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Open Innovation and Quadruple Helix approach in the future of business cooperation with higher education

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INTRODUCTION

RESULTS



Open Innovation is the concept of cocreation and collaboration



"the use of purposive inflows and" outflows of knowledge to accelerate internal innovation, and expand the markets for external use of innovation, respectively» (H.W.Chesbrough, 2010)

- Helix perspective Quadruple originates from collaboration the amongst public, private, academia within the and societal actors innovation
- Quadruplex Helix perceives "a multilayered, multi-modal, multi-nodal and multi-lateral system" (Carayannis et.al., 2018) cooperation between various stakeholders

- Business, rarely recognize the value ulletbehind key words "Open Innovation" and "Quadruple Helix"
- Open Innovation approach as the coulletcreation and collaboration of various actors
 - present in Latvia national • **IS** innovation ecosystem "de facto"
 - stakeholder multiple Whereas approach "de jure" is missing
- Most recognized forms of cooperation are:
 - Business & business ullet
 - **Business & universities**
 - Business & government lacksquare
- Quadruple Helix cooperation lacksquareframework
 - is rather theoretically recognized & promoted
 - lacks the legal and operational practices
- Particularly nascent entrepreneurs are open to the cooperation in various networks and value co-creation

- Research focus:
 - National Open Innovation and Innovation Ecosystem
 - Cooperation within Quadruplex Helix approach
- Research Aim
 - to introduce professionals and entrepreneurs with recent, mostly online, business and higher education cooperation initiatives case studies revealing Open Innovation approach in pandemic and post-pandemic times to promote the values of cocreation and collaboration based on Quadrable Helix approach
- Research methods:
 - Expert interviews (in total 15 field experts interviewed representing public, private, university and NGO sectors)
 - Literature review
 - Analyses of the national innovation plocy documents (National and Regional Smart Specialisation Strategies, Latvia 2030, National Development Plan 2021-2027, other) • The case studies of recent national universities business and collaboration initiatives (e.g., Student Innovation Grants, Green technology Cluster, Cleantech Cluster, Latvian Start-up Association "Starin", etc.)

- national The study case of universities and business collaboration initiatives based on **Open Innovation and Quadruple Helix** approach is the practical implication suggested by this research.
- Currently, clusters are recognized as ulletmost common forms for cooperation across the boundaries of individual organizations

CONCLUSION, **CONTRIBUTION AND** NOVELTY

 Universities are strategic partners serving the business in the co-creation



References

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- Carayannis, E. G., Goletsis, Y., & Grigoroudis, E. (2018). Composite innovation metrics: MCDA and the Quadruple Innovation Helix framework. Technological Forecasting and Social *Change*, *131*, 4-17

and innovation process

- In Latvia, the ecosystem of start-ups may act as the driver for the open innovation within the Quadruplex Helix (QH) perspective
- The QH requires at least few engaged stakeholders willing to lead or advocate the multi-layered value cocreation process, and these actors can change depending on the value perception in the co-creation process
- Clusters shall form the future base for the management model of QH cooperation framework

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