

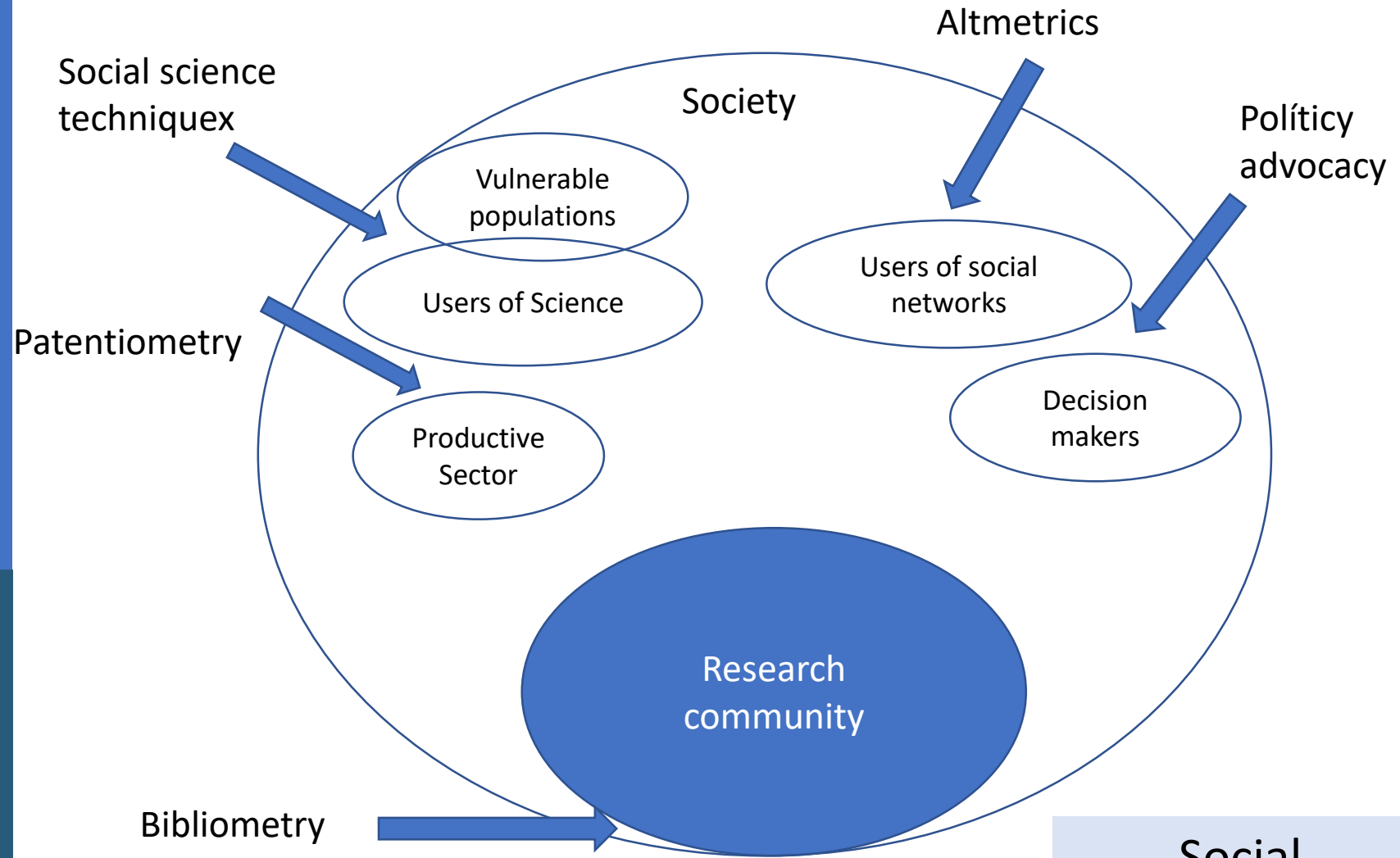
Challenges in evidence based science evaluation: the case of Veterinary Medicine School

Author:

MPCT. Carlos Alberto Montero Corrales

Carlos.montero.corrales@una.cr

Challenge 1: From traditional metrics to alternative metrics to measure social results (streetlight effect)



Social responsible evaluation

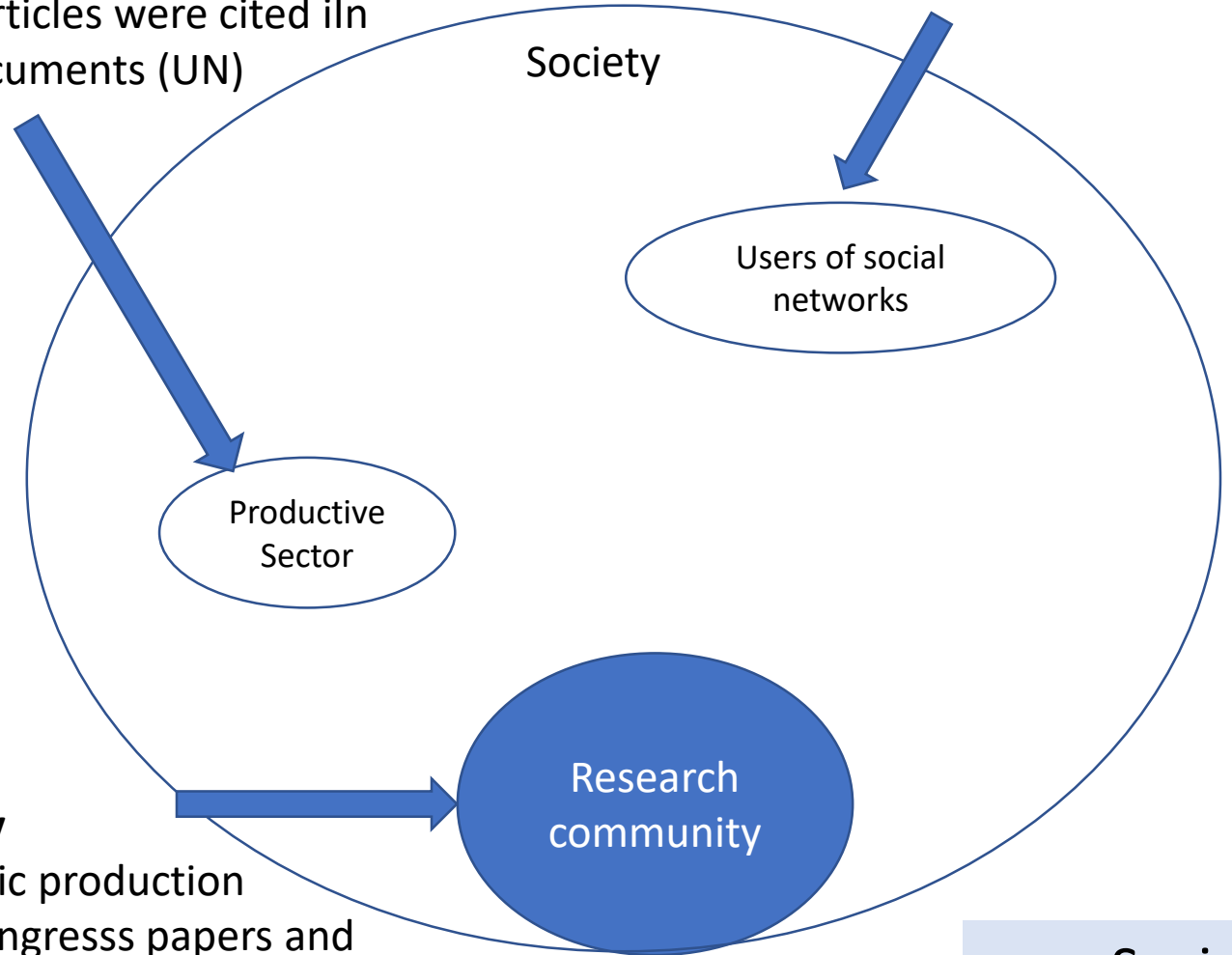
Challenge 1: From traditional metrics to alternative metrics to measure social results (streetlight effect)

Patentiometry

17 scientific articles were cited in 27 patents (WIPO)
9 scientific articles were cited in 10 policy documents (UN)

Altmetrics

6900 readers in Mendeley
Around the world



Bibliometry

520 scientific production (articles, congress papers and Book chapters) between 2010-2020

Social responsible evaluation

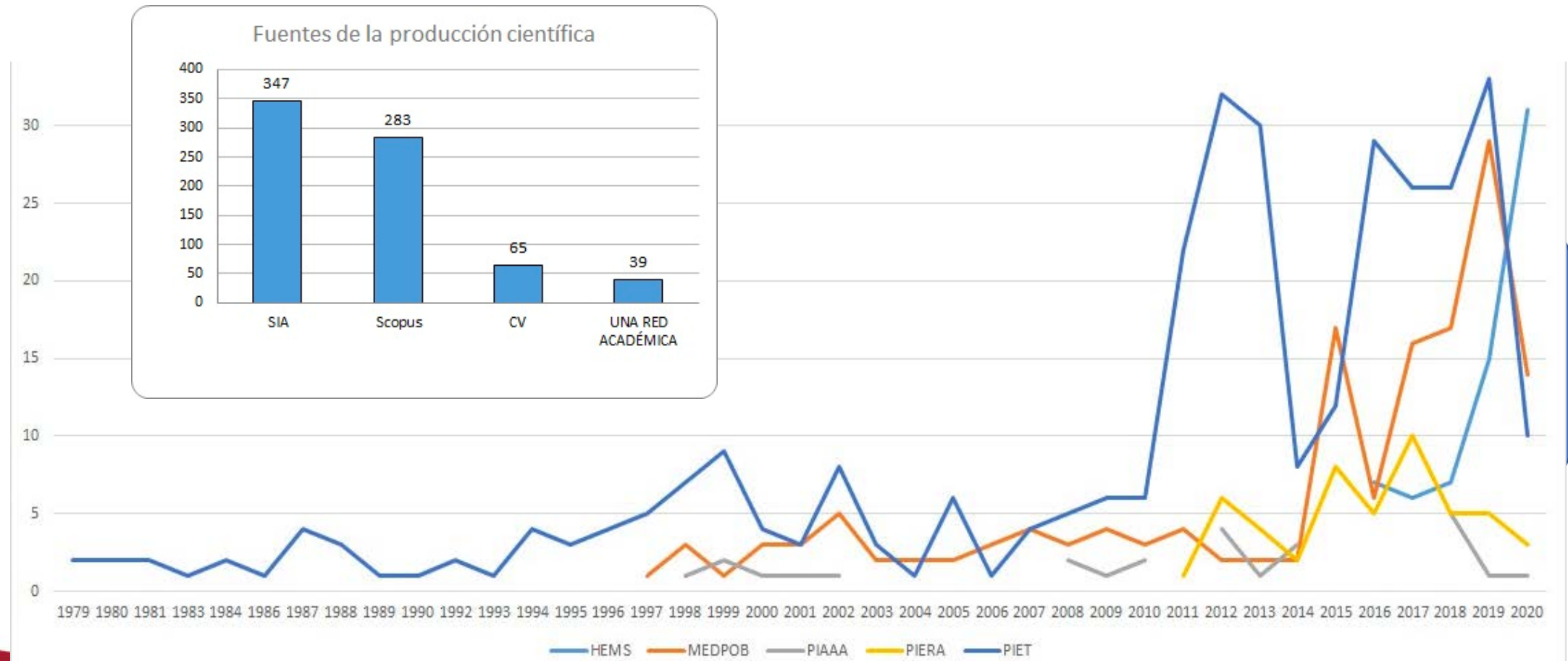


Challenge 2: From the dispersion of academic production data, to the integration of data to generate evidence in research.

Efforts to meet the challenges

- To build a unified database from different sources. (institutional academic systems, Scopus Elseviers, researchs resumes and university respository)
- To get training on science evaluation techniques: Bibiometrics, Altimetry and Social Network Analysis.
- To contract professionals in statistics in the Research Vice-Rectory at the National University.

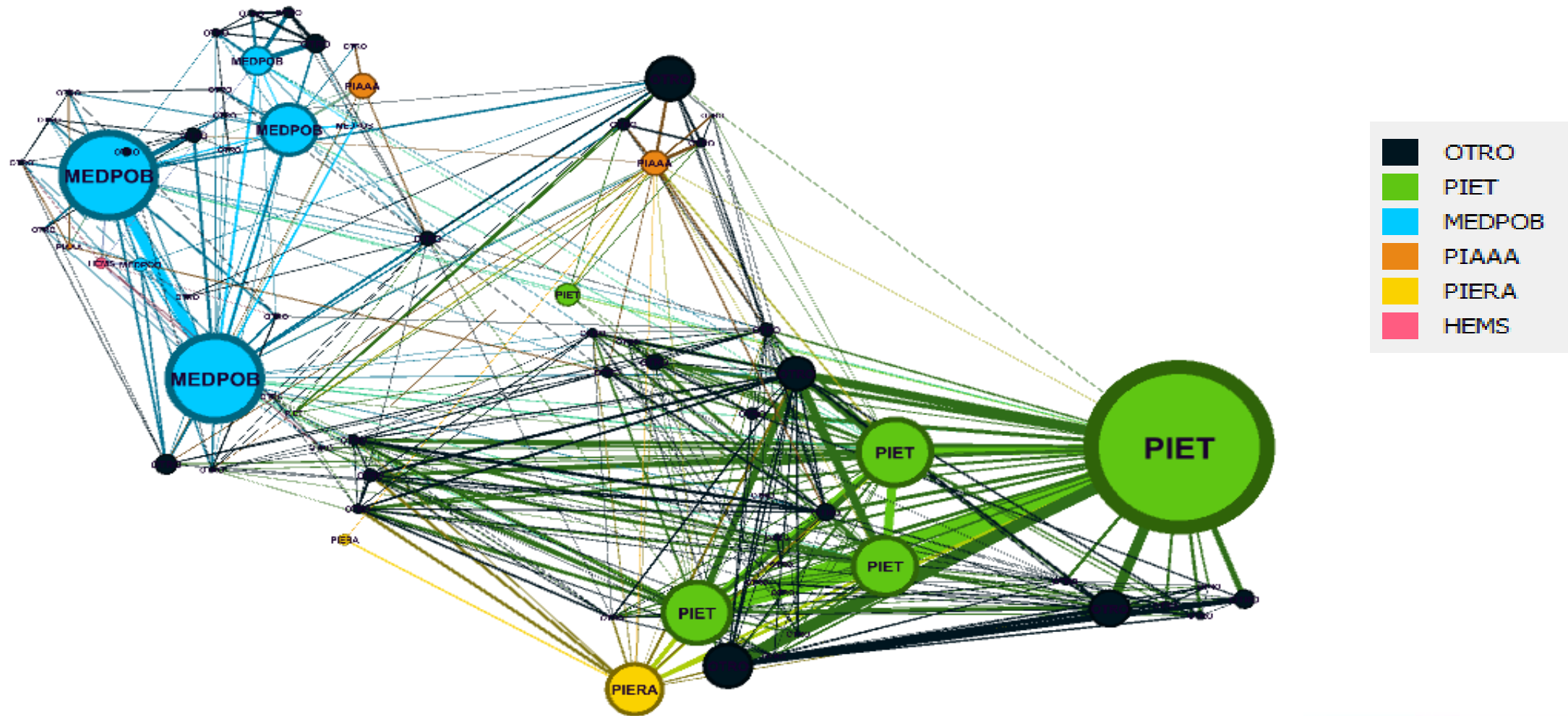
Graphic: Trajectory of the scientific production for the evaluated programmes in the Medicine Veterinary. Period: 1979-2020



Challenge 3: From traditional graphics to data visualization to make decision process.



Network: Collaboration network of the Veterinary Medicine School from contemplating the authors with 5 or more articles. Period: 1979 to 2020.



Graphic: Distribution of scientific production by research lines. Period 2010-2020



Conclusions

- Research Evaluation is an alternative way to learn how we make science according to the results in the society.. Control the process is a way to know about the management of the research programs.
- Research Evaluation challenges evaluators to seek data evidence out of the “streetlight” to cover different beneficiaries of science.
- Research Evaluation requires high data scientific capacities to create evidence from different sources.

VICERRECTORÍA DE
INVESTIGACIÓN
UNIVERSIDAD NACIONAL

Thank you