

Mimir project: Modernisation of
institutional management of innovation
and research in south neighbouring
countries - 561548-EPP-1-2015-1-ES-
EPPKA2-CBHE-SP

Analysis of the modernization impact On innovation and scientific research in Mediterranean universities

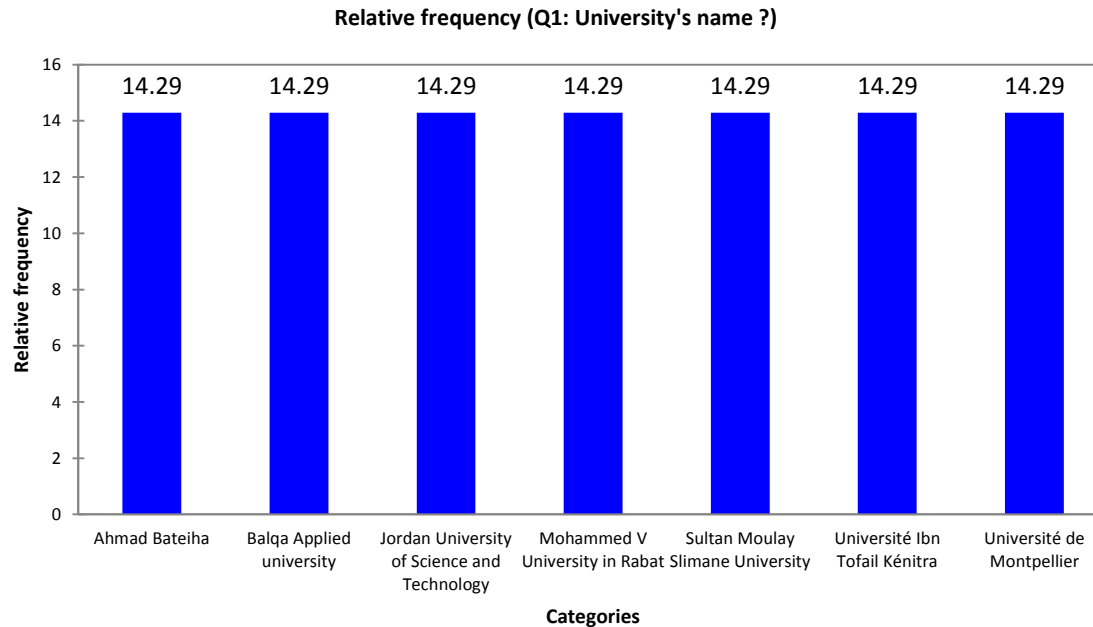
Directed by Sultan Moulay Slimane University team, Beni Mellal, Morocco

Introduction

- In the framework of the MIMIR project, a survey on the impact on modernization and innovation and scientific research in Mediterranean universities was organized by the consortium
- Link to the Survey :
<https://goo.gl/forms/EDIWHPcikVXOPq2J3>
- An analysis of this survey was conducted as follows.

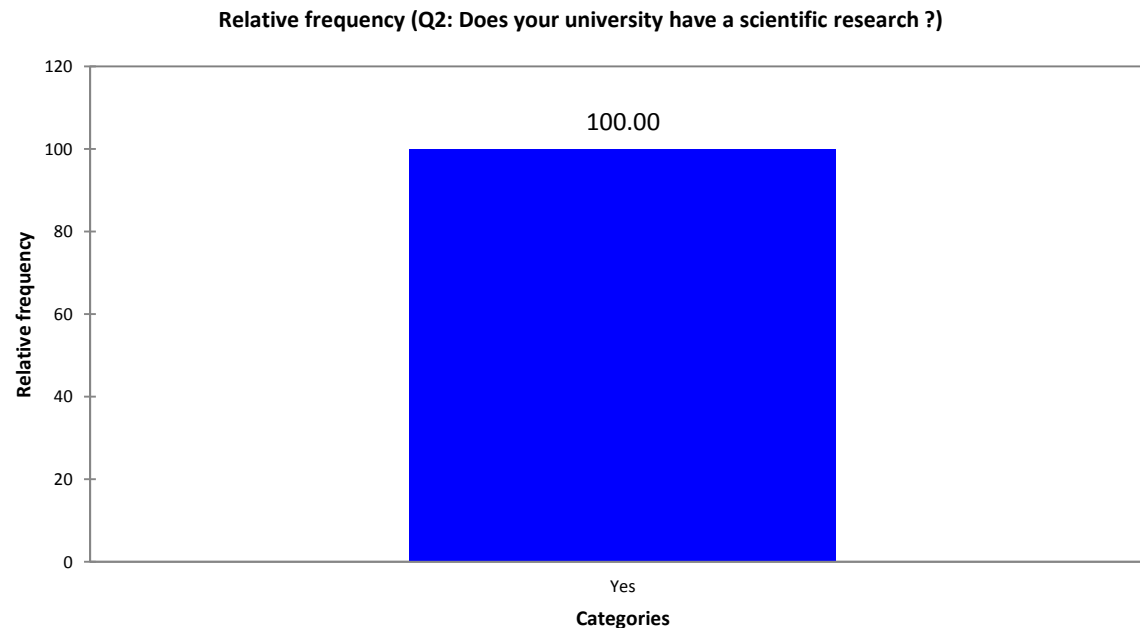
Q1 : University's name ?

- 7 universities from the consortium participated in this survey



Q2 : Does your university have a scientific research ?

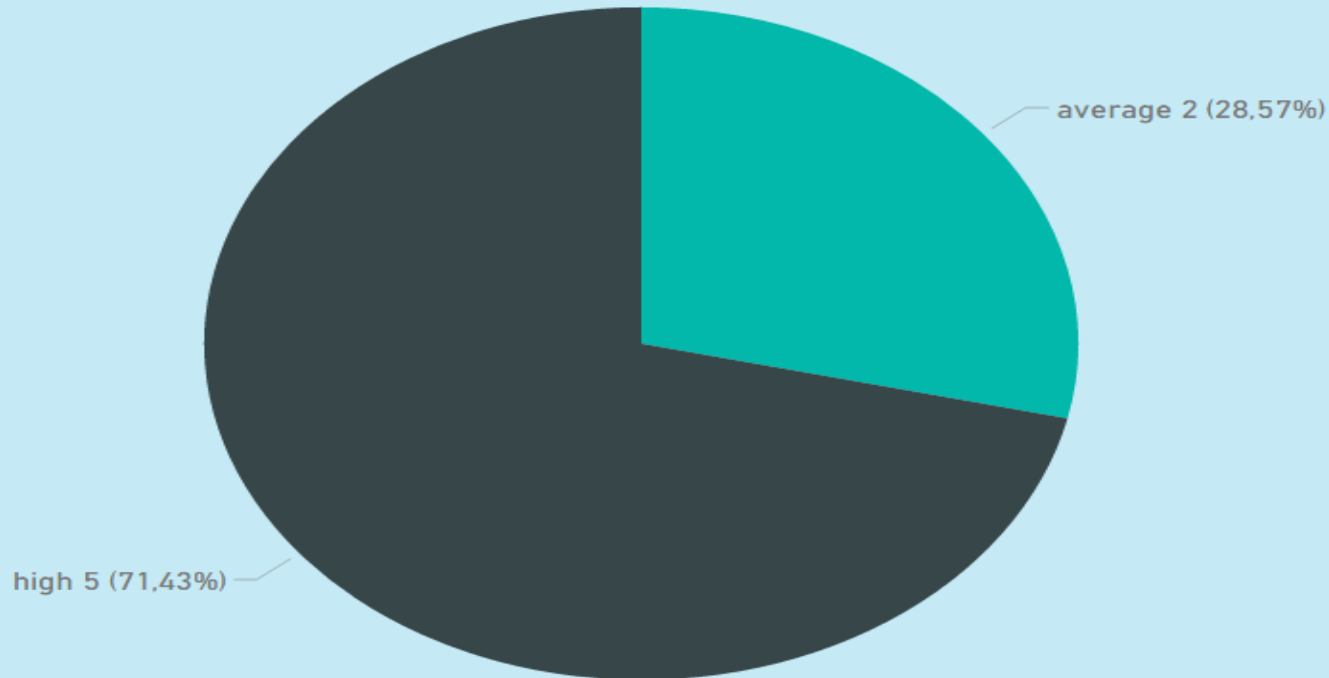
- All participating universities have the Scientific Research



Q3 : What is the level of interest of your university on scientific research ?

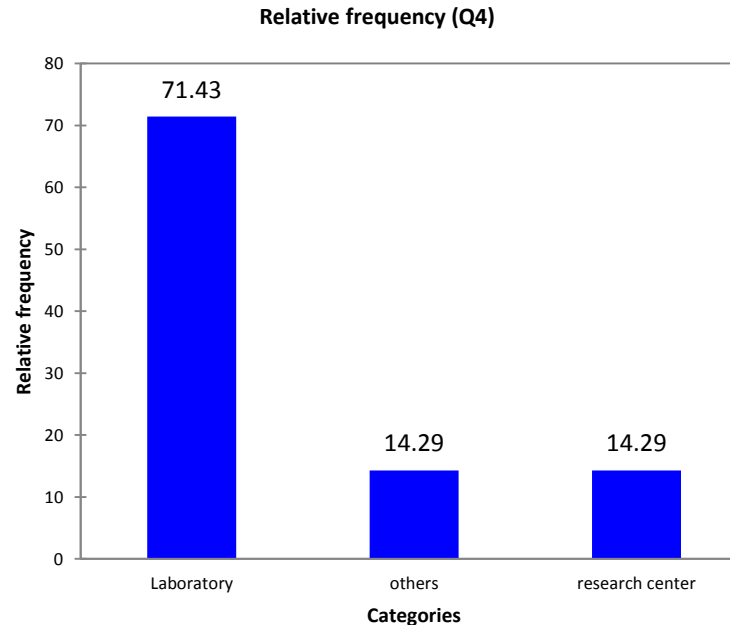
- In most universities the level of research is high and then average

FREQUENCY PAR Q3: WHAT IS THE LEVEL OF INTEREST OF YOUR UNIVERSITY ON SCIENTIFIC RESEARCH?



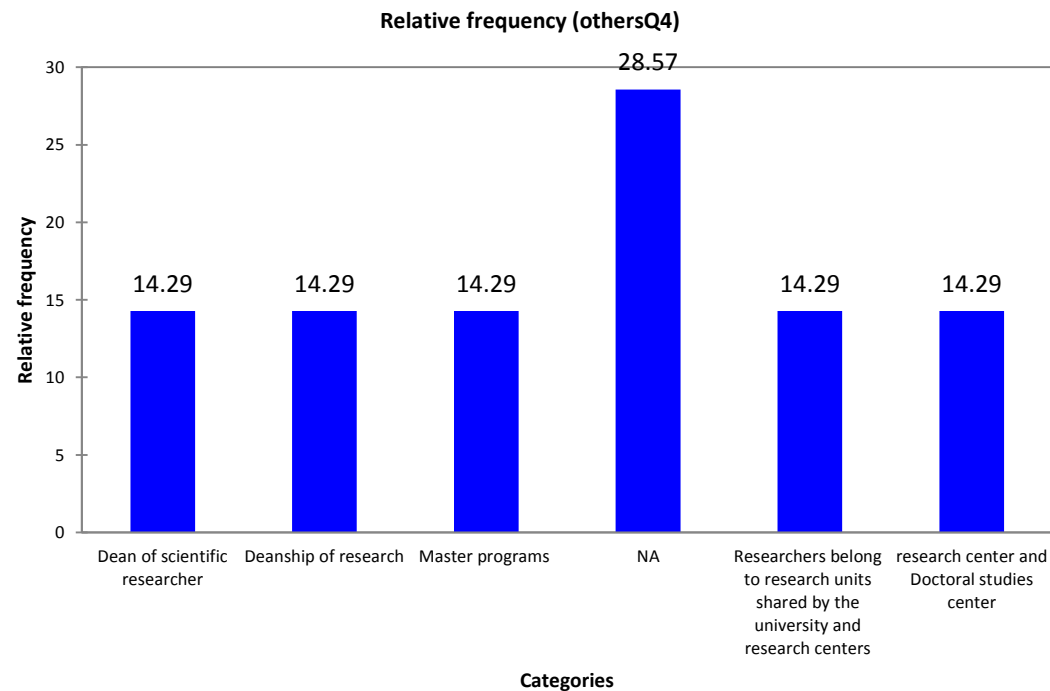
Q4: Do scientific researchers belong to research structures

- In most universities the research belongs to a laboratory or a research center.



Q5 : Others ?

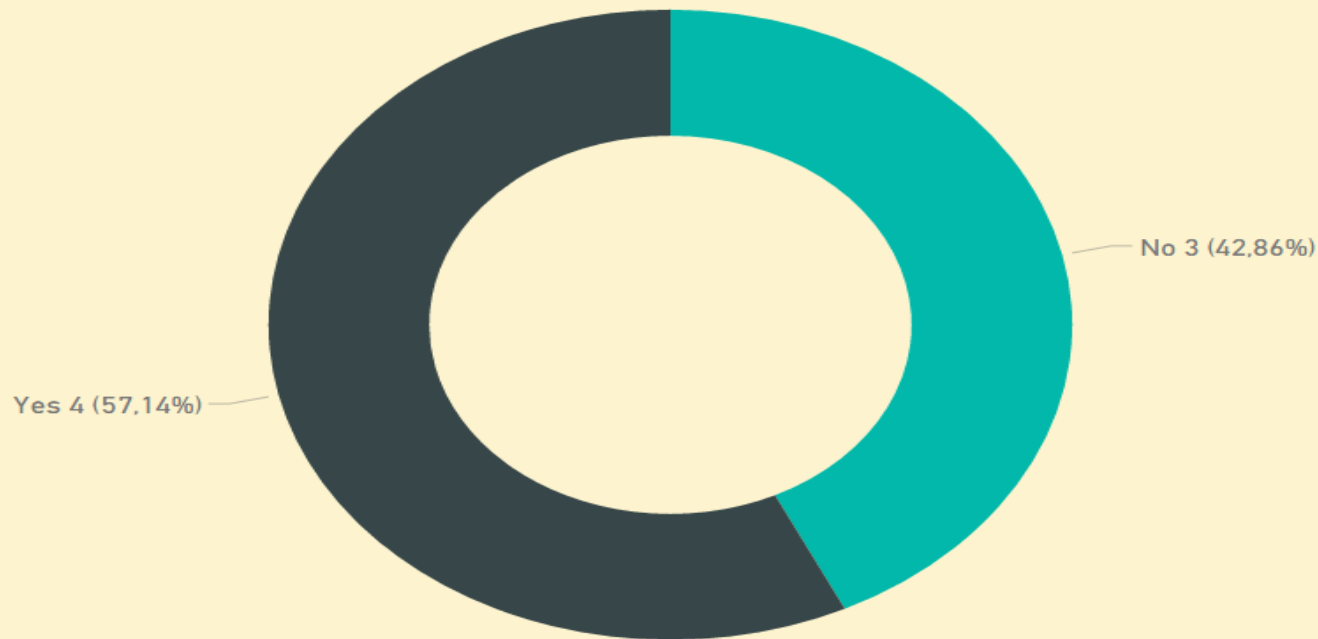
- For 5 universities the research belongs to other units other than the laboratory.



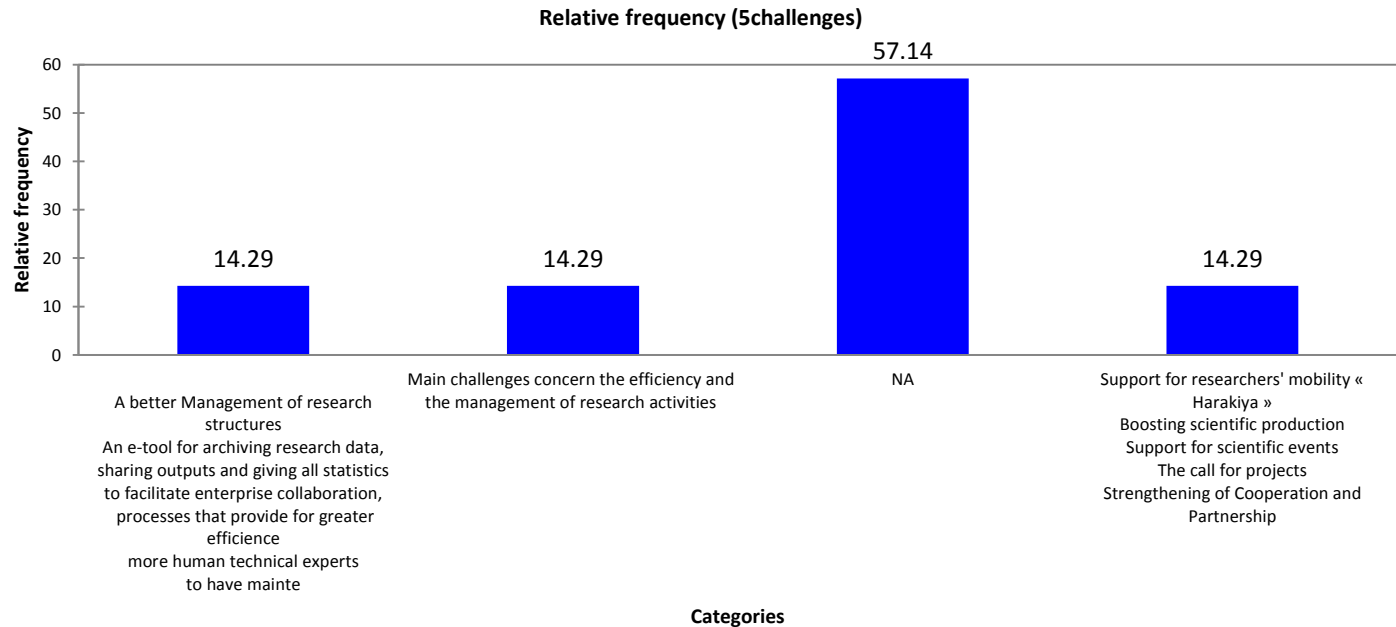
Q5 : Does your university have a management platform for scientific research?

- 57.14% of universities have a Scientific Research platform.

FREQUENCY PAR Q5: DOES YOUR UNIVERSITY HAVE A MANAGEMENT PLATFORM FOR SCIENTIFIC RESEARCH?



Q5 : The top 5 challenges



If yes, Identify the top 5 challenges

1. Shortage of financial support 2. Slow in dealing with equipment and materials purchasing 3. Lacking PhD programs 4. Lacking the critical mass of researchers 5. Lacking a clear incentives regulations for researchers

Main challenges concern the efficiency and the management of research activities

A better Management of research structures

An e-tool for archiving research data, sharing outputs and giving all statistics

to facilitate enterprise collaboration,

processes that provide for greater efficiency

more human technical experts

to have maintenance for apparatus

Support for researchers' mobility « Harakiya »

Boosting scientific production

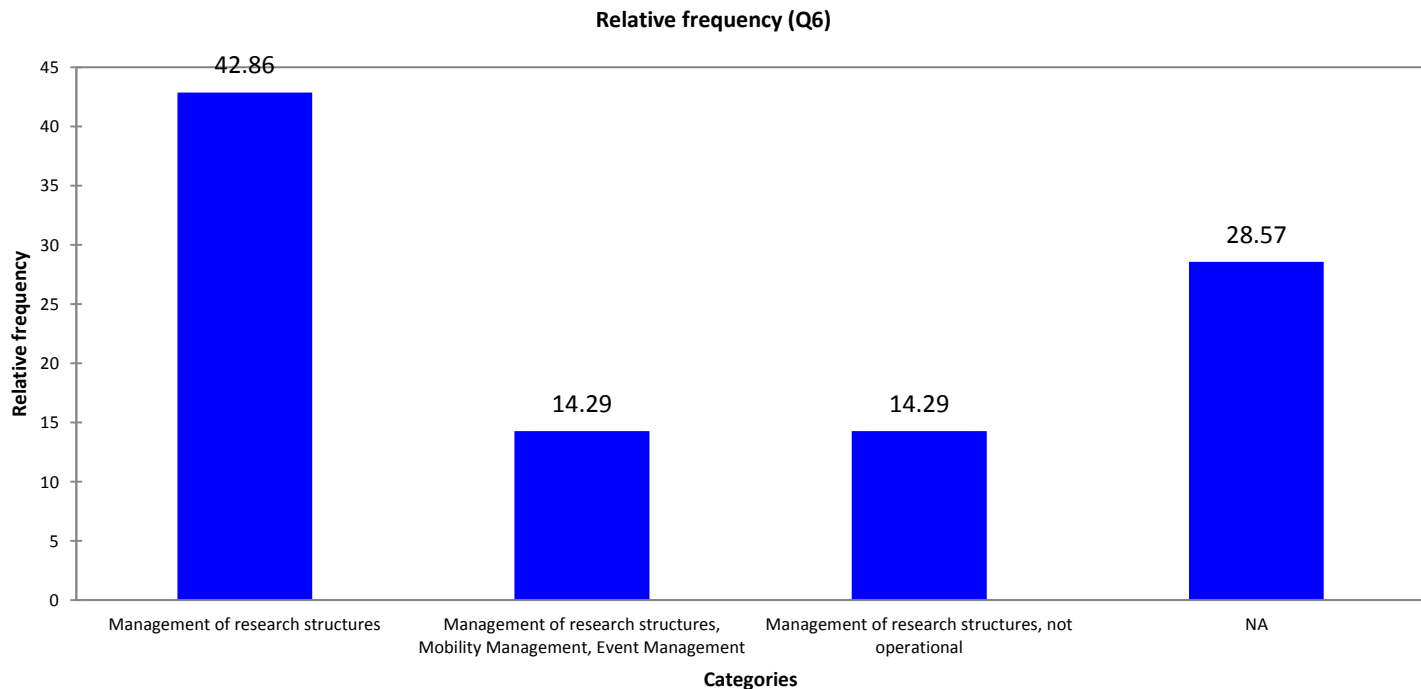
Support for scientific events

The call for projects

Strengthening of Cooperation and Partnership

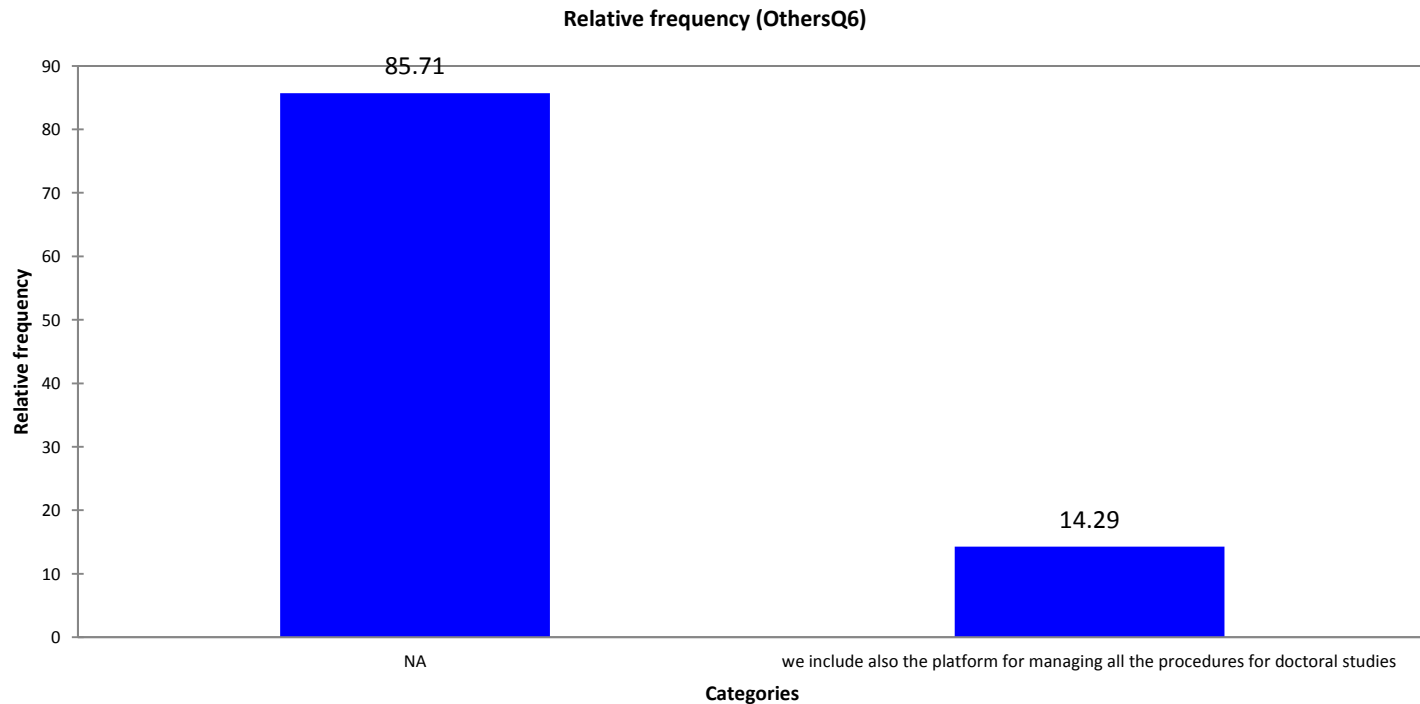
Q6 : If your university have a management platform for scientific research, what are these features ?

- 42.86% of universities for research management.
- 14.29% of universities for research management, mobility, events.
- 14.29% of universities are not operational.



Q6 : others

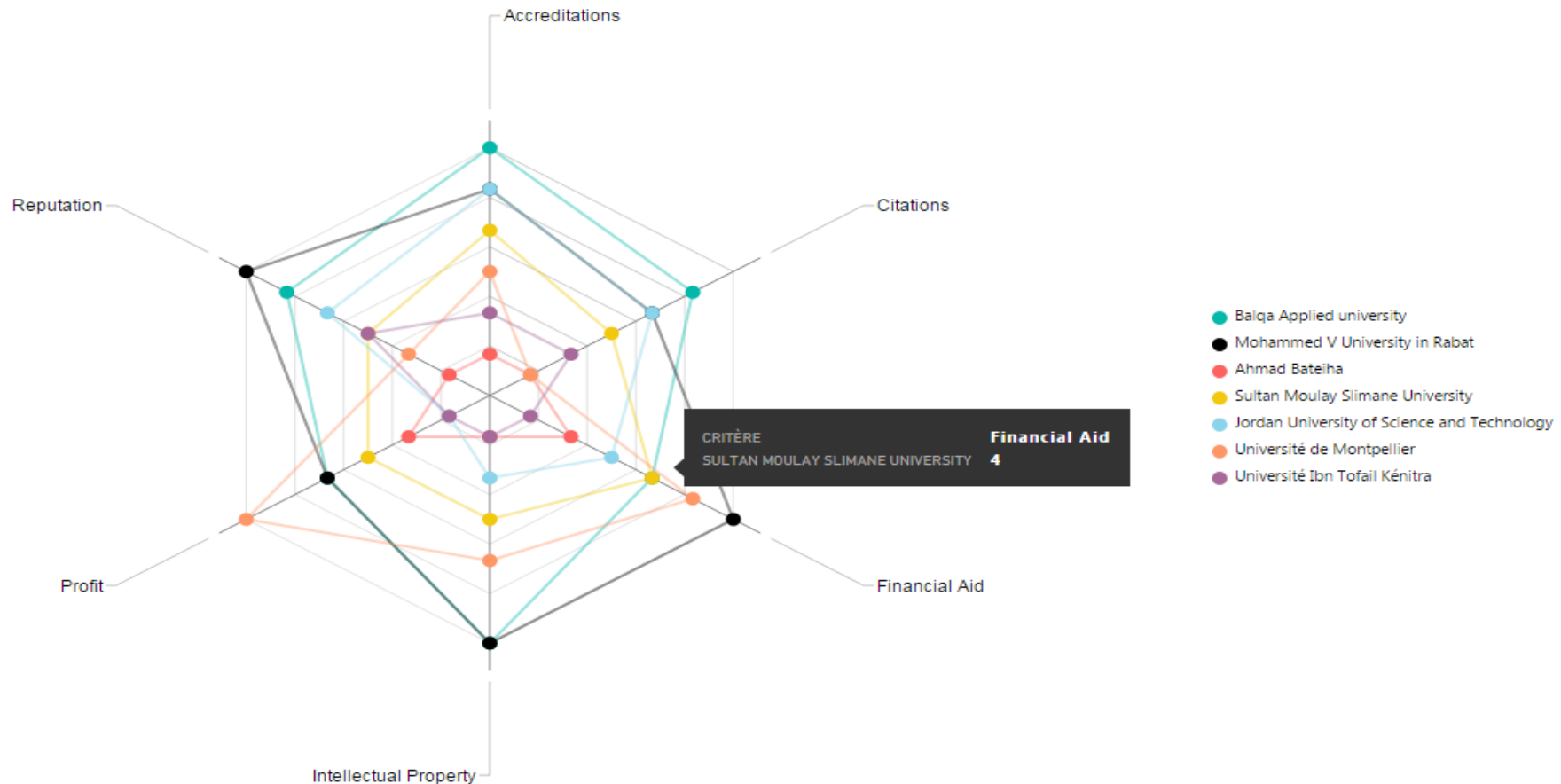
- 14.29% of universities use the platform for doctoral study.



Q7 : Rank the following scientific research outcomes based on your entity interests?

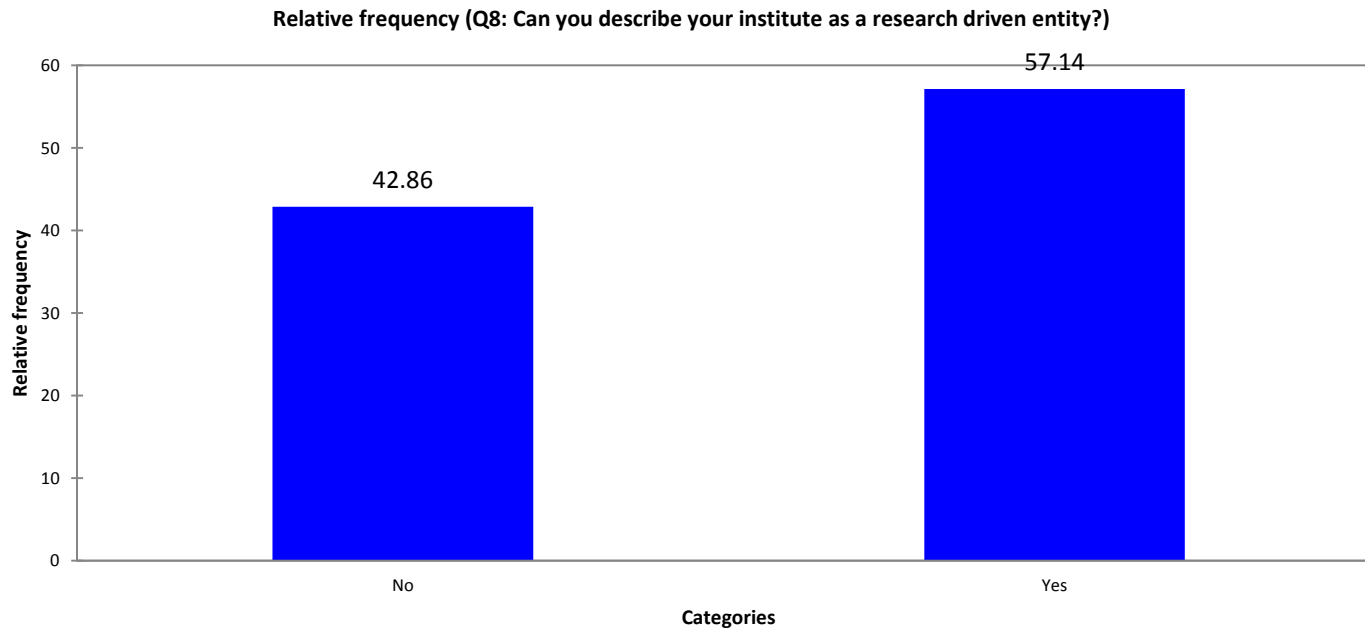
- 28.57% of universities ranked citations at level 1 and 4.
- 14.29% of universities for other levels.

Q7: RANK THE FOLLOWING SCIENTIFIC RESEARCH OUTCOMES BASED ON YOUR ENTITY ...



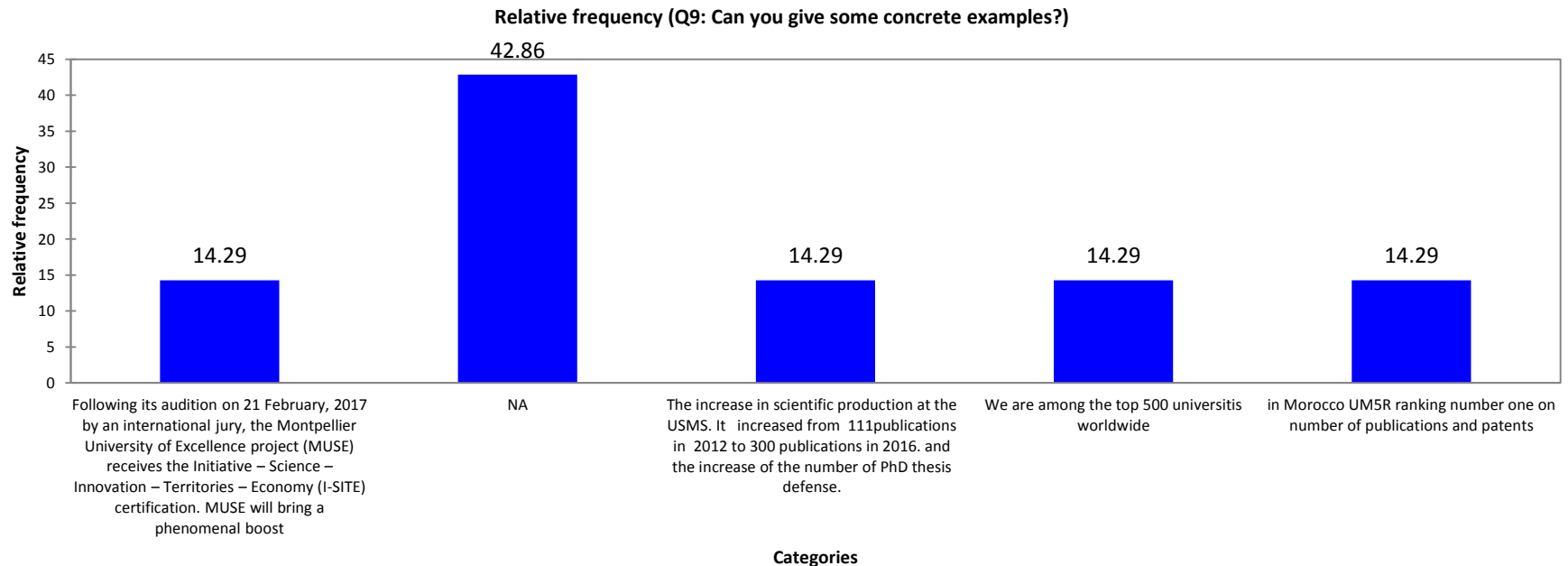
Q8 : Can you describe your institute as a research driven entity?

- 57.14% of universities answered Yes.



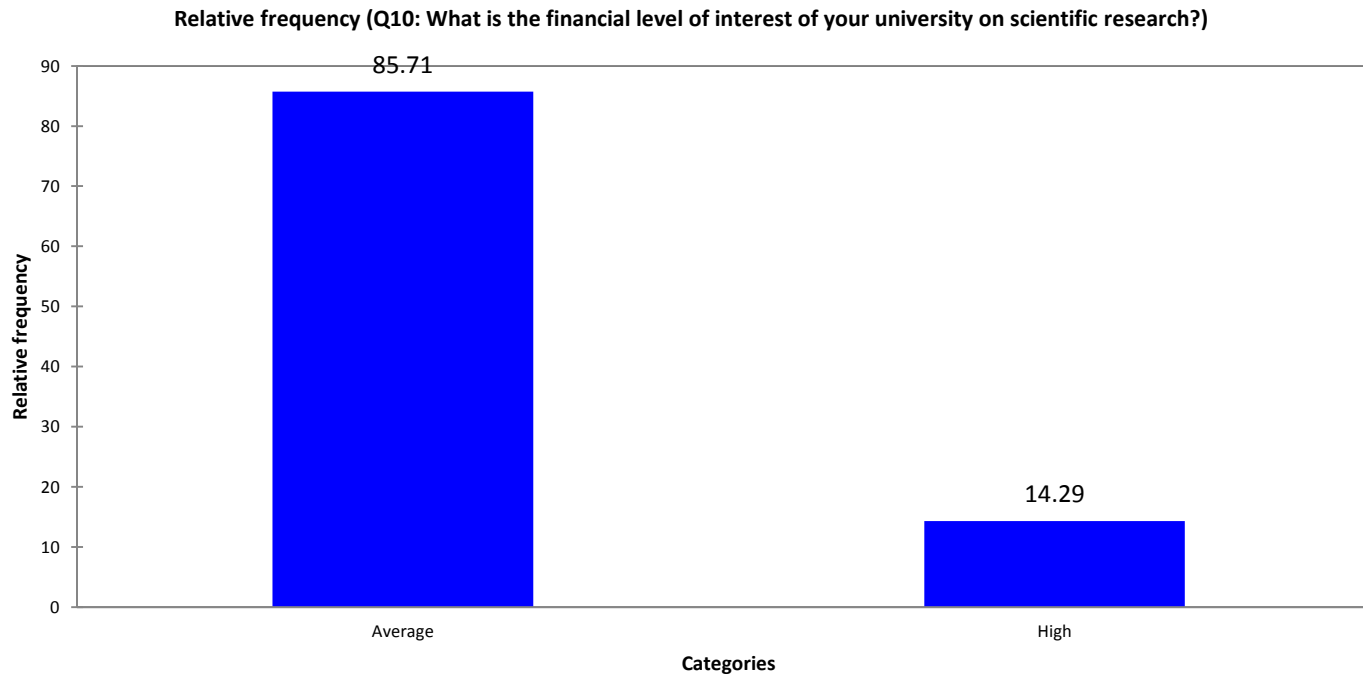
Q9 : Can you give some concrete examples?

- 57.2% of universities gave examples.

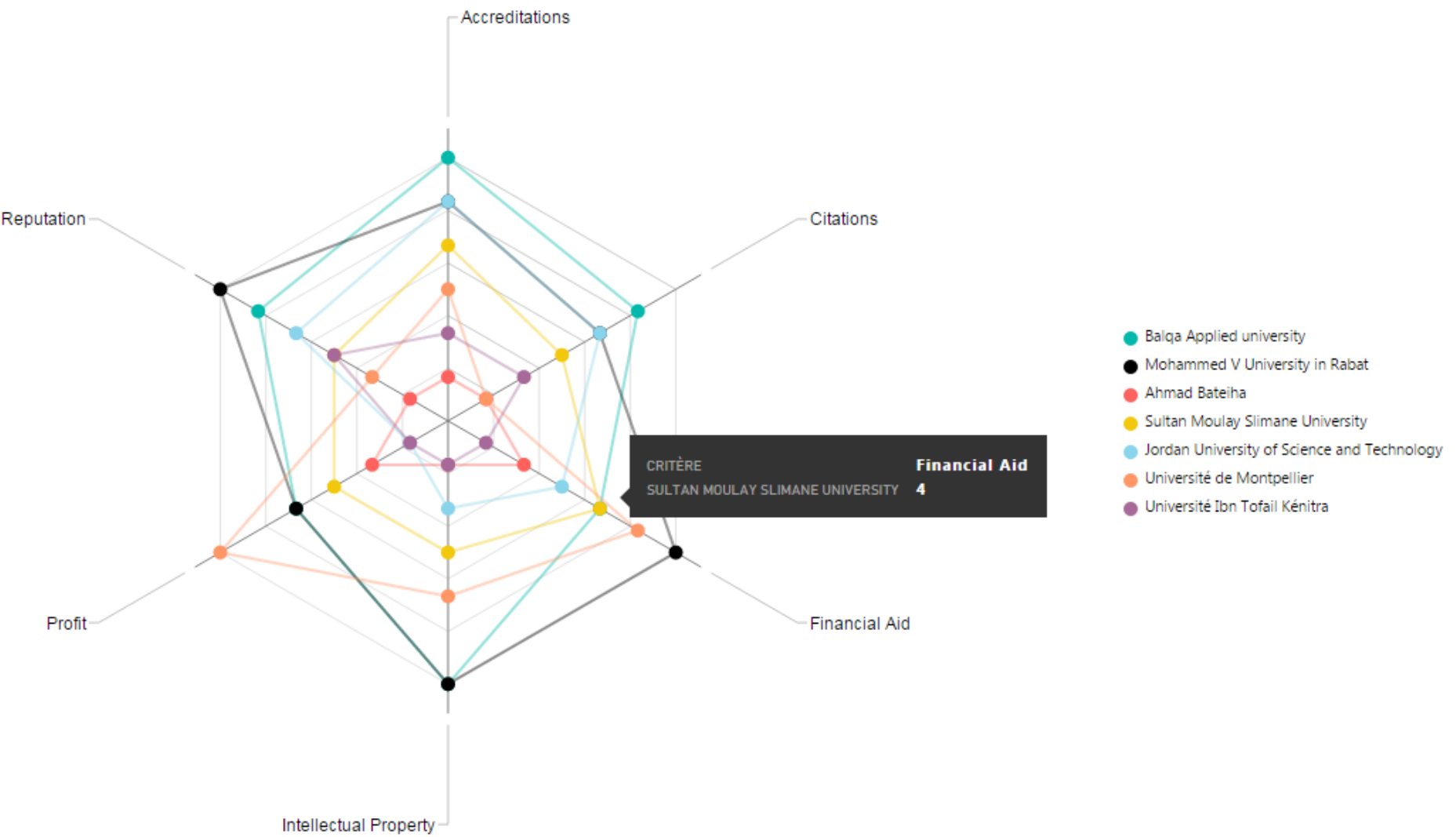


Q10 : What is the financial level of interest of your university on scientific research?

- 57.2% of universities are middle level.
- 14.29% of universities are high level.



Q7: RANK THE FOLLOWING SCIENTIFIC RESEARCH OUTCOMES BASED ON YOUR ENTITY ...



Using the ACP

- According to the correlation matrix, we note that there is a strong correlation from the point of view of reputation, accreditation and quotation interest (0.92, 0.89 and 0.85).

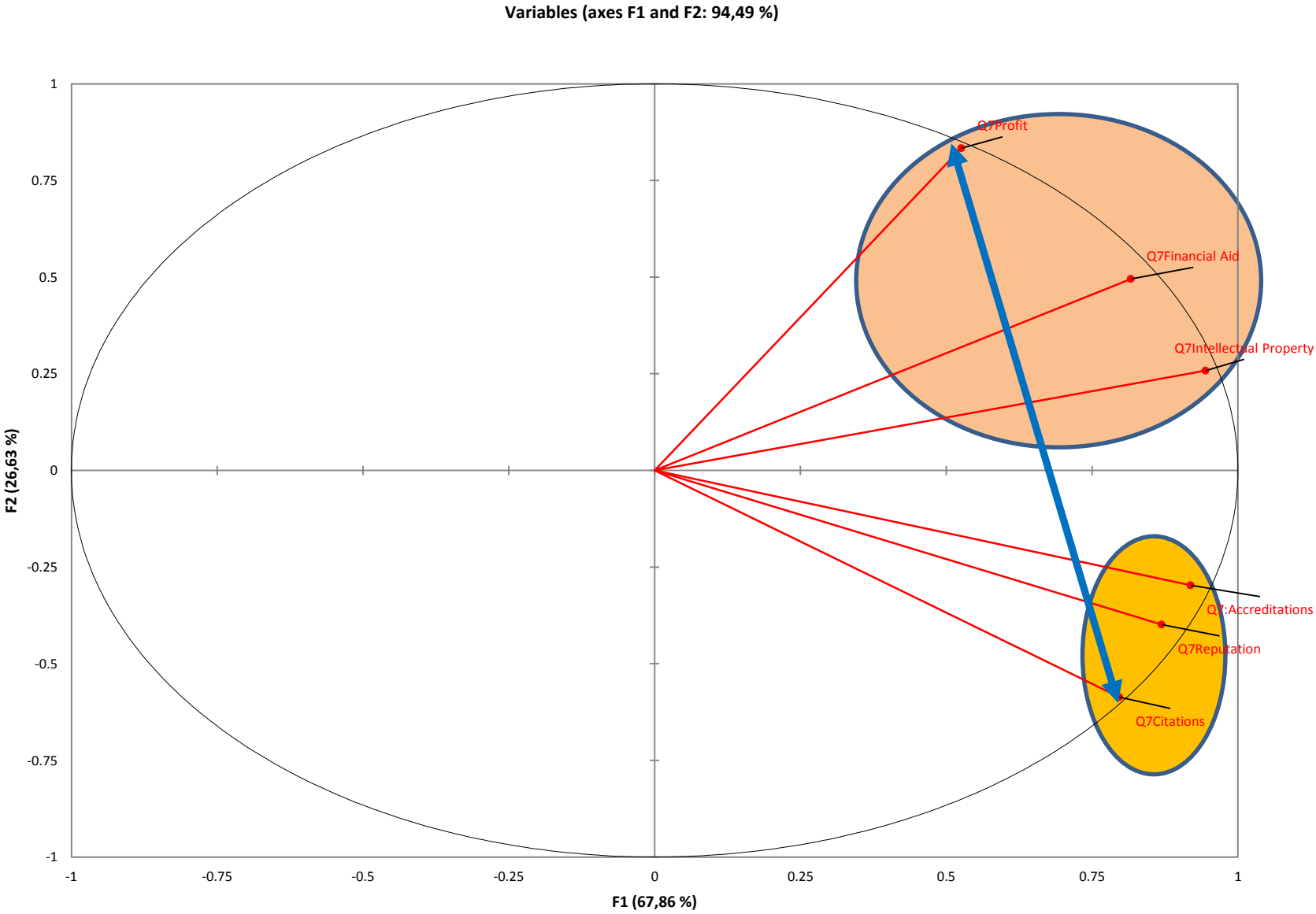
Variables	Q7Citations	Q7Reputation	Q7:Accreditations	Q7Intellectual Property	Q7Profit	Q7Financial Aid
Q7Citations	1,00	0,89	0,92	0,61	-0,06	0,34
Q7Reputation	0,89	1,00	0,85	0,73	0,11	0,52
Q7:Accreditations	0,92	0,85	1,00	0,76	0,25	0,60
Q7Intellectual Property	0,61	0,73	0,76	1,00	0,73	0,86
Q7Profit	-0,06	0,11	0,25	0,73	1,00	0,80
Q7Financial Aid	0,34	0,52	0,60	0,86	0,80	1,00

• The entities that participated in this study do not have the same levels of interest

Values in bold are different from 0 with a significance level $\alpha=0,05$

(citation, reputation, accreditation, intellectual property, profit and financial assistance).

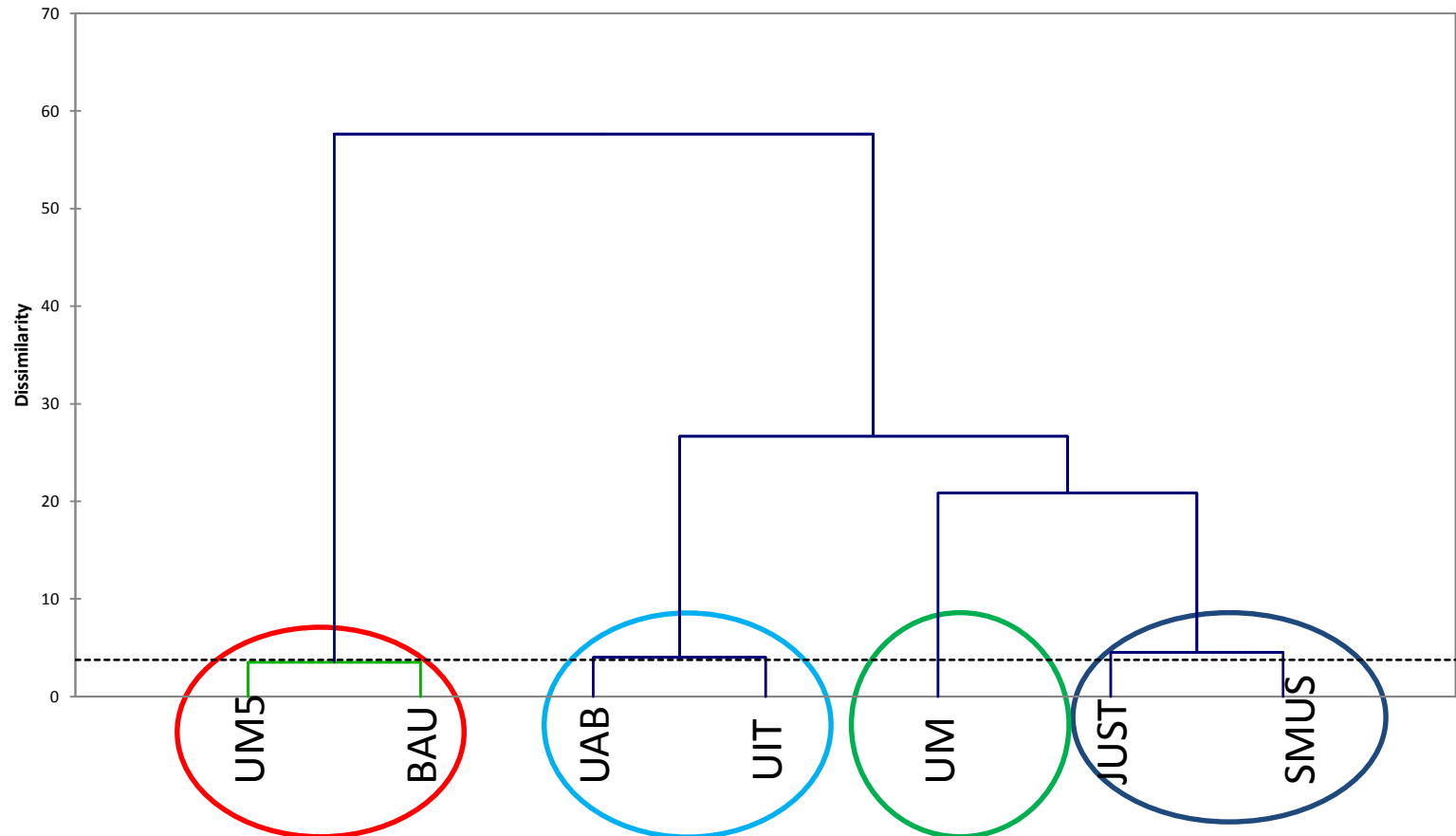
This last result was approved by the graph of the variables presented below:

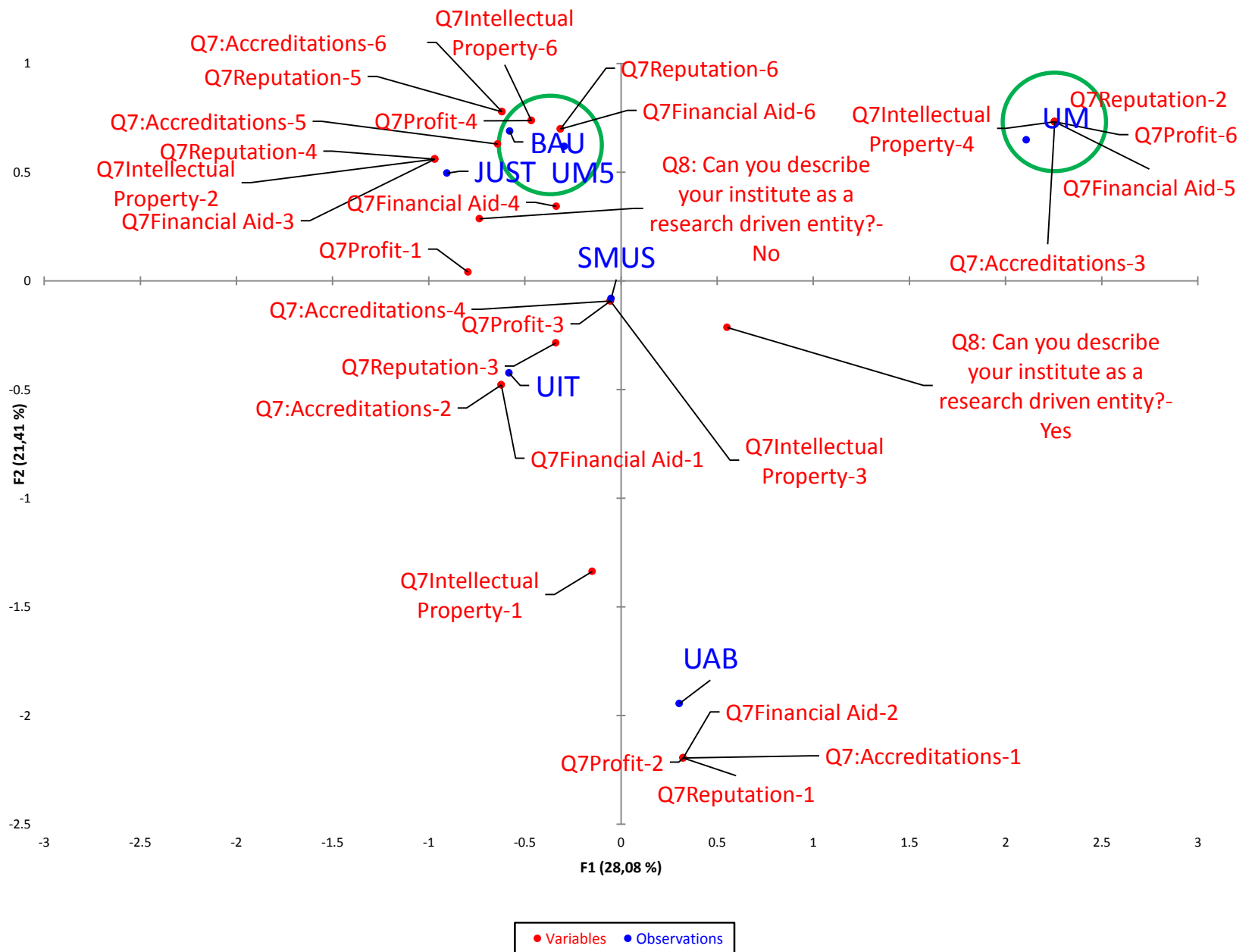


CAH

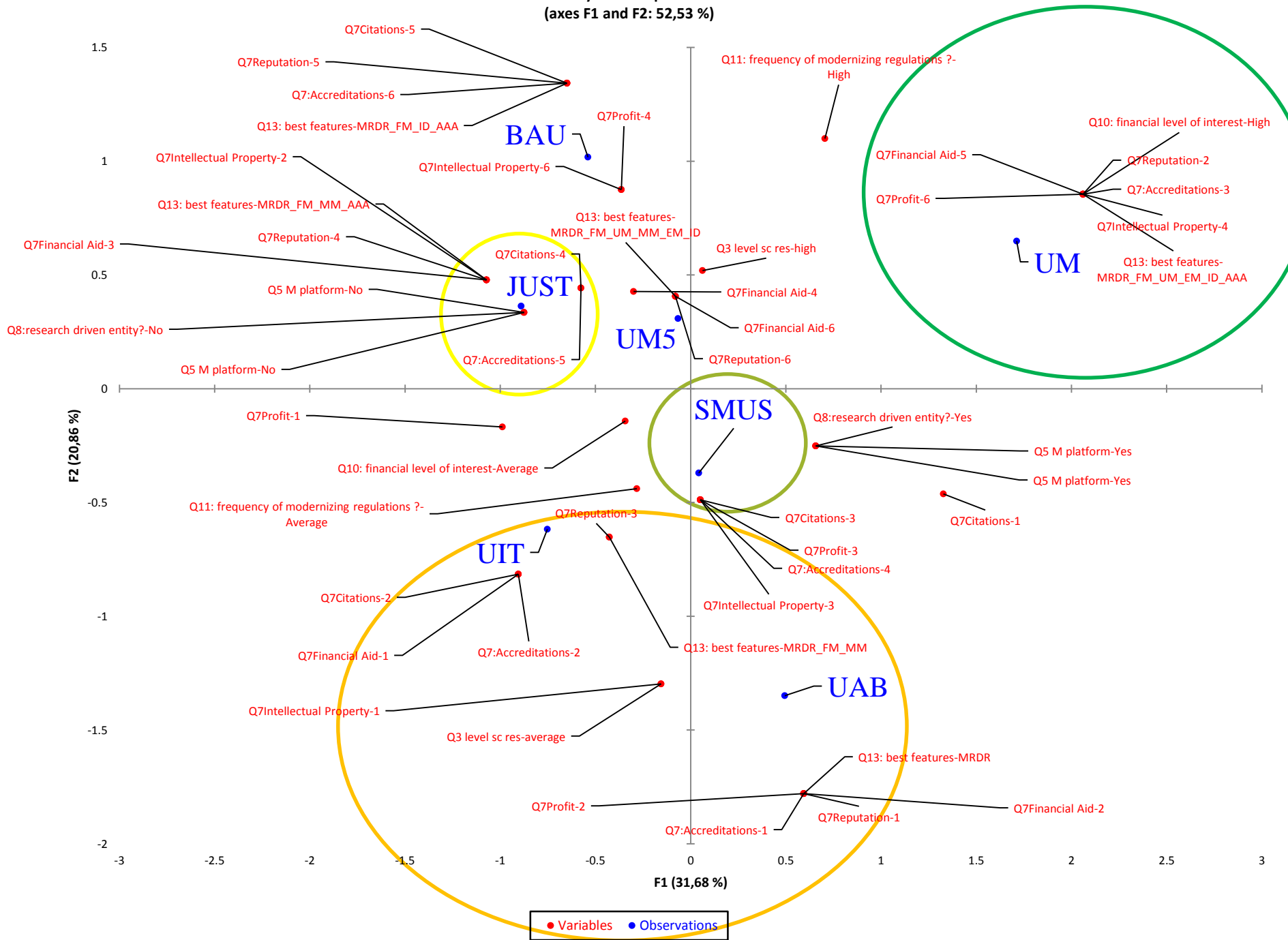
The UM expresses a different point of view from the other universities that participated in this study in terms of its level of interest in Quotations, Reputation, Accreditations, Intellectual Property, Profit and Financial Assistance. In general the 7 universities are not in perfect agreement according to their interests.

Dendrogram





Symmetric plot
(axes F1 and F2: 52,53 %)



Analysis of the ACM projection

- According to this analysis, the consortium universities are not in perfect agreement in the majority of questions.