

NERUPI Toolkit: Doing research and theorising widening participation

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- I. Group introductions
- 2. Exploration of key issues in HE participation and role of research
- 3. Overview and the NERUPI approach to integrating research and evaluation into WP interventions
- 4. Consideration of research interests group activity
- 5. Working with theory of change
- 6. NERUPI toolkit resources

Group introductions

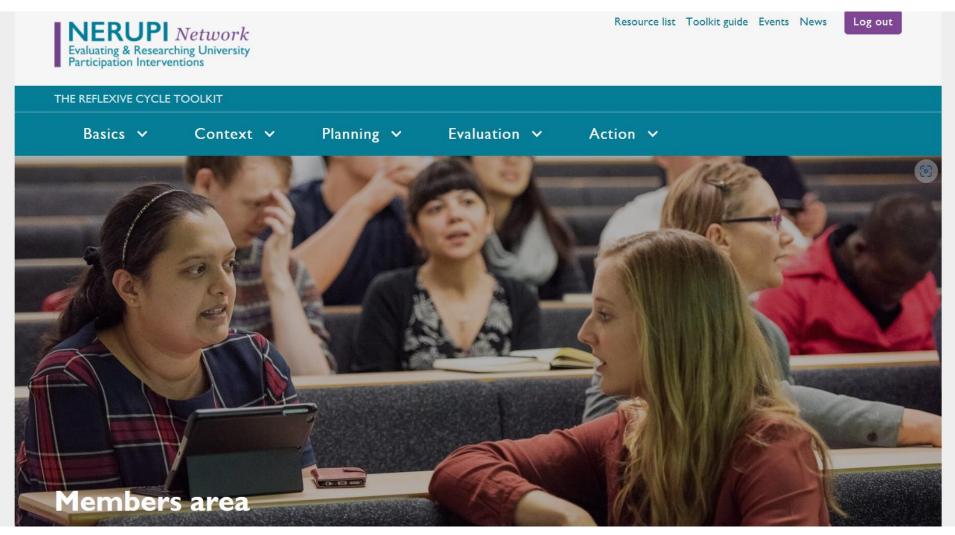
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Mainly work in access	Mainly work in student success	Mainly work in student progression	New to NERUPI
Love people's individual stories	Dream about spreadsheets	Detail orientated	Easily bored
Previous experience of research/ evaluation	Have 0 unread emails	Reads books & research articles about WP	Likes planning & delivering activities

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Question

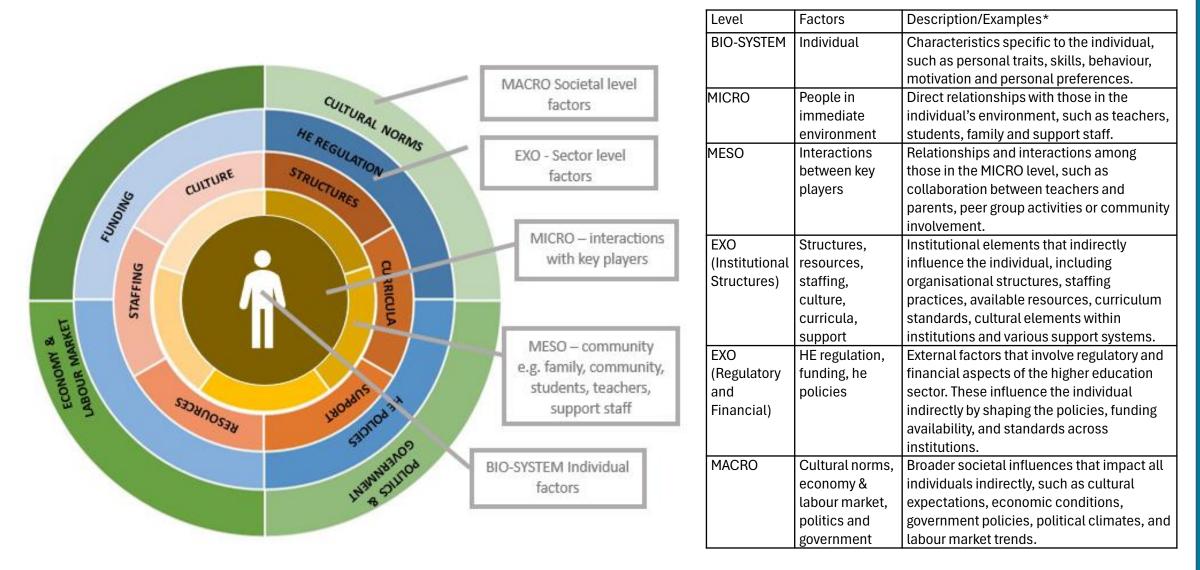
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Are differences in HE access, participation and success down to individuals or society?



Ecological systems theory

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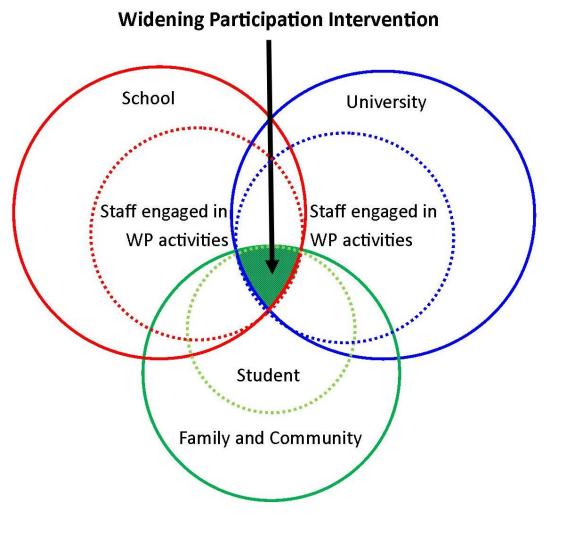


* Thanks to Mir Abdullah Miri, PhD Researcher, Department of Education, University of Bath for the description/examples

Areas for potential action



Our selves? Our relationships? Our work? Our communities? Our wider society?

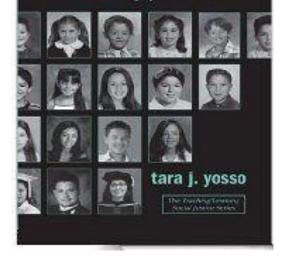


Key theoretical influences

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Participation Interventions

critical race counterstories along the chicana/chicano educational pipeline



Freire's notion of 'praxis'

Bourdieu's capitals, habitus and field

Sen and Walker's concepts of capability

Nancy Fraser social justice

Concepts of powerful knowledge

Yosso critical race & cultural wealths

Identities and future/possible selves

Critical pedagogies



Bourdieu's Theories



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Bourdieu – Capitals and Habitus and Field

- **Capitals:** economic, cultural or social which impact on opportunities to engage with education, careers etc.
- Habitus: cultural identity & dispositions related to family & community

Theoretical basis for a great deal of academic research into widening participation e.g Diane Reay

Cultural model of Widening Participation that locates interventions within a context or *field* of engagement

How can we change a situation?

The NERUPI Framework

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SOCIAL AND AC	ADEMIC CAPITAL	HABITUS	SKILLS CAPITAL	INTELLECTUAL & SUBJECT CAPITAL	ECONOMIC CAPITAL
PROGRESSIO		STUDENT IDENTITIES	SKILLS CURRICULUM	KNOWLEDGE CURRICULUM	ECONOMIC RESOURCES CURRICULUM
KNOW	CHOOSE	BECOME	PRACTISE	UNDERSTAND	SUSTAIN
Develop	Develop	Develop	Develop students'	Develop students'	Develop students'
students'	students'	students'	study skills &	understanding by	capacity for critically
knowledge &	capacity to	confidence and	capacity for	contextualising	informed financial
awareness of	navigate Higher	resilience to	academic	subject knowledge	decision-making and
the benefits of	Education sector	negotiate the	attainment		managing financial
higher	& make	challenges of			resources
education &	informed	university life			
graduate	choices				
employment					
			M		

Organisational Aims

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Culture, structures, policies & procedures	Staffing (incl. student staff members)	Curricula & Pedagogy	Mechanisms for student support	Economic capital
ENACT	ACTIVATE	EMPOWER	ENABLE	SUSTAIN
Embed a culture and	Embed staffing and	Support and extend	Identify and	Develop students'
ethos, backed up by	professional	approaches to	operationalise types	capacity for critically
policies, procedures,	development	curricula and	and mechanisms of	informed financial
and resource	arrangements,	pedagogy which	financial, academic and	decision-making and
mechanisms internally,	support and	ensure inclusivity, and	pastoral student	managing financial
which promote	rewards, which	promote innovation,	support to enable full	resources
inclusivity, supportive	build the capacity,	co-creation and	participation and	
values and behaviour,	awareness and skills	partnership	engagement of diverse	
and promote	of staff members to	arrangements	student groups and	
participation and	support and		individuals	
engagement for all	promote equity			

Evaluation approach









diagnose treatment



EVALUATION

Why would you research WP?

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- Because you're interested in it
- To inform policy
- To explore unexplained areas?
- To help devise strategy
- To support effective practice development
- To evaluate why initiatives worked
- To prove the investment was worth it
- To convince stakeholders/funders
- Other reasons....?

Role of research in supporting positive change...

Research versus evaluation

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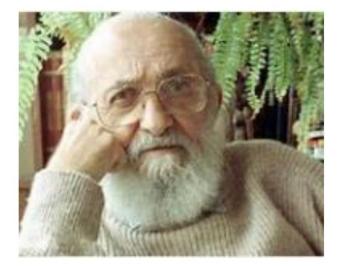
	Research	Evaluation(s)
Decision making	Used for macro decision making.	Used for micro decision making.
Focus	Concerned with how things work	Concerned with how well things work.
Outcome focus	May not prescribe or know its intended outcomes in advance.	Concerned with the achievement of intended outcomes.
Purposes	Contributes to knowledge regardless of practical application. Conducted to extend knowledge & generate theory	Designed to use the information / facts to judge worth. Conducted to assess performance and to inform policy making
Stance	Active and proactive.	Reactive.
Standards for judging quality	Judgements are made by peers; standards include: validity, reliability, accuracy, causality, generalizability, rigour.	Judgements made by stakeholders; standards include: utility, feasibility, stakeholder involvement, side effects, efficacy, fit for purpose.
Status	An end in itself.	A means to an end.
Use of theory	Creates the research findings.	Not necessary to base in theory May (or may not) use research findings.

Supporting praxis teams

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reflection and action directed at the structures to be transformed

praxis



Paulo Freire 1968

• Theory & academic research – quantitative and qualitative

• Practice

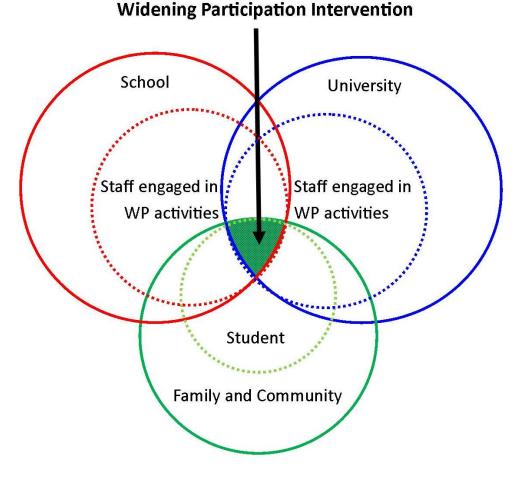


Praxis & action research

NERUPI evaluation **FRAMEWORK**

'praxis-related research' aims to change things in praxis: developing an inquiry culture in a field setting, developing a critical approach among participants, empowering participants to take action, building their sense of solidarity, drawing on and developing their life experiences, opening communicative space between them, and so on, all of which can contribute to changes in currently established modes of praxis.

Mattsson, M., and S. Kemmis. 2007. Praxis-related research: Serving two masters? Pedagogy, Culture & Society 15: 185–214.



Action Research & praxis

Action research

"a form of collective selfreflective inquiry undertaken by participants in social situations in order to improve the rationality and justice of their own social or educational practices, as well as their understanding of these practices and the situations in which these practices are carried out"

Kemmis and McTaggert 1990:5

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Critical Participatory Action Research

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Focu Perspective:	s: The individual	The social	Both: a reflexive-dialectical view of individual-social relations and connections
Objective	(1) Practice as individual behaviour: Quantitative, correlational-experimental methods. Psychometric and observational techniques, tests, interaction schedules.	 (2) Practice as social and systems behaviour: Quantitative, correlational- experimental methods. Observational techniques, sociometrics, systems analysis. 	
Subjective	(3) <i>Practice as intentional</i> <i>action:</i> Qualitative, interpretive methods. Clinical analysis, interview, questionnaire, diaries, journals, self-report, introspection	 (4) Practice as socially- structured, shaped by discourses and tradition: Qualitative, interpretive, historical methods. Discourse analysis, document analysis. 	
Both: a reflexive dialectical view of subjective-objecti relations and connections		constituted, a agency and s Critical meth	as socially- and historically- and as reconstituted by human social action by participants: hods. Critical participatory action t reflexively combines multiple

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Possible methods

- Quantitative approaches
 - Questionnaires
 - Semi-structured interviews
- Qualitative approaches
 - Interviews
 - Focus groups
 - Observations
 - Creative methods



- Triangulation of sources
- <u>Mixed methods approaches</u>



Using qualitative data examples: Interviews

- Researchers at the Lincoln Higher Education Research Institute (LHERI) used biographical life-grid interviews with students as part of research to understand the impact of University of Lincoln's Access Covenant (AC).
- This research project also included interviews with staff delivering AC services, a survey of university students including those who have accessed AC support.





Using qualitative data examples: Focus Groups

- The WP team at Oxford Brookes has included use of focus groups with students as part of the evaluation of their student ambassador training activities.
- As well as student ambassador training, the recruits also take part in employability training where ambassadors reflect on what skills they have gained form with working on programme.
- Running focus groups at the mid point in the programme, and various points in the student ambassadors student journey, is designed to help with the medium and long term evaluation (along with a pre and post survey, interviews and use of reflective diaries).
- Tracking is being put in place to assess success at university and graduate prospects.



Erasmus University: Using validated scales

Examining the effects of a pre-academic programme on components of educational, social and cultural capital

Study skills

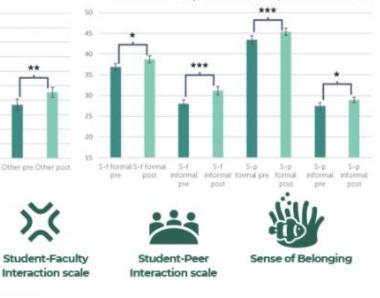
Participants in the Pre-Academic Programme (PAP) were found to have higher grades, higher retention rates and better communication with staff and peers compared to students who did not participate.¹ By implementing a pre and post participation survey using a series of validated scales, the team aimed to find out in what ways the PAP was making a difference to the capitals and students' sense of belonging.



Results



Student-faculty and student-peer interaction



Interpersonal Support **Evaluation List**

pre-

post

Interaction scale

Social Capital

Using qualitative data examples: Photo Elicitation

- A small scale study conducted with a sample of estranged students at the University of Lincoln (UoL) used photo elicitation to explore the experiences of estranged students and provide the institution with recommendations on how to better support its estranged students.
- The students were asked to take a series of images over the Easter holiday period which represented their student experience.
- The students' comments about, and reactions to, these images were audio-recorded with their consent.



Different approaches

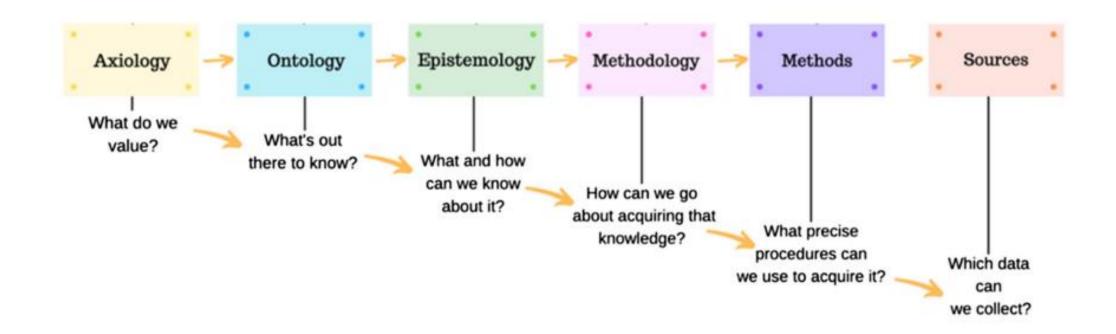


Evaluation – impact measuring	Requires outcome and impact measures such as attitudinal change, achievement improvement etc	Preferred by funders, can be problematic – how do you prove you caused the impact and how do you know which intervention has which result?
Qualitative evaluation	Identifying patterns, themes, discourse analysis, authentic perspectives	Why things work as well as what. Tends to be formative, can lead you back to where you started?
Case study approaches	Detailed and intensive analysis of case(s) e.g. event, school, cohort	Can be qualitative, quantitative or both, can be used as a comparative technique (e.g. different cohorts, different institutions), good for contextualising results
Action research	Cycles of planning, acting, observing and reflecting (e.g. run an event, collect data/observations, use to critically evaluate and inform what will happen next)	Involves those responsible for the practice throughout and includes those affected by the practice, involves dialogue and collaborative processes

Arriving at methods and sources

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Brown et al (2019) https://link.springer.com/article/10.1007/s40670-019-00898-9

- Robustness: Maximising the relative strengths of each approach (Qual/Quant) and offsetting weaknesses
- Completeness/Validity: multiple datasets Interviews plus observation plus survey
 - Questionnaire plus follow-up interviews
- Social structures (quantitative) and social processes (qualitative)
- Generate and test hypothesise in single project
- Contextualise the findings
- Unexpected results
- Triangulation diversity of views

Types of mixed methods research design

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Design	Description	Rationale
Exploratory sequential design	Firstly qualitative research is undertaken to investigate the phenomenon and afterwards quantitative data is gathered to explain the qualitative findings	Helps to generate hypotheses that can then be tested quantitatively; qualitative research in the first phase helps to inform quantitative research in the second phase (e.g. to develop survey questionnaires); the qualitative findings are prioritised and the quantitative research helps with conclusions about the generalizability of the qualitative findings
Explanatory sequential design	Quantitative data is gathered first and then qualitative research is undertaken to enhance and expand on the quantitative findings	Quantitative data is prioritised and qualitative data is used to shed further light on and contextualise the quantitative findings
Embedded design	Quantitative and qualitative data are gathered separately (could be concurrent parallel design, sequential or multi-phase) but then the findings are integrated from both strands	Offsets weaknesses of either method; allows for findings to be compared; can help to triangulate the evidence. The purpose is to support the findings based on both strands (i.e. each on its own is not sufficient to answer the research questions).
Transformative design	Uses any of the above designs but in an evolving context	This is essentially an iterative approach with the intention of being open to possible changes in perspective as the research progresses

NERUPI Methods Guides

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	Quantitative	Qualitative
Using symbols	v	v
Interviews	v	v
Focus groups		v
Feedback from stakeholders and interested parties	¥	¥
Creative expression		v
Reflective accounts	v	v
Evaluation wheel	¥	
Photo elicitation		v
Questionnaire surveys	¥	×
Structured observation	¥	v
Tracking	¥	
Voting	¥	
Use of Validated tools	¥	
Experimental and Quasi-experimental methods	¥	
Case studies	~	 Image: A start of the start of

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Group activity

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Options: based on either:

- A research interest within the group any suggestions?
- Or using the list of possible topic below

Task: draft out a research strategy:

- Decide on method(s) of collecting information?
- What research activities would you undertake?
- Do you think the evidence would be persuasive and have effect/impact in changing/improving organisational practices and structures?
- I. You have identified that there have never been any young people from local authority care on any of your courses. Should you do anything about it? If so, what?
- 2. You have found that some mature students do really well in HE and others do not. Why?
- 3. You have been running an extensive outreach programme with a group of target schools locally. Where people live seems to determine the likelihood of them going on to study in your higher education provision. Why the differences between localities?

Feedback

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Which method(s) of collecting information? Research activities you would undertake?

What did you discuss? Did any methods seem better/worse than others? How did you decide? Any observations?

Exploring Aims

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• Why do we do what we do?

Project/

programme

outcomes

Change in prospects into/through/ from higher education and self-fulfilment Social impact: Inclusion & Diversity Equal opportunities/ equity Social mobility/equality

Objectives

Aims

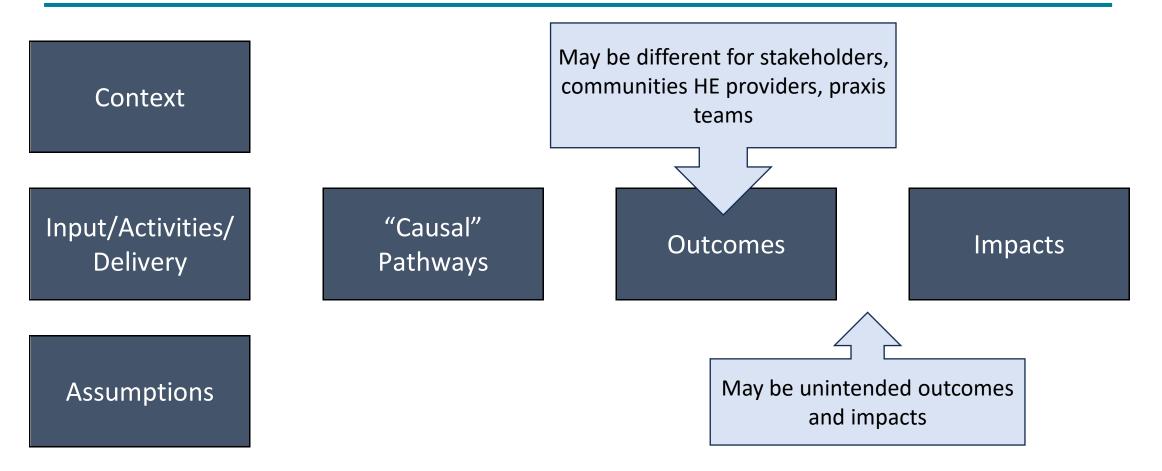
- Not a theory in the academic sense of the word a planning tool
- A hypothesis or prediction of how change will take place helping you to understand how an intervention can create a positive impact
- A process to uncover:
 - What improvements or changes you expect your action to make
 - How you expect the intervention will generate the benefits
 - The assumptions you are making in order to be successful

	Intervention	⇒ Short te benefit		Medium term outcomes	► Longer term impact	
THEORY OF CHANGE: EXAMPLE:	If we undertake these activities HE workshops for students in disadvantaged schools	these benefi will happen then Participants ard identify at leas study skill deve	and e able to t one new	these outcomes will result Students demonstrate use of study skills Grade predictions revised upwards Grade achievement exceeds initial predicte grades prior to intervention	leading to this impact Increase HE applicatio and acceptances	ns
MECHANISMS:		learning takes blace	Students their scho	apply new skills to ol work	The skills were sufficien boost results	t to
ASSUMPTIONS:	worksh	ngage with the op and the terials	•	takes place and skills ant to students' objectives	Attainment in exams wa key barrier to HE	s the

Aspects of ToC that support research & evaluation

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• There will be different research questions about different aspects and probably different methods to answer these questions.

Impact

• Research/evaluation needs to have impact

- Findings have potential to make a difference
- Funders demand evidence of impact (key indicator of worthwhile research)
- What is classed as impact?
 - Direct practical implications
 - e.g. for practitioners, policy makers, general community
 - Theoretical developments
 - Builds on what we know and takes us a step further.
 - Better understanding/more effective interventions (achieve practical, real-world change)
 - Societal impact
 - Changing how we think about issue, condition, social group
 - Answering questions that matter to people and to society





Discussion

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Returning to ToCs... What evidence would be most persuasive and have the strongest effect/impact: I. In changing/improving organisational practice and structures? 2. Informing WP policies and strategies?

Different types of questions

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WP activity: a transformative experience?

- Overcoming feelings of fear
- Experiencing university life and a sense of belonging
- Confidence in their capacity to achieve
- Challenging perceptions and overcoming doubts
- Living away from home and meeting new people
- Developing the capacity for academic and learning challenges
- Enhancing and contextualising subject knowledge
- Developing the capacity to make informed choices

Experiential impact

Transformational effect on learners

Pedagogy

Active learning and critical pedagogies

Content

Accessible yet challenging content

NERUPI Framework



Enable students to:	NERUPI Framework sees it as the HEIs role to facilitate students to: - support the transformative learning process - encourage reflexivity within the HEI
Engage Discover Identify Navigate	 Active learning terms are used to: encourage critical pedagogies develop student agency embed these within the success measures

NERUPI's Formula



Context	Micro-meso-macro level environment and the systems which surround the individual which are more or less favourable for success in HE			
+ Person +	Individual dispositions (habitus) and characteristics which influence capacity to engage effectively (e.g. knowledge, skills and experiences), how other people perceive/respond to them (which in turn impacts upon how they see themselves)			
Processes	The forms and qualities of the interactions which take place in HE (e.g. active learning).			
=				
HE Capabilities	KNOW, CHOOSE, UNDERSTAND, PRACTISE, BECOME, SUSTAIN			
=>	Person Competences e.g. academic proficiency, understandings, learning and			
Access, Success, Progression	Processes solution Context Other theoretical perspectives relating to the individual's development, such as			

Time

Progression



psychosocial theories (e.g. self-

Learning Aims

Туре	Notes	Collection	
Imagined Future	Beliefs about ability to succeed in a future situation (e.g. as a student)	Individual perspective from self- report measures)	
Self-belief	Beliefs about ability to influence one's future (locus of control, mindset)	Individual perspective from self- report measures)	
Engagement (e.g. with school)	i.e. motivation towards school work and relevant actions	Could be self-reported or include observation measures and reports from those close to the students	
Application	Situating and adapting new information to better understand your world	Measures of achievement of tasks which demonstrate how learning was applied	
Expertise	i.e. becoming knowledgeable about a topic or proficient in a skill	Objective tests or performance in study-related tasks	
Social Networks	Social capital/networks and linkages	Finding out from participants or those around them	

NERUPI Question Bank

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THE REFLEXIVE CYCLE TOOLKIT					
Basics 🗸	Context 🗸	Planning 🗸	Evaluation \checkmark		
NERUPI Framework question bank					

In developing the NERUPI Framework question bank, particular attention has been paid to the different aims and types of evaluating the short term outcomes of particular project activities. Short term measures, although partial and insufficient to demonstrate lasting benefit, are important to assess success in meeting the learning objectives for particular activities, and demonstrate a direction of travel which can be important in the context of trying to pinpoint the implications for the progress of participants towards future intermediate and long term outcomes. The Framework gives different suggestions relating to different evaluation aims, as follows:

Download (Excel): NERUPI Framework Question Bank

• What the Question bank does:

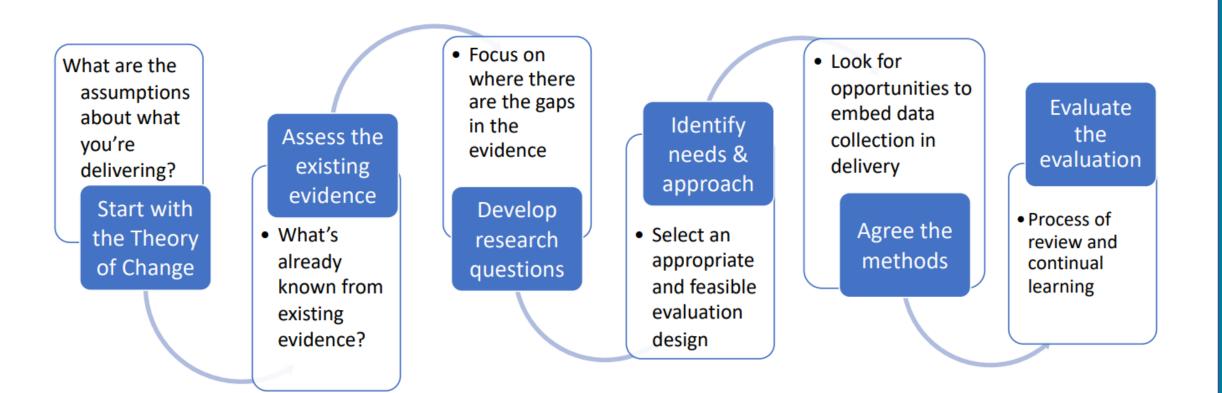
- gives different suggestions relating to different learning aims mapped to the NERUPI framework
- includes ideas for different types of evaluation questions
- offers a format for different questionnaire designs (e.g. rating scales)
- focusing on immediate/short term outcomes

• What the Question bank doesn't do:

 measure progress towards the medium-long term outcomes and impact of the activity

Model for embedding evaluation

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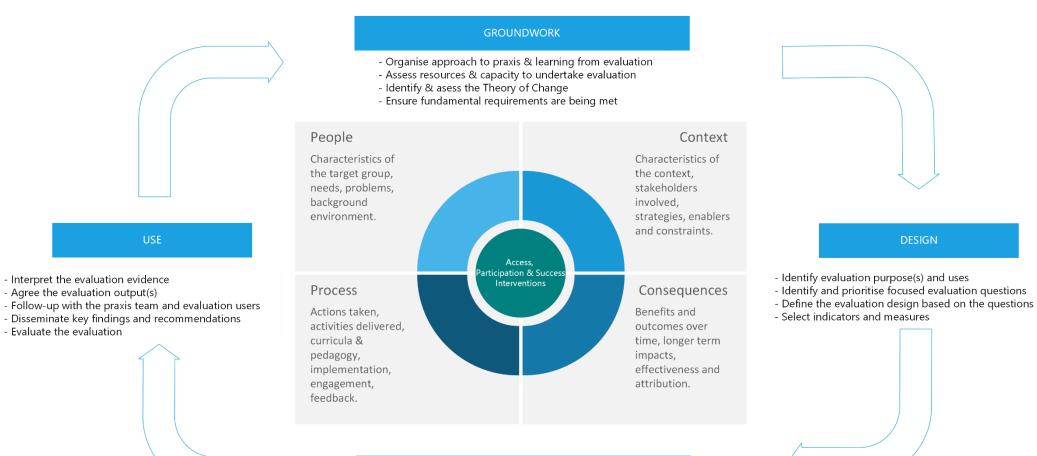


NERUPI APPROACH TO EVALUATION

EVALUATION PROCESS MAP

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- Evaluate the evaluation



IMPLEMENT

- Choose appropriate methods that fit the purpose

- Agree the evaluation action plan and communicate the evaluation
- Manage the collection and collation of data (with attention to use)
- Analyse the data to answer the evaluation questions

Dimensions

People	Processes	Context	Consequences
Featured both as an initial factor influencing processes and as a result shaped. - process-relevant person characteristics (disposition, motivation, persistence, etc.) - resources (past experiences, skills, social and material resources) - characteristics (age, gender, ethnicity)	Might involve student- teacher interactions, peer relationships, engagement with learning materials etc: - increasing complexity leading to either competence (or not); - duration and frequency effects; - reciprocal interaction.	Includes the micro-, meso-, exo-, and macrosystems in the EST model. Emphasis is on the microsystem structure, highlighting the impact of proximal processes and involving interaction with objects and symbols, rather than solely with individuals.	What is occurring during a specific activity or interaction (micro) Extent to which activities and interactions occur (and consistency) over time (meso). Events in life period of individuals (macro)

Synergy a key concept

Cooperative action of these four elements, such that the sum of the parts is greater than the whole



- I. Basics: praxis teams, theory of change, student voice
- 2. Context: exploring inequalities, NERUPI aims and framework
- 3. Planning: targeting, curriculum, pedagogy, logistics
- 4. Evaluation:
 - Designing evaluations: purposes and uses; evaluation designs, using questions
 - Implementing evaluations: indicators and measures, contextualisation, methods guides, ethics
 - Using evaluation: data analysis, reporting
- 5. Action: case studies, dissemination opportunity

NERUPI Resource Bank

Action

Filter by type

□ More on this topic

Interactive exercises

□ Tools & templates

Practice examples

Methods guides

Further reading

Videos

Relevant presentations

Key resources

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RETRESOURCES Theory, evaluation, and practice in widening participation: a framework approach to assessing impact - Annette Hayton and Andrew Bengry-Howell, 2016

Published in the London Review of Education, 2016, 14(3), pp.41-53.



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The evaluation of the impact of outreach: proposed standards of evaluation practice and associated guidance - Claire Crawford, 2017

Commissioned by OFFA, Claire Crawford and her team at Warwick University produced detailed guidance on evaluating outreach.



Translating close-up research into action: A critical reflection - Sue Clegg, Jacqueline Stevenson and Penny Jane Burke 2016

Reflective Practice, 2016, 17(3), pp.233-244.



Evaluating equity and widening participation initiatives - Penny-Jane Burke, Annette Hayton and Jacqueline Stevenson, 2018

Illustrating evaluation and research methods that capture the complexity and context of WP initiatives. Trentham Books



The influence of socioeconomic status on changes in young people's expectations of applying to university - Jake Anders, 2017

481 resources found

Peer Evaluation course

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- This course is for those involved in leading or undertaking evaluation of access and participation initiatives.
- Combines continuing professional development for evaluators with an institutional Peer Review process the course benefits both individuals and organisations.



Starting April 2024

https://www.nerupi.co.uk/events/peer-evaluation-course