

The cover features a minimalist design with a grid of colored rectangles separated by thick black lines. The top-left rectangle is red and contains the journal's title. The top-right rectangle is yellow. The middle-left rectangle is white and contains the volume information. The bottom-left rectangle is yellow, and the bottom-right rectangle is blue and contains the website address.

Maastricht Policy Journal

Vol 1, 2018

www.maaspolicyjournal.com

Maastricht Policy Journal

2018, Vol. 1, No. 1



Maastricht Policy Journal

Contents

Editors letter	2
Acknowledgements	4
Research articles	4
I. Merkelbach,	
Rethinking and designing lifelong learning policy	5
W. Shrew	
Torpor decrease body weight	10
Review articles	11
D. Searcher	
Evolution of hibernation strategies	12

Editors Letter

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam

pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consetetuer.



Our Editorial Board

Krystal Gaillard, Editor in Chief

Jorge Vélez, Editor in Chief

Associated Editors and Co-Founders:

Anna Balzereit

Melissa Fairey

Shashank Neelagiri

Ilona Nietosvaara

Dominik Semet

Robyn Sleight

Acknowledgements

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



Rethinking and designing lifelong learning policy

A short essay

Iris Merkelbach *

Abstract

To address human participation in an era of digitalization and AI, policy makers need to redesign their concept of lifelong learning. However, to put the concept lifelong learning successfully into practice, three policies should be implemented: the school curriculum needs to include informal community-based learning activities, policies targeting the private sector should enhance flexibility for formal educational and vocational learning activities, and lifelong learning needs to be funded by means of a combined private-public saving scheme.

Keywords: Lifelong learning, digitalization, AI, employment, non-employment

1 Introduction

The concept of lifelong learning has drawn to the attention of scholars and policy makers for decades. However, up until recent technological advancements, there was no incentive to pursue lifelong learning. Digitalization and the development of artificial

*Iris Merkelbach is currently pursuing a second Master's degree in Public Policy and Human Development, while simultaneously completing her Master's degree in European Studies on Society, Science and Technology. Her main areas of interests are regional governance and the societal impact of technology and science. Corresponding author: i.merkelbach@outlook.com.

intelligence (AI) have provided a reason for urging policy makers to turn the idea of lifelong learning into practice. According to Frey and Osborne, approximately 47 percent of total US employment is exposed to automation (2013). Contrary to this high estimate, another group of scholars casted a modest prediction model for future employment, estimating 18.2 percent of jobs to be at high risk of automation (?). Which forecasting model might eventually turn out to be society's reality remains to be seen, but the undeniable fast pace of technological development begs for an answer on looking within and beyond the labor market. Lifelong learning could be one of the answers addressing human participation in the age of digitalization and AI, but how do policy makers motivate individuals and ensure sufficient funding ? Both issues, which will be discussed here, need to be considered, as they prevent the implementation of lifelong learning.

The concept of lifelong learning

Before turning to the stimulation of individual participation and creation of funding models for lifelong learning, the definition of lifelong learning needs to be made clear first. Lifelong learning has been described by the British Economic and Social Research Council as:

“in which all citizens acquire a high quality general education, appropriate vocational training and a job ... while continuing to participate in education and training throughout their lives.... Citizens of a learning society would ... be able to engage in critical dialogue and action to improve the quality of life of the whole community.” (Gorard and Rees, 2002)

Policy makers define lifelong learning not merely in terms of meeting skill-relevance demands of the job market, their definition relates to good citizenship and being a valuable member to society as well. Lifelong learning thus encompasses economic and social value. Since newly acquired skills serve a broader purpose, lifelong learning can be tied to non-economic and voluntary projects. Given the forecasting models mentioned earlier on, a significant part of the labor force will be replaced. While job replacement by automation is considered part of the economic growth cycle, it is predicted that digitalization and AI will have a permanent effect on job replacement. Among several reasons, current technological development causes stagnant wages and divergence between productivity growth and wage growth (Virgillito, 2016). As such, lifelong learning having a broader purpose, serves the interest of both employed and non-employed population. However, the definition falls short on the informal aspect

of learning or, phrased precisely, learning opportunities related to community-based activities (Gorard and Rees, 2002). Engaging permanently non-employed citizens regularly throughout their lives in formal educational forms such as university or vocational training is highly unlikely. Therefore, the definition of what comprises lifelong learning should be revised in order to incorporate the scenario of non-employability in an era of digitalization and AI: *‘having all citizens involved in either informal community-based learning activities or formal educational and vocational learning activities throughout their lives in order to be a productive member of society and/or a valuable participant in the economy.’*

Within the essay, the revised definition of lifelong learning will be employed, as a way to refer to both employed and non-employed citizens.

Stimulating individual participation in lifelong learning

The inclusion of both informal and formal learning activities requires different policy strategies. So far, educational policies have been focusing on the preparation for a career, while neglecting community-based learning activities. As a result, positive experiences of individuals at school are limited to career opportunities. Based on current numbers, unpaid work is already an important factor in the economy. Unpaid work for women in the developing as well as the industrial world is estimated to constitute two-thirds of their total work time, whereas it accounts for approximately one-third of total work time for men. Technological advancements will most likely alter the balance between paid and unpaid work (ILO, 2017; Swiebel, 1999). Although some policy makers have been concerned with citizens helping themselves as a way of mobilizing civil society (Usher and Edwards, 2007), prospects of employability remain important in the debate of lifelong learning (Hyde and Phillipson, 2014). A shift in mindset is needed, as educational policies should include informal learning opportunities into their curriculum. If a significant portion of the population will permanently remain unemployed, the positive experience of community-learning activities starting at school will become just as relevant as the preparation for and continuation of a career in the light of lifelong learning. Positive informal learning experiences will stimulate individuals to develop their capabilities outside a work-context. For formal learning activities, there exist multiple options, but effective participation of employed individuals in formal lifelong learning depends on the organizational structure of a company. Top-down organizations or organizations that insufficiently take into account work and personal needs of employees tend to see employees less motivated to participate in lifelong learning (Keeling, Jones, Botterill, and Gray, 2006). Of equal importance are flexible

learning policies and learning policies incorporating long-term leave or near retirement (ibid). Policy makers should therefore design policies aimed at the private sector which increase the adoption of a flexible approach among companies towards lifelong learning. For instance, a policy measure could include a paid maximum of three weeks devoted to formal learning each year. Ensuring income during formal learning opportunities could function as an incentive for lifelong learning participation among employees.

Funding lifelong learning

To support informal and formal lifelong learning, a saving scheme should be adopted by government, as regular investments necessary for lifelong learning cannot be merely funded by subsidies. A lesson can be drawn in this respect from pension schemes. Many OECD countries employ a combination of private and public funding. In these countries, private-pension contributions have been made mandatory for employed individuals as a means of supplementing their public pension scheme (?). The advantage of such a system is that it decreases public pension entitlement rates by requiring individuals to provide partially for their own retirement income. At the same time, as part of the retirement savings operate on a public scheme, individuals do not bear the entire risk of saving for old age (Queisser, Whitehouse and Whiteford, 2007). A public saving scheme for lifelong learning faces two challenges. First, public pension schemes have already been under pressure caused by the unsustainability of the public fund's saving mechanism, which means that there might be a lack of willingness to create an additional saving scheme for lifelong learning. Second, a significant share of the working population is threatened to be replaced by digitalization and AI, which will put an additional pressure on public scheme mechanisms for lifelong learning. Nevertheless, a combined public-private funding scheme for lifelong learning would be a reasonable solution to address both concerns, given the perks explained earlier on. Public resistance primarily depends on whether the financial burden is perceived to be properly distributed among the employed population vis-à-vis individuals carrying the risk. Careful justification and explanation is vital in communicating the saving scheme to the public. Perceived fairness though, might conflict with the second concern. In terms of the future scenario of the workforce and the fund's sustainability, policy makers most likely need to tilt the combined public-private scheme towards private savings. A possible negative effect of a combined public-private saving scheme tilted towards private savings would be that it could cause inequality between employed and non-employed individuals, as non-employed individuals cannot rely on private funding schemes (Gruber, 2013). As such, policy makers will need to make a trade-off between

publicly perceived fair proportionality and sustainability of the saving scheme.

Conclusion

If the presented policy suggestions and the funding model would be incorporated in the policy design, lifelong learning could turn out to be an effective tool for addressing human participation in the era of digitalization and AI. However, crucial for successful implementation is the definition of lifelong learning, which is not merely a matter of policy redesign, but also requires a societal shift of attitude towards unpaid work. Academics and policy makers are front runners in this regard, and should prepare society for a future of lifelong learning.

Torpor decrease one half of body weight

Eat more, eat faster that anybody is yo want survive.

Center of High Metabolism Research

1 Introduction

In this paper we contribute new evidence on the relationship between public support, innovation and productivity at the firm level in Colombia by investigating several unexplored issues. First we identify and compare the profile of firms that have access to public support for innovation in manufacturing and service industries separately; second, we examine whether the association between the introduction of innovations and productivity varies across the productivity distribution; third, we distinguish between technological and non-technological innovation, since the latter may be especially relevant in the service industries relative to manufacturing.

2 Material and methods

In this paper we contribute new evidence on the relationship between public support, innovation and productivity at the firm level in Colombia by investigating several unexplored issues. First we identify and compare the profile of firms that have access to public support for innovation in manufacturing and service industries separately; second, we examine whether the association between the introduction of innovations and productivity varies across the productivity distribution; third, we distinguish between technological and non-technological innovation, since the latter may be especially relevant in the service industries relative to manufacturing.

3 Results and discussion

In this paper we contribute new evidence on the relationship between public support, innovation and productivity at the firm level in Colombia by investigating several unexplored issues. First we identify and compare the profile of firms that have access to public support for innovation in manufacturing and service industries separately; second, we examine whether the association between the introduction of innovations and productivity varies across the productivity distribution; third, we distinguish between technological and non-technological innovation, since the latter may be especially relevant in the service industries relative to manufacturing.

Evolution of hibernation strategies

Sleep more or less? That's the question.

University of Sleepingbeauty

1 Introduction

In this paper we contribute new evidence on the relationship between public support, innovation and productivity at the firm level in Colombia by investigating several unexplored issues. First we identify and compare the profile of firms that have access to public support for innovation in manufacturing and service industries separately; second, we examine whether the association between the introduction of innovations and productivity varies across the productivity distribution; third, we distinguish between technological and non-technological innovation, since the latter may be especially relevant in the service industries relative to manufacturing.

2 Hibernation in tropical climates

In this paper we contribute new evidence on the relationship between public support, innovation and productivity at the firm level in Colombia by investigating several unexplored issues. First we identify and compare the profile of firms that have access to public support for innovation in manufacturing and service industries separately; second, we examine whether the association between the introduction of innovations and productivity varies across the productivity distribution; third, we distinguish between technological and non-technological innovation, since the latter may be especially relevant in the service industries relative to manufacturing.

3 Torpor as adaptation to global warming

In this paper we contribute new evidence on the relationship between public support, innovation and productivity at the firm level in Colombia by investigating several unexplored issues. First we identify and compare the profile of firms that have access to public support for innovation in manufacturing and service industries separately; second, we examine whether the association between the introduction of innovations and productivity varies across the productivity distribution; third, we distinguish between technological and non-technological innovation, since the latter may be especially relevant in the service industries relative to manufacturing.

Maastricht Policy Journal
www.maaspolicyjournal.com

