



Trailblazer
Recycling &
Clean Energy



Fast-tracking Net Zero

A collaborative partnership between



Supported by



Australian Government
Department of Education



Moving circular & clean energy technologies out of the lab and into global manufacturing.



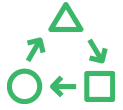
Reduce emissions towards a net zero economy



Improve collaboration between universities and industries to commercialise research

MISSION AND PURPOSE

A decade's worth of change in 4 years



Paradigm shift
in research
commercialisation



Innovative
intellectual property
arrangements

27

partners driving
technology uptake,
85% SMEs

5,200

Critical skills uplift,
supporting up to
5,200 jobs

\$15B

contribution to GDP
(over 20 years)



National and
regional footprint
from day one



Australia's clean
energy future
depends on Hunter

180Mt

Less greenhouse gas
emissions



From research

to global markets



How do we accelerate technology commercialisation?

\$117M

R&D Projects with
Industry Partners



\$67M

Supporting
initiatives

\$117M

R&D Projects
co-funded with Industry
Partners

TRaCE supports industry led R&D



Providing grants to foundational R&D
Projects



Appointing a dedicated Project Manager

Across 4 Themes



Solar Tech

- Ultra Low-Cost Solar
- Printed Solar



Green fuels

- Hydrogen from Waste
- Green ammonia
- Waste to sustainable fuels
- Carbon capture



Clean energy

- Nanostructured Materials
- Zero Emissions Aviation
- Hydrogen-diesel hybrid engines
- Stable, grid-based electricity
- Vanadium Flow Battery Scope
- Long lasting hydrogen storage



Circular economy

- Green Ceramics
- Transformation of Fly Ash
- Green Aluminum
- Novel hydrogen tank

But TRaCE does much more than that...



\$67M

Supporting
Initiatives

Bridging the skills gap



Micro Credentials

Reskilling & Upskilling



TAFE Pathways

Co-designed & delivered with Industry



Work Integrated Learning

Student Placements

Funding R&D Growth



R&D Vouchers

Matched R&D funding for SMEs



Early-Stage Seed Fund

Seed funding or follow-on investment



Venture Creators

“tech without a team”



Innovation Rewards

Incentives to Commercialise

Providing Top Experts & Equipment



Tech Transfer Rapid Response

R&D problem-solving



Industry PhDs

PhDs embedded in industry



Industry Secondments

Co-design solutions



Prototyping & Engagement Hubs

Prototyping & Manufacturing Facilities

Propelling Efficient Market Launches



Commercialisation Training

Early skills & commercialisation pathways for researchers



Climate 10x & I2N's Clean Tech

Startup Accelerators

BESPOKE SUPPORT

For various companies and researchers

Industry & SMEs & Scaleups



Foundational R&D Projects
Matched funding



Dedicated Project Manager
"R&D de-risking and scale"



Industry PhDs
PhDs embedded in industry



Industry Secondments
Co-design solutions



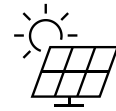
Work Integrated Learning
Industry placements & Projects



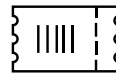
Micro Credentials
Reskilling & Upskilling



TAFE Pathways
Co-designed & delivered with Industry



Prototyping Hubs
Prototyping & Manufacturing Facilities

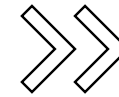


R&D Vouchers
\$10 - \$50k matched funding



Tech Transfer Rapid Response
R&D problem-solving

Startups



Foundry: Climate 10x
Startup Accelerator

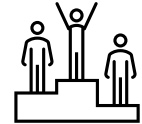


Early-Stage Seed Fund
Seed funding or follow-on



Venture Creators
"tech without a team"

Researchers



Innovation Rewards
Incentives to Commercialise



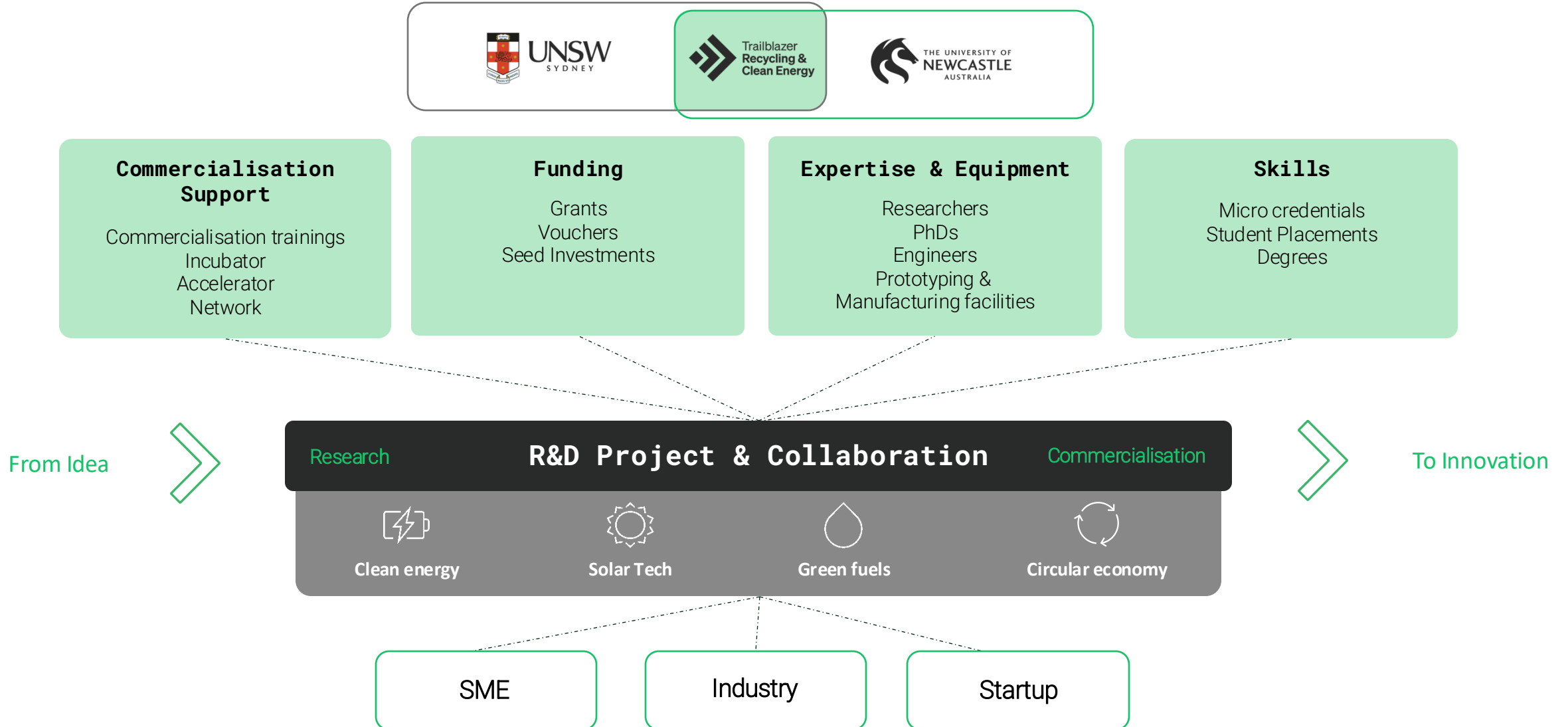
Commercialisation Training
Early skill building



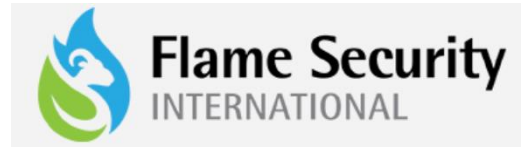
Workplace Frameworks
Policy & cultural change across universities

BESPOKE SUPPORT

Pathways tailored to each project



Ecosystem of Partners





Trailblazer Recycling & Clean Energy

A collaborative partnership between

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