

Leading Multi-Institution OLT Projects

**ACDS T&L Conference
17 July 2015**

Professor Les Dawes
Queensland University of Technology

Who is involved in **StepUp**?

Led by QUT in partnership with ACU, Griffith, JCU & UQ, and DETE with support provided by the Australian Government Office for Learning & Teaching.

Professor Les Dawes, QUT Faculty of Science & Engineering, is Project Leader.

30 academics from 5 Universities across Education and Science/Maths/Engineering Faculties

Centralised project staff 8 people

\$3.2 Million and 3.5 years



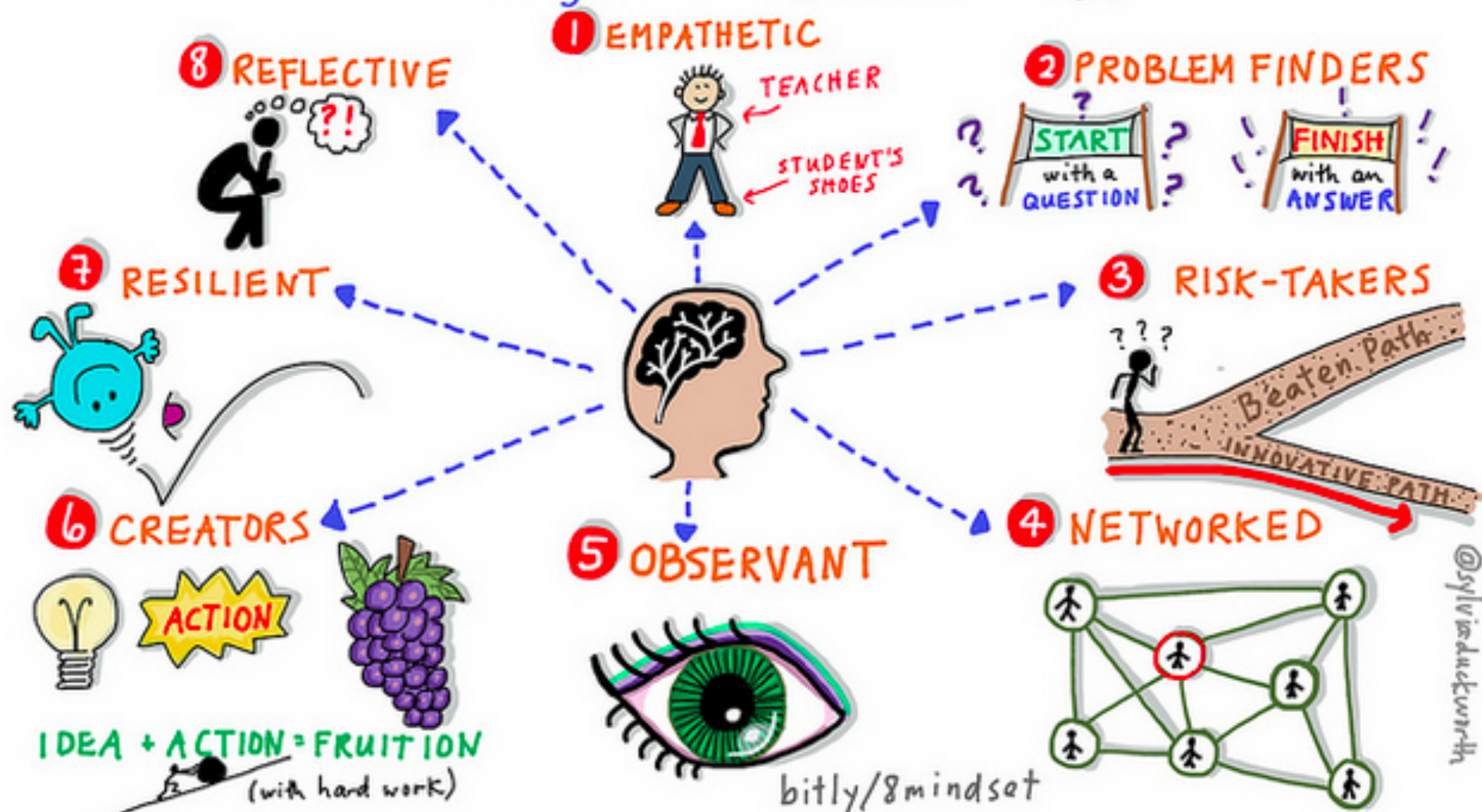
Educational innovation today invites, even requires, levels of preparation, **imagination, collaboration,** and **support** that are not always a good fit (to say the least) with the inherited routines of academic life.

The Scholarship on Teaching and Learning Reconsidered: Institutional Integration and Impact. Pat Hutchings, Mary Taylor Huber and Anthony Ciccone, 2011

8 Characteristics of the Innovator's Mindset

By George Couros @gcouros

The innovator's mindset: The belief that abilities, intelligence and talents are DEVELOPED, leading to the creation of BETTER ideas.💡



Original Model

Step Up! Program

delivers

Transformed mathematics and science teacher education in Queensland

by

Bringing stakeholders together in new ways to share the development and delivery of the Step Up! Program

working
with

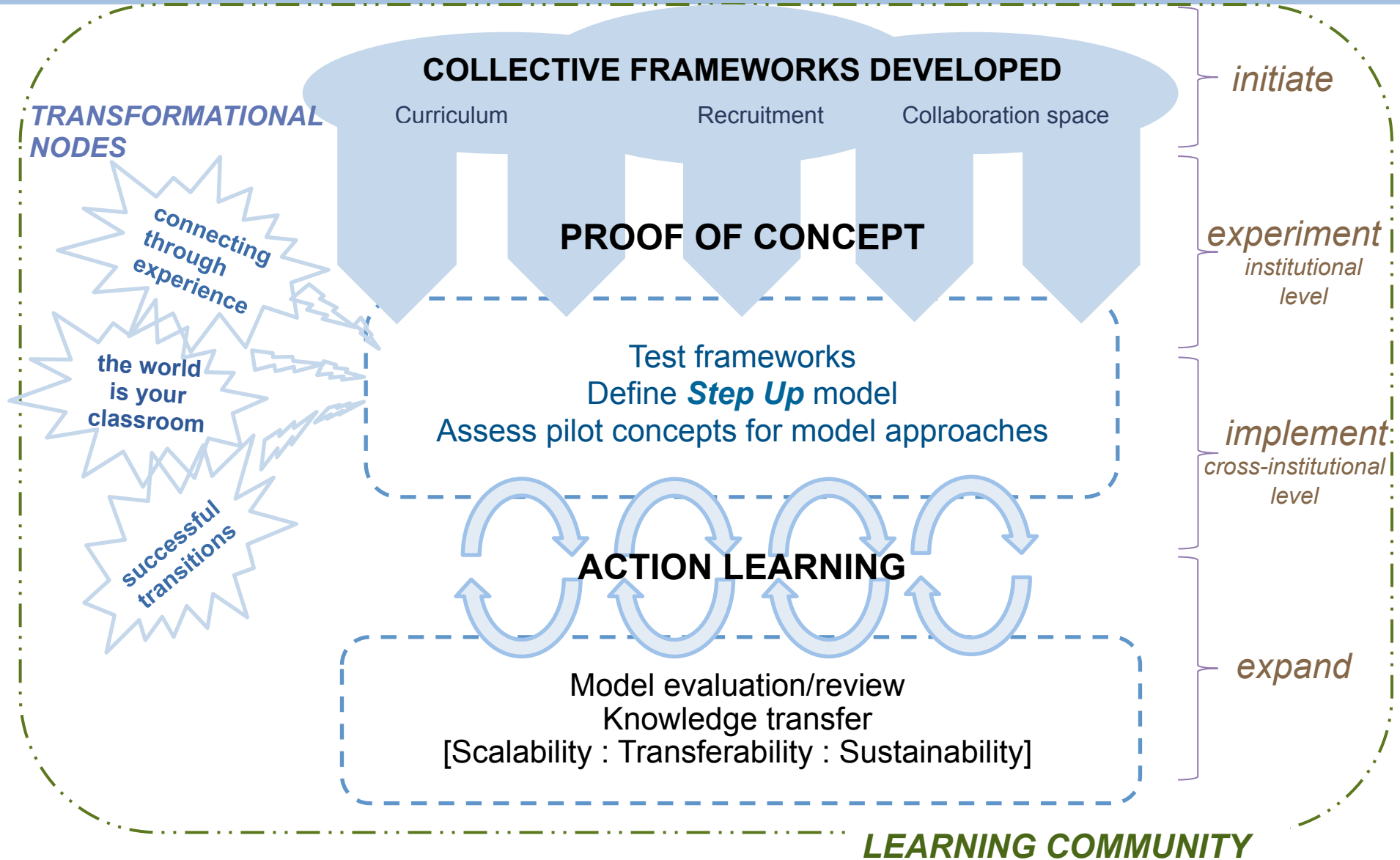
Precedents and examples we know work and which we can adapt to our context

through
phased
activities

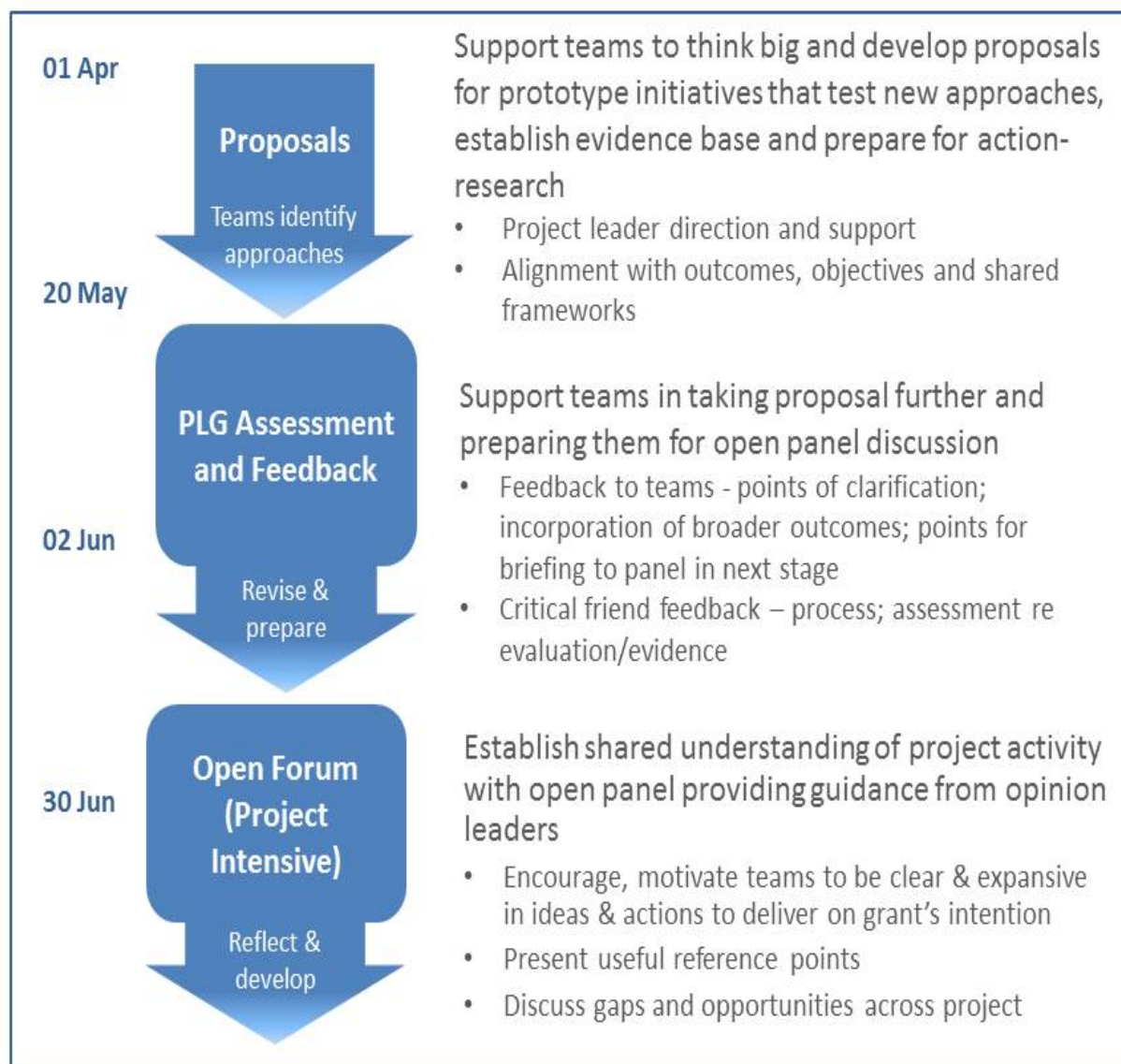
4 step
changes

To develop innovative courses and curriculum, transformative partnerships, renewed academic communities, smart recruitment strategies

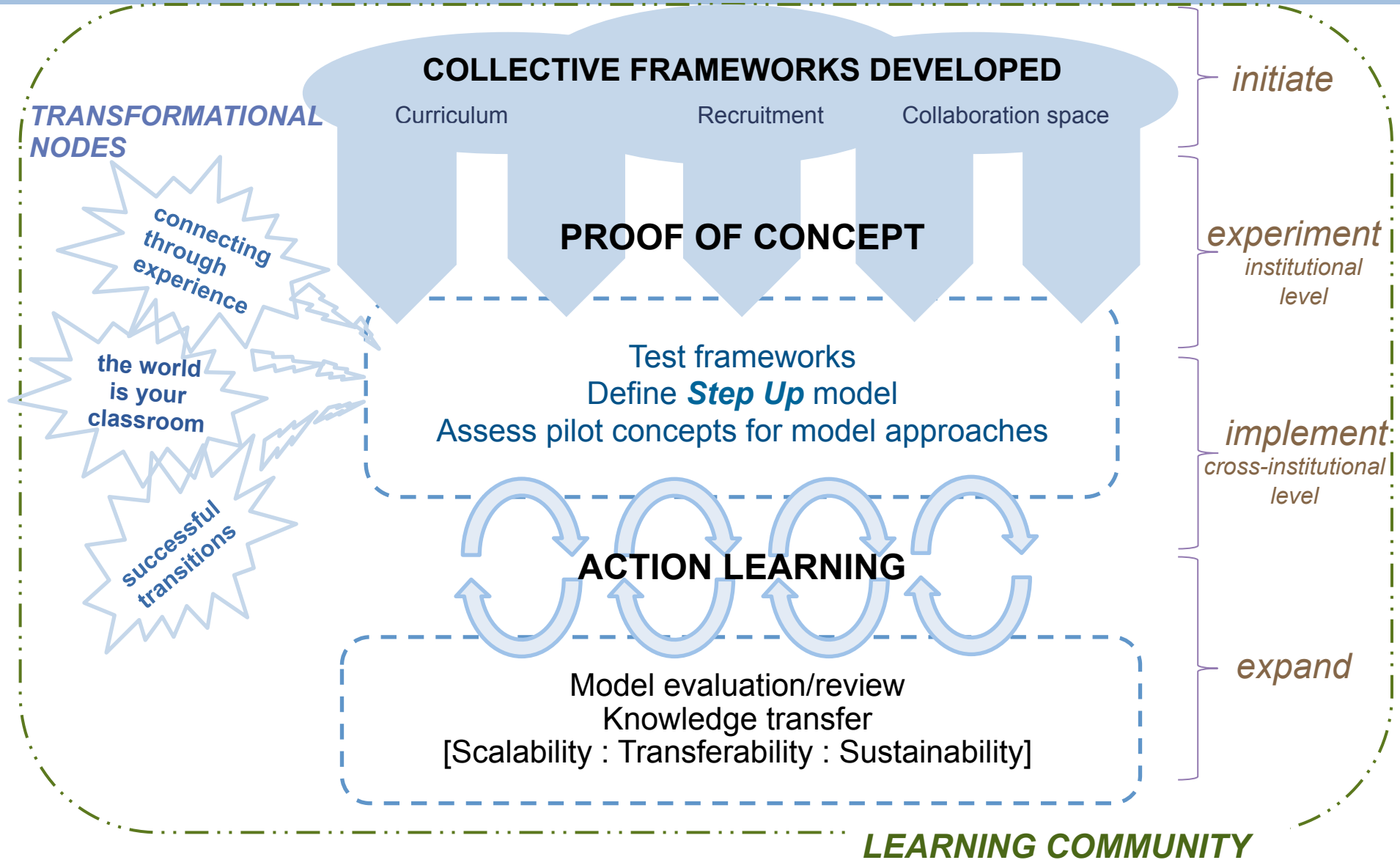
Project Plan



PoC Key Steps



Project Plan



Lessons Learned and Challenges

Its important to Identify:

- change agents
- gatekeepers
- observers

Relies on goodwill of academics

Challenges

Ownership and buy in to project, foundation of collaboration & trust;
Not always easy to find out whats happening in the apace and sharing
isnt widespread.

Capture of related projects;

Map of stakeholders (who. whv. what. when involvement is critical):



Successes and The Future

Engaging partners outside the project. Cascade partners

Ongoing true collaboration across science and education faculties

Aim to:

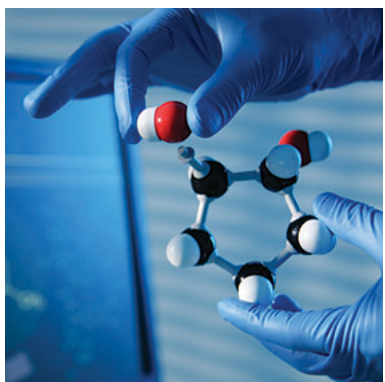
- Develop stronger and long lasting partnerships between schools and universities
- Leveraging of collaborative projects into ARC Linkage funding, foundation funding
- Innovations become business as usual in institutions





StepUp

The Step Up project sees Qld universities working to address the national shortage of secondary science & maths teachers.



Focus on **increasing quality and quantity** of science/maths pre-service teachers and deliver;

- **New models and partnerships** for pre-service teachers to work with teachers, scientists and schools
- **New teacher education pathways**
- **Support and resources** for online professional networks, mentoring and peer-based learning



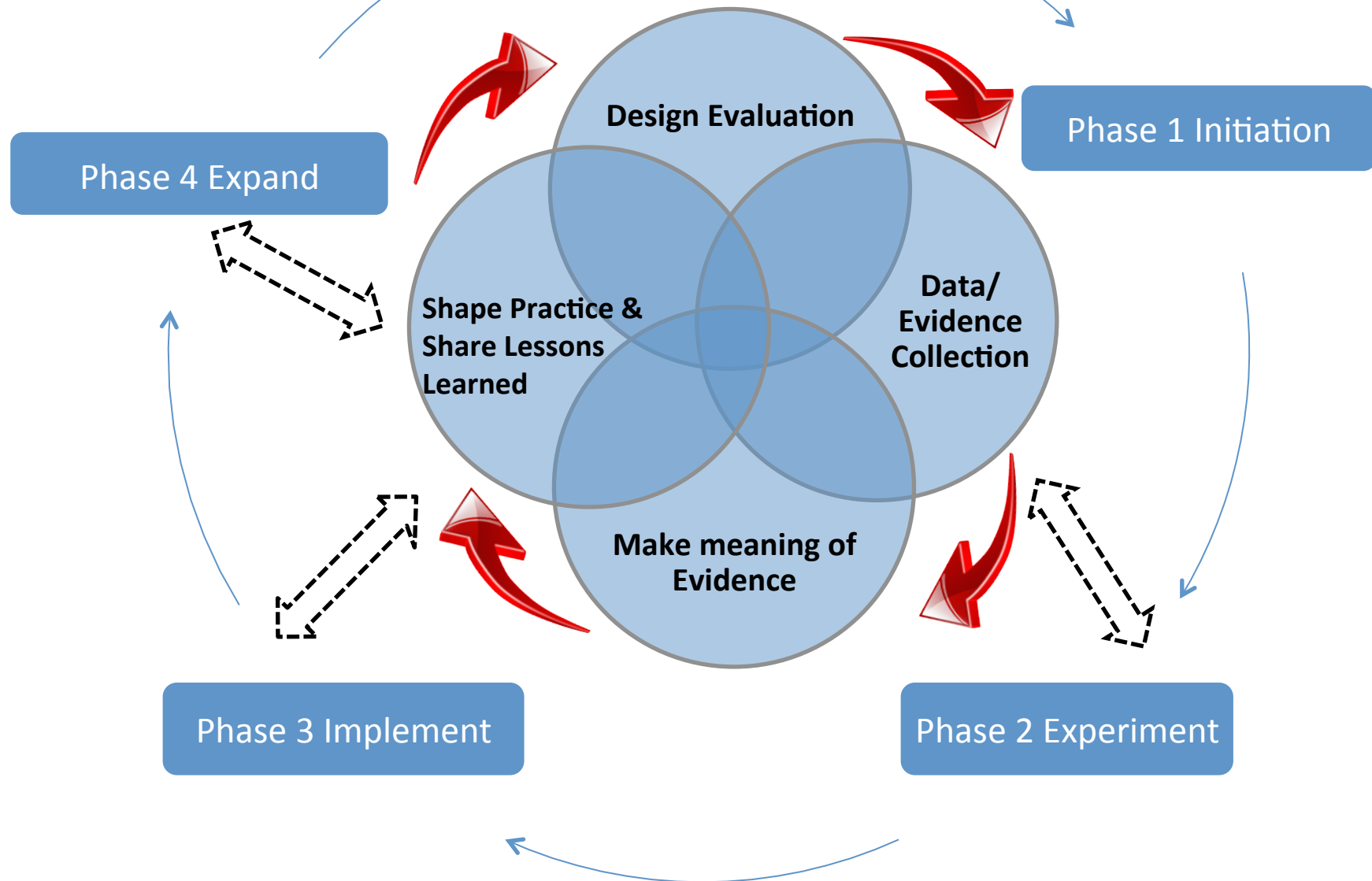
www.stepup.edu.au

*Support for this project has been provided by
the Australian Government
Office for Learning and Teaching*



Step Up Project

**Systems
Evaluation Plan**



Major outcomes:

Increased secondary MSTEd students

Collaborative course design and delivery

A learning community of emerging MS teachers

Strong maths/science knowledge and pedagogy amongst MSTEd students and graduates

Partnerships for sustained outcomes

