

# **BPLIM: Microdata Research Laboratory of Banco de Portugal**

**“Measuring the economy in the digital age”**

**October 2, 2019 | Santiago, Chile**

**Paulo Guimarães**


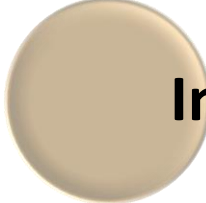
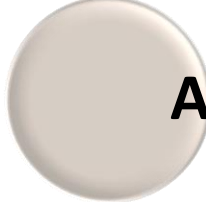

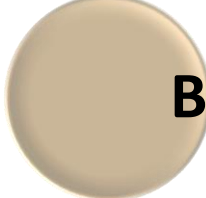
Deputy Director, Economics and Research Department  
**Banco de Portugal**



**BANCO DE  
PORTUGAL**  
EUROSYSTEM

# Microdata is the new gold!

---

-  **Economic agents are heterogeneous.**
-  **Increasing availability of large administrative micro data sets.**
-  **Ability to combine information from several sources.**
-  **Endless number of questions to be tackled.**
-  **Better grounding to economic policies.**



## But gold-digging is not easy!

---

- 1 Data access must be for the right purpose.
- 2 Confidentiality must be safeguarded.
- 3 Takes time to develop expertise around a large and complex database.
- 4 Preparing data for statistical or econometric analysis is often a daunting task for the researcher.
- 5 Exploration of large data requires adequate computational resources and software.
- 6 Researchers need to keep abreast of recent developments on techniques to manipulate and analyze data.



# Sharing the gold

**Central Banks** are very well positioned to bridge the gap between producers of administrative micro data and the research community in general because they:

- collect and produce micro data sets;
- have privileged access to administrative data sets;
- have a body of in-house researchers that routinely use the data for their research activities.



# Sharing the gold

## That is the case for Banco de Portugal:

- **Vast amount of knowledge regarding the collection, handling, and production of micro data sets;**
- **Researchers with a successful research agenda centered on the exploration of Portuguese administrative micro data bases;**
- **Assumed goal to: “Promote understanding of the Portuguese economy and European integration, and contribute towards a better and more informed society”.**



- ✓ **BPLIM is a Microdata Research Laboratory located in the Porto branch of Banco de Portugal.**



- ✓ **It is a unit of the Economics and Research Department (DEE) but works in close collaboration with the Statistics Department (DDE).**
- ✓ **A small but highly qualified team that combines data analysts and researchers.**



### Support the production of microdata based research projects about the Portuguese Economy

**Make available to researchers ready-to-use or customized data sets.**

**Supply auxiliary documentation.**

**Give access to great computational power and software.**

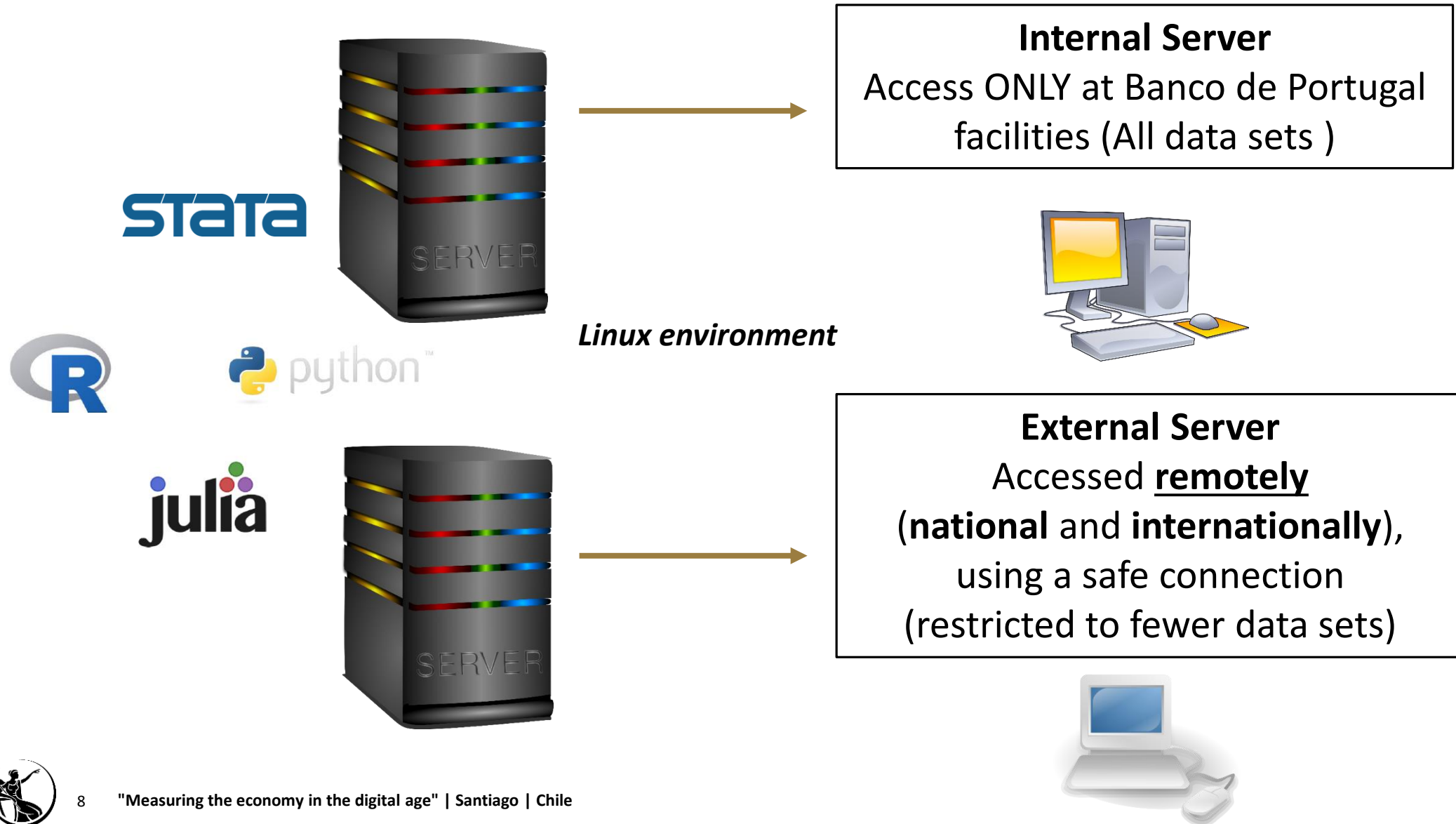
**Provide technical and scientific support to researchers.**

**Offer training in microdata techniques.**

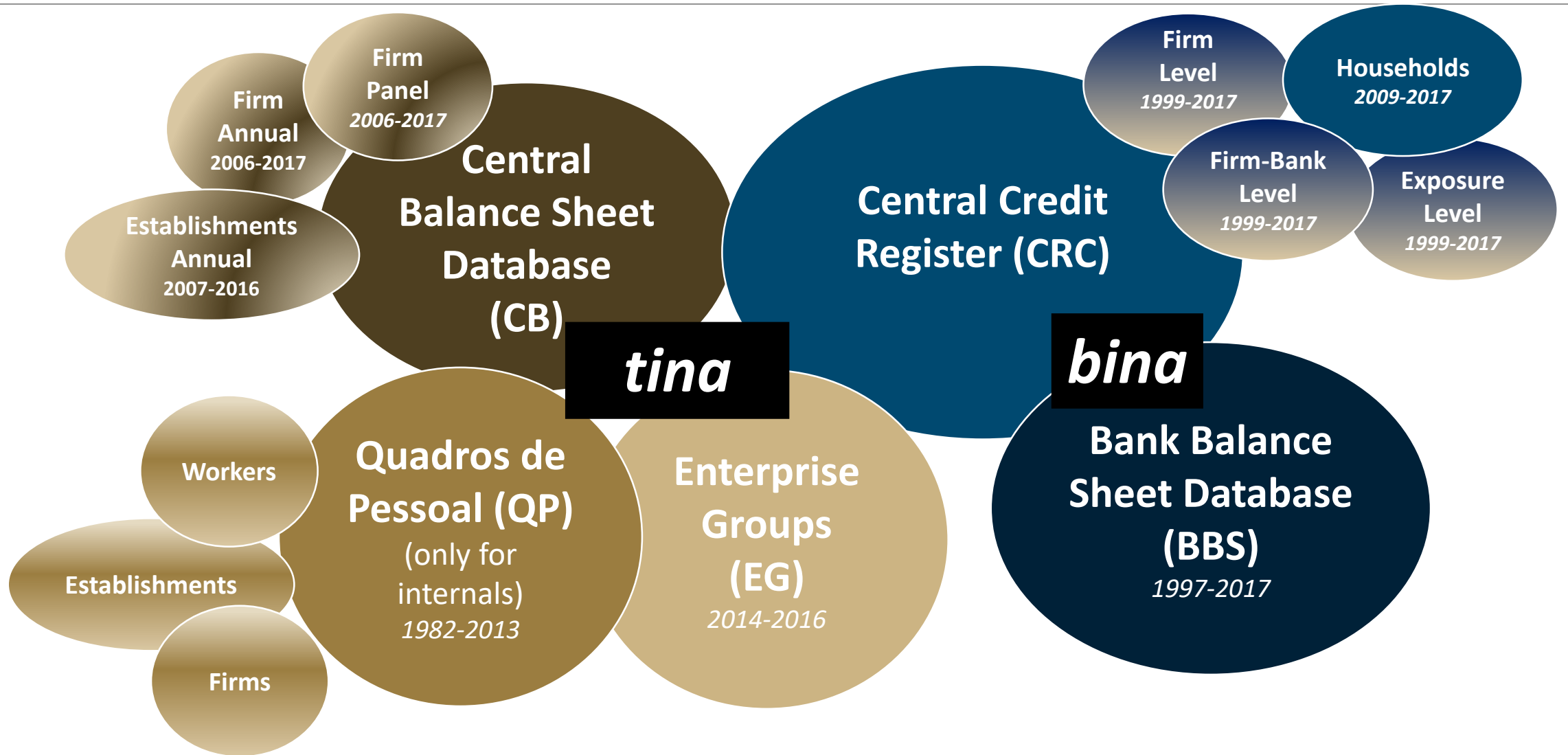
**Contribute to the development of young researchers.**



# BPLIM Servers and *software*



# Most Relevant Datasets



# BPLIM Web page

## BPLIM - Microdata Research Laboratory of Banco de Portugal

[About BPLIM](#)[Data](#)[Resources](#)[Projects](#)[Events](#)[Forum](#)[INEXDA](#)

### BPLIM News

Stata 15.1 is now available in BPLIM Servers

New CB Extraction Available - Jun2019

### User login

Username \*

### Latest Projects

Determinants of productivity in the quaternary sector

Gazelles: Drivers of exceptional job creation - A dynamic probit approach using Portuguese firm-level data

The effects of TLTROs on the Portuguese economy

### Forum

Welcome!

Welcome to the BPLIM website.

[General discussion](#)



# Lessons learned so far

---

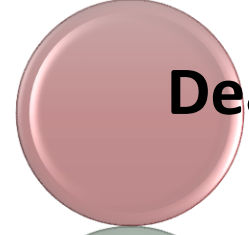


## Challenges ahead...

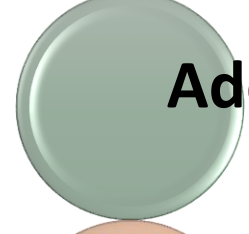
---



**Increasing demand.**



**Dealing with larger datasets.**



**Adding and merging data.**



**Adding value to the data.**

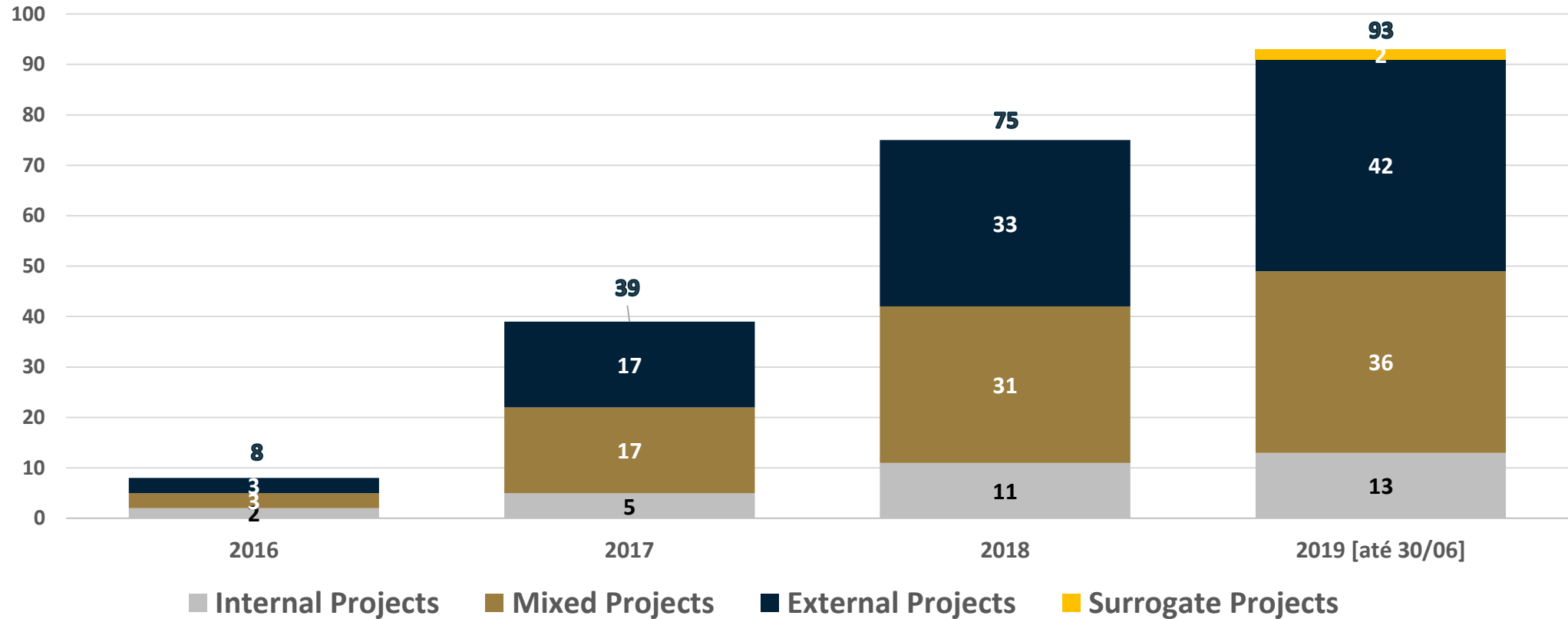


**Replicability with confidential data.**



# Projects and researchers

## OPENED PROJECTS UNTIL 30-06-2019



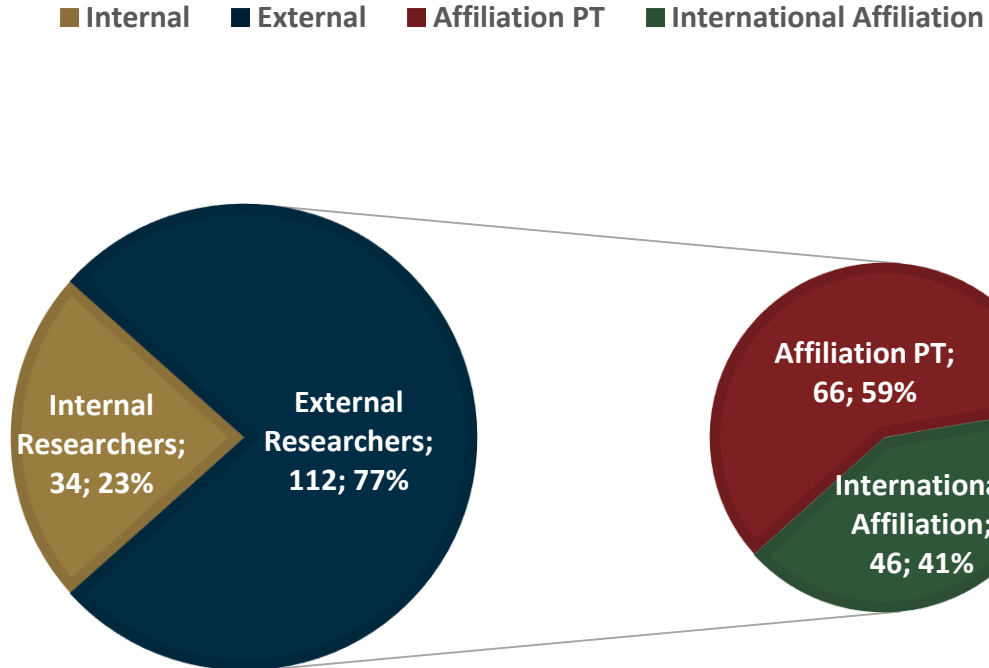
Until June 30, 93 projects were opened (in the Internal and External Servers) and 83 remain active.

In 2019, for the first time, 2 projects with Surrogate Access were opened.

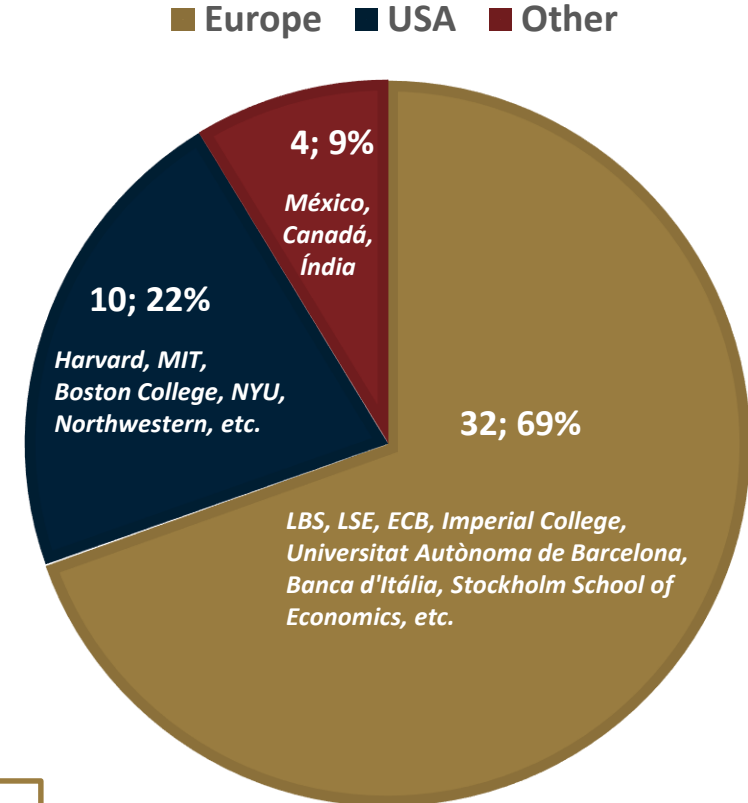


# Projects and researchers

## RESEARCHERS BY AFFILIATION



## RESEARCHERS WITH INTERNATIONAL AFFILIATION



### 12 Visiting Researchers at BPLIM:

- 4 Senior Researchers, 4 Master Thesis and 4 PhD Thesis.
- 5 PT affiliation, 4 Europe affiliation and 3 USA affiliation.



---

# Thank you for your attention!

**[BPLIM@bportugal.pt](mailto:BPLIM@bportugal.pt)**

