

# ECOSYSTEM of RESEARCH and INNOVATION of PUCRS

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Director of Technology Management Agency

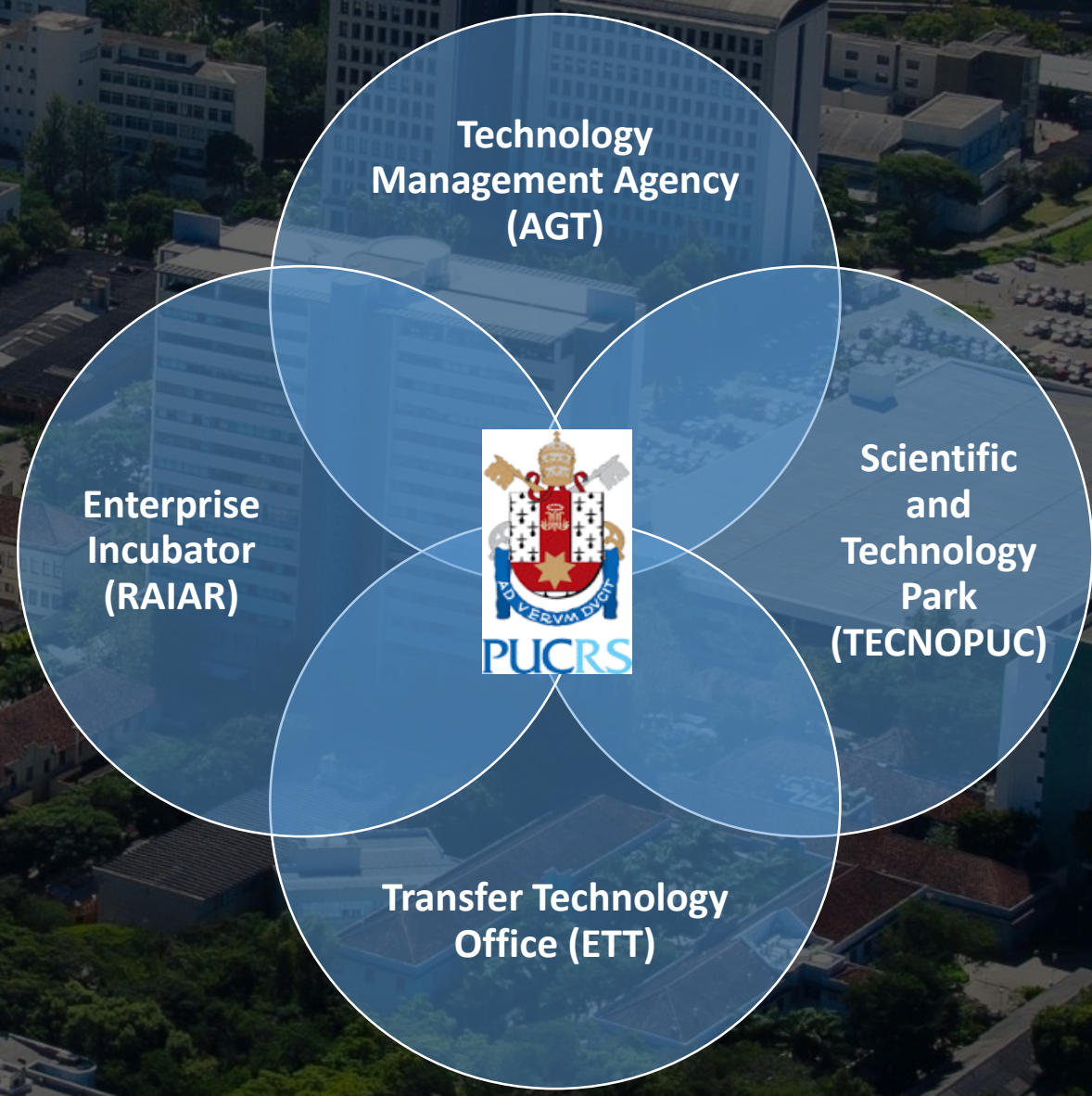
Pro-Rectorate for Research, Innovation  
and Development



PUCRS



# ECOSYSTEM of RESEARCH and INNOVATION





TECNOPUC

# Vision

To be a **WORLD CLASS ECOSYSTEM** of **RESEARCH** and **INNOVATION** where creative and talented **PEOPLE** can develop their potential, transforming science and technology into **ECONOMIC** and **SOCIAL DEVELOPMENT** sustainably, in the context of the Knowledge Society.





# TECNOPUC OFFERING VALUE

Generation of **KNOWLEDGE**

Support to **ENTREPRENEURSHIP** and **INNOVATION**

**RELATIONSHIP**

**TECHNOLOGY** Transfer

Generation of **WEALTH, JOBS** and **INCOME**





# MAIN FIELDS OF OPERATION

Information and Communications Technology  
Energy and Environment  
Life Sciences  
Creative Industry

# Who is at Tecnopuc?

ThoughtWorks®

atlantic

paim

appus  
HR ANALYTICS



4all

TOTVS

PGQP  
Qualidade RS

INSTITUTO  
DE ESTUDOS  
TRIBUTÁRIOS

IET

IPR

aQuiris  
game experience

DATUM  
TECNOLOGIA DE INFORMAÇÃO

boxbrazil

Stefanini  
IT Solutions

PMI  
RIO GRANDE DO SUL CHAPTER  
BRANCH EXTREMO SUL

PANDORGA  
TECHNOLOGIES

hp

DBSERVER

globo.com

DELL

RPH  
O amanhã que  
o hoje merece.

BR  
PETROBRAS

MOTOROLA

abinee

TOTH  
TECNOLOGIA

Hewlett Packard  
Enterprise

FK  
Biotec

accenture

getnet

ELDORADO

crialab



InsCer

LIFEMED

Microsoft

SOFTSUL

WINOVA  
STARTUPS DEVELOPMENT

PETROTITAN



# Who is at Tecnopuc?



# Who is at RAIAR (Incubator)?



B E Y O N D



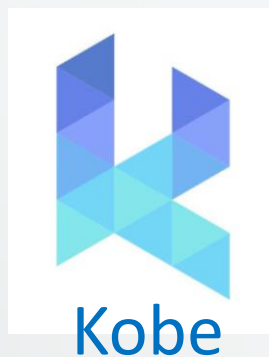
DocSpace



BioMarker



DocSpace



XL7 DATA  
SCIENCE

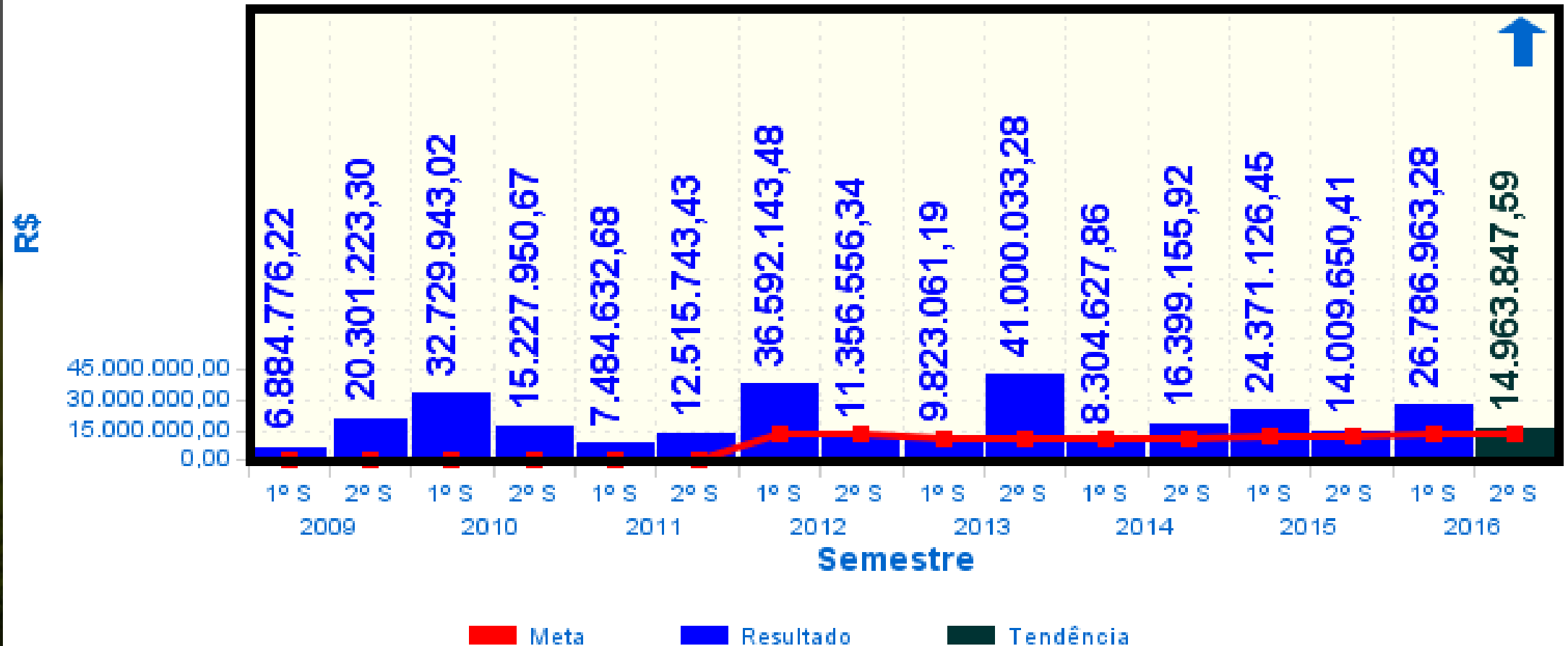




# Institutional Projects - Fundraising

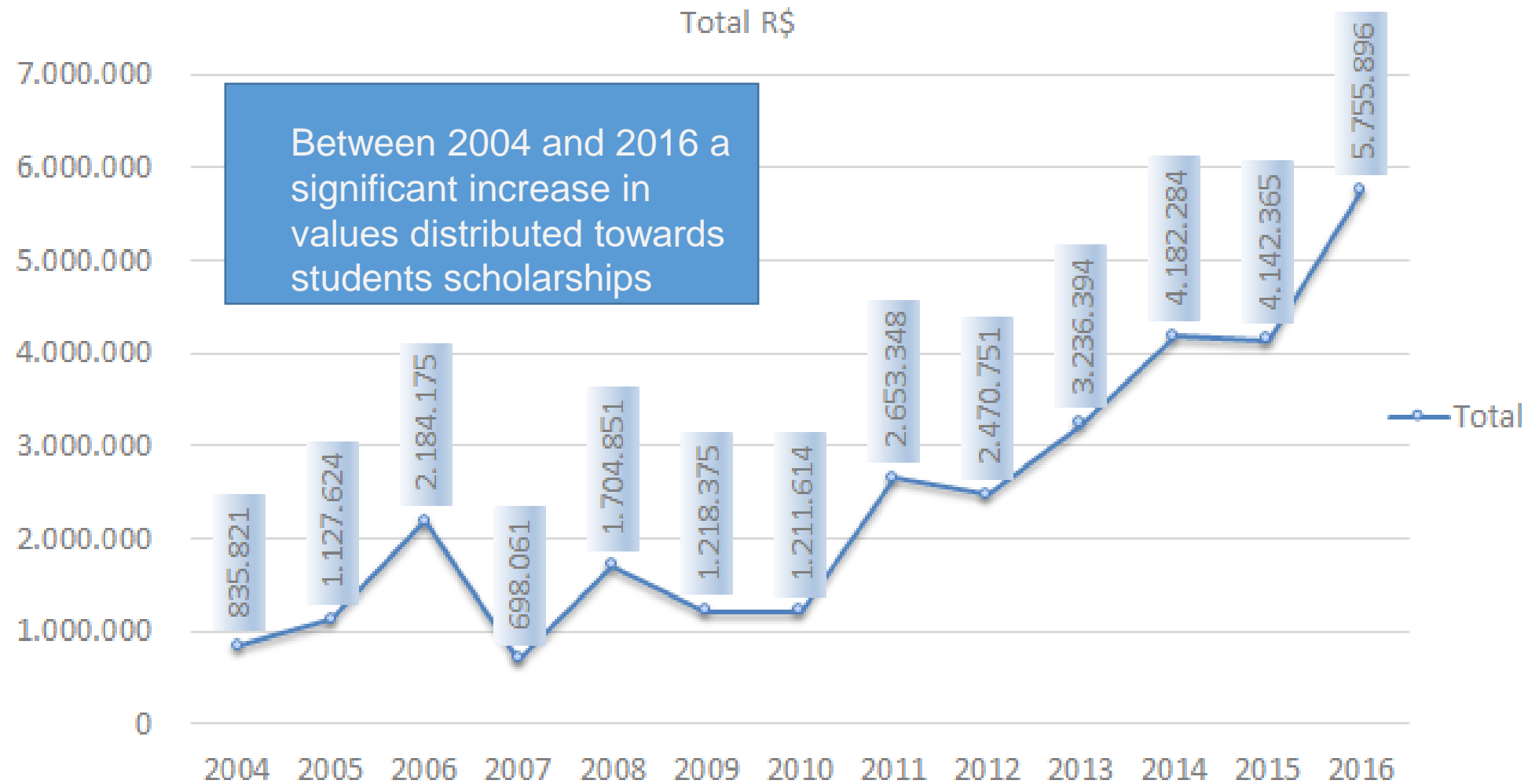
R\$298.751.435,12  
(~ \$ 93.000.000,00)

## Fundraising for RDI Projects



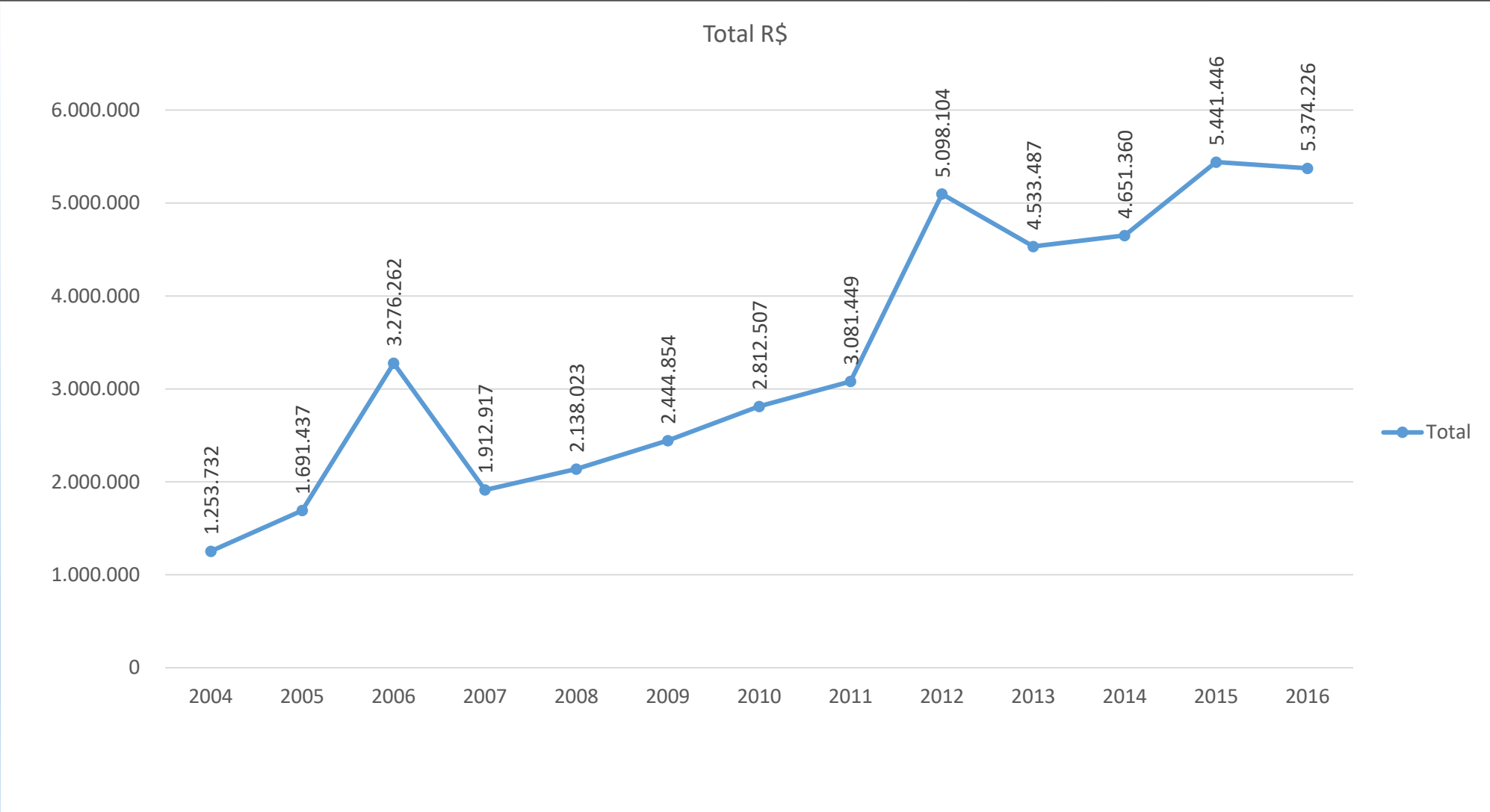


# Resources allocated for scholarships





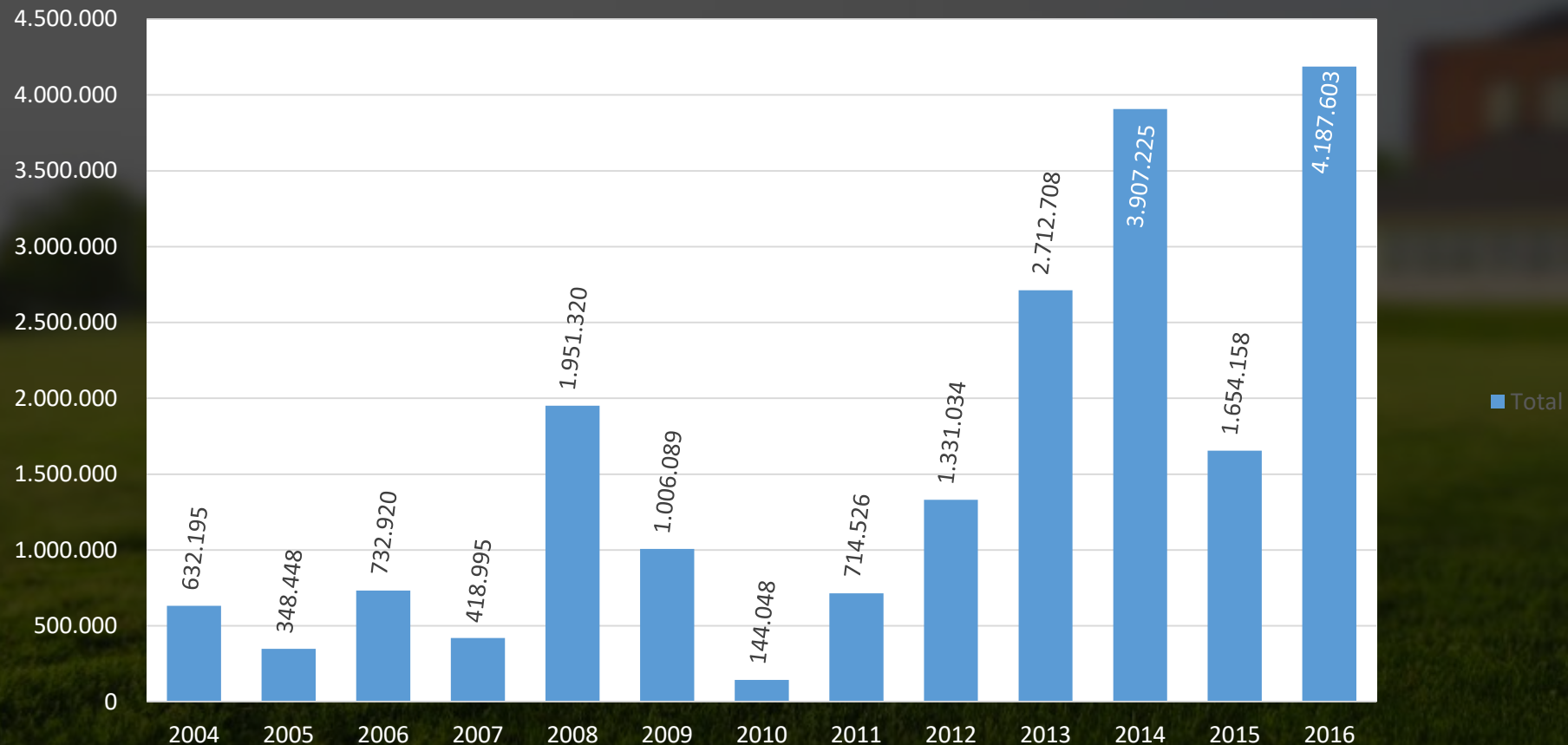
# Resources allocated for program fee





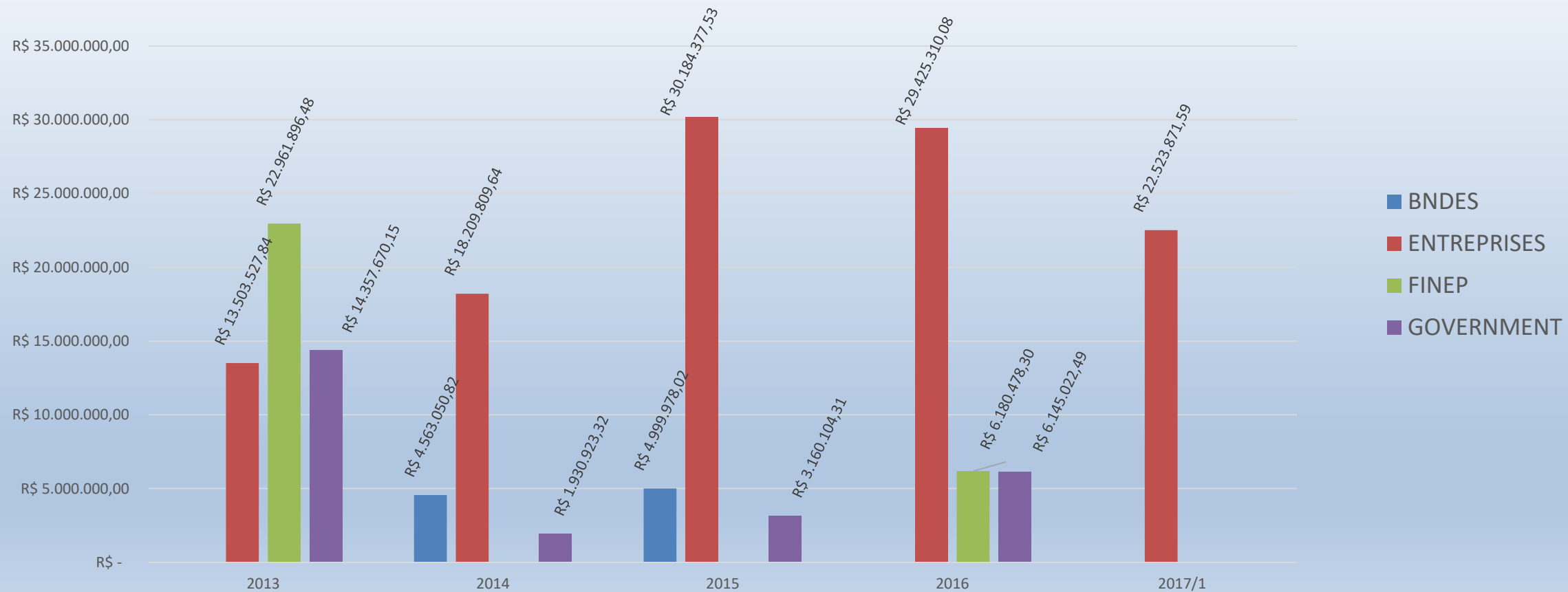
# Resources allocated for staff wage (R\$)

Total R\$





# Fundraising by Source





# Examples of Projects in Progress – International Funding

Project: Increasing International Science,  
Technology and Innovation Cooperation between  
BRAzil and the European Union — INCOBRA

- Funding: EUR 39.800 € (total EUR 1,948,740.00,  
consortium of 13 participants)

- Source: H2020 DIRECTORATE-GENERAL FOR  
RESEARCH & INNOVATION International  
cooperation North America, Latin America and  
Caribbean

- Project: Center for German and European Studies  
(CDEA) in cooperation with UFRGS

- Funding: EUR 1,166,667.00 / 4 years and 8  
months

- Source of funding German Ministry of Foreign  
Affairsthrough DAAD

# Examples of Projects in Progress – International Funding

- Project: Flexible and Autonomous Manufacturing Systems for Custom-Designed Products (FASTEN, IoT call)
- Funding: EUR 531.855,00 (total EUR 3.136.633,75, consortium of 10 participants)
- Source: H2020 RIA BR UE, European Commission and Rede Nacional de Pesquisa

Project: Application of hyaluronic acid and hydroxyapatite /  $\beta$ -Tricalcium phosphate (Bone Ceramic®) on cell culture based-bone tissue engineering: an in-vivo and in-vitro study

- Funding: US\$ 50,417.05 / 24 months
- Source: International Team for Implantology (ITI RESEARCH), Switzerland

- Project: Sustainable use of fish and seafood as well as efficient and safe processing for the food industry
- Funding: EUR 15,000 / 18 months (project amount EUR 400.000,00)
- Source: ROSOMA GmbH, Germany (company) and KfW / DEG German Development Bank

Project: Student Exchange Between Rice University and PUCRS Focused on Engineering Design Processes

Funding: US\$ 38.000

Source: 100.000 Strong in the Americas Innovation Fund



# Examples of Projects in Progress – International Funding

Project: Porting of the Hellfire Hypervisor and HellfireOS

Funding: US\$ 60.000

Source: PRPL Foundation Inc.

Project: Cultural Crowds - FASE II

Funding: US\$ 50.000,00

Source: Office of Naval Research

- Project: Gene-environment interactions in COCCaINE Use Disorder: Collaborative Case-Control Initiative in Cocaine Addiction

Funding: US\$ 665,832.00

Source: NIHEUA

- Project: Aquatic Faunal Survey of the Lower Amazon

- Funding: US\$ 29.243,00

- Source: UFC – The University of Central Florida

Project: Characterization of Urban Traffic Patterns in Intermittently Sampled Air Borne Wide-Area

Funding: US\$ 150.000,00

Source: US Air Force

Project: Comparative genomics of marine mammals

Funding: US\$ 59.400,00

Source: Office of Naval Research

# Examples of Projects in Progress – National Funding

- Project: Creativity Lab
- Funding: US\$ 567.451,00
- Source: HP Inc.

- Project: CONEGAS 2- P&D - Origin, occurrence and characterization of gas hydrate deposits in the Rio Grande Cone, Pelotas Basin
- Funding: US\$ 2.811.420,72
- Source: PETROBRAS

- Project: Qualification of Diagnosis and Prognosis of Congenital Infection by Zika Virus
- Funding: USD 1.558.753,38
- Source: FINEP

- Project: Research and Development Program in Information Technology
- Funding: US\$ 885.531,01
- Source: DELL

- Project: Sustainable Technologies for CO2 Separation and Use (cooperation with UFRJ)
- Funding: US\$ 630.051,66
- Source: Shell

- Project: Center of production and post-production of creative digital content
- Funding: US\$ 2.384.447,58
- Source: FAPERGS/Ministério de Comunicações



# PUCRS Research Projects

<b>Year</b>	<b>PUCRS Research Projects by Year</b>
<b>2013</b>	<b>1195</b>
<b>2014</b>	<b>1144</b>
<b>2015</b>	<b>1469</b>
<b>2016</b>	<b>1653</b>
<b>2017/1</b>	<b>1685</b>



# TECHNOLOGY TRANSFER

128 domestic patents required (since 1999)

58 international patents required (since 2002)

16 Prototypes developed in 2015



# TECHNOLOGY TRANSFER



**3D Printer  
Clever**

**Life Shock Pro Defibrillator  
Toth + Life Med + MicroG**





# Project Management







TECNOPUUC

**Tecnopuc**

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# Mission

interdisciplinary **RESEARCH AND INNOVATION**,  
intended to increase  
the **COMPETITIVENESS**  
of its actors, improve  
the **QUALITY OF LIFE** of its communities, and  
promote  
**SOCIAL and ECONOMIC DEVELOPMENT**  
of the region.



# Generation of KNOWLEDGE

## Overview of PUCRS

More than 50 Undergraduate programs

More than 100 Specialization programs

45 Graduate programs

More than 25K undergraduate students

More than 5K graduate students

More than 1,5K mil professors - 90% Master's and PhDs

More than 5K employees

