

# Enhancing Metacognitive Skills in Primary Learners: The Role of University-Third Sector Partnerships in Addressing Regional Educational Disadvantage and Strengthening Educational Interventions

Dr Emily Magrath  
Director of Programme Development &  
Impact **IntoUniversity**

Dr Chloe Cheetham  
Impact & Evaluation Manager **IntoUniversity**

Bilal Hazzouri  
Impact & Evaluation Manager ARU





**Place-based intervention** - IntoUniversity has been working at the heart of communities since 2002. Each centre offers a welcoming home-from-home for young people: a safe space to learn, explore and succeed and an innovative programme that supports young people aged seven and up including in after school programmes, mentoring and partnering with schools.



**No academic selection** to admit students. Anyone who meets our eligibility criteria based on rigorously researched metrics for educational disadvantage can take part.



**Early and sustained intervention** - Long-term work starting in Primary school is the best solution for communities with entrenched intergenerational disadvantage and low educational achievement.

# IntoUniversity Theory of Change

Improve attainment

Develop a range of skills (including social, emotional and employability)

Belief in future success

Knowledge about HE and career options

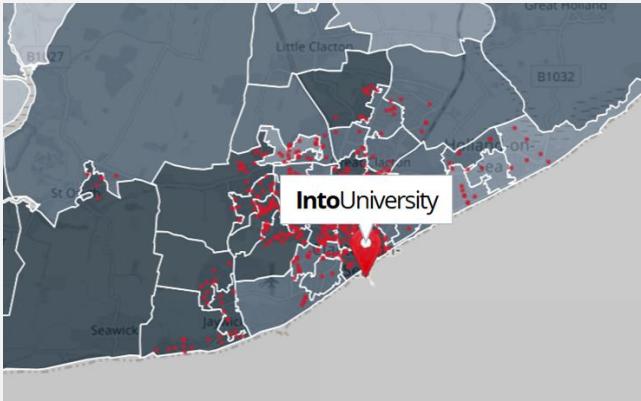
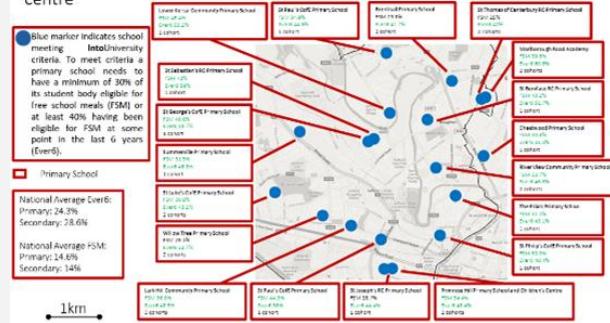
**Our young people are more likely to...**

1. Succeed in public examinations
1. Have a positive post-school outcome
1. Enter Higher Education

# Targeting areas of need: regional operation

Area evaluations | Salford

Salford, has 19 criteria primary schools representing 27 cohorts, this is three times the number of cohorts required to sustain an *IntoUniversity* centre



# Project Overview



## Office for Students

One of only 11  
projects

Aim to support  
collaborative and  
innovative projects

Addressing Risks 1,  
2,3 & 9 from Risk  
Register (EORR)



## Metacognition

Buzzword

EEF High Impact:  
Low Cost

Supporting young  
people to learn more  
effectively



## IntoUniversity

Design and Delivery  
of Programme

Operating in sites  
across network

Logistical oversight  
of project and data  
collection



## Anglia Ruskin University

Supporting with  
evaluation resource  
and knowledge

Connection to  
academic staff and  
research

Presentations and  
Publishing



## Collaboration

Project design

Evaluation and  
Reporting

Knowledge Sharing

Staged intervention:

Year 1 - 8 centres in two regions (Nottingham & Peterborough; South West)

Year 2 - Additional regions

# Project Aims

This project will address the effectiveness of the development of metacognitive skills in early intervention measures out-of-school, both to support primary **students' attainment** and to **build knowledge and understanding of Higher Education**.

The project will support students to **learn and practise cognitive skills** to support their learning. The will over time be supported to embed these practices and, we hope, **develop their metacognitive thinking** and become self-regulated learners.

# What are we doing?

“[Self regulated learners] are **proactive** in their efforts to learn because they are **aware of their strengths and limitations** and because they are guided by **personally set goals** and **task-related strategies**... These learners **monitor** their behaviour in terms of their goals and **self-reflect** on their increasing effectiveness. This enhances their **self-satisfaction** and **motivation to continue to improve** their methods of learning.”

*(Zimmerman, 2002)*

# Key questions

1. How should metacognition be assessed in primary age children?
2. How can metacognitive practices that are shown to be effective in a school environment be adapted to out-of-school interventions, and do they remain impactful?
3. Does teaching metacognition as part of a wider University Access programme affect other outcomes of interest?

# Project Design

## Phase 1: January – August 25

Review metacognition practice within Primary AS, design programme and evaluation framework, select sites and deliver training to staff

## Phase 3: Sept 26 – July 27

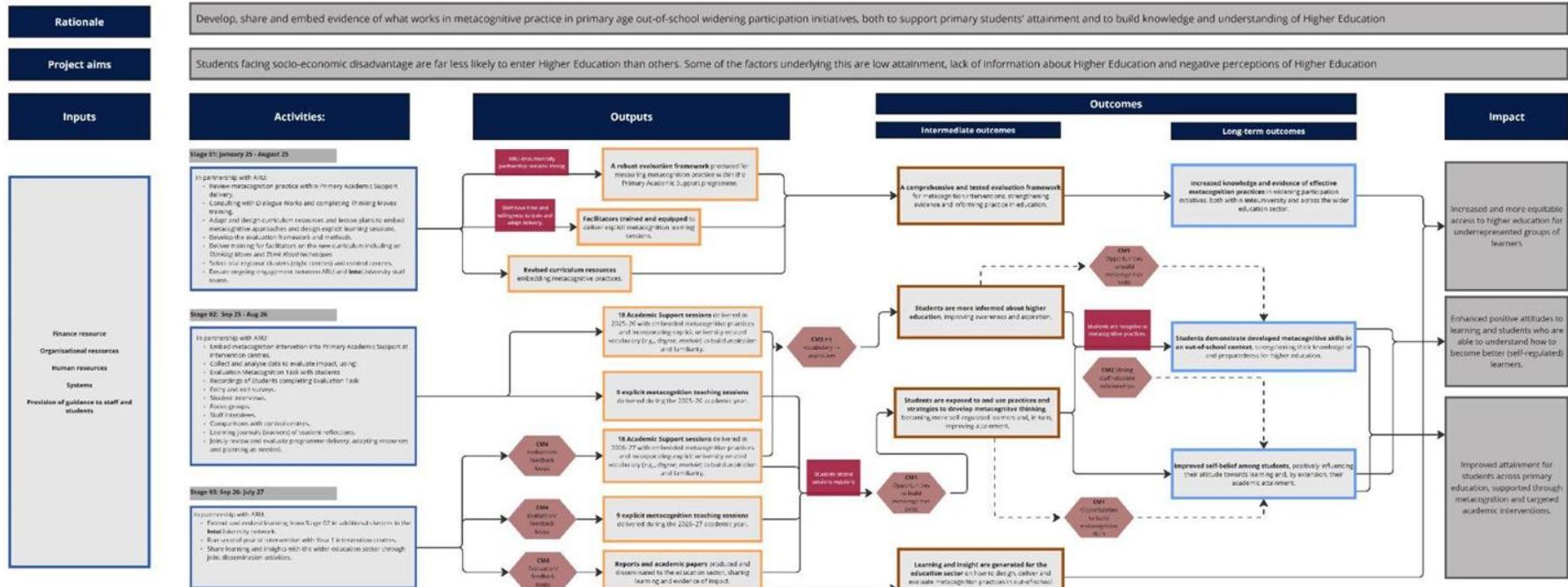
Embed learning and run second year of delivery in additional centres, share insights with sector and publish. Final Report due October 2027



## Phase 2: Sept 25 – August 26

Start delivery of programme in two clusters (8 centres) while matched control groups run usual programme, evaluate programme, collate learning from year 1

# The Big Thinking Project Theory of Change



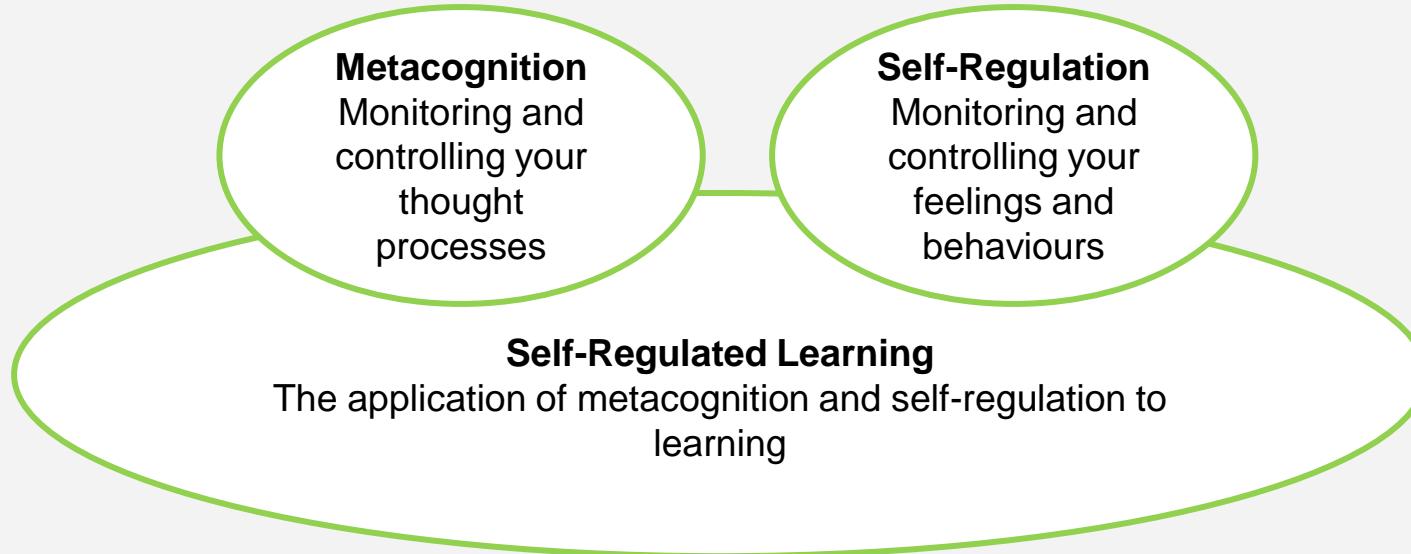
## Change Mechanisms (CMs, cross-cutting)

- CM1: Direct teaching about metacognition and opportunities to build metacognitive skills and strategies enhances learner confidence and development.
- CM2: Staff model and teach strategies in learning sessions, reinforcing learning through strong staff-student relationships.
- CM3: Student development of metacognitive strategies enhances positive attitudes to learning, and consistent use of HE-related vocabulary normalises university pathways and raises aspirations.
- CM4: Continuous evaluation and feedback loops refine delivery, ensure fidelity, and amplify programme impact.

## Foundational Assumptions

- Staff have time, capacity, and willingness to train and adapt delivery.
- Students attend sessions regularly and consent (with parents/guardians) to research participation.
- Partnership remains strong and collaborative.
- Students are receptive to metacognitive practices.
- No major external disruptions significantly interrupt delivery.
- Data can be collected ethically and reliably to evidence impact.
- Building metacognitive skills will support raised attainment.

# What are we doing?



# What are we doing?



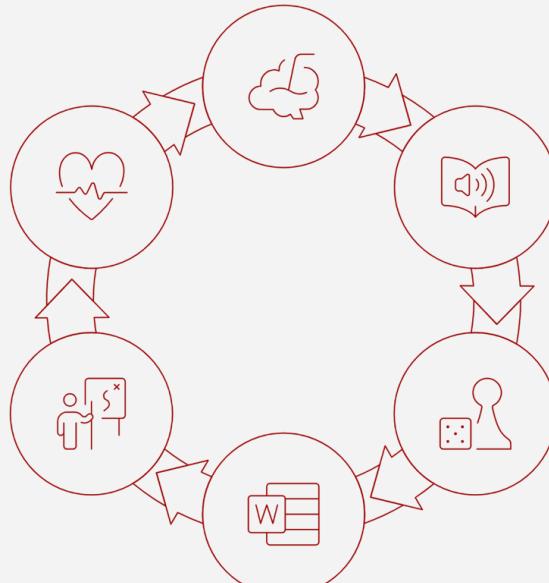
**Metacognition** is broken down into three areas:

- Being able to have **knowledge of what a task is**
- Being aware of **knowledge about yourself**, evaluate your cognitive ability and reflect on your performance
- Having **knowledge of learning strategies** and being able to appropriately choose the right one for a task

# Core Elements

**Emotional Regulation**  
Managing and understanding emotions

**Teaching Strategies**  
Modelling and using cognitive strategies and supporting students to practice metacognition



## Think Alouds

Verbalizing thoughts and thought processes

## Oracy

Developing effective communication skills

## Thinking Moves

Learning and using the 26 A-Z structured moves - a structured framework for thinking

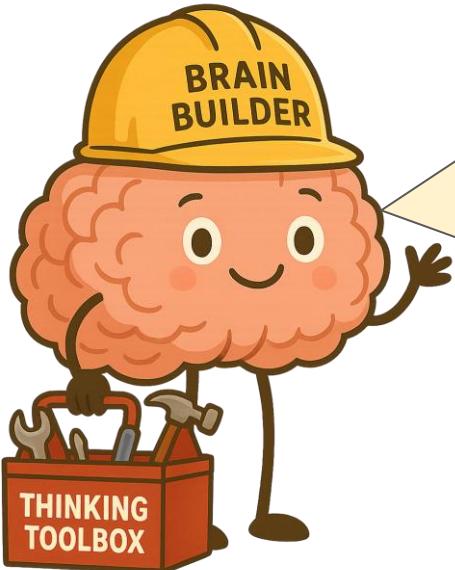
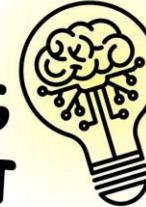
## Shared Vocabulary

Establishing a common language for thinking



# Welcome to...

## THE BIG THINKING PROJECT



This project is a really exciting opportunity to do some big thinking and turn in to a **brain builder** - like me!

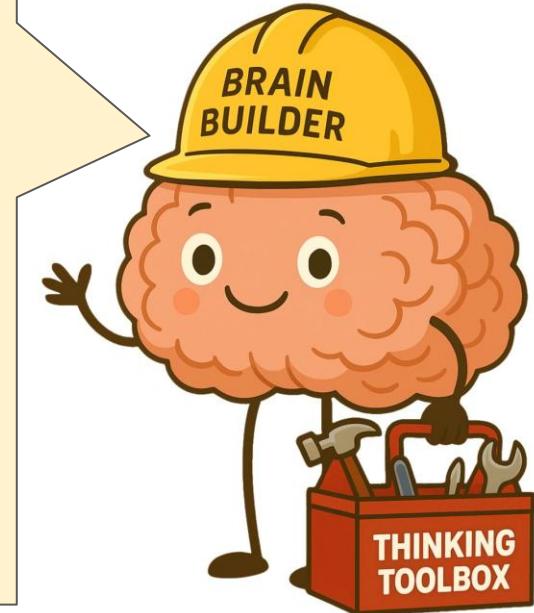
Brain builders are excellent learners, and just like normal builders are experts at choosing the right tool for the job.

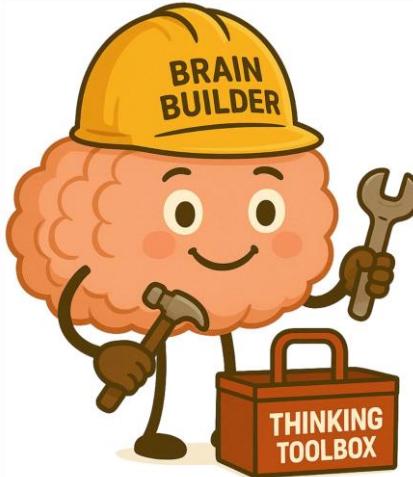


Don't worry we aren't building houses!

We are thinking about the different things our brain can do when presented with a challenge. When we become more aware of these, we become better learners.

Describe someone who is really good learning and thinking, **picture** them, what are they like?





In this session, we are focusing on **five thinking moves**, lets see how we can **use** them.



### Ahead



See what's ahead

### Back



Remember what's happened

### Listen/Look



Use your senses

### Picture



See eyes shut

### Zoom



Look more closely / step back from

# Delivery and Evaluation Year 1

## Explain Project and Collect Permissions

Staff explain project, run through guidance and collect permissions for AAH and students

## Computer Science Curriculum (Metacognition)

Autumn 2025

## Chemistry Curriculum (Metacognition)

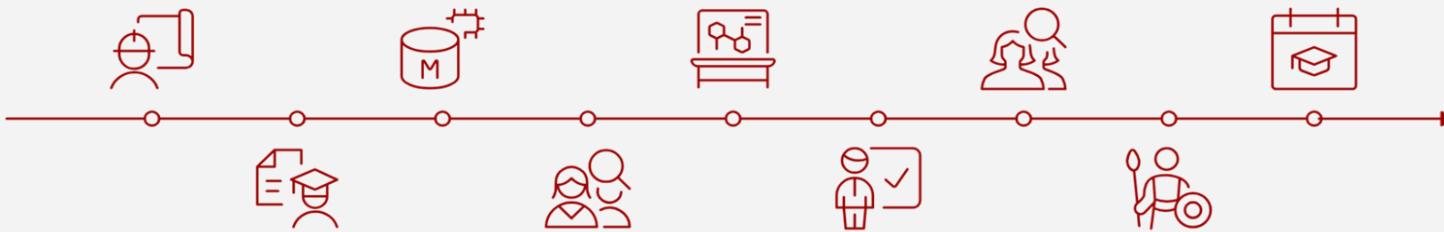
Spring 2025

## Visit from Metacognition Team

Spring Term 2026

## Administer End of Year 1 Evaluation

Post programme surveys; staff & student interviews; Student focus group; Student Evaluation Task



## Administer Pre-programme Survey

Students complete survey; submitted by staff (September 2025)

## Visit from Metacognition Team

Autumn Term 2025

## Middle Point Evaluation Task

Spring Term 2025

## Ancient Civilizations Curriculum (Metacognition)

Summer 2026



# Why University-Third Sector Partnerships Matter

## Bridging Theory and Practice

Universities bring research and evaluation expertise; third sector delivers outreach programmes to underrepresented learners.

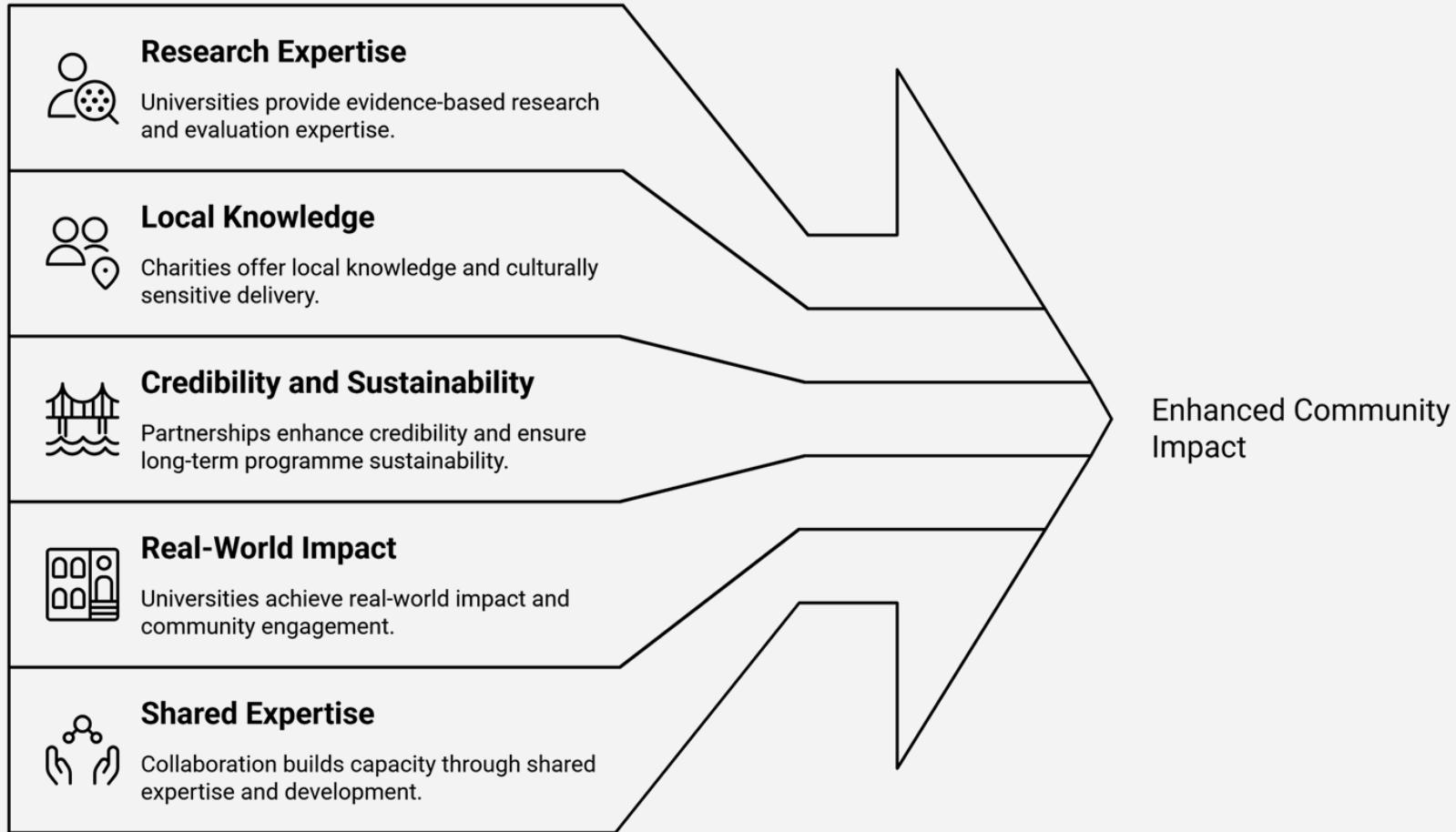
## Improving Access to Higher Education

Combined efforts address barriers faced by disadvantaged students and raise aspirations

## Enhancing Credibility and Impact

Rigorous evaluation supports evidence-based practice and attracts further investment

# Benefits of University–Third Sector Collaboration



# Benefits for Students, Communities, and Civic Responsibility



## Student Learning Outcomes

Enhancing metacognitive skills for improved academic performance.

## Community Interventions

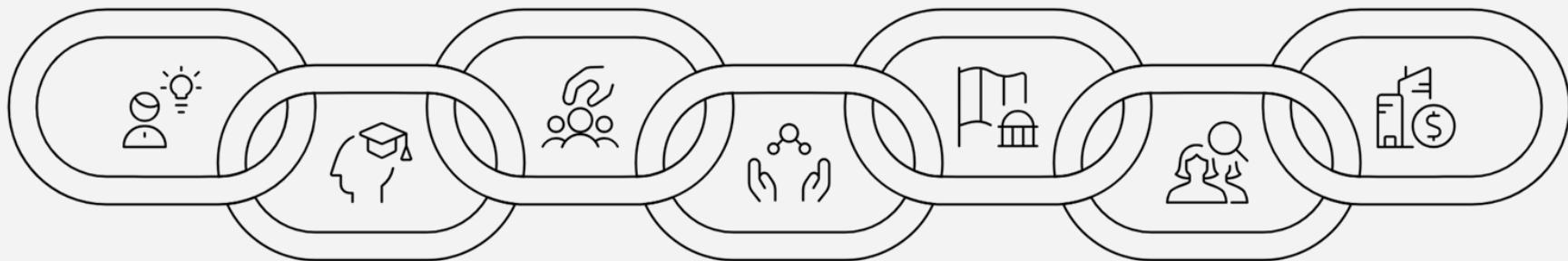
Addressing educational inequalities in local communities.

## Civic Responsibility

Demonstrating commitment to local community development.

## Long-term benefits

Contributing to long-term economic growth and resilience.



## Aspirations and Beliefs

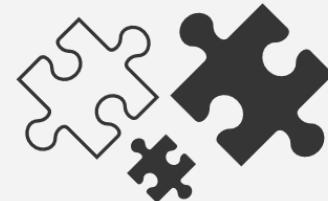
Inspiring higher education aspirations through early exposure.

## Social Capital

Building strong networks between families, schools, and universities.

## Lived experiences inform research and practice

Integrating community voices into research and practice.



# Reflections on Phase 1

- Making time to build relationships across partnership
- Translating setting to setting
- Theory to actions means decisions (and testing)
- Sometimes things don't happen in the right order
- Things can be slow at scale but communication is key
- Easy to forget what you know (that others don't)

# Questions?

## **Dr Emily Magrath**

Director of Programme Development & Impact IntoUniversity  
[emily.magrath@intouniversity.org](mailto:emily.magrath@intouniversity.org)

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[chloe.cheetham@intouniversity.org](mailto:chloe.cheetham@intouniversity.org)

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