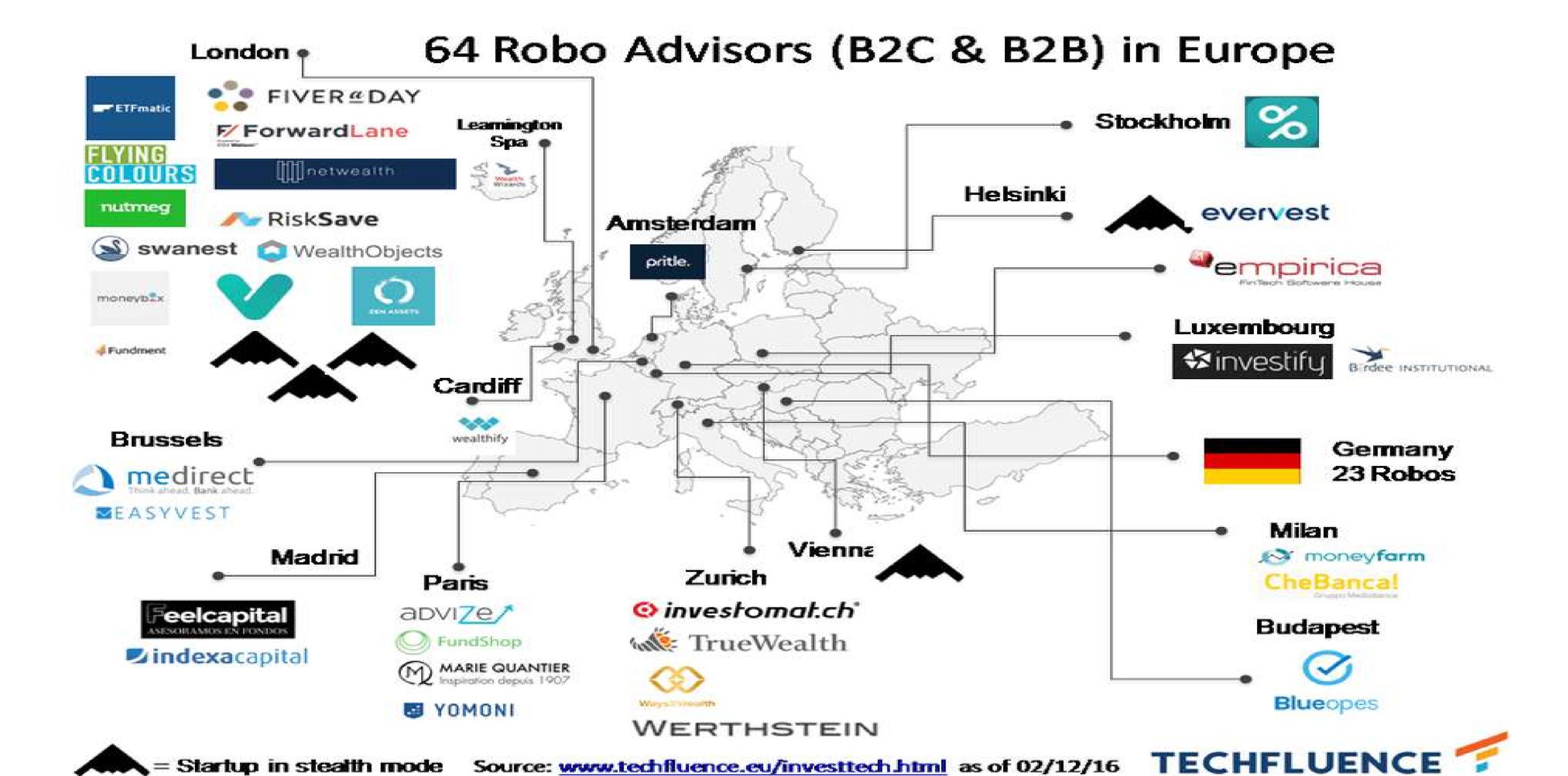
A large broker deal with global operations across 80+ countries were reconciled into a single database. Able to add 2 exchanges a day compared 1 every 2 months.

3

ACQUISITION OF LOAN PORTFOLIO

Data mined from different types of sources and formats. Entire portfolio was analyzed, categorized, matched and entered into database in 2 weeks. (Initial estimate was 1 year).

ROBO ADVISORS



INVESTMENT BANKING

Rebellion Research

Uses Bayesian networks to predict market trends

Sentient Technologies

- Highest funded AI tech company in the world (US \$ 168 M)
- Offers a powerful AI platform
- Used within several sectors

Aidyia

 Uses massive parallel computing to run evolutionary and deep learning algorithms

Bridgewater Associates

- Worlds largest hedge fund (US \$ 170B)
- Has an internal team of engineers working on a system to automate day-to-day management of the company

Inject randomness









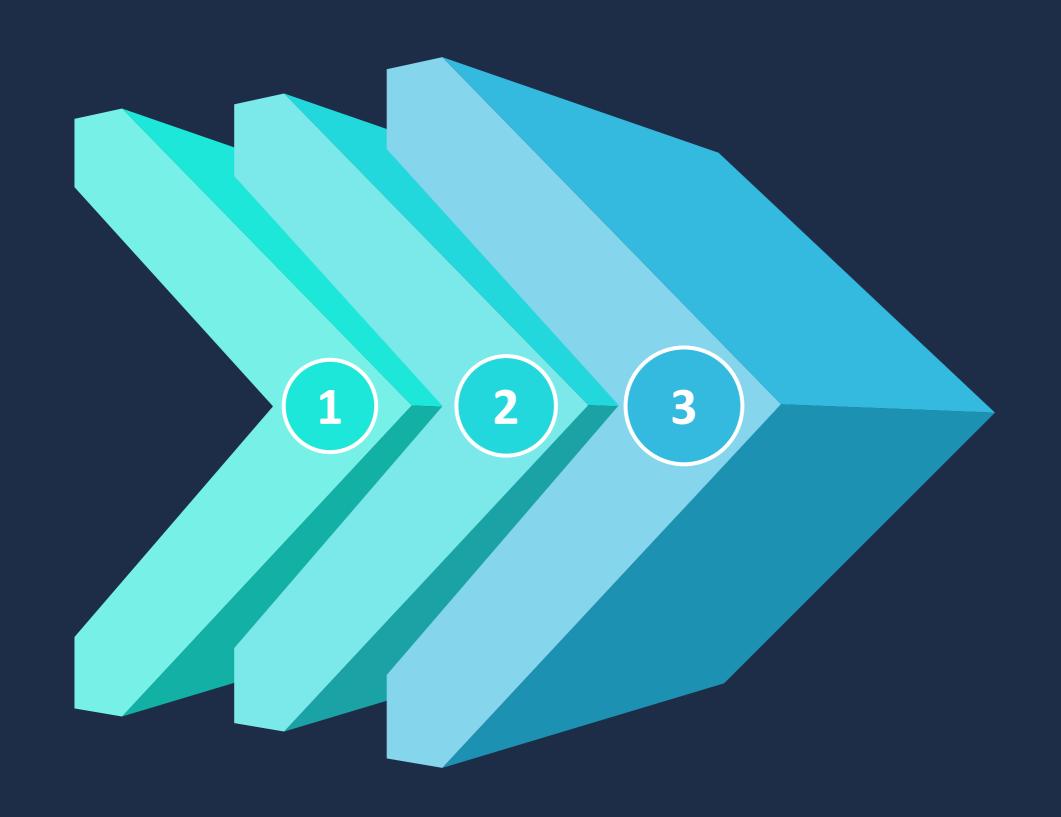
Splice successful algorithms into new ones

Run and analyze each algorithm

- Find best indicators
- Create trading rules
- Convert trading rules into trading strategies



HOW CAN ACCOUNTANTS ADAPT?





EXPLOIT

Technology is a tool. Learn to exploit it. Understand its capabilities.



BE RADICAL

Be open to change and do not be a blocker. Envision step changes instead of incremental changes.



ADAPT

Learn to adapt quickly. Changes are very hard to predict. Be flexible and be ready to learn new things.

HUMANS VS TECHNOLOGY?



ACCOUNTANTS OF THE FUTURE



PARTNERSHIP

RESPONSIBILITY

MANAGEMENT

PARTNERSHIP WITH TECHNOLOGY

Accounts need to work with technology and form a partnership

TECHNICAL RESPONSIBILITY

Accountants will have technical responsibility for all accountancy related technology

TECHNICAL MANAGEMENT

Accountants will have to play the role of a technology manager for all accountancy related technology

Big change to job description and responsibilities

ALL MANAGERS WILL BE TECHNOLOGY MANAGERS

CHOOSE

Senior executives will be responsible for evaluating and choosing the technology which best suits their organization.

AUDIT

Executives will also be responsible for auditing the technology to make sure that it is working under expected parameters



RESPONSIBILITIES

INSTALL & MANAGE

Executives will also be responsible for designing and rolling our the deployment platform.

TEACH

Executives will also be responsible for ensuring that all members of an organization are trained

TECHNOLOGY MANAGER SKILLS

EXPLORE

Spend time to learn about what is going on in the world. Use websites, blogs, podcasts, forums and online videos to keep up-to-date.

LEARN

Always be willing to spend time to learn something new. Use online resources like courses, videos and forums to deep dive into interesting things.



TRY

Be open to trying new things and don't be afraid to try something new. Do not be afraid to make mistakes.

ANSLYSE

Critically self analyze often – both yourself and your organization. Be honest with yourself and understand everything under your control

WHAT CAN WE DO NOW?



START SLOW

Pick easy problems at the start and take it a step at a time. Begin with internal tasks like productivity and client experience improvement.



LEVERAGE EXISTING PLATFORMS

Building AI from scratch is very costly. Use open source platforms and tools so that you can concentrate on the tasks and not the technology.



PICK HIGH ROI PROBLEMS

Define, measure and decide. Make sure to define expectations. Important to also know what AI cannot do.



AUTOMATE ML PROCESS

Automate the machine learning process in your company so that your models improve continuously. Move away from manual data preparation as soon as possible. Use coders as little as possible on the long run.

49

DIGITAL TRANSFORMATION IDEAS



EXPENSE SUBMISSIONS

Al can learn company expense policy, read receipts and audit claims



INVOICE PAYMENTS

Analyze invoices and match amount paid to the right combination of invoices



RISK ASSESSMENT

Comparison of proposed projects with historical projects



ANALYTICS

Quick, real-time analytics



VOICE COMMUNICATION

Create invoices and answer questions using voice communication



INVOICE CATEGORISATION

Learn how to categorize invoices



BANK RECONCILIATION

Completely reconcile bank accounts







01



02

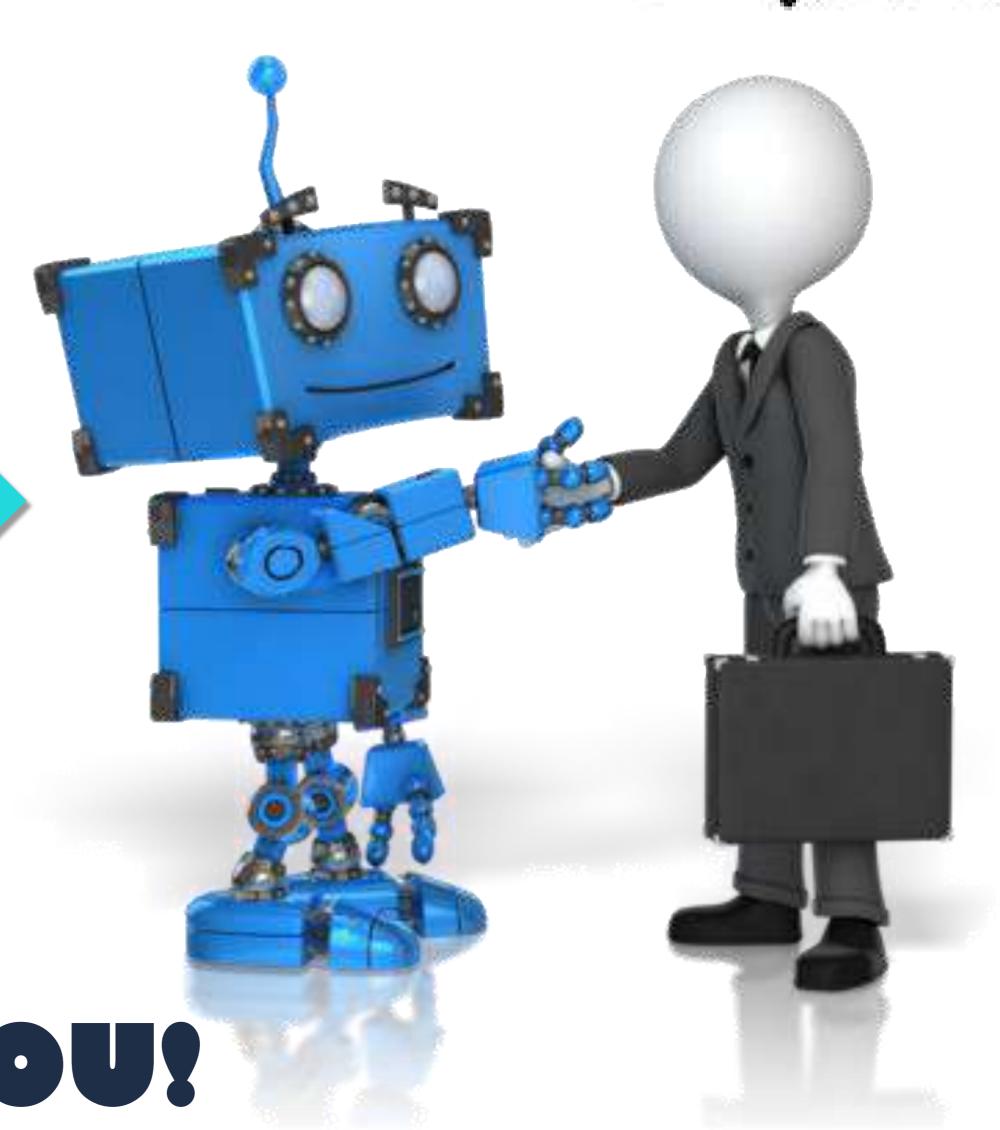


03

PARTNERSHIP

RESPONSIBILITY

MANAGEMENT



THANKYOUS