

# FROM TRIPLE TO QUADRUPLE HELIX

## The role of society/citizens/users in innovation

### BACKGROUND: Why quadruple helix?

The triple helix model of the relations among University, Government and Industry for innovation has been increasingly questioned about its effectiveness in ensuring a long-term sustainable growth.

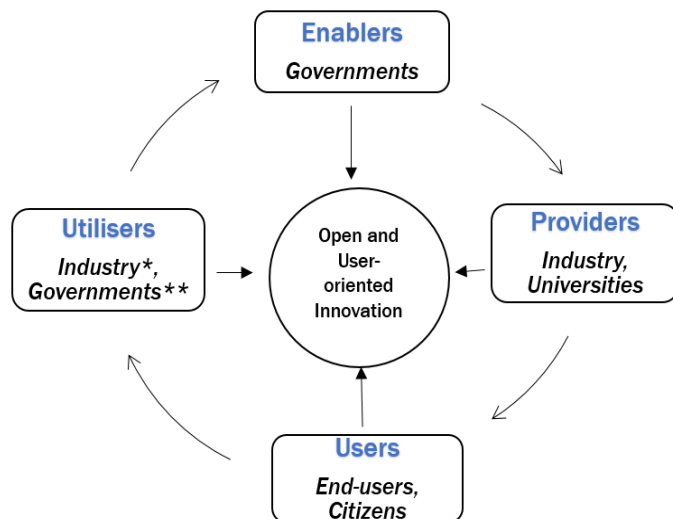
The purpose of developing quadruple helix is to add a fourth helix that serves as the representative of societal needs, and thus explicitly include society in the process of knowledge creation.



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### RESEARCH QUESTIONS:

- 1) What is the definition of the quadruple helix innovation model and its academic and practical implications?
- 2) How has the quadruple helix model been implemented through living labs?
- 3) What are the key success factors of quadruple helix models? How should we evaluate the performance and success of the quadruple helix models of innovation?
- 4) What is the role of universities in relation to the involvement of society/ citizens/ users in innovation?



\* Utilisers in Firm-centred living labs

\*\* Utilisers in Public-sector-centred living labs

### The Quadruple Helix & Living Labs

**Managerial implications:** Academia/ Governments/ Industry can learn from the findings about better practices and governance of collaboration with other partners acknowledging the role of society.

**Societal implications:** Engaging society in innovation improves the prospects of well-being (economic, social & environmental dimensions).

### METHODOLOGY

- \* Case study;
- \* Survey;
- \* Register data.

### EARLY STAGE RESULTS - Living labs in Catalonia, Es:

- Living labs as one type of the QH, but only *public-sector-centred living lab & the citizen-centred QH*.
- *Individual level* is critical in establishing (implementing) the QH.
- Academia and governments have close relationships. Gov also brings *knowledge* in LL. Academia, both universities & research centres, plays significant roles, especially as *coordinators*.
- Citizens are active in all process, *democracy* function rather than *innovation-production* function.