



Towards transdisciplinarity

**Professor Heather Nel
Office for Institutional
Strategy**

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Vision 2030: In the service of society



CORE PURPOSE

IN THE
SERVICE
OF SOCIETY

CORE OUTCOME

CO-CREATE A
SUSTAINABLE,
SOCIALY JUST WORLD

ATTRIBUTES

Provide
transformative,
lifelong learning
experiences that
liberate human
potential

Pursue **impactful**
research,
innovation &
internationalisation
to promote
sustainable futures

Engage with
all publics in
equalising
partnerships that
advance agency &
promote the
co-creation of
African-purposed
solutions

BENEFITS

Cultivate socially
conscious, globally
connected citizens who
serve the public good

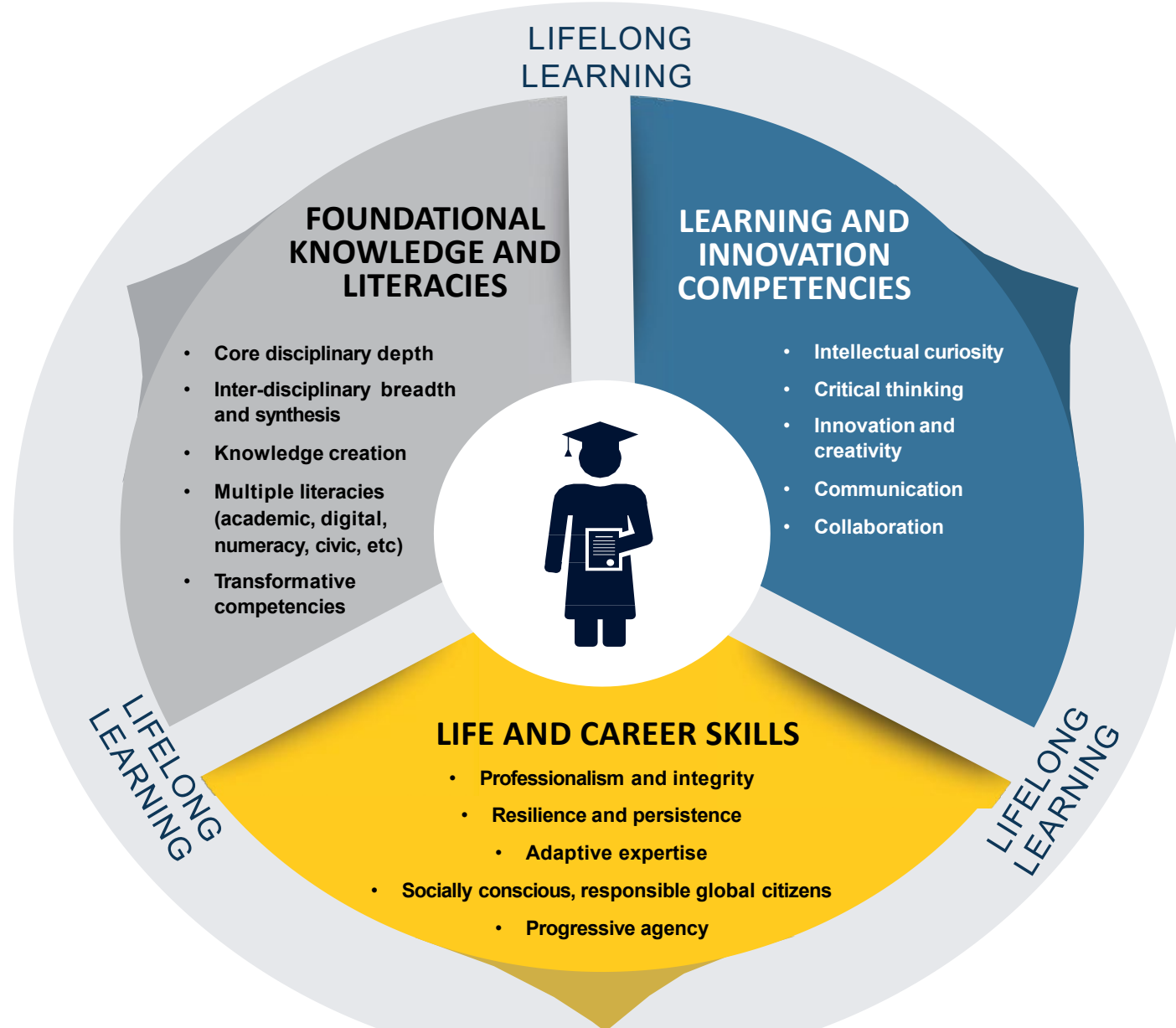
Contribute to
changing the
world through
discovery,
scholarship &
innovation

Foster a more **equal,**
inclusive & just society
through **action &**
stewardship

Vision 2030 strategic focus areas



Vision 2030 graduate attributes



Transversal strategic differentiators

Medical school

Ocean sciences

Revitalising the humanities

Repositioning engagement

Sustainability science

Digitalisation and the Virtual Academy

Food sovereignty and security

Student entrepreneurship and youth employability

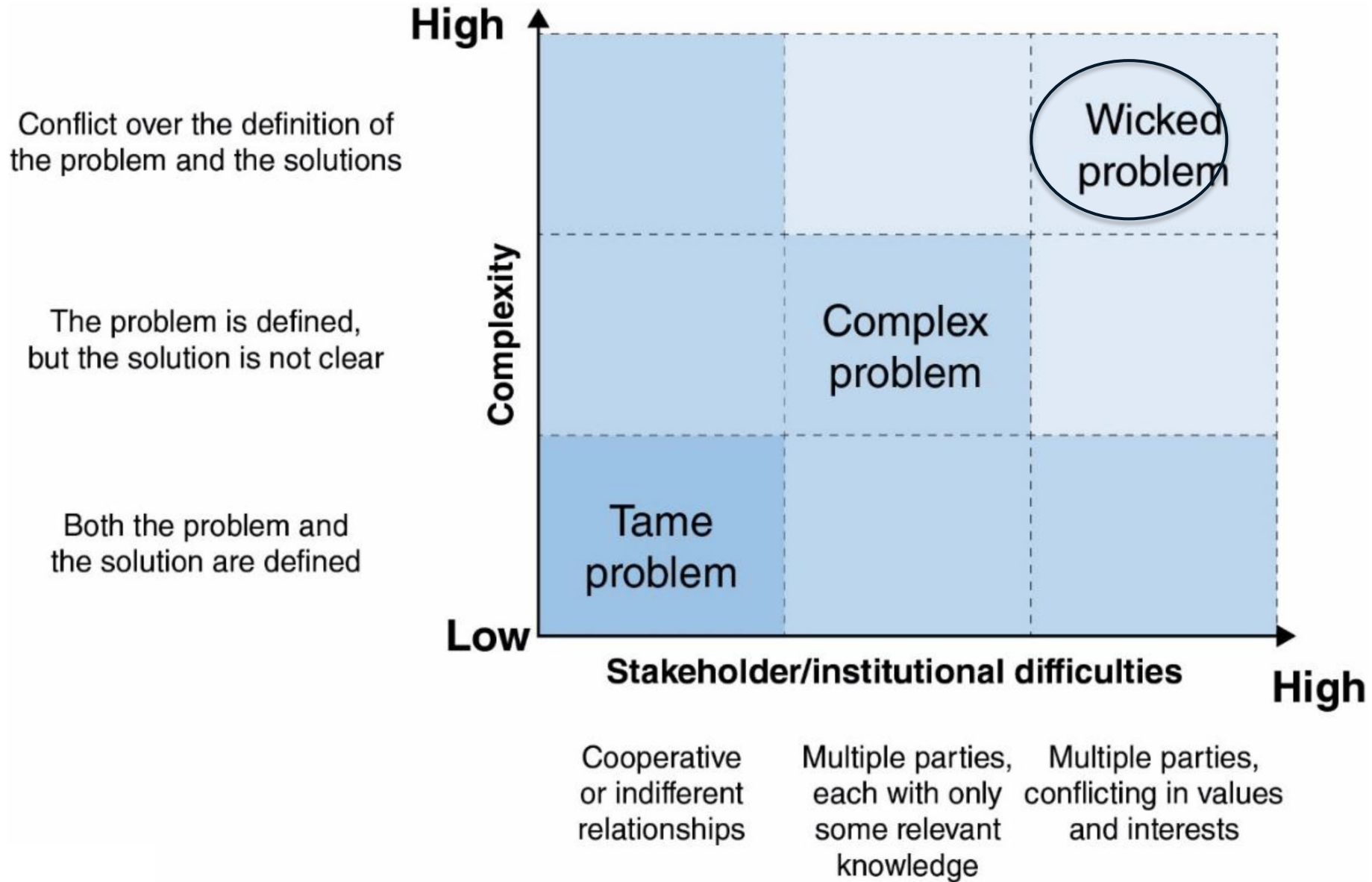
Transformative institutional culture



Institutional research themes



Types of problems



Wicked problems



adapted from: *Dilemmas in a General Theory of Planning*
Horst W.J. Rittel and Melvin M. Webber (*Policy Sciences*, June 1973)

THE WICKED 7

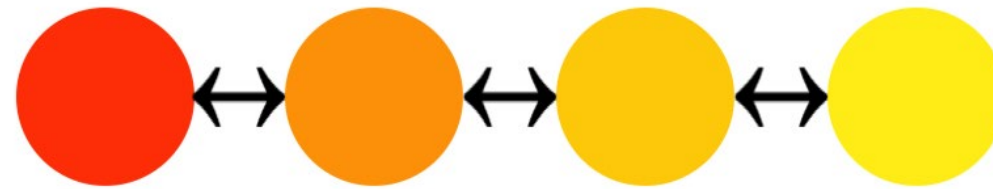


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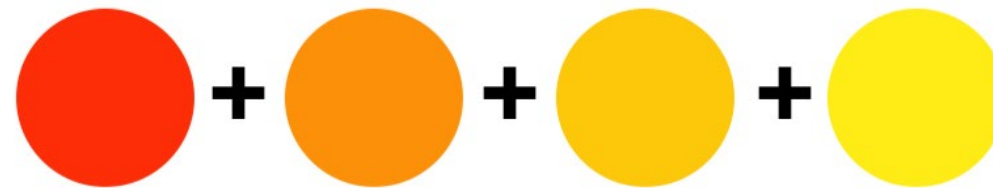
Transdisciplinary solutions to wicked problems



Trans-Disciplinary - Higher Level Synthesis



Inter-Disciplinary - Interactive

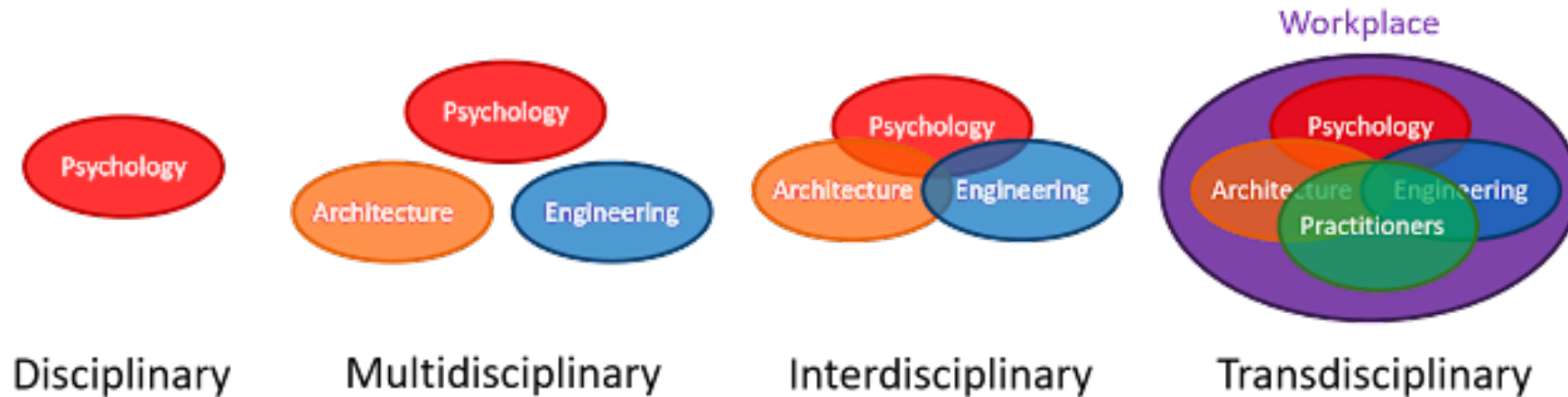


Multi-Disciplinary - Additive



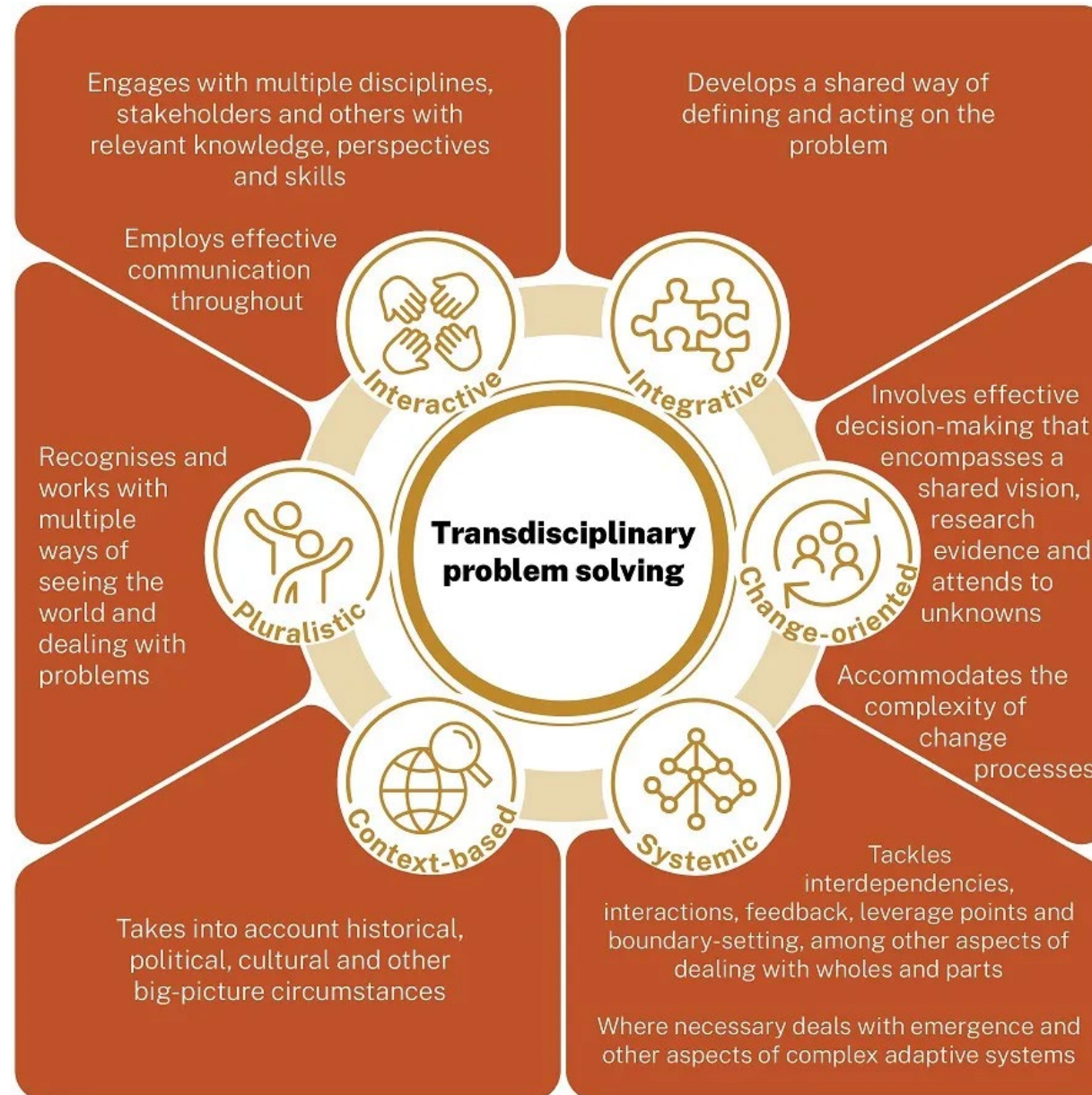
Disciplinary - Silos

Multi-, inter- and transdisciplinarity

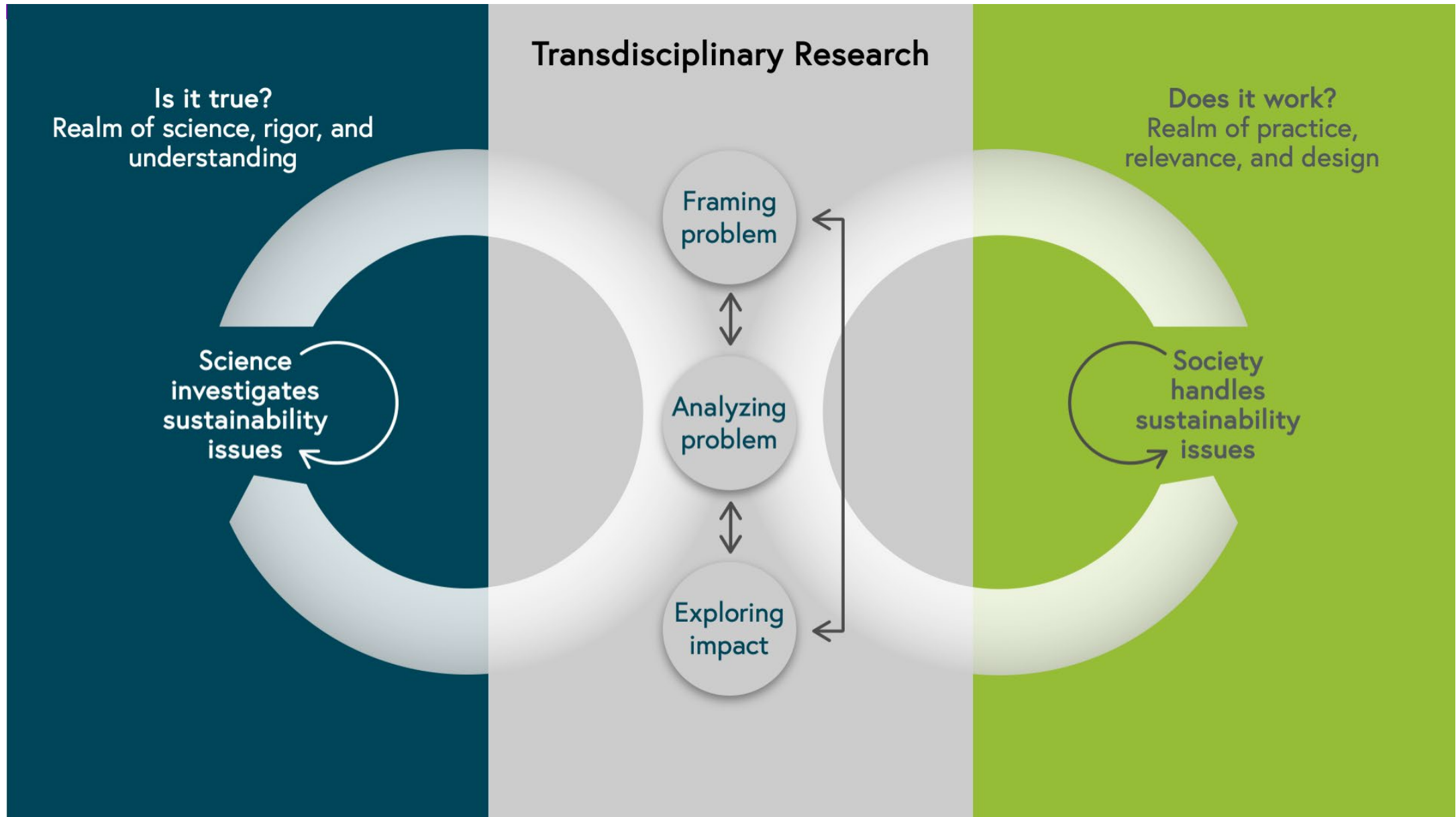


- TD is a collaboration between different disciplines with the sharing and application of tools, skills, approaches and philosophies.
- TD research/project is organised and coordinated under a real-world theme or problem that benefits from being tackled by multiple disciplines.
- TD research/project includes input from stakeholders outside of the academic disciplines, for example sponsors, practitioners, planners and policy makers.

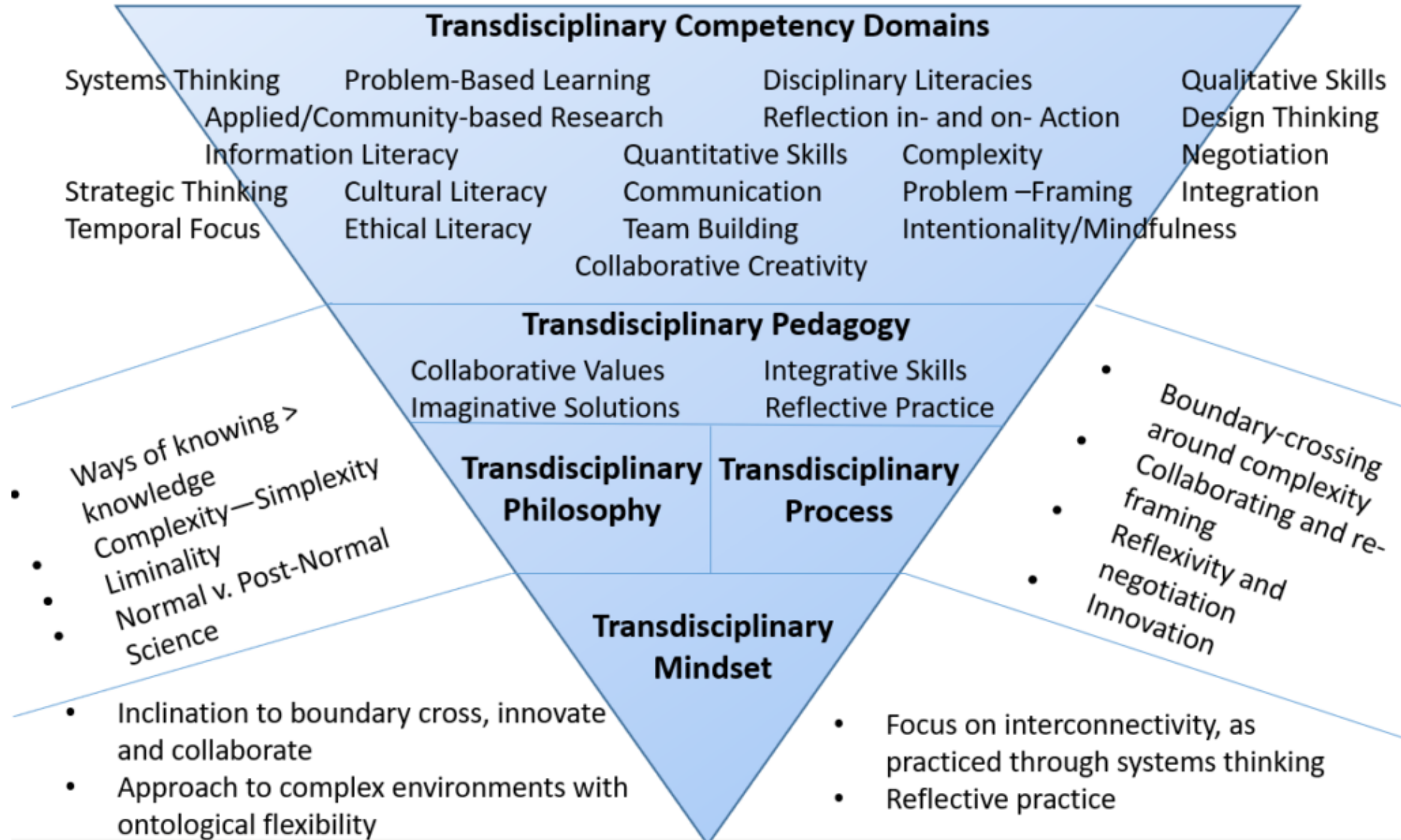
Transdisciplinary problem solving



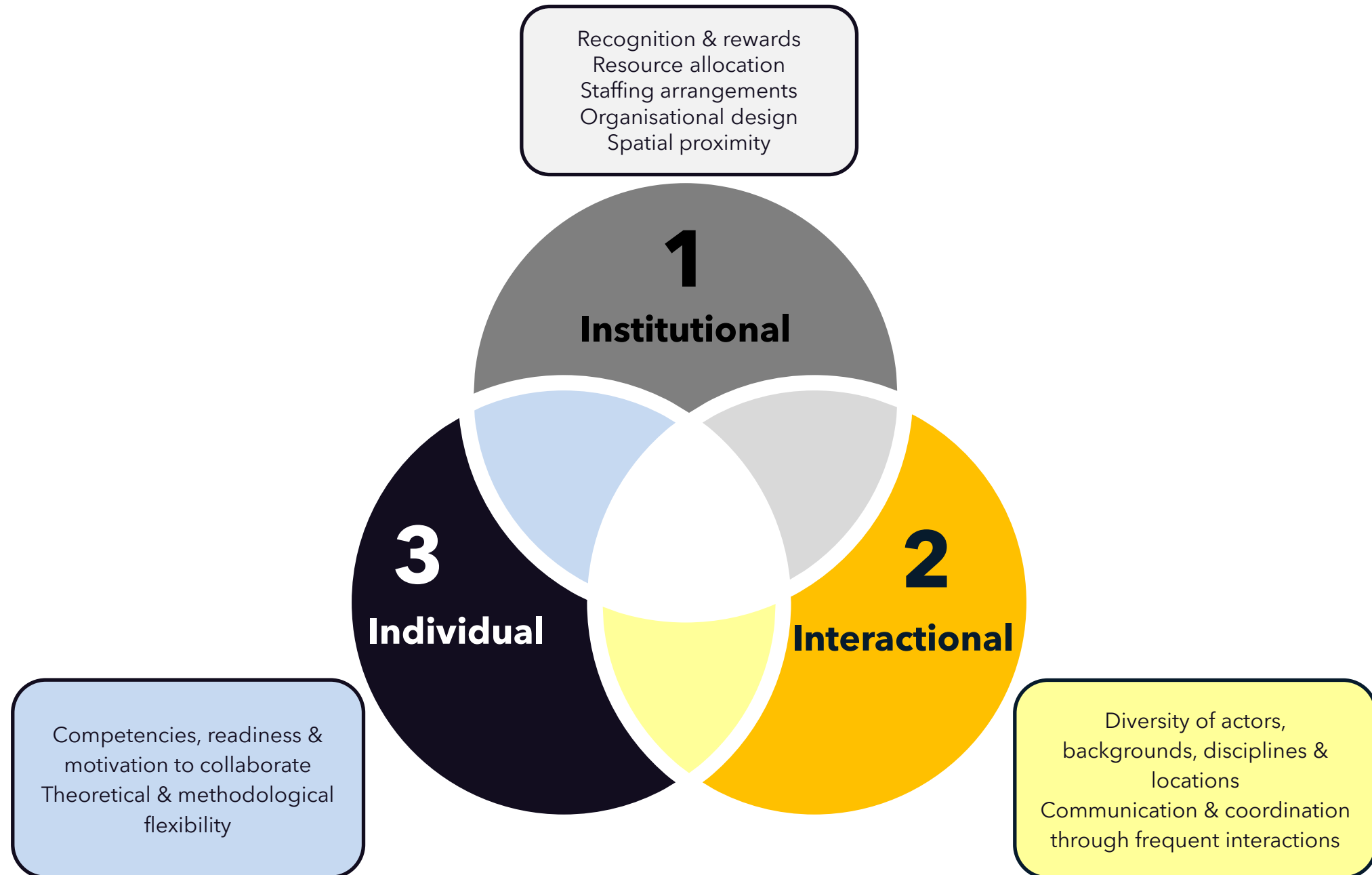
Transdisciplinarity as convergence



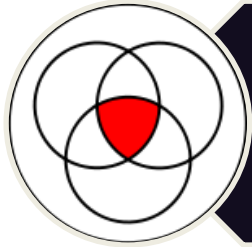
Transdisciplinary mindset



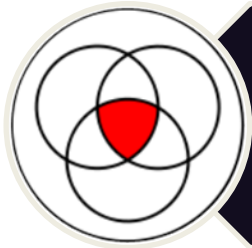
Critical success factors for transdisciplinarity



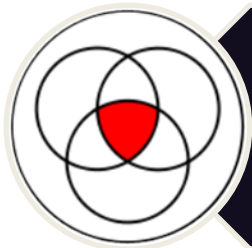
In conclusion: Enablers of transdisciplinarity



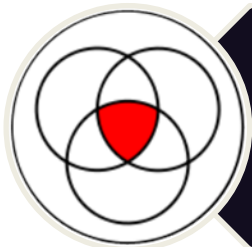
What innovative institutional and faculty governance, management and structural arrangements are required?



How will TD shape academic planning, curriculum development, and L&T approaches?



How will TD research & innovation contribute to addressing complex or wicked problems?



How should institutional systems & resourcing models be re-engineered to catalyse TD?

Change the World
mandela.ac.za