# TRANSFORMATIVE ENTERPISE RESEARCH GROUP-**TERG**

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Increasing Academic Reach and Impact by Accelerated Research

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# **Executive Summary**

This working paper introduces and elaborates on the Accelerated Research Methodology (ARM), a transformative approach designed to enhance synergy between academia, business, and other stakeholders. The paper provides insights into the structure of ARM, discussing how it streamlines the conventional research process through the application of 'productisation' principles — a set of principles useful for enhancing efficiency, scalability, and clarity in value proposition. The paper also highlights key areas where strategic interventions are imperative to bring about revolutionary enhancements in research practices.

The key insights derived from this approach can be summarised as follows:

- **Emphasising Simplicity and Repeatability:** The argument is made for prioritising simplicity and repeatability in conducting impactful research, advocating for a streamlined and efficient methodology.
- Significance of AI as a Catalyst: A fundamental aspect of the Accelerated Research Methodology involves the incorporation of Artificial Intelligence (AI), paving the way for seamless integration between academic and business knowledge towards reducing research production time, optimising efficiency and resource utilisation.
- **Tangible Processes Driving Opportunities:** The approach is anchored in tangible processes, aiming to bridge the gap between academic research and the dynamic needs of entrepreneurial ecosystems, thereby creating new avenues for collaboration and growth.
- Accelerating Contributions to Business Growth: The overarching goal of ARM is to expedite immediate and impactful contributions to Scottish business growth and innovation, aligning research with practical outcomes.

## **Background Statement**

Entrepreneurial ecosystems are of interest to both policymakers and academics (Omeihe, 2019; Stam and van de Ven, 2021). However, the role that research plays in the development of these ecosystems remains unclear. Despite numerous reviews of the literature and suggested research agendas (Alvedalen and Boschma, 2017; Cavallo *et al.*, 2018; Scaringella and Radziwon, 2018; Wurth *et al.*, 2022), there remains ambiguity about whether research is driving policy or vice versa (Autio *et al.*, 2018; Stam and Spigel, 2018). Arguably, what's worse is that there is a strong and ongoing school of thought challenging the value of research emerging from business schools for businesses themselves (Parker, 2018).

One business owner put it succinctly: 'Who in their right mind would go to an academic for advice on how to run a business?' (Beech *et al.,* 2010); there is little evidence that this has changed (Terjesen, 2022). Another important question is about how well academics are positioned to provide a contribution to business practice. For example, recent research

sought to examine how ideas on translation can help academics reach from the 'theoretician's "high ground" of well-defined problems that lend themselves to technical solutions to the practitioner's "swampy lowland" of confusing problems' (Muñoz and Dimov, 2023). As a matter of fact, there seems to be an inherent assumption that academics can add value. On our part, we don't think this should be taken for granted.

In principle, it is inherent to suggest that academics have acknowledged these shortcomings through calls that research should be both relevant and rigorous (Markusen, 2003; Omeihe, 2023). This is a point to be emphasised; the relevance gap continues to generate debate (Rynes *et al.*, 2001; Van de Ven, 2007; Tkachenko *et al.*, 2016; Wood *et al.*, 2022), with arguments suggesting that the gap is fundamentally unbridgeable (Keiser and Leiner, 2009), yet there is scope for more optimism (Hodgkinson and Rosseau, 2009).

The recognition calls into question our conventional assumption. We recognise the contributions of Hodgkinson *et al.*, 2001 (See Figure 1), and our position is that it is perfectly feasible for enterprise research to be a pragmatic science-starting with practical relevance and having clear systems in place to ensure that the resulting relevance has both theoretical and methodological rigour.



Figure 1: A four-fold typology of research

#### Adapted from Hodgkinson et al., (2001)

At the same time, there are two aspects that need to be considered in relation to practical relevance. The first is to make sure that research is problem-led rather than theory-led (Eden and Huxham, 1996; Gibbons *et al.*, 2000; Beech *et al.*, 2010). Creating impact through research is, or should be, a process of co-development (Macintosh *et al.*, 2021), and it is self-evident that dissemination is too late if the wrong questions have been asked (Pettigrew, 2001). The second aspect is to ensure that results from research reach those who can benefit from it quickly. On our part, we recognise that adding speed to academic rigour and relevance has been considered in several contexts including the idea of a research world café' (see Schiele *et al.*, 2022). Whilst we don't subscribe to the view that academic research is inherently too slow to be relevant, we do think that the idea of speed

(or perhaps more accurately timeliness) is critical if the relevance-rigour gap is to be bridged. Given that this problem for research has been widely recognised for some time (Hernandez and Haack, 2023), it is interesting to consider why it persists.

When considering the impact of institutional leadership on the timeliness of research, it appears that delays are unlikely to result from a lack of urgency instigated by university management. Even more so, there is compelling evidence indicating that such pressure within the research culture can adversely affect the well-being of researchers (Nicholls *et al.*, 2023). Now, onto this scene lands the rigour-relevance gap. Why is there so much interest in this area? Among the suggested factors, certain primary reasons have emerged as central to this growing interest.

First and foremost, we are confronted with the prevailing undercurrent of inertia in academic environments, which can be resistant to change and slow to adopt new paradigms or approaches. Researchers are used to a certain way of working and may be reluctant to embrace new methodologies or engage in collaborative efforts with practitioners, seeing these changes as a shift from their core academic ethos (Kallio *et al.*, 2016). Secondly, the traditional academic reward and promotion system prioritises publication in prestigious journals over practical impact (Rodenburg *et al.*, 2021) and/or prioritises teaching over research (Morgan and Finkelstein, 2017). Even more intriguing is the fact that cultural differences between academia and business are complex (Perkmann *et al.*, 2021) – for instance, it has been suggested that an approach is to suspend cultural rules or differences, rather than solve them (Beech *et al.*, 2022).

As it turns out, difficulties in assessing where to focus research to have an impact feature prominently here. Similar to Muñoz and Dimov (2023), the most apposite question is: 'How can our work change or benefit the economy, society, culture, public policy or services, health, the environment, or quality of life?'. Another reason speaks to the desire to address 'grand challenges' (Seelos *et al.*, 2022), which doesn't necessarily seem to lend itself to increasing the speed of research.

It is clear that addressing these challenges merely by urging faster research or greater engagement does not seem likely to be successful. A more interesting approach is taking ideas and processes from outside typical business school research processes, for example using 'translational science' from biomedical research (Muñoz and Dimov, 2023). This has been characterised as the Entrepreneurship Rapid Response Research Initiative (ER3) (Muñoz, 2021), and our proposed Accelerated Research Methodology has the potential to align with this initiative – the overall aim is very similar, even if the approach we are proposing is different.

#### Productisation and new technologies

In line with the focus of this paper, we are not naive to ignore that rapid research requires 'pragmatic choices' (Deom et al., 2023), and we believe that an interesting way to introduce a more pragmatic approach to research is by adopting ideas from the literature around productisation. Additionally, joining the larger conversation about the potential impact that new technologies, particularly AI, can have on the research process is crucial.

Productisation (also referred to as 'commodification') involves the transformation of a service or concept into a product and is best summarised as specifying and standardising processes and methods (Jaakkola, 2011; Jarvi and Toivonen, 2020). Whilst it remains an understudied idea, it is increasingly gaining traction in service businesses, particularly Knowledge-Intensive Service Businesses (KIBS) (Harkonen *et al.*, 2015; Järvi, 2016; Leoni, 2015; Lahy *et al.*, 2018).

A notable feature is that the term has been used to describe various business concepts such as product development, software-as-a-product, and technology productization. Yet it increasingly appears to predominantly refer to service productisation - specifically the development of systemic, scalable and replicable service offerings (Chattopadhyay, 2012). This seems to offer an interesting avenue for increasing the speed of research by identifying elements of a typical research project that could be standardised.

We contend that it is entirely possible that creating clear, replicable systems for research at scale facilitates an increased use of technology to speed up these processes. It has been widely acknowledged that generative AI tools such as ChatGPT have the potential to disrupt the academic norm (Royal Society 2018; 2019; Imran and Almusharraf, 2023), which presents both opportunities and challenges in the research process around article design (Cabanac and Labbé, 2021; Dwivedi *et al.*, 2021; 2023; UKRI, 2021; Livberber, 2023).

In the broader context, it is important to recognise that discussions and controversy about AI models as 'authors' of academic papers are currently in progress (da Silva, 2023; Polonsky & Rotman, 2023; Yeo-Teh and Tang, 2023) and there appear to be a paucity of study related to this unexplored aspect. This is what we want to consider and address as part of our proposed methodology. The key here might be how we use and consider the statement that a particular research is 'original' (Thorp, 2023), as well as looking for a consensus emerging around ethical guidelines for the use of AI (Currie, 2023). Our guiding principle which is consistent with that put forward by Chubb and colleagues (see Chubb *et al.*, 2021) is that AI (or any other technology, for that matter) should assist and not replace human creativity.

More interesting is the fact that, when looking at technology as a whole rather than just AI or machine learning, viewing it through the lens of productisation changes the nature of this conversation slightly. This is primarily because AI systems are developing rapidly, with new tools that possess the potential to advance research. We believe that the approach to this is to remember that these technologies are merely tools that a researcher can employ. By structuring research as a scalable, repeatable system, the exact tool becomes less important and can be continually refined and updated.

### **Key Underpinnings**

When it comes to the nature of what we would like to achieve with our proposed accelerated approach and how it can make an impact, we have categorised the broader objectives into two categories: Exploration and Framework Development and Engagement and Testing. These two categories serve different purposes and have distinct characteristics that contribute to the overall functionality of the Accelerated Research Methodology (see Figure 1).

#### 1. Exploration and Framework Development

Now we know that applying the accelerated research methodology is a transformative approach designed to enhance synergy between academia, business, and other stakeholders.

But the question is how this can be actualised.

The actualisation of this methodology requires a thoughtful implementation plan, including a meticulous exploration of factors contributing to the persistent relevance gap in management research. This serves as the foundational pillar of our accelerated approach, aiming to understand the issues that perpetuate the gap. We believe that this understanding lays the groundwork for targeted interventions, setting the stage for meaningful change.

In this phase, the ARM will involve a transformative process, which we refer to as 'productised' research process. This innovative approach is designed to expedite the research timeline without compromising the robustness of the research findings. At this critical juncture, it's important to highlight that the goal is to capture and apply the key interplay between theory and practical application. This provides the impetus to bridge the gap between theoretical understanding and actionable methodologies.

On its own, the ARM can be used to extend its reach and accelerate innovation across regional development by working closely with stakeholders in enterprise ecosystems.

However, we understand that effectively improving the relevance gap implies the need to address the issues faced across businesses. More importantly, this requires a focus on developing tailored research practices. We acknowledge that this won't be an easy task. Instead, we must emphasise that the goal is to ensure the exploration and development of the much-needed framework to ensure that the methodologies are directly beneficial to businesses. It is encouraging to note that, given the iterative nature of research, this phase is driven by a desire to explore deeper into the factors contributing to the relevance gap. In other words, the aim is to identify subtle nuances that may have eluded initial scrutiny, thereby enriching the reliability and validity of the given study.

#### 2. Engagement and Testing

Continuing with the above theme, one essential way to achieve an accelerated research methodology is through the engagement and testing process. Following the preceding phase, where a solid foundation is established, the engagement and testing aspect actively engages with the real-world challenges faced by businesses. The goal is to ensure that the approach provides benefits to the stakeholders. This is of paramount importance.

This helps to explain the testing phase.

The focus is on identifying 'live' problems that enterprises are actively grappling with. These real-world challenges become the litmus test for our proposed methodology, ensuring that research is not conducted in isolation but is deeply rooted in the pressing concerns of the business community. This critical step ensures that the methodology is not a theoretical abstraction but a well-accepted and embraced tool in both academic and practical scope.

Collaboration with businesses is paramount in this phase, as the goal is to make a seamless transition from understanding complexities to proposing practical solutions and ensuring their acceptance and applicability in the real world. We contend that this is a testament to the dynamic nature of ARM, contributing not only to theoretical understanding but also to tangible impact in the field of business research.



### Methodology

The key questions underlying the usage of Accelerated Research Methodology should be based on the following ideal questions.

RQs	Description
RQ1	What would effective accelerated business research look like?
RQ2	How do new technologies facilitate this process?
RQ3	How can we measure success?

The approach to reasoning is primarily abductive as it grounds the theoretical understanding of the issues, contexts and participants involved, in the meaning and perspectives that form their view of the social world. This involves selecting the best interpretation of data as new discoveries are revealed in a logical and methodological way (Reichertz, 2007; Briant and Charmaz, 2007; Omeihe, 2019; Omeihe and Harrison, 2024).

We understand the research area in which the study is taking place but have no fixed hypothesis that we wish to test, so our approach to this problem is firmly based on Pragmatism, recognising that the most important determinant is the research problem and research question, not the theoretical approach (Patton, 1990; Cherryholmes, 1992; Morgan, 2007; 2014).

We have adopted the mantra that 'instead of focussing on methods, researchers use all approaches available to understand the problem (Cresswell and Cresswell, 2018) which naturally leads us to a mixed methods study that gathers as much information as possible from stakeholders on both sides of the rigour/relevance divide (academics, businesses and other stakeholders including those providing professional support to businesses or academics) to break down a research project into constituent parts that can then be evaluated for the likelihood that they can be productised.

The methods employed to gather this data are likely to include.

Data collection	
Surveys-What do businesses actually need from research?	
Interviews and workshops with both academics and businesses	
Within-site displays to ensure a comprehensive review of data sources and inform	
readers about the generation of themes	
Co-production of a proposed research process with a shortened timeframe that	
can then be piloted on 'live' research with businesses	
Validation of proposed Methodology by using it to produce papers for peer	
review.	

### Timeline

This is an ongoing, long-term process – understanding customer (stakeholder) needs and iteratively reacting to them is an important part of a productisation project. This process started in October 2023, initial outputs can be expected in Q1 2024 and then ongoing development throughout 2024 and 2025.

There are several interlinked workstreams that make up this project, as shown in Figure 2. There is an academic explanation and justification strand, made up of a concept paper, working paper, full journal paper submission and supporting conference presentations. There is a practical exploration strand, discovering available tools and techniques alongside defining best practice elements in the research process, and deploying these tools and processes in a 'productised' research process.

Finally, there is an empirical strand, where we test the methodology through peer review and practical application.



#### Figure 1. Timeline and overview of several interlinked workstreams

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