Cisco Networking Academy UK & Ireland

Elizabeth Barr, Head of the Cisco Networking Networking Academy UK & Ireland

Our Purpose
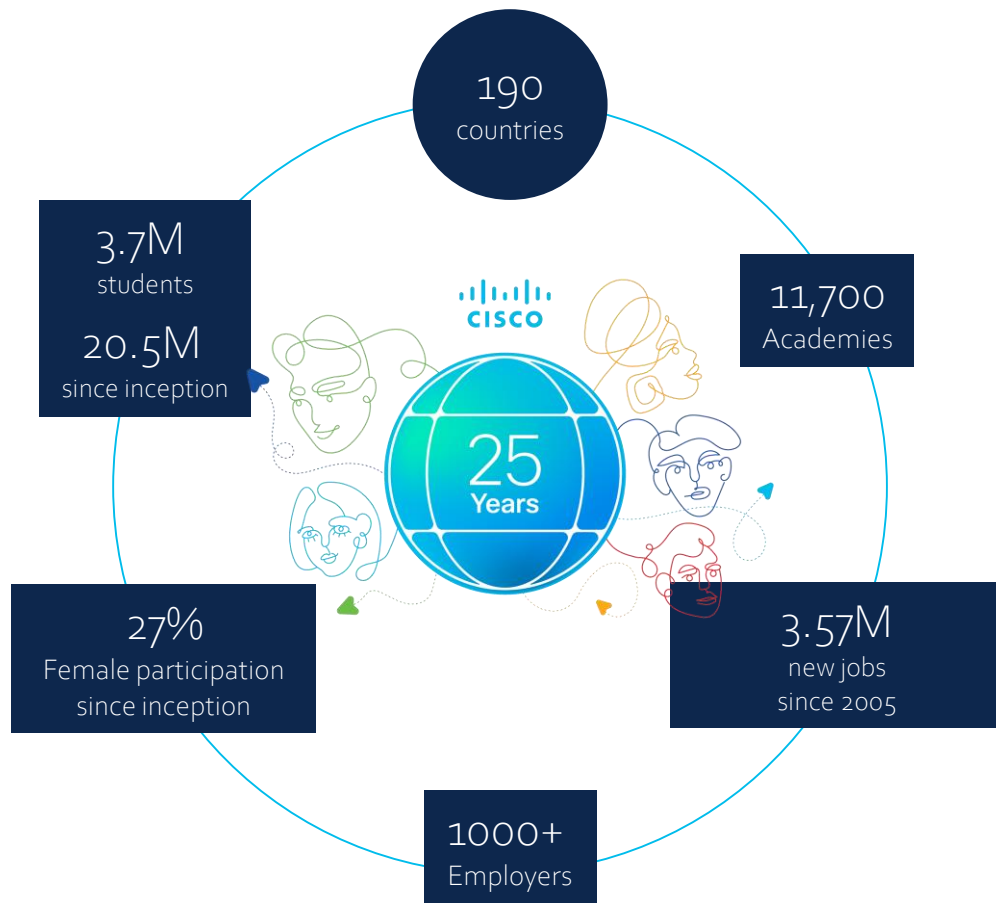
To power an **inclusive future** for all

We transform the lives of learners, educators, and communities through the power of technology, education, and career opportunities to create an inclusive future for all.
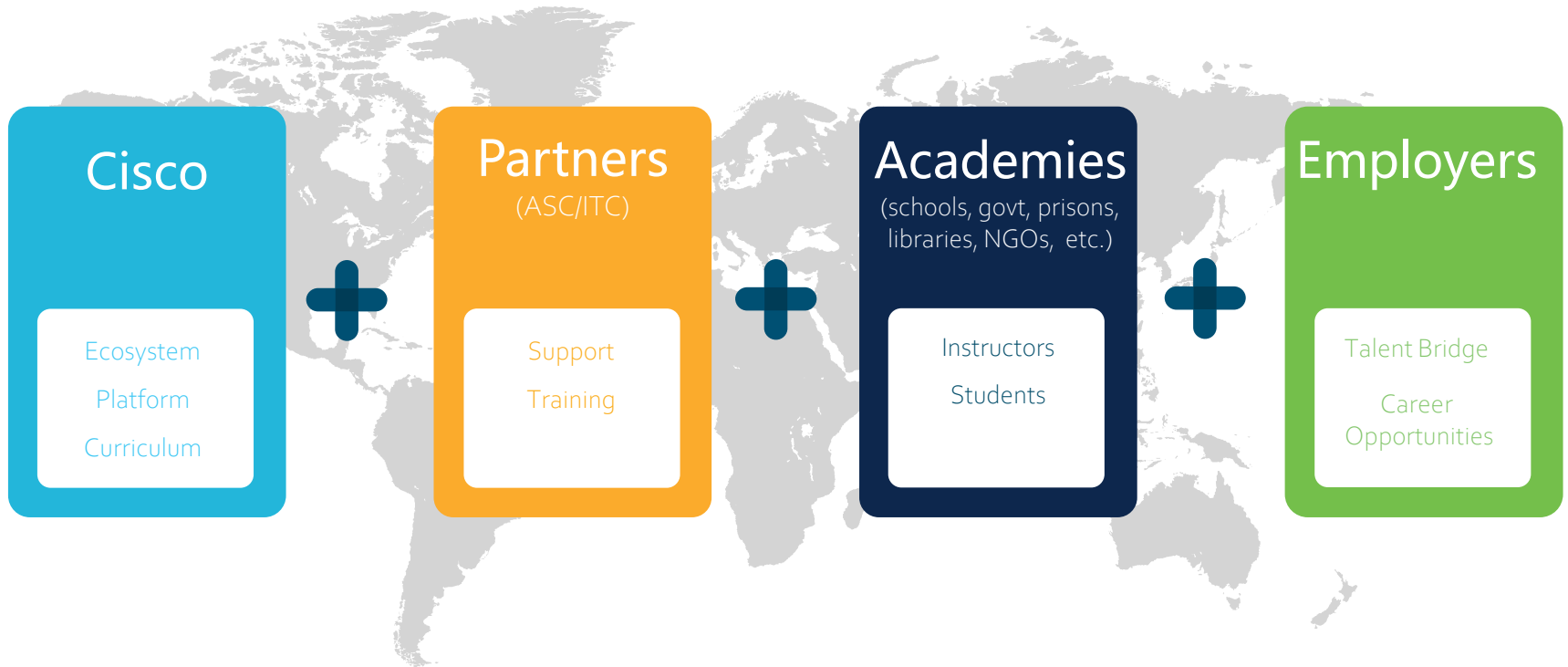
Our Impact

95%

of students completing certification-aligned courses attribute their participation in Networking Academy to obtaining a job and/or education opportunity

190
countries

11,700
Academies

3.7M
students
20.5M
since inception

3.57M
new jobs
since 2005

27%
Female participation
since inception

1000+
Employers

CISCO

25
Years

Cisco Networking Academy Partnership

Cisco

Ecosystem

Platform

Curriculum

+

Partners
(ASC/ITC)

Support

Training

+

Academies
(schools, govt, prisons, libraries, NGOs, etc.)

Instructors

Students

+

Employers

Talent Bridge

Career Opportunities

Networking

Networking

Networking Essentials

- Networking Basics
- Networking Devices and Initial Configuration
- Network Addressing and Basic Troubleshooting
- Network Support and Security

CCNA: Introduction to Networks

CCNA: Switching, Routing, and Wireless Essentials

CCNA: Enterprise Networking, Security, & Automation

CCNP Enterprise: Core Networking

CCNP Enterprise: Advanced Routing

Automation

DevNet Associate

Workshop: Model-Driven Programmability

Cybersecurity

Introduction to Cybersecurity

Cybersecurity Essentials

- Endpoint Security
- Network Defense
- Cyber Threat Management

CyberOps Associate

Network Security

Ethical Hacker

Data Science

Introduction to Data Science

Data Analytics Essentials

Operating Systems & IT

Computer Hardware Basics

Operating System Basics

IT Essentials

Linux Unhatched

Linux Essentials

Linux I

Linux II

Programming

PCAP: Programming Essentials in Python

- Python Essentials 1
- Python Essentials 2

JavaScript Essentials 1

CLA: Programming Essentials in C

CPA: Programming Essentials in C++

CLP: Advanced Programming in C

CPP: Advanced Programming in C++

Workshop: Experimenting with REST APIs

Digital Literacy

Get Connected

Introduction to IoT and Digital Transformation

Professional Skills

English for IT

English for IT 1
English for IT 2

Core Skills

Engaging Stakeholders for Success

Entrepreneurship

Discovering Entrepreneurship

Practice

Cisco Packet Tracer

Getting Started with Cisco Packet Tracer

Exploring Networking with Cisco Packet Tracer

Exploring IoT with Cisco Packet Tracer

Additional Tools

Virtual labs

Remote accessible labs

Gamification

Physical equipment

Assessments

Our Impact in Scotland

➢ **Key partnerships:** Open University Scotland, Glasgow Caledonian University, Fife College, Edinburgh Napier University, New College Lanarkshire, University of the Highlands & Islands (UHI).

➢ **Women do Cyber:** Partnership between Cisco, Glasgow Caledonian University, and Scotland Women in Technology. Secured funding from the Scottish government to take a cohort of unemployed and underemployed women in Scotland through the CyberOps Associate.

➢ **Police Scotland:** The Network Academy for UK Law Enforcement was established in 2020 by Sergeant Ashley Beck. The Academy is used to is used to upskill the IT workforce and boost cyber resiliency in Police in Police Scotland, and additionally to train young adults through the through the Police Scotland Youth Volunteers (PSYV) programme.

CISCO

25 Years

Networking
Academy

Yearbook 1997 - 2022

Educating the learners
who connect the world

#CiscoNetAcad #SuccessStories

NetAcad & Universities in the UKI

➢ 60+ universities in the UK & Ireland are Cisco Academies

➢ Universities typically embed NetAcad courses into undergraduate and postgraduate degree programmes

➢ Key partners include the Open University (6k+ students pa), Birmingham City University, the University of Wales Trinity St David, UCEN Manchester, and Glasgow Caledonian
  ➢ These are all Academy Support Centres and Instructor Training Centres
  ➢ Schools and colleges outreach and support

➢ We also engage in research with universities

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NetAcad Research with Universities

➢ One of the biggest challenges we face in the IT industry is a lack of diversity

➢ To address this challenge, we secured Cisco CDA funding to run a series of bespoke training bootcamps for female students in the UK aged 13-19
  ➢ Cybersecurity training
  ➢ Female cybersecurity experts to support

➢ We will be conducting and publishing research on how to boost gender parity in STEM subjects and careers
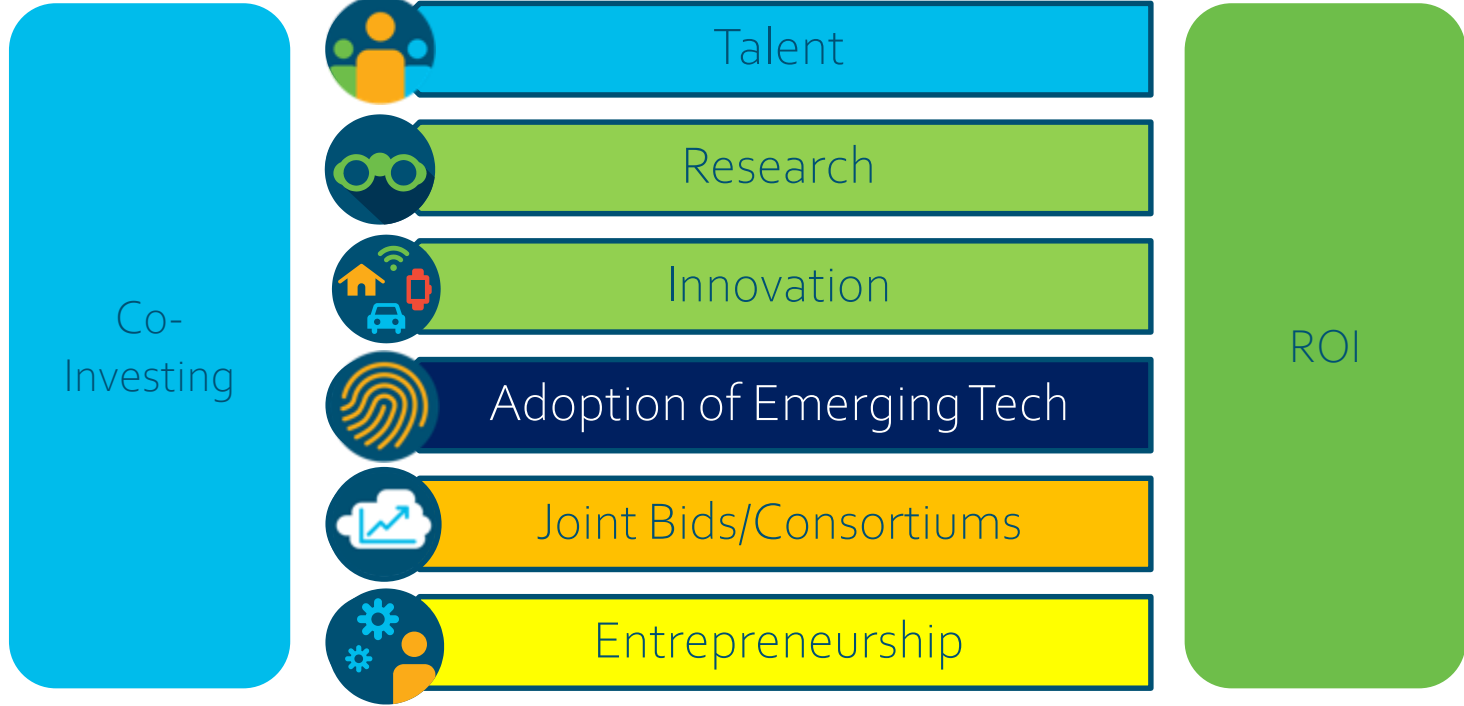 ➢ Also through DevNetSkills cohorts

1.3%
Female representation in the media has grown by from 15.7 in 2009 to 17% in 2021

Strategic Academic Partnership Structure

"Powering An Inclusive Future For All"

Co-Investing

Talent

Research

Innovation

Adoption of Emerging Tech

Joint Bids/Consortiums

Entrepreneurship

ROI

Partnership, Commitment, Trust, Governance & Metrics

Edinburgh University enlists Cisco to back hi-tech start-ups

BUSINESS
Cisco sees real benefits from university AI move

rator hub the university runs with Wayra

Edinburgh University enlists Cisco to back start-ups

10TH FEBRUARY 2019 | IN NEWS

The Scotsman Newspaper

wayra.

Key takeaways

- Industry-academia partnerships are fundamental to the success of the Cisco Networking Academy
  - The universities not only deliver content to their students but also support a range of organisations, educators, and learners.

- Research focused industry-academia partnerships have enabled us to promote technological advancement and innovation
  - Hire from a rich talent pool of students
  - Benefit from cutting-edge research and innovation
  - Real-world application of research

Cisco UKI Quantum Programme

MEDUSA	Ultracold Quantum Memories	QPID	Quantum WAN via Satellite	Distributing quantum computations	Quantum Cryptography
Developing short-range quantum switching	Developing new methods to sustain quantum memory through ultracold atom tech	Demonstration of QKD & Cisco SKIP in a UK quantum network	"Quantum Wide Area Networks via Multi-Antenna Satellite Nodes"	"Distributing big quantum computations over small quantum computers"	"Practical Quantum Cryptography from Hardware Assumptions"
Innovate UK-funded	Innovate UK-funded	Research Council + Cisco UKI funded	CRC-funded	CRC-funded	CRC-funded
Partners: NuQuantum, Oxford Uni, Cambridge Uni	Partners: ORCA Computing, ColdQuanta	Partners: Cambridge Uni, York Uni, Queens Uni Belfast, BT	Leeds University: Prof. Mohsen Razavi	Edinburgh University: Dr Chris Heunen	Edinburgh University: Prof. Elham Kashefi
Approved for funding Kick-off in Q1 FY23	Approved for funding Kick-off in Q1 FY23	Ongoing – signed Q1 FY22	Ongoing – approved Q2 FY22	Ongoing – approved Q4 FY21	Ongoing – approved Q3 FY22